MARINE HARDWARE



LIGHTING	01
ELECTRICAL	02
ELECTRONICS	03
HARDWARE	04
APPLIANCES	05
MAINTENANCE	06
PAINT & ACCESSORIES	07
STEERING & CONTROLS	08
ENGINE PARTS	09
PLUMBING & FITTINGS	10
HEADS & PUMPS	11
SAFETY & NAVIGATION	12
RIGGING HARDWARE	13
ROPE & MOORING	14
SEATING	15
TRAILERING	16
WATERSPORTS & FISHING	17
FASTENERS & TOOLS	18
INDEX	19

2026

OUTDOOR INSTRUMENTATION
ENGINEERED IN SWITZERLAND

veratron MARINE

OL43: SMART MARINE MONITORING.



Engineered for clarity.
Built for reliability.
Designed to last.

Experience seamless integration and real-time monitoring with the **OL43**. Whether you're tracking engines, batteries, tanks, or navigation data, this 4.3" optically bonded IPS TFT display ensures perfect readability—even under direct sunlight. With support for NMEA 2000® and J1939 CAN, plus analog inputs and HTML5-ready Ethernet, the **OL43** is your all-in-one solution for modern marine instrumentation.



/ VL FLEX



/ NMEA2000®



/ VMH SERIES



/ KITS



/ SENSORS

WE ARE CERTIFIED: NMEA 2000© / ISO 9001 / ISO 14001 / ISO 17025

VERATRON.COM

Catalogue Information

Flip Through and See What's NEW

NEW

We've added many new items since our last catalogue — Look for them marked with the NEW symbol. **Red** part numbers also indicate new items, including new sizes and colours.

Part Numbers - Our manufacturers part number includes a 3 letter prefix denoting the manufacturer. This number is all you need to specify the exact item you require.

Rule Bilge Pump **RUL 10** 12V 2000-GPH BILGE PUMP

Manufacturers #



Dangerous Goods Information

D.G.

Some of the products we stock are regulated under the Transportation of Dangerous Goods Act. We have marked these products in the catalogue with either a **D.G.** diamond or as **Limited Quantity Shipping D.G**. Any product marked this way cannot be shipped by air and may be subject to an additional charge depending on carrier, quantity, or destination.

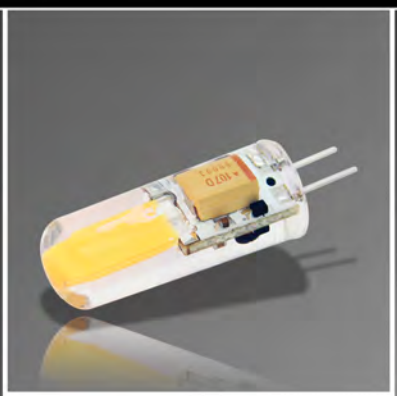
Please call us if you need clarification or a courier recommendation. We probably know a company that can get your order where you need it, when you need it.

Special Orders - Everything shown in our catalogue is available. There are numerous products available from our suppliers which we don't stock but may be readily available on a factory order. Please do not hesitate to ask for something not found on these pages. We bring in special orders for customers every day.

LIGHTING	01
ELECTRICAL	02
ELECTRONICS	03
HARDWARE	04
APPLIANCES	05
MAINTENANCE	06
PAINT & ACCESSORIES	07
STEERING & CONTROLS	08
ENGINE PARTS	09
PLUMBING & FITTINGS	10
HEADS & PUMPS	11
SAFETY & NAVIGATION	12
RIGGING HARDWARE	13
ROPE & MOORING	14
SEATING	15
TRAILERING	16
WATERSPORTS & FISHING	17
FASTENERS & TOOLS	18
INDEX	19

LUNASEA LIGHTING

Indoor & Outdoor Lighting
Marine Lighting









01 - LIGHTING

Navigation Lights	Navigation Lights	01-002 to 009
	Pole Lights & Bases	01-010 to 015
	Portable Lights	01-016
Searchlights & Spotlights	ACR	01-017
	Golight	01-018
	Marinco / Perko	01-018
Interior Lights	Ceiling / Light Bars	01-019 to 023
	Utility / Engine Room	01-023 to 024
	Berth	01-024 to 025
	Chart / Courtesy / Strip	01-025 to 028
Underwater Lights		01-029 to 030
Flood & Spreader Lights		01-031 to 035
Docking & Deck Lights		01-035 to 036
Worklights, Flashlights, Specialty		01-036 to 037
Light Bulbs	LED	01-039 to 042
	Incandescent	01-043 to 049
	Fluorescent	01-049
	Sockets	01-049

Required Visibility in Nautical Miles - IMO COLREGS 1972

Type of Navigation Light	Angle	Type of Boat	Boats < 12m / 39'	Boats < 20 m / 65'	Boats < 50 m / 164'	Boats > 50 m /164'
Starboard	112, 5°	Sailing and motor	1 NM	2 NM	2 NM	3 NM
Port	112, 5°	Sailing and motor	1 NM	2 NM	2 NM	3 NM
Stern	135°	Sailing and motor	2 NM	2 NM	2 NM	3 NM
Masthead	225°	Motor	2 NM	3 NM	5 NM	6 NM
All-Round	360°	Sailing and motor	2 NM	2 NM	2 NM	3 NM
Bi-Colour	112, 5° / 112, 5°	Sailing and motor	1 NM	2 NM	-	-
Tri-Colour	112, 5° / 112, 5°	Sailing	1 - 2 NM	2 NM	-	-

USEFUL DEFINITIONS

Masthead / Steaming light:
A white light placed over the fore and aft centreline of the vessel showing an unbroken white light over an arc of the horizon of 225°. It must be fixed so the light can be seen from right ahead to 22.5° abaft the beam on both sides of the vessel.

Side lights:
A green light on the starboard side (right) and a red light on the port side (left), each showing an unbroken light over an arc of the horizon of 112.5°. Both lights must be fixed so they can be seen from right ahead to 22.5° abaft the beam on its respective side.

In a vessel of less than 20m (65'7") in length, the sidelight may be combined in one lantern carried on the fore and aft centreline of the vessel.

Stern light:
A white light placed as nearly as possible at the stern (back) of the boat, showing an unbroken light over an arc of the horizon of 135° and fixed so the light can be seen 67.5° from right aft on each side of the vessel.

All-round light:
A light showing an unbroken light over an arc of the horizon of 360°.

Attwood Stern Light



- 2 NM visibility
- Stainless steel construction
- Diameter: 3"
- 12V

ATT 6356-D7
Parts:
SPE 90 Bulb: 13V-.58 A

Attwood LED Side Lights



- 2 NM visibility
- ABYC C-5 compliant
- LED light engine
- Cool to the touch
- Long lasting - 50,000+ hours
- Colour indicated cores for ease of installation
- Sharper cut-off angles and vibrant starboard and port colours for better visibility
- Corrosion resistant
- Water-resistant (IP Rating 67)
- Features tell-tale indicators for ease of use
- H: 1.1" x W: 2.3" x D: 2.5"
- 12V



ATT NV5012SS-1 Pair, Stainless steel
ATT NV5012PB-1 Pair, Composite black

Attwood LED Deck Mount Side Lights



- 2 NM visibility
- A line of deck mount lights that meet global regulatory requirements, including EN/ISO 19009:2015
- LED light engine
- Cool to the touch
- Long lasting - 50,000+ hours
- Colour indicated cores for ease of installation
- Sharper cut-off angles and vibrant starboard and port colours for better visibility
- Corrosion resistant
- Water-resistant (IP67)
- Features tell-tale indicators for ease of use
- Smaller footprint with refined styling
- 12V
- H: 1.17" x W: 2.125" x D: 2.44"



ATT NV1002SS-1 Bi-colour, Oval, Stainless steel
ATT NV2002SS-7 Bi-colour, Round, Stainless steel
ATT NV2012SSR-7 Port, Round, Stainless steel
ATT NV2012SSG-7 Starboard, Round, Stainless steel

ATT NV2002PB-7 Bi-colour, Round, Composite black
ATT NV2012PBR-7 Port, Round, Composite black
ATT NV2012PBG-7 Starboard, Round, Composite black

Attwood LED
Waketower All-Round Light



- 2 NM visibility
- Fully sealed and compact size designed for installation on a wakeboard tower, radar arch, or other fixed structure
- Draws only 1.8 watts
- Rated for 50,000+ hours of use
- 12" wire leads
- 10 year warranty
- Dimensions: Dia: 2-3/8" x H: 1-3/4"
- 12V

ATT 5580A7

Hella Marine LED
NaviLED PRO Lights



- ABYC C-5 compliant
- Ultra low current draw; less than 2W
- Completely sealed, IP67 certified
- Constructed of high impact, UV resistant acrylic
- Pre-wired with 2.5 m of twin core cable
- H: 3.54" x W: 3.43" x D: 2.25"
- 9 - 33V
- 5 year warranty



2 NM

HLA 017460001	Port, Black
HLA 017461001	Starboard, Black
HLA 017462001	Stern, Black
HLA 017460011	Port, White
HLA 017461011	Starboard, White
HLA 017462011	Stern, White



3 NM

HLA 017460101	Port, Black
HLA 017461101	Starboard, Black
HLA 017462101	Stern, Black
HLA 017460111	Port, White
HLA 017461111	Starboard, White
HLA 017462111	Stern, White



Accessories:

HLA 241287802	Horizontal mount adapter, Black
HLA 241287812	Horizontal mount adapter, White

Hella Marine LED
NaviLED PRO Lights



- Low power consumption: less than 2W on bi-colour, less than 2.5W on 3 NM masthead, and 4W on 5NM masthead
- Completely sealed, IP67 certified
- Grilamid plastic, impact and UV resistant
- Pre-wired with 2.5 m of twin core cable
- H: 3.54" x W: 3.43" x D: 2.25"
- 9 - 33V
- 5 year warranty



2 NM

- BSH approved

HLA 959941001	Bi-Colour, Black
HLA 959941011	Bi-Colour, White



3 NM

- ABYC C-5 compliant

HLA 959940201	Masthead, Black
HLA 959940211	Masthead, White

5 NM

- ABYC C-5 compliant

HLA 959940401	Masthead, Black
HLA 959940411	Masthead, White

Hella Marine LED
NaviLED Compact Lights



- 2 NM visibility
- ABYC C-5 compliant
- Ultra durable LED lamps consume less than 2W, port and starboard combined
- Enhanced impact, UV resistant acrylic lens and UV resistant ASA polymer housing
- Pre-wired with tinned marine cable
- W: 2.80" x H: 2.09" x D: 1.30"
- 9 - 33V



HLA 980520001	Port, Black
HLA 980520201	Starboard, Black
HLA 980520501	Stern, Black
HLA 980520011	Port, White
HLA 980520211	Starboard, White
HLA 980520511	Stern, White



Hella Marine LED
NaviLED Compact Towing Light



- 2 NM visibility
- Ultra low current draw: less than 2W
- Fully sealed for life, high-tech Polyamide housings to offer superior strength in extreme conditions, IP 67 Certified
- Pre-wired with cable
- W: 2.8" x H: 2.09" x D: 1.3"
- 9 - 33V

HLA 980520601	Towing

Hella Marine LED NaviLED Deck Mount Side Lights



- 2 NM visibility
- Completely sealed, IP67 certified
- Pre-wired with 500mm of tinned marine cable
- Enhanced impact, UV resistant acrylic lenses, and UV resistant ASA polymer housing
- Less than 2W combined current draw
- W: 3.54" x H: 1.52" x D: 1.97"
- 12/24V

HLA 980620801 Pair, Black
HLA 980620811 Pair, White

Hella Marine LED NaviLED Tri-Colour Light



- 2 NM visibility
- Completely sealed, IP67 certified
- Pre-wired with 400mm of tinned marine cable
- Grilamid plastic, impact and UV resistant lenses, and UV resistant high impact nylon housing
- Less than 1.5W current draw on all-round white, and less than 3.5W combined port/starboard/stern
- H: 3.74" x D: 3.35"
- 9 - 33V

HLA 980650001

Hella Marine LED NaviLED 360 All-Round Navigation Lights



- 2 NM visibility
- ABYC C-5 compliant
- Low profile surface mount
- Ultra low current draw: less than 1.5W
- Completely sealed, IP67 certified
- Grilamid plastic, impact and UV resistant
- Pre-wired with 1.4m of twin core cable
- H: 2.68" x D: 3.54"
- 9 - 33V

HLA 980910121 White light, Black base
HLA 980910521 Red light, Black base
HLA 980910321 Green light, Black base
HLA 980910131 White light, White base
HLA 980910531 Red light, White base
HLA 980910331 Green light, White base

Hella Marine LED NaviLED 360 All-Round White Navigation Lights



- 2 NM visibility
- Ultra low current draw: less than 1.5W
- Fully sealed for life, high-tech Polyamide housings to offer superior strength in extreme conditions, IP 67 Certified
- Pre-wired with 500mm of twin core cable
- H: 2.2" x D: 2.36"
- 9 - 33V

HLA 980960001 Black base
HLA 980960011 White base

Hella Marine 2492 Series All-Round / Anchor Navigation Light



- 2 NM visibility
- Impact and corrosion resistant black plastic housing
- H: 2.67" x W: 2.36"
- 12V

HLA 002492201

Parts:

SPE 67 Bulb: 12V-10W
SED 441067-1 Bulbs: 12V-10W, 2/pkg

Hella Marine 2984 Series Navigation Lights



- 2 NM visibility
- Masthead: 3 NM visibility
- Impact and corrosion resistant plastic housing
- H: 4-1/4" x W: 4-1/4" x D: 3-1/2"
- 12V

002984315

Part #	Colour	Light	Replacement Bulb
HLA 002984305	Black	Masthead	LUN LLB-28NW-24-SY
HLA 002984315	Black	Bi-Colour	-
HLA 002984325	Black	Stern	LUN LLB-28NW-24-SY
HLA 002984335	Black	Side Light Port	-
HLA 002984345	Black	Side Light Stb	-
HLA 002984505	Black	All-Round	LUN LLB-28NW-24-SY
HLA 002984355	White	Masthead	LUN LLB-28NW-24-SY
HLA 002984565	White	All-Round	LUN LLB-28NW-24-SY

Hella Marine 3562 Series Navigation Lights



- 1 NM visibility (red & green)
- 2 NM visibility (masthead & stern)
- Impact/corrosion resistant plastic housing
- H: 3" x W: 2-1/2" x D: 2-1/16"
- 12V

003562015

Part #	Colour	Light
HLA 003562005	Black	Masthead
HLA 003562015	Black	Stern
HLA 003562025	Black	Side Light - Starboard
HLA 003562035	Black	Side Light - Port
HLA 003562045	Black	Bi-Colour
HLA 003562135 **	White	Side Light - Port

** While Stock Lasts

Hella Marine 8504 Series Masthead/Floodlight Combo



- 3 NM visibility
- Flexible mounting arms allow a variety of mast profiles
- UV and impact-resistant plastic housing with stainless steel
- Glass lens bonded with reflector to be dust and moisture resistant
- Max output: 12V/55W or 24V/70W
- H: 9.72" x W: 4.37" x D: 8.07"
- 12/24V

HLA 998504001

Lunasea LED
ZERO EMI Anchor Navigation Lights



- 2 NM visibility
- Tri-colour/Anchor/Strobe and Anchor/Strobe
- Features emergency strobe and auto daylight turnoff for anchor
- State-of-the-art Active Current Control Technology produces zero EMI for the most sensitive equipment
- Made of machined aluminum, 140g/4.9 oz
- Waterproof connector is just 0.38" wide for easy cable routing
- Glass lens assures excellent light transmission
- Unit is hard anodized to withstand saltwater environments
- Removable bird spike
- High intensity, superior lumen maintenance
- Power consumption: 5 watt
- Height: 3.1" (4.6" with spike) x Dia: 2.5"
- 12V

LUN LLB-53BK-01-00 Tri-light with strobe
LUN LLB-53BA-01-00 Anchor light only

Lunasea Nav Light Riser



- Raises navigation light for better detection
- Made of pure aluminum, anodized black
- Increases height 4.5"
- Cable routes through bottom or side
- LL53 fixture can mount 0 degree or 90 degree on top
- 4 x 1/4" fastener

LUN LLB-53R4-01-00

Navigation Light Selector Switch



- Four settings, LED indicators: Off, Tri-light, Anchor, Flash
- Push connectors
- 3" x 3"
- 12V

LUN LLB-53SW-81-00

Lunasea LED
ZERO EMI Anchor Navigation Lights



- 2 NM visibility
- Tri-colour/Anchor
- Photo sensor automatically turns anchor light off during daytime
- Zero EMI does not affect your AIS equipment
- ASA plastic with glass lens
- Conformal coated circuitry and breather valve
- Removable bird spike
- Power consumption: 3 watt
- Height: 4.2" x Dia: 2.6" (not including spike)
- 3' 3-conductor 18AWG marine grade tinned wire
- 12V

LUN LLB-73BK-01-BB Black enclosure
LUN LLB-73BK-01-WB White enclosure

Perko Horizontal Mount Bi-Colour Light



- 2 NM visibility
- Plastic with ultrasonically welded lenses gasketed to the base
- Gold plated contacts
- L: 3-1/4" x W: 2-1/4" x H: 1-5/8"
- 12V

PER 252-WB-DP1 ** White
Parts:
PER 247-DP-LNS Spare lens
** While Stock Lasts

Perko Horizontal Mount Bi-Colour Light



- 2 NM visibility
- Chrome plated zinc top with black polymer base and snap in bulb stand
- Ultrasonically welded lenses gasketed to the base
- 5 year limited warranty
- L: 3-1/4" x W: 2-5/16" x H: 5/8"
- 12V

PER 227-DP-CHR
Parts:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg

Perko
Horizontal Mount Bi-Colour Light



- 1 NM visibility
- Chrome plated zinc
- Flag staff socket dia: 3/4"
- Base: 6-1/4" x 3-7/8" x H: 3-3/8"
- 12V

PER 1218-DP-CHR **
Parts:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
** While Stock Lasts

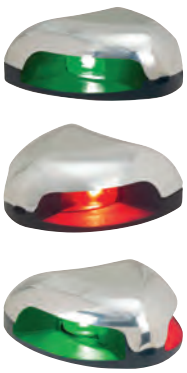
Perko LED
Horizontal Mount Side Lights



- 2 NM visibility
- Plastic with ultrasonically welded lenses gasketed to the base
- Gold plated contacts
- Draw: 3.75W each light
- L: 3-1/4" x W: 2-1/4" x H: 1-5/8"
- 12V

PER 616-DP2-STS Pair, Stainless
PER 616-DP2-BLK Pair, Black
PER 615-DP2-STS Bi-Colour, Stainless

Perko LED
Horizontal Mount Side Lights



- 2 NM visibility
- ABYC C-5 compliant
- Polished stainless steel top with black polymer base
- Low profile design with self contained LED modules
- Draw: 2.5W
- L: 2-1/2" x W: 2-3/4" x H: 1"
- 12V

PER 626-DP0-STS Pair
PER 625-DP0-STS Bi-Colour

Perko LED Horizontal Mount Side Lights



- 2 NM visibility
- ABYC C-5 compliant
- Chrome plated zinc alloy top with black polymer base
- Self contained LED modules
- Draw: 2.5W
- L: 3-3/8" x W: 2-1/2" x H: 1-1/2"
- 12V

PER 648-DP0-CHR Pair
PER 647-DP0-CHR Bi-Colour

Perko LED Horizontal Mount Stern Light



- 2 NM visibility
- ABYC C-5 compliant
- Stainless steel cover with black polymer base
- Self contained LED modules
- Draw: 2.05W
- H: 1-5/8" x D: 2-3/8"
- 12V

PER 1265-DP0-STS

Perko Side Lights



- 2 NM visibility
- Made of corrosion proof polymer
- H: 3-5/8" x W: 4-1/8" x Dia: 2-1/2"
- 12V

Part #	Description	Colour
PER 170-BB-DP1	Bi-Colour	Black
PER 170-BP-DP1	Side Light - Port	Black
PER 170-BSD-DP1	Side Light - Starboard	Black
PER 170-BSN-DP1	White Stern	Black
PER 170-WP0-DP1	Side Light - Port	White
PER 170-WSD-DP1	Side Light - Starboard	White

Parts:
PER 70-DP1-CLR Bulbs: 12V-13W, 2/pkg

Perko Vertical Mount Side Lights



- 2 NM visibility
- Plastic with ultrasonically welded lenses gasketed to the base
- Gold plated contacts
- L: 3-1/2" x W: 2-1/4" x H: 13/16"
- 12V

PER 254-B-DP1 Black, pair
PER 254-W-DP1 White, pair
Parts:
PER 277-DPG-LNS Green lens for 254
PER 277-DPR-LNS Red lens for 254
Bulbs:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg

Perko LED Side Lights



- 2 NM visibility
- Stainless steel and black polymer construction
- 4-3/16" x 1-3/8"
- Sold in pairs
- 12V

PER 618-DP0-STS

Perko LED Vertical Mount LED Side Lights

NEW



- 2 NM visibility
- Chrome plated bronze with black polymer base
- Gold plated contacts
- L: 3-1/2" x W: 2-1/4" x H: 1-3/8"
- 12V

PER 274-M00-DP1 Pair

Perko Horizontal Mount Side Lights



- 2 NM visibility
- Plastic with ultrasonically welded lenses gasketed to the base
- Gold plated contacts
- L: 3-1/2" x 2-1/4" x H: 7/8"
- 12V

PER 253-B-DP1 Black, pair
PER 253-W-DP1 White, pair
Parts:
PER 273-DPG-LNS Green lens
PER 273-DPR-LNS Red lens
Bulbs:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg

Perko Vertical Mount Side Lights



- 1 NM visibility
- Chrome plated zinc
- Sold in pairs
- L: 5-1/2" x W: 3-1/8" x H: 1-3/4"
- 12V

PER 1264-DP-CHR **
Parts:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
PER 1264-DP-LNS Red and green lens set
PER 1264-DP-99A Socket assembly
Note Not for new construction-Replacement ONLY
** While Stock Lasts

Perko 200 Series Navigation Lights


200-BT-DP1

Top Mount

- 2 NM visibility (3 NM visibility 200-MT-DP1)
- Made from black polymer
- Overall H 4-13/16" x Lens H: 2-3/4" x D: 3-5/16"
- 12V

Part #	Description	Visibility	Bulbs
PER 200-BT-DP1	Bi-Colour	225°	12V-25W
PER 200-PT-DP1	Side Light - Port	112-1/2°	12V-25W
PER 200-SDT-DP1	Side Light - Starboard	112-1/2°	12V-25W
PER 200-MT-DP1	White Masthead	225°	12V-25W
PER 200-SNT-DP1	White Stern	135°	12V-10W
PER 200-TWT-DP1	Yellow Towing	135°	12V-10W


200-MB-DP1

Base Mount

Same as above but base mounts.

- 2 NM visibility (3 NM visibility 200-MB-DP1)
- Overall H: 4-7/8" x Lens H: 2-3/4" O.D.base: 3-5/16"
- 12V

Part #	Description	Visibility	Bulbs
PER 200-BB-DP1	Bi-Colour	225°	12V-25W
PER 200-PB-DP1	Side Light - Port	112-1/2°	12V-25W
PER 200-SDB-DP1	Side Light - Starboard	112-1/2°	12V-25W
PER 200-MB-DP1	White Masthead	225°	12V-25W
PER 200-SNB-DP1	White Stern	135°	12V-10W
PER 200-SWB-DP1	White All-round	360°	12V-10W
PER 200-TWB-DP1	Yellow Towing	135°	12V-10W

Base Mount



- 2 NM visibility
- Tri-colour-all-round light, visibility arc 360°
- Dual purpose all-round light
- Two bulbs (25W and 10W)
- Overall H: 8-5/8" OD base: 3-5/16"
- 12V

PER 200-TAB-DP1

Parts:

LUN LLB-28NW-24-SY 12V BAY15D

Mounting Bracket



Bracket allows you to mount 200 series lights onto a 1/2" pipe thread. Comes with mounting screws and gasket.

- O.D. 3-5/16"

PER 222-DP-BLK

Perko Navigation Lights


108 109 110

- 2 NM visibility (3 NM visibility 110-000-BLK)
- Made from polymer with gloss black "Perko Kote" finish
- Bulbs are sold separately
- 12/24V

Part #	Description	Visibility Arc	Overall Height
PER 109-G00-BLK	Side Light - Starboard	112-1/2°	5-1/4"
PER 109-R00-BLK	Side Light - Port	112-1/2°	5-1/4"
PER 110-000-BLK	White Masthead	225°	5-1/4"
PER 111-000-BLK	White Stern	135°	5-1/4"
PER 111-M00-BLK	Yellow Towing	135°	5-1/4"
PER 108-000-BLK	White All-Round (pole)	360°	6"
PER 108-R00-BLK	Red All-Round (pole)	360°	6"

Parts:

PER 259-CL2-GRN * 112-1/2°, Green spare lens
PER 259-CL2-RED * 112-1/2°, Red spare lens
PER 106-000-GRY * 360°, Grey spare lens
PER 70-DP1-CLR 12V bulb, 2/pkg
PER 67-DP2-CLR 24V bulb, 2/pkg
PER 70-DP2-CLR 32V bulb, 2/pkg

* Special Order


1127 1128 1129

Perko Navigation Lights

- 2 NM visibility, (5 NM visibility 1128-A00-BLK)
- Made from black polymer complete with pre-wired double contact socket and 3 feet of 16/3-SJO cable
- Watertight access cap for rebuilding and cleaning
- Overall Height: 7-1/2" x lens height: 4-1/2"
- 12 - 32VDC, 120VAC
- ***Bulbs are sold separately***

Part #	Description	Visibility Arc
PER 1127-RA0-BLK	Side Light - Port	112-1/2°
PER 1127-GA0-BLK	Side Light - Starboard	112-1/2°
PER 1128-A00-BLK	White Masthead	225°
PER 1129-A00-BLK	White Stern*	135°
PER 1129-MA0-BLK	Yellow Towing	135°
PER 1130-A00-BLK	White All-Round*	360°
PER 1130-RA0-BLK	Red All-Round	360°

*Note: Supplied with a grey tinted lens

Parts:

PER 134 Double contact socket
PER 1105-000-BLK Access cap O-ring & retainer
PER 1119 O-ring for cap

Perko Stern Light



- 2 NM visibility
- Chrome plated brass with black polymer base
- H: 1-5/8" x Base dia: 2-3/8"
- 12V

PER 945-DP-CHR ** Vertical mount
Parts:
PER 281-DPA-LNS Red/green lens (open top)
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
PER 74-DP-WHT Lens for 945
** While Stock Lasts

Perko Vertical Mount Masthead Light



- 3 NM visibility
- Chrome plated zinc with black polymer base
- H: 3-3/4" x W: 1-1/2"
- 12V

PER 1331-DP-CHR
Parts:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT Lens, 2/pkg

Perko Vertical Mount Stern Light



- 2 NM visibility
- Chrome plated zinc with a black polymer base
- H: 3-3/4" x W: 1-1/2"
- 12V

PER 1332-DP-CHR **
Parts:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT Lens 2/pkg
Note Not for new construction-Replacement ONLY
** While Stock Lasts

Sea-Dog LED Combination Retractable Bow Light

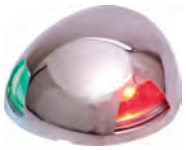


- 2 NM visibility
- Twist lock cap pop up, ready to use when it's switched on
- Push cap down, twist to lock, and light disappears into the deck
- Investment cast stainless steel cap and bezel
- IP67 waterproof rating
- Includes #10 fasteners
- Dia: 3-15/16" x Depth: 3-7/8" x H: 1-3/8"
- 12V



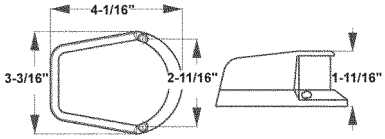
SED 400054-3

Sea-Dog LED Bi-Colour Bow Light



- 2 NM visibility
- Stamped stainless steel construction
- Uses #8 RH (2) fasteners, not included
- H: 1" x W: 2-1/4"
- 12V

SED 400059-1

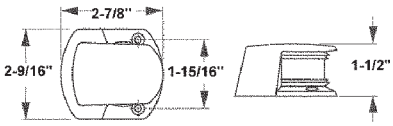




Sea-Dog Bi-Colour Bow Light

- 1 NM visibility
- Made of die-cast zinc and injection molded nylon, chrome plated
- Uses #10 FH (2) fasteners, not included
- 12V

SED 400157-1 **
Parts:
PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
Note Not for new construction-Replacement ONLY
** While Stock Lasts



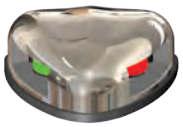


Sea-Dog Bi-Colour Bow Light

- 1 NM visibility
- Made of die-cast zinc, chrome plated
- Uses #10 FH (2) fasteners, not included
- 12V

SED 400155-1 **
Parts:
SPE 90 Bulb: 13V- .58 A
Note Not for new construction-Replacement ONLY
** While Stock Lasts

Sea-Dog LED Combination Bow Lights



- 2 NM visibility
- ABYC C-5 compliant
- Stamped 316 stainless or injection molded ABS
- IP67 certified
- Uses #8 RH fasteners (3), not included
- L: 2-3/16" x W: 2" x H: 1"
- 12V



SED 401080-1 Stainless
SED 401081-1 Black

Sea-Dog Bi-Colour Bow Light



- 1 NM visibility
- Stamped stainless steel construction
- H: 1-3/8" x Dia: 2-5/16"
- Uses #4 RH fasteners (3), not included
- 12V

SED 400150-1 **
Parts:
SPE 90 Bulb: 13V-.58 A
Note Not for new construction-Replacement ONLY
** While Stock Lasts

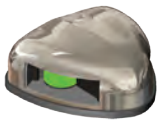
Sea-Dog LED Side Lights



- 2 NM visibility
- IP67 waterproof rating
- Includes one starboard (green) and one port (red) light
- Stamped 304 stainless with 316 stainless base
- Sold in pairs
- Uses #8 RH (4) fasteners, not included
- L: 2-9/16" x W: 2-1/4" x H: 1"
- 12V

SED 400069-1

Sea-Dog LED Top Mount Side Lights



- 2 NM visibility
- ABYC C-5 compliant
- Stamped 316 stainless or injection molded ABS
- IP67 certified
- Uses #8 RH fasteners (2), not included
- L: 2-3/16" x W: 2" x H: 1"
- 12V



SED 401087-1 Stainless
SED 401088-1 Black

Sea-Dog LED Side Mount Side Lights



- 2 NM visibility
- ABYC C-5 compliant
- Stamped 316 stainless or injection molded ABS
- IP67 certified
- Uses #8 RH fasteners (2), not included
- L: 2-3/16" x W: 1" x H: 1"
- 12V



SED 401091-1 Stainless
SED 401092-1 Black

Sea-Dog LED Side Lights



- 2 NM visibility
- Includes one starboard (green) and one port (red) light
- Stamped 304 stainless steel or injection molded ABS
- Sold in pairs
- Uses #8 FH (2) fasteners, not included
- L: 3-7/8" x W: 2-1/4" x H: 1-7/8"
- 12V

SED 400070-1 Stainless steel
SED 400071-1 White
SED 400073-1 Black

Sea-Dog LED Side Lights



- Sold in pairs
- Uses #8 FH (2) fasteners, not included
- W: 3-9/16" x H: 2-5/8" x D: 3/4"
- 12V

SED 400078-1 1 NM, Injection molded ABS
SED 400079-1 2 NM, 304 stainless steel

Sea-Dog All-Round Light



- 2 NM visibility
- Stamped stainless steel construction
- Uses #4 RH (3) fasteners, not included
- H: 1-5/16" x Dia: 2-5/16"
- 12V

SED 400140-1 **
Parts:
SPE 90 Bulb: 13V-.58 A
Note Not for new construction-Replacement ONLY
** While Stock Lasts

Sea-Dog Masthead Light



- 2 NM visibility
- Stamped stainless steel construction
- Uses #4 RH (3) fasteners, not included
- H: 1-3/8" x Dia: 2-5/16"
- 12V

SED 400120-1 **
Parts:
SPE 90 Bulb: 13V-.58 A
Note Not for new construction-Replacement ONLY
** While Stock Lasts

Sea-Dog LED Transom Light



- 2 NM visibility
- Stamped 304 stainless
- Uses #8 RH (2) fasteners, not included
- Dia: 3-1/4" x H: 9/16"
- 12V

SED 400033-1

Attwood LED
All-Round Fold-Down Anti-Glare Pole Light



- 2 NM visibility
- 360° illumination
- Condensation management increases visibility
- Anti-glare engine preserves night vision
- Shock, corrosion and water-proof electronics
- Durable, anodized aluminum pole
- Articulating head for use in all applications
- Stainless steel fold-down base
- Over 50,000 hour life
- 10-year warranty
- 12V

ATT 5550-S36-1 36"

Attwood LED
All-Round Removable Pole Lights



- 2 NM visibility
- Articulating head adjusts from 15° fore to 15° aft
- LED power on indicator
- Rated for 50,000+ hours of use
- Proprietary optics draws only 3 watts at 12VDC
- Fully sealed electronics
- Comes with universal 2-pin socket, locking collar
- Compatible with both Attwood and Perko plug in bases
- 5 year warranty
- 12V

ATT 5530-24A7 24"
ATT 5530-36A7 36"
ATT 5530-48A7 48"

Attwood All-Round Telescoping Pole Light



- 2 NM visibility
- Can be removed quickly from any compatable pole light base
- Aluminum pole telescopes from 26" to 42"
- Includes 12 volt, 12-watt bulb
- 12V

ATT 5610-48-7 **
Parts:
SPE 1004 Bulb: 12.8V-.94 A
Note Not for new construction-Replacement ONLY
** While Stock Lasts

► Also See Mounting Bases pg 01-015

Hella Marine LED
All-Round Fold-Down Lights



- 2 NM visibility
- Ultra low current draw of less than 1W
- LED Grilamid lenses for long term stability against UV degradation, as well as impact and chemical resistance
- Base and pole are anodized aluminum
- IP67 Certified
- Pre-wired with 1.5m of twin core marine cable
- Light dimensions: H: 2.76" x Dia: 2.36"
- Base dimensions: 2.20" x 2.05"
- 9 - 33V

HLA 980960301 12", Black
HLA 980960311 12", White
HLA 980960321 20", Black
HLA 980960331 20", White
HLA 980960341 24", Black
HLA 980960351 24", White

Hella Marine LED
All-Round Pole Lights



- 2 NM visibility
- ABYC C-5 compliant
- Ultra low current draw of less than 1W
- Completely sealed, IP67 certified
- Grilamid lenses for long term stability against UV degradation, as well as impact and chemical resistance
- Pre-wired with twin core marine cable
- Light dimensions: H: 2.76" x Dia: 2.36"
- Base dimensions: 2.95" x 1.34"
- 9 - 33V

HLA 980960201 6", Black
HLA 980960211 6", White

Perko LED All-Round Pole Lights



- 2 NM visibility
- Stylish design with self-contained LED module
- Optics adjust based on pole mount angles
- Fits all Perko 0° and 5° plug-in mounting bases
- Includes locking and large threaded collars
- Nominal draw: .1A
- 3/4" aluminum tube
- 12V, 1.28W

PER 1444-DP3-ALU	30"
PER 1444-DP4-ALU	36"
PER 1444-DP5-ALU	42"

► *Also See* Mounting Bases pg 01-015

Perko LED Fold Down All-Round Lights



- 2 NM visibility
- Stylish design with self-contained LED module
- Optics adjust based on pole mount angles
- Includes both horizontal and vertical mount bases
- Nominal draw: .1A
- 3/4" silver or black aluminum tube
- Meets ABYC C-5
- 12V, 1.28W

PER 1670-DP0-ALU	14", silver
PER 1670-DP0-BLK	14", black
PER 1670-DP2-ALU	24", silver
PER 1670-DP2-BLK	24", black

Perko All-Round Telescoping Pole Lights



- 2 NM visibility
- Clear fresnel globe with a black polymer top
- Chrome plated zinc alloy base included
- 3/4" diameter anodized aluminum pole w/locking collar, 16° rake
- Base: L: 3-3/4" x W: 1-5/8"
- 12V

PER 1311-DP2-CHR **	20-1/8"
PER 1311-DP3-CHR **	26-5/8"
PER 1311-DP4-CHR **	32-3/8"

Parts:

SPE 1004	Bulb: 12.8V, .94 A
PER 248-DP-CLR	Globe
PER 1059-T00-DP	Telescoping base (16° Rake)

Note Not for new construction-Replacement ONLY

** While Stock Lasts

Perko All-Round Light



- 2 NM visibility
- Reduced glare design
- Black polymer top and base
- Tubing is 3/4" anodized aluminum
- H: 6-7/8" x Base: 1" x 2-5/8"
- 12V

PER 1604-DP-CHR

Parts:

PER 338-DP2-CLR	Bulbs: 12V-9W, 2/pkg
PER 238-DP-BLK	Lens assembly

Perko All-Round Light



- 2 NM visibility
- White translucent plastic globe on a black polymer base
- H: 3-7/8" x Base: 1" x 2-5/8"
- 12V

PER 170-SWB-DP1

Parts:

SPE 1004	Bulb: 12.8V-.94 A
PER 201-DP-WHT	Lens

Perko All-Round Lights



455-DP2

- 2 NM visibility
- Clear fresnel globe
- Fixed mount, black polymer base
- Base Dia: 2-1/16"
- 12V

PER 455-DP1-CHR	Height: 4-1/2"
PER 455-DP2-CHR	Height: 11"

Parts:

SPE 90	Bulb: 13V-.58 A
PER 248-DP-CLR	Globe

Perko All-Round Fold-Down Lights



1637

1634

- 2 NM visibility
- Reduced glare design features clear fluted globe
- Horizontal mount fold-down adjustable angle
- Polymer base
- 3/4" anodized aluminum tubing
- H: 13-3/8"
- 12V

Horizontal Mount

PER 1634-DP-CHR	Base: 2" x 1-1/2"

Vertical Mount

PER 1637-DP-CHR	Base: 2-1/4" x 5/8"

Parts:

PER 239-DP-BLK	Lens assembly
PER 338-DP2-CLR	Bulbs: 12V-9W, 2/pkg
PER 1052-DP-CHR	Bracket (1634)

Perko All-Round Fold-Down Pole Lights

- 2 NM visibility
- Chrome plated top and base with 3/4" anodized aluminum tube
- Fold down windshield mount
- H: 13-1/2"
- 12V


1134

1137

Horizontal Mount

PER 1134-DP-CHR Base: 2" x 1-1/2"

Vertical Mount

PER 1137-DP-CHR Base: 2-1/4" x 5/8"

Parts:

SPE 90 Bulb: 13V-.58 A
PER 201-DP-WHT Globe
PER 1054-DP-CHR Bracket with knob and end plug
PER 1144-A00-BLK Knob (old style)

Perko LED STEALTH All-Round Removable Lights





- 2 NM visibility
- LED lighting provides long life, low power drain, vibration resistance, and low operating temperature
- Reduced glare globe preserves night vision
- Wide 40° adjustable head allows proper horizontal alignment
- Fits a variety of 2-pin bases
- Black polymer top with clear fluted lens
- 3/4" diameter anodized aluminum tube
- 2 collars - threaded and locking
- 2 screw positions
- Gold plated contacts
- 12V

PER 1347-DP2-CHR 24"
PER 1347-DP4-CHR 36"

Perko All-Round DELTA Universal Removable Lights



- 2 NM visibility
- Stow-A-Way plug-in type white all-round light with polymer top and 3/4" anodized tubing
- Two globes, a reduced glare globe for preserving night vision and a full output globe for cockpit illumination
- Universal fit threaded & locking collars; pole has two key slot positions for maximum base compatibility
- Universal angle tilting head provides a 40° (+/-20°) angle to match most popular base angles
- 12V



PER 1470-DP4-CHR 36" straight
PER 1470-DP5-CHR 42" straight
PER 1470-DP6-CHR 48" straight
PER 1451-DP6-CHR 48" folding
PER 1451-DP8-CHR 60" folding

Parts:

PER 338-DP2-CLR Bulbs: 12V-9W, 2/pkg
PER 239-DP-BLK Spare lens assembly

Perko All-Round Removable Lights



- 2 NM visibility
- Replacement reduced glare white all-round lights fit 1059 and 1060 vertical series bases
- 3/4" anodized aluminum with locking collar
- 12V

PER 1440-DP2-CHR 24" pole light
PER 1440-DP3-CHR 30" pole light

Parts:

PER 338-DP2-CLR Bulbs: 12V-9W, 2/pkg
PER 238-DP-BLK Lens assembly

► *Also See* Mounting Bases pg 01-015

Perko All-Round "Reduced Glare" Removable Lights



- 3 NM visibility
- Clear fluted lens and black polymer top
- Locking collar (base not included)
- 3/4" anodized tubing
- 12V

PER 1445-DP4-CHR 36" pole locking
PER 1445-DP5-CHR 42" pole locking
PER 1445-DP6-CHR 48" pole locking

Parts:

PER 338-DP2-CLR Bulbs: 12V-9W, 2/pkg
PER 238-DP-BLK Lens assembly

Perko All-Round Universal Removable Lights



- 2 NM visibility
- Designed to fit plug-in style bases
- Polymer top and 3/4" anodized aluminum pole
- 12V

PER 1400-DP2-CHR Length 24"
PER 1400-DP4-CHR Length 36"
PER 1400-DP6-CHR Length 48"

Parts:

SPE 1004 Bulb: 12.8V-.94 A
PER 201-DP-WHT Spare globe

Perko All-Round Removable Light



- 2 NM visibility
- Stow-A-Way plug-in type white all-round light
- Chrome plated brass top, and 3/4" anodized aluminum tubing
- Vertical height: 21-7/8"
- 12V

PER 1209-DP2-99A

Parts:

SPE 90 Bulb: 13V-.58 A
PER 248-DP-CLR Clear fresnel globe

Perko All-Round Stow-A-Way Light



- 2 NM visibility
- Removable light with a clear fresnel globe and a black polymer top
- Chrome plated zinc alloy base with waterproof cover included (use #8 screws)
- 3/4" diameter anodized aluminum pole w/locking collar, 16° rake
- L: 20-1/16" x Base: 3-3/4" x 1-5/8"
- 12V

PER 1330-DP2-CHR

Parts:

SPE 90	Bulb: 13V-.58 A
PER 248-DP-CLR	Globe
PER 1059-P00-DP	Plug-in base (16° Rake)

Perko Combination Masthead & All-Round Light



Comes with stow-a-way plug in type base, polymer adapters for flat or V type 45º wind shields and a chrome plated zinc mounting bracket.

- 3 NM visibility
- Tubing is 3/4" anodized aluminum
- Height 22"
- 12V

PER 1124-DP2-CHR

Parts:



1124-DP-99A

PER 71-DP0-CLR	Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT	Lens, 2/pkg
PER 125-DP-BLK	Spare cap for base
PER 1124-DP-99A	Base & socket assembly only
PER 1158-DP-BLK	Lens cap & screw

Perko Combination Masthead LED and All-Round Fold-Down Light



- 3 NM visibility
- Folds down 90° in either direction along the plane of attachment plate of the mount
- Two light compartments (Masthead/Anchor)
- Black polymer top and base with chrome plated zinc alloy insert
- 3/4" anodized aluminum tube
- H: 13-3/8"
- 12V

PER 1684-DP0-CHR Ver. mount, base 2-1/4" x 5/8"

Perko Combination Masthead and All-Round Fold-Down Lights



1184

- 3 NM visibility
- Fold-down windshield mount
- Black polymer and chrome plated tops
- 3/4" anodized aluminum tube
- H: 12-5/8"
- 12V

PER 1181-DP-CHR	Hor. mount, base 2" x 1-1/2"
PER 1184-DP-CHR	Ver. mount, base 2-1/4" x 5/8"

Parts:

PER 71-DP0-CLR	Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT	Lens, 2/pkg
PER 1052-DP-CHR	Bracket w/knob & end plug for 1181
PER 1054-DP-CHR	Bracket w/knob & end plug for 1184
PER 1144-A00-BLK	Knob
PER 1158-DP-BLK	Spare top cap with screw

Perko Combination Masthead & All-Round Light



- 3 NM visibility
- Tubing is 3/4" anodized aluminum
- 12V

PER 1197-DP-CHR

Parts:

PER 71-DP0-CLR	Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT	Lens, 2/pkg
PER 1158-DP-BLK	Lens cap & screw

Perko Combination Masthead & All-Round Light



- 3 NM visibility
- Black polymer and chrome plated zinc top with black polymer base
- H: 3-1/4" x Base: 1" x 2-5/8"
- 12V

PER 1183-DP-CHR

Parts:

PER 71-DP0-CLR	Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT	Lens, 2/pkg
PER 1158-DP-BLK	Lens cap & screw

Perko Combination Masthead & All-Round Lights



1196-DP1

- 3 NM visibility
- Tubing is 3/4" anodized aluminum
- Base: 1" x 2-5/8"
- 12V

PER 1196-DP1-CHR	Height 5-1/16"
PER 1196-DP2-CHR	Height 11-1/4"

Parts:

PER 71-DP0-CLR	Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT	Lens, 2/pkg
PER 1158-DP-BLK	Lens cap & screw

Perko Removable Bi-Colour Pole Light



- 1 NM visibility
- Locking collar
- Black polymer top
- 3/4" diameter anodized aluminum tube
- Uses a 2-pin mounting base (not included)
- Pole length: 12"
- 12V

PER 1612-DP2-BLK **

Parts:

PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
PER 283-DPA-LNS Spare lenses, pair

** While Stock Lasts

Perko Tri-Colour Navigation Light



- 1 NM visibility
- Black polymer and chrome plated zinc top with black polymer base
- H: 3-1/4" x Base: 1" x 2-5/8"
- 12V

PER 1201-DP-BLK **

Parts:

PER 71-DP0-CLR Bulbs: 12V-10W, 2/pkg
PER 278-DP-WHT White lenses, 2/pkg
PER 1158-DP-BLK Lens cap & screw

Note Not for new construction-Replacement ONLY

** While Stock Lasts

Sea-Dog LED All-Round Fold-Down Lights



- 2 NM visibility
- Injection molded nylon/chrome plated zinc
- 12V

SED 400012-1 9"
SED 400013-1 24"

Sea-Dog LED All-Round Telescoping Light



- 2 NM visibility
- Injection molded nylon
- Chrome plated zinc
- 12V

SED 400016-1 24" - 48"

Sea-Dog LED Removable All Around Light



- 2 NM visibility
- Injection molded nylon and aluminum
- 12V
- Overall Height 24-5/8"

SED 400015-1 Light complete

Sea-Dog LED All-Round Light



- 2 NM visibility
- LED fold down all around pontoon light
- Injection molded polycarbonate
- Height: 9" x Base: 3-3/8" x 1-1/4"
- 12V

SED 400023-1

Sea-Dog LED All-Round Light



- 2 NM visibility
- Fixed mount
- Injection molded nylon/chrome plated zinc
- Height: 4" x Base: 2-15/16"
- 12V

SED 400010-1

Sea-Dog LED All-Round Light



- 2 NM visibility
- LED 360° all around light
- Injection molded polycarbonate
- Height: 4-5/16" x Base: 2-1/4" x 1-1/8"
- 12V

SED 400042-1

Sea-Dog LED Masthead Light



- 2 NM visibility
- LED 225°
- Constructed of injection molded polycarbonate
- H: 4-5/16" x W: 2-1/4"
- 12V

SED 400022-1 **

** While Stock Lasts

Seaview LED Fixed Pole Lights

NEW



- 3 NM LED visibility
- Combination masthead all-round light
- 12" or 24" fixed mount posts to clear any obstructions
- Posts are made of powder coated aluminum, available in white or black
- 1-1/4" diameter pole with 2-3/4" round base

SVW SVLTP12LEDBLK 12" pole, Black
SVW SVLTP24LEDBLK 24" pole, Black
SVW SVLTP12LEDC5 12" pole, White, ABYC C5 compliant
SVW SVLTP24LEDC5 24" pole, White, ABYC C5 compliant

Attwood LightArmor Plug-In Light Base



- Threaded locking collar system for a secure fit
- Unique cover design stays secure while underway or trailered
- Low-profile prevents water pooling on surface
- 2-3/8" diameter, when closed, 3/8" high
- Drain hole in inner socket
- 2-pin contact sockets
- 0° rake
- 12V

ATT 910R2PSB-1 Bulk
ATT 910R2PSB-7 Packaged with threaded locking collar

Attwood Plug-In Light Base



- Die cast Zamak with perma-plate chrome finish
- Keyed socket with 2-pin connectors
- 7-1/2" wire leads
- 12°rake
- L: 4" x W: 1-5/8"
- 12V

ATT 911339-7

Attwood Vertical Pole Mount



- Can be mounted on flat windshield frame, and includes a "V" adapter for mounting on angled windshield frames
- Can also be used as a transom mount in open utility boat
- Black plastic with hinged lid
- Includes 7-1/2" hard wire leads
- Works with 5091, 5100, 5300, and 5570 series pole lights
- 45° rake
- 12V

ATT 911490-1 4-1/4" x 1-1/2" x 1-1/8"

Attwood Replacement Lens



Replacement lens for early 4900, 5400, 5401 series lights.

ATT 5424-71-1 **
** While Stock Lasts

Perko Pole Light Base



- For Perko Stow-A-Way pole lights with locking collar on pole
- Black polymer and chrome plated brass or polished stainless steel construction with waterproof snap-on cover
- 2 pin base
- Diameter: 2-1/4"
- 0° rake
- 12V

PER 1045-P0S-DP Polished stainless steel

Perko Plug-in Light Base



- Black polymer and chrome plated zinc alloy construction with black polymer insert
- 2 contact base fits Perko 1343, 1348, 1400, 1445, 1451, 1455, 1456, 1465, 1470 lights
- Waterproof snap-on cover
- L: 3-3/4" x W: 1-3/4"
- 5° rake
- 12V

PER 1060-PB0-DP

Perko Pole Light Base



- For Perko Stow-A-Way pole lights with locking collar on pole
- Black polymer and chrome plated brass construction with waterproof snap-on cover
- 2 pin base
- 3-1/2" x 2"
- 5° Rake
- 12V

PER 1048-P00-DP

Perko Plug-in Type Socket

- Waterproof plug in type
- Fits Perko 1209 series all-round lights
- Includes reainer & cover
- 16° rake



PER 1125-DP-99A

Perko Telescoping Light Bases

- Locking collar is included with base to allow interchangeability with discontinued style bases
- Fits 1311 and 1611 series lights
- Replaces 1156-000-CHR and 1026-T00-CHR
- L: 3-3/4" x W: 1-5/8"
- 16° rake
- 12V



1059-T00-DP

Base with Locking Collar Only

PER 1059-T00-DP

Complete Unit



1059-P00-DP

- Includes 2-pin plug with wire leads and waterproof snap-on cover
- Fits Perko lights 1343, 1348, 1451, & 1470
- 16° rake
- 12V

PER 1059-P00-DP Complete

Perko Base & Socket Assembly



- Plug-in type
- Waterproof screw on cap with polymer adapters for "V" or flat mount style lights
- 3/4" x 2-1/4"
- 45° rake
- 12V

PER 1124-DP-99A

Attwood LED
Clamp-On Portable Light Kit



Kit includes: Red/Green LED bow light, White LED stern light, quick-release mounts, pole, hardware

- C-clamp mounting permits fast addition or removal as needed
- Sealed electronics in a shock-proof housing and shatter-proof polycarbonate lens
- Over 150 hours of run time on 3 AAA batteries (not included)
- 11" x 9" x 2"

ATT 14190-7

Lunasea LED
Portable Navigation Lights



- 2 NM visibility
- Portable light designed for rugged marine use and harsh outdoor conditions
- Waterproof and floats if dropped in water
- 1800 maH Lithium polymer rechargeable battery
- Includes magnetic charge cable to USB
- Compatible with NaviMount, Railblaza, and Go-Pro mounts
- Certified ABYC A-16
- Dia: 2.8" x H: 3.4" (with mount)



All White Light

- 4 modes: Anchor, stern, running, and flash

LUN LLB-72BA-UB-00 without mount
LUN LLB-72BA-UB-01 with Railblaza QuickPort

Tri-Colour Light



- 6 modes: Tri-colour, bi-colour, red, green, stern, and flash

LUN LLB-72BK-UB-00 without mount
LUN LLB-72BK-UB-01 with Railblaza QuickPort

Railblaza LED
Kayak Visibility Kit II



- 2 NM visibility
- Portable all-round white LED navigation light
- Everything in one kit for day and night visibility in your kayak or canoe
- TelePole can also be used to carry a GoPro camera or similar during daylight hours
- Meets USCG 2NM 33 CFR 183.810 & ABYC A-16

Kit includes:

- 1 metre, 3 piece Extenda Pole
  - 1 section height 380mm (15")
  - 2 sections height 680mm (27")
  - 3 sections height 980mm (38.5")
- Orange flouro flag
- RAILBLAZA Illuminate i360 all-round white navigation light
- StarPort HD mount
- Fasteners
- Velcro strap for storage of Extenda Pole

(3x AA batteries not included)

RBZ 04-4084-11

► *Also See* Railblaza Mounts pg 17-019 to 020

ACR LED RCL-85 LED Searchlights



- Sleek design makes for an attractive, cost effective choise for small to medium sized recreational powerboats and light commercial vessels
- Strobe function for assistance
- Electronics located in IP68 water-resistant light head
- ASA housing and lenses sealed against elements for trouble free operation
- 6 high flux (30W) LEDs (OSRAM)
- 240,000 Candela
- Max beam distance 3,215 Feet (980 m)
- Wireless handheld remote included (sync up to 4 remotes)
- 350 degree rotation and 90 degree tilt
- Efficient, long life LEDs - 50,000 operating hours
- UV & Weather resistant
- Simple installation (12 or 24 VDC power connection only)
- Size: 5.5" x 6.3" x 7.7"
- Weight: 3.1 lbs
- 12/24V





ACR 1956	White
ACR 1957	Black

Accessories:

ACR 9635	Wireless remote

ACR LED RCL-95 LED Searchlights



- RCL-95 LED searchlight with wired dash mount joystick control or wireless handheld remote
- Rotate light 360° continuously at fast or low speed without a hard stop
- Auto-home feature will park the searchlight back at the starting location
- Electronics located in the IP68 water-resistant light head
- ASA housing and lens are sealed against the elements for trouble free operation
- 10 high flux LEDs (OSRAM)
- 460,000 Candela
- Max beam distance 4,501 Feet (1,372 m)
- Wireless handheld remote and wired dash mount Joystick (16.4' cable) included (sync up to 4 remotes)
- 360 degree rotation and 135 degree tilt
- Efficient, long life LEDs - 50,000 operating hours
- UV & Weather resistant
- Simple Installation (12-24V power connection and 5M wired joystick control cable)
- Size overall: 5.9" x 7.1" x 7.5", base footprint: 6.06" x 6.06"
- Weight: 4.2 lbs
- 12/24V







ACR 1958	White
ACR 1959	Black

Accessories:

ACR 9635	Wireless remote
ACR 9638	Extension cable, 5m

ACR Replacement Bulbs



ACR 6001	12V 55W bulb (RCL100)
ACR 6002	12V 55W bulb (RCL50)
ACR 6003	24V 55W bulb (RCL100)

NEW

ACR LED RCL-100 LED Searchlight



- 220,000 candela
- With efficient LEDs power consumption demand is reduced up to 50% on 12V vessels
- Ultra bright, 9 LED array
- Efficient, long life LEDs - 40,000 operating hours
- Internal elevation mechanism for precise pitch control of beam; protects elevation mechanism from weather
- Triple-primed and sealed, marine grade aluminum housing
- Includes Master Controller and Wired Point Pad Controller
- Controller has state-of-the-art electronics to protect light from most power surges
- Fingertip remote control Point Pad allows up to three remote Point Pad units to be installed on system; surface/flush mount options included
- Exclusive XRCiZ feature rotates and moves light assembly every 30 days from activation to keep all bearing surfaces free of corrosion and all electrical contacts functional
- Beam Angle 7° vertical, 7° horizontal
- Elevation Angle 9° up, 17° down
- Rotation 360° continuous
- Wiring harness of 15 feet
- Two speed motor
- Size: 8" x 9" x 8"
- Weight: 7.2 lbs
- 12/24V

Optional URH-103



ACR 1978	With upgraded URP-103 Point Pad and wired URC-104 Master Controller

Accessories:

ACR 1967	URH-103 handheld wireless remote

ACR Point Pad Universal Remote Controls



- Options for a primary controller installation or to add a second remote
- Includes easy to use Point-Pad™ controller
- Compatible with RCL-50, RC-100 and RCL-300 spotlights (including 24V versions)
- Harness adaptor allows existing harness to be split
- Includes 15' RG-59 coax cable with F-connectors to assemble new harness for additional controller
- Surface mount: 3.75" x 2.87" x 1.23"
- Flush mount" 4.25" x 3.32" x .4"
- 12/24V
- Backwards compatable with all RCL-100/50 searchlights and with the URC-101 master controller

Second Station Install Kit

Point pad with surface mount case (URC-102), mounting hardware & 17' cable

ACR 9282.3

Remote Control Install Kit

Point pad with surface mount case (URC-102), master control (URC-102), connector "in-line", mounting hardware & 17' cable

ACR 9283.3

Golight RadioRay LED GT Series Remote Control Searchlight



- Updated exterior housing design
- Higher torque drivetrain and more precise pan / tilt control
- 544,000 candlepower peak beam intensity
- Hardwired dashmount remote (20' harness)
- 370° rotation x 135° tilt
- Permanent mount
- Increased ingress protection from dust / water (IP56)
- U.V. and salt water resistant
- 3.7A @ 13.8V
- Plano-convex lens technology
- Cast aluminum heat sync
- 3-Year limited warranty
- H: 7.5" x W: 7.25" x D: 6.75"
- 12V, 40W

GLT 20204GT White

Parts:

GLT GT-2020-D Remote (4" x 2")

Golight GT Series Permanent Mount Remote Searchlights



- Updated exterior housing design
- Higher torque drivetrain and more precise pan / tilt control
- CR5 Pentabeam technology
- 225,000 candlepower, 60% more usable light
- Reaches distances to 3,113 feet
- Powerful 65W bulb with concentrated beam reflector casts broad spectrum pattern
- 370 degrees horizontal rotation and 120 degrees vertical elevation/depression
- Mounting hardware included
- Three year limited warranty
- Mounting plate: 7.3" x 7.3"
- H: 7.5" x W: 7.25" x D: 6.75"
- 12V, 5.5 A

Wireless Handheld Remote

- Remote allows for operation up to 100 feet

GLT 2000GT

Parts & Accessories:



30200

GLT 30100 Remote, wireless handheld
GLT 30200 Remote, wireless dash mount
GLT 49000 H-9 Replacement bulb

Hardwired Dashmount Remote



- Wiring harness

GLT 2020GT

Parts:

GLT GT-2020-D Remote (4" x 2")
GLT 49000 H-9 Replacement bulb

Jabsco Extension Harness (Electronic Controls)



These wiring harnesses allow for electronic remote control installations where cable lengths are greater than those supplied with the light.

- For models 155SL (-1224 Only), 233SL and all 6" (150) Chrome RC

JAB 64042-1007 ** 15'

** While Stock Lasts

Marinco Wireless Remote Spotlights



- Bright 100 watt, H3 halogen bulb
- Uniform 132 sq. ft. coverage with 370° rotation and 120° tilt (+75° and -45° from horizon)
- One-touch automatic sweep
- One-touch S.O.S.
- Durable, UV resistant, IP56 weatherproof housing
- Universal snap-in mounting system
- Wireless control with glow in the dark buttons (wireless bridge remote SPRL-2 included)
- Coverage at 66': 132 sq. ft.
- W: 7.5" x H: 7.5" x D: 9.25
- Weight: 3.3 lbs
- 12/24V



Chrome

MAR SPL-12W White
MAR SPL-12C Chrome

Parts:

MAR SPLR-2 Wireless bridge remote (3.5" x 2.25" x .75")
MAR 202319 12V, 100 watt H3 halogen bulb

Marinco LED Searchlight



- Approx. 3x concentrated spot diameter while drawing roughly 1/2 the power of comparable halogen spotlights
- Wireless communication using mounted bridge or hand held remote
- 12 LED array, 2700 lumens output (92,000 CD)
- IP67 stainless steel housing and base
- Wireless remote communication
- 350° horizontal, 60° vertical two speed movement
- 12V

MAR 23050A With mounted remote
MAR 23051A Spotlight only

Perko 314 Series Searchlight



- Chrome plated brass head with chrome plated bronze base
- 12V, 7" sealed beam units
- Lever action, pilot house control
- 380° horizontal movement, 70° vertical movement
- For ceiling thickness of up to 5"
- Lever handle controls both horizontal and vertical movement
- 12V

Part #	Head Dia.	L	Range Miles	CP	Watts
PER 314-C07-12V	7"	24"	5/8	250,000	100

Hella LED Interior/Exterior Light



- UV resistant, enhanced impact acrylic lens
- Colour Temperature: 5000K (Cool White)
- Pre-wired with 50 cm of twin core marine cable
- 0.20 A draw @12V
- Protection: IP 67 - Completely sealed
- Weight: 115g (including cable)
- Surface mount with robust bush mount
- Approvals: CE
- 5.5" x 2.56" x 1.25"
- 12/24V

HLA 959-700-101

ITC Radiance Ceiling Halogen Light



- Soft and powerful glow from the entire glass lens surface
- Locking stainless steel clips on housing
- Cool operating temperature
- Frosted, slightly convex lens
- Twist lock glass installation
- No fasteners required for installation
- Bulb included
- 3.375" cutout
- 12V, 20W

ITC 81232

Parts:

ANC 529362 12V, 10W bulb

ITC LED Ceiling Light



- 1" profile, surface mount, switched fixture
- Trim ring & reflector provide overall glow
- Brushed nickel finish
- Colour control technology - colour differences between fixtures are guaranteed to be undetectable to the human eye
- FCC compliant
- 150 Lumens, 3150K
- Diameter: 2.875" (Switch: 0.5")
- 12V, 2.2 watts, 0.16 amps

ITC 69295-NI-3K

ITC LED Decor Overhead Light



- Warm white LEDs
- Frosted glass lens
- 120 lumens
- Cutout: 2.25" x Dia: 2.75"
- 12V, 2.5 watts, 0.21 amps

ITC 69929B-CH3KE/F Chrome

ITC LED Round Ceiling Light



- 6 cool white LEDs
- Watertight and ignition protected
- Surface mount
- Pillow optic lens prevents glare
- 60 lumens
- Dia: 3" x Cutout: 2"
- 12V, 1.5 watts, 0.09 amps

ITC 69662-W White

Lunasea LED Interior/Exterior Surface Puck Light



- 400 lumens, warm white light
- IP65 rating
- 2.4" x .6"
- 12/24V, 5W

LUN LLB-33VW-81-OT

Perko Surface Mount Dome Lights



- Chrome plated zinc
- Push-button switch
- Double contact bayonet socket
- 12V

Part #	Diameter	Depth	Spare Bulb
PER 300-DP0-CHR	3-3/4"	1-1/2"	SPE 90
PER 300-DP2-CHR	6"	2"	SPE 1142

Perko Exterior Dome Light



Ivory "Perko-Kote" powder coating with black vinyl mounting gasket

- Water resistant push button switch
- 15 CP bulb
- Lens OD 4", base OD 5", overall depth 1-7/8"
- 12V

PER 1253-DP1-WHT

Parts:

SPE 1004 Bulb: 12V-10W

Lunasea LED Reccessed Ceiling Lights



LLB-56WW-2A-SS



LLB-56WW-2A-WH

- Soft light output created by COB LED technology (120 degree viewing)
- 2700K warm white with 80+ CRI
- 430 lumen, 5W
- Easy spring clip mount
- Eplex and digitally dimmable electronics
- Light is swivel capable for beam adjustment
- Dia: 3.5" x Cutout: 2.8" x D: 2"
- 10 - 40V

LUN LLB-56WW-2A-SS Polished Stainless
LUN LLB-56WW-2A-BN Brushed Nickel
LUN LLB-56WW-2A-WH White

Lunasea LED Recessed Ceiling Light



- 3.4" bezel with swivel lens
- Built-in touch dimming
- Warm white
- 12/24V

LUN LLB-62TW-82-CH Polished Chrome

Lunasea LED Recessed Ceiling Lights



- 3.5" bezel
- Digitally dimmable
- 375 lumen, 2700K COB LED with no hotspots
- Two or three wire configurations, simply reverse polarity to switch between colours or hi/lo
- IP65 rating
- 2.5" cut out, shallow .55" mounting depth
- 10 - 40V

- White (4.5 watt)/Red (1 watt) switched

LUN LLB-46WR-3A-SS	Polished Stainless

- White 4.5 watts

LUN LLB-46WW-3A-SS	Polished Stainless
LUN LLB-46WW-3A-BN	Brushed Nickel
LUN LLB-46WW-3A-WH	White

Lunasea LED Dome Lights



LLB-10WR-2A-CR

- 5.5" or 6-3/4" diameters
- Brushed nickel or chrome finish
- High/low or white/red light switch
- 375 lumen, 2700K COB LED with no hotspots
- 120 degree viewing angle
- 10 - 40VDC

- White (3.75 watt)/Red (1 watt) switched

LUN LLB-10WR-2A-BN	5.5" Nickel, Warm White/Red
LUN LLB-10WR-2A-CR	5.5" Chrome, Warm White/Red
LUN LLB-07WR-2A-BN	6-3/4" Nickel, Warm White/Red
LUN LLB-07WR-2A-CR	6-3/4" Chrome, Warm White/Red

- High (6 watt)/low (3 watt) switched

LUN LLB-10WW-2A-BN	5.5" Nickel, Warm White, high/low
LUN LLB-10WW-2A-CR	5.5" Chrome, Warm White, high/low
LUN LLB-07WW-2A-BN	6-3/4" Nickel, Warm White, high/low
LUN LLB-07WW-2A-CR	6-3/4" Chrome, Warm White, high/low

Lunasea LED Cabin Wall Light



- Built-in touch dimming switch
- Also produces a soothing blue glow - simply touch switch and hold until desired lighting
- 4.5 watt wall fixtures put out the light
- Polished aluminum with a clear acrylic face
- 4" diameter x .5 high
- Warm white
- 12V

LUN LLB-33AW-81-OT

Lunasea LED Cabin Wall Lights



- Built-in touch dimming switch
- Also produces a soothing blue glow - simply touch switch and hold until desired lighting
- Polished aluminum with a clear acrylic face
- Warm white
- 12V

LUN LLB-33BW-81-OT	3W, 4" x 3.5"
LUN LLB-33CW-81-OT	6W, 7.75" x 3.5"

Lunasea Wall Mount Light LED



- Built-in touch dimming
- Warm white
- 12/24V, 6W
- L: 8.66" x W: 4.33" x D: .55"

LUN LLB-33DW-81-00

Lunasea LED Indoor/Outdoor Lights



- Low 5mm bezel, 15 mm depth design
- Soft 2800K warm white, 244 Lumen, >85 CRI
- Frosted lens
- Viewing angle: 120 degrees
- IP65 Indoor/Outdoor
- Two screw mounting or stainless spring slips
- Diameter: 2.8" round
- Width: 2.83" square
- 12/24V



LUN LLB-62WW-81-WH	Round, White
LUN LLB-62WW-81-SS	Round, Polished S/S
LUN LLB-62WW-81-WQ	Square, White

Lunasea LED Indoor/Outdoor RGB + WW Lights

- Newest generation LED RGBW lights
- Full colour mixing with high power Red, Green and Blue LEDs (Colour mixing requires RGBW receiver LLB-45WR-91-00)
- IP65 Indoor/Outdoor
- Output White: 480 Lumen, 2700K, >80CRI



Output RGB:
- Blue: 33 Lumen, 475NM
- Green: 99 Lumen, 530NM
- Red: 31 Lumen, 630NM

- Base: Hard anodized aluminum
- Diameter: 3.45" x Depth: .9"
- 12/24V

LUN LLB-46RG-3A-BN	Brushed stainless trim
LUN LLB-46RG-3A-SS	Polished stainless trim

► *Also See* Receiver pg 01-028

Lunasea LED Wall Mount Controllers



Designed to control the Lunasea LED RGBWW recessed lights (LLB-46RG-3A-xx series). Full colour mixing offers over 1 million colours. Allows for control of each colour individually or combined for easy dimming. Controls a single zone.

- Transmitting range of 20 meters
- Reliable touch for colour change and dimming
- Each remote can be set to many receivers
- Available with a Black or White faceplate
- 86 x 86 x 1.94
- Use with the RF Full Colour Mixing RGBW Receiver LLB-45WR-91-00, which will drive up to 12 fixtures
- 3.38" x 3.38" x .76"
- 12/24V

LUN LLB-45WB-91-00	Black
LUN LLB-45WW-91-00	White

Lunasea LED Wireless RF Remote Dimmer



- Controls the newest gen Lunasea LED RGBWW recessed lights (LLB-46RG-3A-xx)
- Full colour mixing for over 1 million colours
- Control each colour individually, or combined for easy dimming
- Controls up to four zones, with a range of 20 meters
- Use with the RF Full Colour Mixing RGBW Receiver LLB-45WR-91-00, which will drive up to 12 fixtures
- Uses AAA batteries (not included)

LUN LLB-45WG-01-00

Lunasea LED Zero EMI Indoor/Outdoor Lights



- Zero AIS & VHF Interference
- 600 Lumen, 2700K Warm White, >85CRI
- IP65 Indoor/Outdoor
- Digitally dimmable designed into the electronics means you will not need special circuitry
- Three screw mounting compatible with the most popular models
- Frosted lens
- Diameter: 3.45", Cutout: 2.5"
- 12V, 4W

LUN LLB-46WW-0A-BN Brushed stainless trim
LUN LLB-46WW-0A-SS ** Polished stainless trim
** While Stock Lasts

Scandvik LED Dome Light



- 51 x 0.5 watt LEDs
- Natural white (4500K)
- 720 effective lumens
- Plastic housing with high impact plastic lens
- Surface mount, screws included
- Three stage dimming touch switch
- Switch glows Blue
- IP67
- Dia: 5-1/8" x H: 3/4"
- 12/24 V

SCA 41323P

Scandvik LED Dome Light



- 42 x 0.5 watt LEDs
- Natural white (4500K)
- 680 effective lumens
- Plastic housing with high impact plastic lens
- Surface mount, screws included
- Three stage dimming touch switch
- Switch glows blue
- IP67
- L: 7-5/16" x W: 2-9/16" x H: 3/4"
- 12/24 V

SCA 41322P

Sea-Dog LED Teardrop Light



- Touch controlled, blue accented, on/dim/off switch
- 9 LED, warm white (3000K)
- 200 lumens at 3W
- Plastic housing
- Uses #6 RH fasteners
- L: 4" x W: 3-1/2" x D: 9/16"
- 12/24 VDC

SED 401817-3

Sea-Dog LED Ceiling Lights



- Plastic construction
- Integral switch
- 0.068 A draw
- Very low heat emission
- Vibration resistant
- 18 white LEDs
- Use #8 RH fasteners
- Diameter: 5-3/4" x H: 1-5/8"
- 12V

SED 401725-1 Chromed plastic
SED 401727-1 White plastic

Sea-Dog LED Ceiling Light



- 304 stainless construction
- Illuminates with a soft white light
- Spring mounted
- Diameter: 6"
- Cutout: 4-1/2" x D: 1-7/16"
- 12V, 5W

SED 404200-1 **
** While Stock Lasts

Sea-Dog LED Dome Light

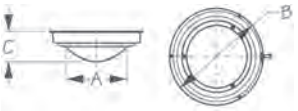




- Stamped stainless body with a glass lens
- Built-in switch
- 12V

Part #	A	B	C	Fastener
SED 400193-1	4"	5-1/2"	2"	#4 RH

Sea-Dog Dome Lights





- Polished stainless steel
- Glass dome
- Built-in switch
- Double contact bayonet base
- 21 CP bulb
- 12V

Part #	A	B	C	Fastener
SED 400190-1	4"	5-1/2"	2"	#4 RH
SED 400200-1	5"	6-3/4"	2-1/8"	#6 RH

Parts:

SPE 1142 Bulb: 12.8V-1.44 A
SED 400191-1 ** 4" Lens
SED 400201-1 5" Lens
** While Stock Lasts

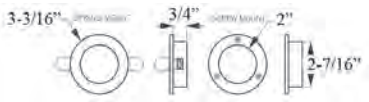


Sea-Dog LED Small Ceiling Lights



- 304 Stamped stainless steel or gold titanium plated with a clear lens
- Excellent light dispersion and brightness
- Recessed, spring mounted
- 12V

SED 404230-3 Stainless steel
Parts:
SED 442944-1 Bulb: 14 LED 12V, .7 watt



Sea-Dog LED Medium Ceiling Light



- 304 Stamped stainless stee
- Excellent light dispersion and brightness
- Clear lens
- Recessed, spring mounted
- 12V

SED 404330-3
Parts:
SED 442944-1 Bulb: 14 LED 12V, .7 watt

Sea-Dog Task Light LED



- 304 stainless steel construction
- Integral touch controlled on/dim/off operation, activated by pressing the center button
- Memory function turns the light back on at the same brightness level as when it was turned off
- CE approved
- 24 warm white LEDs @ 0.19A/145 lumens
- IP65 rating
- Use #6 FH fasteners
- Dia: 2-3/4" x D: 5/16"
- 12/24V

SED 401686-1

Sea-Dog Task Light LED



- Low profile task light has 6 LEDs
- Nickel plated stainless steel
- 100 lumens - Less than 0.2 A
- No switch
- IP67 rating
- Use #6 FH fasteners
- 2-9/16" diameter, 9/32" deep
- 12/24V

SED 401665-1

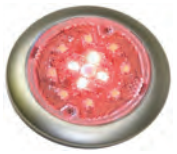
Sea-Dog Task Lights LED



- Built-in on/off switch, just press on center of lens
- Nickel plated stainless steel
- IP65 rating
- 9/32" deep
- Use #6 FH fasteners
- 12/24V

SED 401666-1 2-9/16" dia, 6 LED, 100 lumens
SED 401676-1 3-3/8" dia, 12 LED, 200 lumens

Sea-Dog LED Low Profile Day/Night Task Light



- Low profile task lights has 12 LEDs
- Built-in on/off switch, just press on center of lens
- Nickel plated 304 stainless steel
- 8 warm white: 0.19A / 135 Lumens
- 4 red: 0.06A / 25 lumens
- IP65 rating
- Use #6 FH fasteners
- Dia: 3-3/8" x D: 9/32"
- 12/24V

SED 401679-1

Sea-Dog LED Mirror Light with Dimmer





- Features white and blue LED lights with a built-in, touch controlled on/dim/off switch
- Touch centre button to switch between settings
- 3000K warm white, 1000 lumens @ 6W
- 24 Osram LEDs
- CE, RoHS compliant
- Includes (4) #6 FH fasteners and white hole plugs
- 7-7/8" x 7-7/8"
- 12/24V

SED 401840-3



Sea-Dog LED Under Cabinet Lights

- Can mount on any cabinet, locker, or other location where lighting is needed
- 3000K warm white LEDs
- Injection molded nylon/aluminum construction
- Includes #8 RH fasteners
- 1” wide x 9/16” depth

SED 400600-3 6-1/2” length, 180 lumen
SED 400603-3 14-1/2” length, 540 lumen
SED 400604-3 22-1/2” length, 900 lumen





Lunasea LED
Adjustable Linear Light Bars w/Dimmer



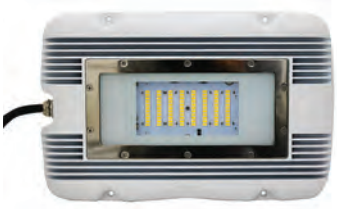
- Only .375" thick x 1.3" wide, allowing for installation in tight areas
- Adjustable direction of light (0°, 45°and 90°)
- Built-in touch switch and easy mounting
- High CRI light for pleasant surroundings
- Linkable to 7 feet
- IP20
- 12V

LUN LLB-32KC-01-00	12", Cool White, 5 watt
LUN LLB-32KW-01-00	12", Warm White, 5 watt
LUN LLB-32LC-01-00	20", Cool White, 8 watt
LUN LLB-32LW-01-00	20", Warm White, 8 watt

Accesssories:

LUN LLB-32KA-OP-00	39" daisy chain link cable

► Also See Lunasea LED Fluorescent Bulb pg 01-049



Lunasea LED
Ignition Proof Engine Room/Utility Light

- Ultra thin build
- Uses only 30 watts
- Cool white, 4,000 lumen
- Rated IP65, ignition proof light
- 24 inch, three wire
- Aluminum hard anodized & bake urethaned white enclosure
- W: 11.2" x H: 7.2" x D: .9"
- 120/240VAC (108-264VAC / 50/60Hz)

LUN LLB-52MN-41-00

Lunasea LED
Ignition Proof Engine Room/Utility Lights



- 15 watt white/6 watt red output
- Can be controlled using a digital dimming switch
- Aluminum anodized & white urethane finished
- Colour temp: White 4000K
- 120° beam angle
- IP65 rating
- H: 5.75" x W: 8.5" x D: .77"
- 10 - 40V

LUN LLB-51WO-91-10	White, 3200 lumens
LUN LLB-51WR-91-10	White, 3200 lumens/Red, 456 lumens

Lunasea LED
Ignition Proof Engine Room/Utility Lights



- Light Output: 1600 Lumen
- Beam Angle: 120 Degree
- Colour Temp: White - 3,000K, 80+CRI
- Environment: IP67
- Enclosure: Aluminum hard anodized & baked urethane
- H: 2.9" x W: 5.1" x D: .59"

LUN LLB-51M1-81-00	White, 10-40V
LUN LLB-51M1-0A-00 *	White, 12V, Zero EMI

* Special Order - may have stock

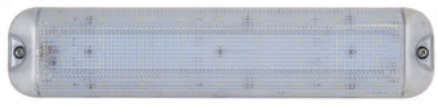
Lunasea LED
Utility Light



- On/Off switch with memory
- Lightweight
- Natural white light
- 432 lumens
- 4 watt
- Flush mount, W: 1.89" x L: 6.5" x H: .94"
- 12/24V

LUN LLB-01WD-81-00

► Also See Balmar Engine Room Light pg 01-036



Scandvik LED
Engine Room Light

- LEDs: 36 (4 rows of 9)
- Lumen: 1,154
- Cool White (5,500K-6,300K)
- Beam Angle: 180 degrees
- Wire can exit from bottom or end of fixture
- Protection: IP65
- Polycarbonate construction
- L: 13" x W: 2-3/4"x D: 1"
- 12V, 13.2 W

SCA 41388P



Scandvik LED
Engine Room Light

- LEDs: 50 (5 rows of 10)
- Lumens: 1,520
- Cool White (5,500K-6,300K)
- Beam Angle: 180 degrees
- Wire can exit from bottom or end of fixture
- Ignition protected certified SAE J1171, USCG, ABYC, and NMMA
- Protection: IP65
- Polycarbonate construction
- L: 13" x W: 2-3/4"x D: 1"
- 12/24V, 18W

SCA 41389P

Scandvik LED
Engine Room Light



- 33 x 0.5 watt LEDs
- Cool white (5700-6300K)
- 727 Lumen
- Polycarbonate lens with plastic housing
- Beam Angle: 120 degrees
- Surface Mount (wire can exit from bottom or end of fixture)
- IP67
- L: 6-3/8" x W: 3-3/4" x D: 5/8"
- 12/24V, 10 W

SCA 41590P

Scandvik LED
Engine Room Light



- Flush or Surface Mount
- 30 watt
- 168 Super-bright 2835 LEDs
- Cool white (6000K)
- 3400 Lumens (similar to 2 x T8 fluorescent's)
- Beam angle 120 degrees
- IP67
- L: 16-5/8" x W: 6" x D: 1-1/2"
- 12/24VDC and/or 110/220 VAC

SCA 41593P

Lunasea LED
Wall Mount Touch Dimming Lights

- Built-in touch dimming switch also produces a soothing blue glow
- Main LED produces warming light that will light your cabin, or dim to read by
- Dim by touching switch & holding to desired lighting
- Brushed nickel
- Swivel head
- Wide spread light
- Hidden mounting
- Warm white
- 3 watt
- 2 wire (Black-/Red+)
- 12/24V



LLB-33EW-81-OT



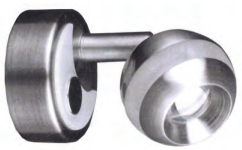
LLB-33JW-81-OT



LLB-33LW-81-OT



LLB-33QW-81-OT



LLB-33RW-81-OT

Part #	Base	Extended Height	Shade L x W
LUN LLB-33EW-81-OT	L: 2-3/4" x W: 1-9/16"	4-7/16"	3-9/16" x 2.7/8"
LUN LLB-33JW-81-OT	2-3/8"	3-15/16"	1-11/16" x 2-1/16"
LUN LLB-33LW-81-OT	2-3/8"	4-3/4"	1-9/16" x 1-3/4"
LUN LLB-33QW-81-OT **	2-3/8"	4-1/16"	1-3/16" x 1-15/16"
LUN LLB-33RW-81-OT	2-3/8"	4"	1-11/16" x 2"
LUN LLB-33SW-81-OT	2-3/8"	3-15/16"	1-5/8" x 2"

** While Stock Lasts



LLB-33SW-81-OT



LLB-33GW-81-OT



LLB-36CW-81-OT

Lunasea LED
Premium Wall Mount Touch Dimming Lights

- Built-in touch dimming switch; touch and hold until you reach desired lighting.
- Swivel head
- Wide spread light
- Hidden mounting
- Warm white
- 3 watt
- 2 wire (Black-/Red+)
- Base Dia: 2.56" x Overall H: 3.98"
- 12/24V

LUN LLB-33GW-81-OT Brass
LUN LLB-33TW-81-OT Brass
LUN LLB-36CW-81-OT Chrome
LUN LLB-36EW-81-OT Chrome



LLB-33TW-81-OT



LLB-36EW-81-OT

Lunasea LED
Elegant Wall Mount Touch Dimming Light

- Built-in touch dimming to reach desired lighting
- 3W wall fixture with warm white light
- Polished chrome finish
- Built-in USB power output
- Base Dia: 2.56" x Overall H: 3.98"
- 12/24V

LUN LLB-33FW-81-OT



ITC LED
Cluster Berth Light

- Warm white LEDs
- High quality convex glass lens
- 0.24A draw
- Base dia: 2.75" x Light dia: 2.25" x D: 4.75"
- 10-14V

ITC 69922B-NI3K/F Brushed nickel



ITC Radiance Incandescent Berth Light



- Radiant light emits from the bezel and cutouts
- Head is directional and both rotates and pivots for flexibility
- All metal housing includes a polished reflector and bee's eye lens for greater light output
- 10W, 0.83A incandescent bulb
- On/Off toggle switch
- Brushed nickel finish
- Base dia: 2-1/2" x L: 3" x D: 3-3/4"
- 12V

ITC 81906-NI-D
Parts:
SPE 906 Bulb: 12V-.69 A

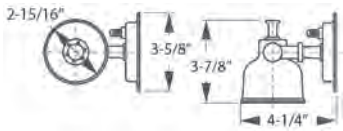
ITC Glass Shaded Night Light Berth Light



- Reading light with an LED night light
- Three way switch - light on, LED on & all off
- Compact size with directional head
- Brass with a brushed nickel finish
- Glass shade
- 1A draw
- Base dia: 3-1/2" x LA dia: 3" x H: 4" x D: 4"
- 12VDC, 12W

ITC 69704-NI/98

Sea-Dog Berth Light





- Solid brass berth light
- Rotary switch
- Uses #6 brass fasteners
- 12V

SED 400400-1
Parts:
SPE 1004 Bulb: 12V-.94 A

Sea-Dog LED Cabin/Reading Light



- LED light with built-in touch controlled on/dim/off switch and USB port
- Provides a direct beam reading light as well as ambient light for the cabin
- Brushed aluminum construction
- Blue accented dimmer switch
- Warm white, 3000K bulb provides 270 lumens at 3W
- USB port: 5V/2A
- Base Dia: 2-1/2" x Overall H: 3-3/8" x D: 4"
- 2x #6 FH fasteners and allen wrench included
- 12/24V

SED 400715-3

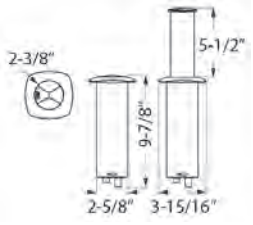
Sea-Dog LED Cabin/Reading Light



- Built-in touch controlled on/dim/off switch
- Provides a direct beam reading light as well as ambient light for the cabin
- Aluminum construction with an adjustable light angle
- Warm white, 3000K Cree bulb, 270 lumens at 2W
- Includes mounting screws and Allen wrench
- Uses # 6 FH screws
- Base Dia: 2-1/2" x Overall H: 3-3/8" x D: 4"
- 12/24V

SED 400710-3





Sea-Dog LED Aurora Pop-Up Table Light



- Investment cast 316 stainless steel/ABS
- A simple twist of the cap allows the light to pop up, ready to use, it's automatically switched on
- Push the cap down, twist to lock, and light disappears into the table or deck
- Can be used with dimmer switch
- 500 lumens
- IP67 waterproof rating
- #10 FH fasteners included
- Bezel: 3-15/16" x H above deck: 5-1/2"
- 12/24V

SED 404610-3 **
** While Stock Lasts

Aqua Signal Halogen "Toronto" Chart Light



- Reading / chart table light adjusts from white to blue for chart reading
- On/off switch
- Spiral cord stretches to 4'
- Comes with two slip-in wall mount brackets
- Housing is shock resistant, noncorrosive, nonmagnetic and seawater resistant
- Overall H: 3.7" x D: 3.5", Base: 2.13" x 1.54"
- 12V, 5W

AQS 15404-7 **
** While Stock Lasts

Hella Chart Lights



- Designed for the navigation station
- Halogen lights with an additional red lens for easy eye adaptation to surroundings
- On/off switch is located in lamp head
- Sturdy, flexible stalk allows light to be pointed in any direction
- 12V, 5W

HLA 004532161 19" stalk length
HLA 004532171 7" stalk length

Hella LED Interior Light



- Suitable for a variety of interior applications including chart and navigation, berth, and reading lighting
- Flexible arm, with integrated dimming via rotary switch built into the head
- Dual colour white or red
- UV and impact resistant plastic with stainless steel arm
- Current draw <0.16A @ 12V
- Head: 4.09" x 1.81" x 1.42", Neck: 15.75"
- 9-31V

HLA 343720622

Lunasea LED Chart Light



- Red (1W) and white 3 (W) light in one
- Built in switch
- Stalk length: 18" x base dia: 2.8" x head dia: 2.2"
- 10-30V

LUN LLB-49WR-21-CR

Lunasea LED Reading Light



- Chrome finish
- 2.25 watts
- 15" flex neck
- Warm white 2700K
- 80° viewing angle
- Built-in dimmer
- 10-30V

LUN LLB-36JW-81-OT

Sea-Dog LED USB Chart Light



- Injection molded nylon/powder coated steel
- Add light anywhere a USB port is present
- 10 bright LEDs and a flexible 7" gooseneck that can rotate 360°
- Three function touch switch provides a full 10 bulb brightness mode as well as a 5 bulb half as bright mode
- Light head is detachable for easy storage
- Light head length: 5-3/4"
- 12V

SED 426560-1

Hella LED Accessory Light



- Slim design
- LED light flush mounted lamp is suitable for reading, steps, or general indoor lighting
- 10 white LEDs in impact resistant housing
- 10-1/2" x 1-3/8" x 1-3/8"
- 12V, 2W

HLA 959073001

Attwood LED Courtesy Light



- Stainless steel bezel
- Fully potted electronics for interior/exterior use
- 10 year warranty
- 1.5" dia. x .24"
- 12V, 1.1W

ATT 6342SS1

Hella Marine LED Round Courtesy Light

- Flush mount LED light for interior and exterior use
- Black acrylic housing
- Water and shock proof with pre-wired sealed cable
- 100,000 hr. service life
- 0.042A draw
- Lifetime guarantee
- Diameter: 3"
- Cutout: 2"
- 12V



HLA 980500041 White

Hella Marine LED Oblong Courtesy Light



- UV and enhanced impact resistant Grilamid lens
- 316 stainless steel rim
- Pre-wired with 120mm of marine cable
- 0.5W (< 0.04A@12V / < 0.02A@24V)
- IP 67 - Completely sealed
- H: 1-1/8" x W: 3-1/4"
- 12/24V

HLA 980869301

ITC Oval Courtesy Light

- Flush mount light with clear internally textured polycarbonate lens
- Chrome reflector improves light output
- Includes mounting gasket & screws
- 4.2W incandescent bulb
- W: 4" x H: 2" x D: 1"
- 12V



ITC 80495

Parts:

SPE 168 Bulb

ITC LED Cluster Courtesy Light

- 3 white & 3 blue*
- Polished stainless steel
- Directional light spread
- Pillow Optic lens prevents glare
- Ignition protected
- 1.1A draw
- Watertight
- W: 3" x Depth: 0.5"
- 12V

*Requires 3-way switch (not included)



ITC 69620BE-SS Blue/White, nightlight, bulk

ITC LED Hardtop/Spreader Courtesy Light



- 6 white LEDs
- Polished stainless steel
- Pillow Optic lens prevents glare
- UL1500 listed for use in engine rooms
- FCC Part 18 Compliant for noise and interference
- Amp Draw: 0.09A @ 13.6V
- W: 3", Cutout: 2"
- 12VDC, 1.2W

ITC 69660B-SS-63

ITC LED Cluster Courtesy Light



- 6 white LEDs
- Polished stainless steel
- Directional light spread
- Pillow Optic lens prevents glare
- Ignition protected
- 1.1A draw
- Watertight
- W: 3" x Depth: 0.5"
- 12V

ITC 69600B-SS White, Bulk

ITC LED Baitwell Courtesy Light



- Cool white LED, clear lens
- Internal mounting mechanism allows light to be directed straight ahead or at 15° angle
- Chrome plated housing & reflector
- Voltage protected for 10-14V
- Through hull mounted, sealed, watertight lens
- W: 1.25" x H: 1" x Cutout: 3/4"
- 12V

ITC 69300H-W Each, bulk

Lunasea LED Courtesy Light



- 316 stainless steel IP67 design can mount inside or out
- Inline driver provides continuous light
- 60 degree spread
- Flush mount, 1.1" diameter
- 3' cable
- Dimmable
- 10 - 40V

LUN LLB-57WW-01-00 Warm White, 12V DC

Perko LED Louvered Cockpit Utility Light



- Stainless steel and black polymer
- Looks like a vent, but functions as a courtesy light
- 6" pig tail wire leads
- W: 3-1/8" x H: 1-5/8"
- Screw Size: #8
- 12V, <0.5 watts, draws <0.03 A

PER 1033-DP1-STS

Perko Surface Mounted Courtesy Lights



- 1-7/8" x 9/16"
- Complete with 12V-1W bulb

PER 140-DP-NYN Diffused plastic light cover
PER 137-DP-BLK Shielded plastic light cover

Sea-Dog LED Courtesy Light



- Injection molded delrin
- #6 FH fasteners
- H: 2-3/16" x D: 11/16"
- Cutout dia: 1-3/4"
- 12V

SED 401320-1

Sea-Dog LED Courtesy Lights



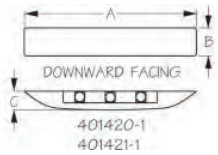
- 9 white LEDs
- Low A draw
- Plastic construction
- Diameter: 3-1/8" x Cutout: 2"
- 12V

SED 401625-1 Chrome
SED 401627-1 White

Sea-Dog LED Deluxe Courtesy Light



- Downward directed light
- Features 3 low-A blue or white LEDs with a 20-lumen output
- Lightweight plastic body with a 316 stainless steel cover
- Installs with two #6 FH fasteners (not included)
- CE compliant and IP67 waterproof rating
- Colour: White
- 9–28V



Part #	A	B	C	Fastener
SED 401420-1	3-15/16"	11/16"	7/16"	#10 RH

Sea-Dog LED Switch Activated Cabinet Light



- Small size allows mounting in any cabinet, locker, or other tight place
- 4 LEDs
- Injection molded nylon
- Includes #10 FH fasteners
- L: 2" x W: 1-5/8" x H: 13/16"
- Battery powered (6x LR44 batteries included)

SED 227162-1

Lunasea LED Outdoor Strip Lighting





- Flexible & waterproof (IP68)
- Silicone epoxy construction
- Continuous, no dot light on White strips
- Viewing angle: 120°
- Cut to length
- 7.2 watt/meter RGB; 4.5 watt/meter White
- 12V

Strip Lighting Only

LUN LLB-453B-01-05	Blue, 5 meter
LUN LLB-453M-01-02	R/G/B, 2 meter
LUN LLB-453M-01-05	R/G/B, 5 meter
LUN LLB-453R-01-02	Red, 2 meter
LUN LLB-453R-01-05	Red, 5 meter
LUN LLB-453W-01-02	White, 2 meter
LUN LLB-453W-01-05	White, 5 meter



Complete Strip Lighting Kits

- Includes RF remote, receiver and 3 meters of extension cable

* Note: Remote and receiver are not waterproof

LUN LLB-453B-01-K5	Blue, 5 meter
LUN LLB-453M-01-K5	R/G/B, 5 meter
LUN LLB-453W-01-K5	White, 5 meter

Lunasea LED Indoor Strip Lighting Kit



- Flexible & water resistant* (IP20)
- Includes RF remote, receiver and 3 meters of extension cable
- Viewing angle: 120°
- Cut to length
- 7 watt/meter
- 12V

LUN LLB-463W-01-K5 White, 5 meter

* Note: Remote and receiver are not waterproof

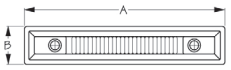


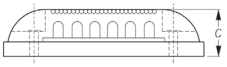
Complete Strip Lighting Kit

- Includes RF remote, receiver and 3 meters of extension cable

* Note: Remote and receiver are not waterproof

LUN LLB-463W-01-K5 White, 5 meter





Sea-Dog LED Strip Light



- Features 6 low amp LEDs per light
- Circuit boards are epoxy potted for a water resistant seal
- Constructed of corrosion resistant lightweight plastic
- Installs with two #10 RH fasteners (not included).
- Colour: White
- 12V

Part #	A	B	C	Fastener
SED 401450-1	3-15/16"	3/4"	15/16"	#10 RH

► *Also See* Dimmers pg 02-011

T-H Marine LED Flexstrip Lighting





- 3M backing tape mounts anywhere
- Can be cut to length
- Low amp draw
- Water and moisture resistant
- 12V

THM LED-51946-DP	12", Cool white
THM LED-51947-DP	12", Blue
THM LED-51950-DP	24", Cool white
THM LED-51951-DP	24", Blue
THM LED-51953-DP	48", Cool white
THM LED-51954-DP	48", Blue

Hella Apelo Light Controller

NEW

- Control, group, and create personalised dynamic RGBW lighting experiences
- Configure any Apelo RGB light via the Apelo Light Controller App and/or multi-pole switching
- No wiring required - wireless communication via Bluetooth
- 150W, 13A @12V / 6.5A @ 24V
- IP67
- 12/24V



HLA 285814001

Lunasea LED RGBW IR/WiFi Remote Control

NEW



- RGBW 24 key mini-infrared remote
- Adjust brightness, and static or dynamic colour effects at up to 30 meter range
- WiFi dongle allows control via smartphone with Magic Home Pro app
- Modes: Flash, Strobe, Fade, and Smooth
- Includes CR2025 batteries (1 plus spare) for IR controller
- WiFi dongle input voltage 5-24V

LUN LLB-45AR-08-03

Lunasea LED RGB Receiver



- Designed to control the newest gen Lunasea LED RGBWW recessed (LLB-46RG-3A-xx) and strip lights (LLB-453X-01-05)
- Full colour mixing for over 1 million colours
- Control each colour individually, or combined for easy dimming
- Full colour and white control
- Each receiver can be set to many transmitters
- Control range of 20 meters
- Output: 12V/5A (60W) per colour
- 12/24V

LUN LLB-45WR-91-00

Sea-Dog Bluetooth RGB Controller



- Control strip lights, Sea-Dog's LED RGB rod holders, tube inserts, or rod holder caps with your smart phone via Bluetooth
- Dynamic or static colour modes; customized colour, photo colour matching, brightness, speed, and timer settings
- Music sound control and phone shake colour/mode change
- Compatible with LED light strips that operate within a 5-24VDC range to a 50' range
- CE, RoHS compliant
- 30A; max capacity of 10A per channel, max load 400W @ 12V or 800W @ 24V

SED 403051-1 H: 2-7/16" x W: 3-3/8" x D: 13/16"

Lunasea 24/12VDC Converter



- Fully potted, waterproof
- Output current: 3 A; Output power: 36 watts
- Conversion efficiency: 96%
- Output ripple: 50mV (MAX) 20M-bandwidth
- Load regulation: +/- 1%; Voltage regulation: +/- 2%
- 2-9/32" x 1-19/32" x 7/8"

LUN LLB-17PA-11-00

Attwood LED Submersible Lights



Features a heat sink cooling system with active overheat protection, extreme impact-resisant lens, electro-polished stainless steel cover and low-profile, surface mount design.

- Fully-sealed waterproof electronics and are resistant to corrosion, chemicals, and UV damage
- Sapphire blue LEDs
- 3' sheathed wire
- Reverse polarity protection
- 10 year warranty
- 12V

Part #	LEDs	Lumen	Length
ATT 65UW03B-7	3	800	4"
ATT 65UW06B-7	6	1,650	5"

Hella Apelo LED Underwater Lights

- Intense white and vibrant blue illumination, or choose RGB (when connected to an RGB controller)
- Wide horizontal illumination with narrow vertical angle
- Completely sealed and electronically protected, IP68 and IP69 rated
- Thermal management ensures ongoing protection and no damage by operation out of water
- High-strength, UV-resistant Grilamid lens
- Surface mount design
- Diameter: 3-3/4"
- 12/24V

A1 Polymer



- 1800 lumen

HLA 016145001	Blue/White, Charcoal lens
HLA 016145011	Blue/White, White lens
HLA 016146001	RGB, Charcoal lens
HLA 016146011	RGB, White lens

A2 Hard Anodized Aluminum



- 3000 lumen
- Edge Light mode gently bathes the stern in pure white as both utility and accent lighting

HLA 016147001	Blue/White, Charcoal lens
HLA 016148001	RGB, Charcoal lens

A2 Marine Grade Bronze



- 3000 lumen
- Edge Light mode gently bathes the stern in pure white as both utility and accent lighting

HLA 016147101	Blue/White, White lens
HLA 016148101	RGB, White lens

OceanLED LED Explore E6 Underwater Lights



- 90° top beam with 20° side beam angle advanced optics
- For boats 65' +
- Ultra low profile bezel has no effect on the flow of water against the hull
- Compact size with built in driver for limited space
- Tritonium coated lens to prevent marine growth build-up
- Controllable by switch, DMX lighting system, or DMX controller (not included)
- Uses the same 3.25" hole size as the previous Allure 150/250 models for simple upgrade
- In-line fuse kit and clamping kit included
- Aluminum with aluminum bronze mounting tube
- IP69k
- Diameter: 4.13"
- 10-32V
- 3 year warranty



OCE E6009B *	Midnight Blue, 11000 lumens
OCE E6009W *	Ultra White, 11000 lumens
OCE E6009BW *	Dual Blue/White, 11000 lumens
OCE E6009CD *	Multi colour, 6000 lumens

* Special Order

OceanLED LED Sport S31xxS Series Underwater Lights



- 90° top beam with 20° side beam angle advanced optics
- Suitable for boats up to 65'
- Corrosion resistant aluminum bronze, with easy to clean Tritonium coating
- Simple to install; 1/2" cutout
- Fish-strobe mode is proven to attract more fish and catch more bait
- Active thermal control prevents overheating
- In-line fuse kit and cabling included
- Aluminum bronze construction
- IP69k
- Diameter: 3.93"
- 9-32V
- 2 year warranty

OCE 012101B	S3116S series, Midnight Blue, 5000 lumens
OCE 012102W	S3116S series, Ultra White, 5000 lumens
OCE 012103BW	S3124S series, Dual Blue/White, 3000 lumens
OCE 012110C	S3166S series, Multi colour, 3500 lumens

OceanLED LED Sport S31xxD Series Underwater Dock Lights



- All the same features as the Sport S31xxS series above, but with a dock mounting system
- Easy to install and maintain standard fixed dock mount
- 20-32V

OCE 012104B	S3116D series, Midnight Blue, 5000 lumens
OCE 012105W	S3116D series, Ultra White, 5000 lumens
OCE 012106BW	S3124D series, Dual Blue/White, 3000 lumens

OceanLED LED
Discover D3 Underwater Lights



- Wide elliptical beam: 90° top, 20° side
- Designed for hulls where a flush-mounted light is preferred, in limited space, or ultra-durable light is needed; boats up to 33'
- Molded single-piece Grilamid bezel is only .23" thick, having no impact on speed or flow of water over the hull
- Suitable for use above and below water
- 700 lumens
- 1.73" cutout
- In-line fuse kit included
- IP69k, with temporary rear submersion protection
- Diameter 2.76"
- 10-30V

OCE D3009B	Midnight Blue
OCE D3009W	White

OceanLED LED
X-Series Underwater Lights

- 60° circular beam angle allows for a variety of mounting orientations
- Made from a chemically resistant optical polymer with built-in driver
- Fish-strobe mode is proven to attract more fish and catch more bait
- Active thermal control prevents overheating
- Suitable for use above and below water
- Multi colour models can be controlled via DC power switch or DMX (not included)
- In-line fuse kit and cabling included
- IP69k
- 9-32V
- 2 year warranty

X4



- 1150 lumens
- Boats up to 30'
- L: 5.4" x H: 2.91" x D: .87"

OCE 012302B	Midnight Blue
OCE 012301W	Ultra White

X8



- 2300 lumens
- Boats up to 50'
- L: 8.62" x H: 3.07" x D: .86"

OCE 012305B	Midnight Blue
OCE 012304W	Ultra White
OCE 012307C	Multi colour

X16



- 4500 lumens
- Boats up to 65'
- L: 9.84" x H: 4.29" x D: .87"

OCE 012309B	Midnight Blue
OCE 012308W	Ultra White
OCE 012311C	Multi colour

OceanLED
OceanBridge
Multizone Lighting Controller



- Control all your boat's lights from an MFD, smartphone, or tablet via built-in WiFi
- Controls every light on your boat, including 3rd party lights as standard, with 10 lighting zones and 10 dynamic scenes
- N2K backbone compatible
- Bluetooth built-in
- Audio Mode to match your light to your music, boat movement, or timer set specific scenes for day or night
- Supports 4 external switch inputs
- Dimensions: L: 8.27" x W: 3.58" x D: 2.56"
- 12/24V

OCE 013201 *

* Special Order

OceanLED
X Series OceanDMX APP Controller Kit



- Control via RF the DMX-compatible RGBW LED lighting system on board
- Use up to 8 different remotes
- Able to dim each color for mixing
- 3 programmable scenes; up to 10 pre-set modes
- DMX receiver is waterproof to IP68
- Includes remote (uses 3x AAA batteries, not included), waterproof pouch, DMX receiver, cable, and DMX junction box
- Receiver: L: 6.89" x W: 5.87" x D: 2.95"
- Remote: L: 4.72" x W: 2.16" x D: .67"
- 12/24V

OCE 013018 **

** While Stock Lasts

OceanLED
4 Way Power Junction Box



- Power up to 4 underwater LEDs with one small IP66 terminal box
- Will convert the conduit to a multi-cable via easy cable glad connector
- Robust polycarbonate design with semi-transparent lid
- Dimensions: L: 11" x W: 8" x D: 3"
- 12/24V

OCE 019901

T-H Marine LED
Underwater Lights

- High intensity LED underwater lights are totally waterproof
- Broad floodlight effect created by engineered optics
- Convex light face
- Proven to attract bait fish
- Surface mount or small hole for wiring
- 6 super bright LEDs (600 Lumens)
- Lower amperage draw and longer life (100,000 hour)
- No high heat like most other underwater lights
- Stainless steel harware included
- Dimensions: 3.5" x 1.5"
- 12V

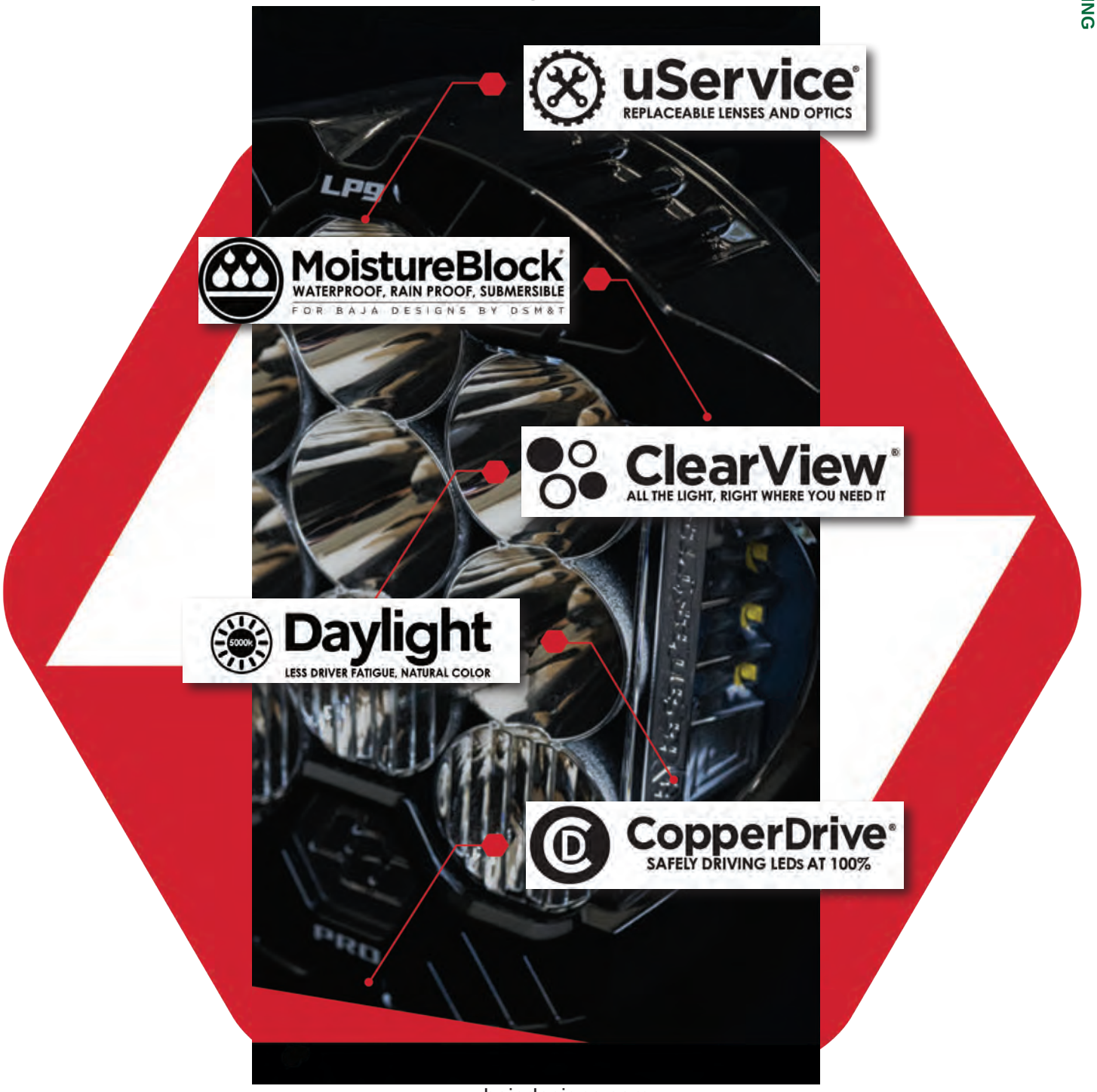


THM LED-51866-DP	White
THM LED-51867-DP	Blue

baja designs®
THE SCIENTISTS OF LIGHTING

NOT ALL LUMENS ARE CREATED EQUAL

Baja Designs is dedicated to providing enthusiasts with the best possible lighting solutions. Brighter, Bolder, BETTER.



Anderson LED
3" x 5" Pedestal Utility Light

NEW



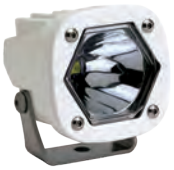
- 1000 lumen output, 12 LED
- Low profile, lightweight design
- Optimized flood pattern for even illumination
- Reinforced mounting insert and stainless steel mounting hardware
- Hardwired design has two stripped leads
- IP67
- 12/24V
- W: 5.63" x H: 5.08" x D: 1.39"

AND V906W-MV

Baja Designs S1 LED Spot Lights LED



- Highly specialized reflector and LED combinati
- Lumens: 2,320 utilizing 1 LED
- Wattage / Amps: 19.5W / 1.42A
- LED Life Expectancy: 49,930 Hours
- 5000K natural white light
- Built-in overvoltage protection
- Replaceable lenses and optics
- Hard coated polycarbonate lens
- Hard anodized and powder coated cast aluminum housing with billet machined aluminum bezel
- Stainless steel hardware and bracket
- Exceeds MIL-STD810G (Mil-Spec Testing)
- IP69K
- 9-28V
- W: 2.1" x H: 2.1" x D: 2.1"
- Limited lifetime warranty



BAJ 380001	Black
BAJ 380001WT	White
Accessories:	
BAJ 660117	Wide lens kit
BAJ 660119	Work/Scene lens kit

Baja Designs S2 Sport LED Spot Light LED



- Lumens: 1,130 utilizing 2 Cree XM-L2 LEDs
- Wattage/Amps: 12W / .9A
- LED Life Expectancy: 49,930 Hours
- 5000K natural white light
- Built-in overvoltage protection
- Replaceable lenses and optics
- Hard coated polycarbonate lens
- Powder coated cast aluminum housing with billet machined aluminum bezel
- Stainless steel hardware and bracket
- Exceeds MIL-STD810G (Mil-Spec Testing)
- IP69K
- IK10 compliant – (Mechanical impact testing), and Salt spray certified
- 12-36V
- W: 2.93" x H: 1.76" x D: 1.68"
- Limited lifetime warranty

BAJ 540006	Black, Work/Scene
Accessories:	
BAJ 660201	Spot lens kit
BAJ 660203	Driving/Combo lens kit
BAJ 660205	Wide cornering lens kit

Baja Designs S2 PRO LED Spot Lights LED



- Lumens: 2,450 utilizing 2 Cree LEDs
- Wattage/Amps: 24W / 1.7A
- LED Life Expectancy: 49,930 Hours
- 5000K natural white light
- Built-in overvoltage protection
- Replaceable lenses and optics
- Hard coated polycarbonate lens
- Hard anodized and powder coated cast aluminum housing with billet machined aluminum bezel
- Stainless steel hardware and bracket
- Exceeds MIL-STD810G (Mil-Spec Testing)
- IP69K
- IK10 compliant – (Mechanical impact testing), and Salt spray certified
- 12-36V
- W: 2.93" x H: 1.76" x D: 1.68"
- Limited lifetime warranty



BAJ 480001	Black, Bracket mount
BAJ 480001WT	White, Bracket mount
BAJ 481001	Black, Flush mount
Accessories:	
BAJ 660201	Spot lens kit
BAJ 660203	Driving/Combo lens kit
BAJ 660205	Wide cornering lens kit

Baja Designs ONX6+ LED Light Bars LED



- Lumens: (High) 12,460 / (Low) 9,230 utilizing 6 LEDs
- Wattage/Amps: (High) 108W / 8.4A (Low) 80W / 5.8A
- 5000K natural white light
- Built-in overvoltage protection
- Replaceable lenses and optics
- Hard coated polycarbonate lens
- Aircraft grade aluminum w/Mil-Spec hard anodized housing
- Stainless steel hardware and bracket
- Exceeds MIL-STD810G (Mil-Spec Testing)
- IP69K
- IK10 compliant, and salt spray certified
- 12-30V
- W: 10" x H: 2.69" x D: 4.29"
- Limited lifetime warranty

BAJ 451001	High Speed
BAJ 451003	Driving/Combo
Accessories:	
BAJ 458114	Driving/Combo lens kit
BAJ 458115	Wide cornering lens kit

Baja Designs Squadron Sport LED Spot Lights



- Lumens: 3,162 utilizing 4 LEDs
- Wattage/Amps: 30W / 2.2A
- LED Life Expectancy: 49,930 Hours
- 5000K natural white light
- Built-in overvoltage protection
- Replaceable lenses and optics
- Hard coated polycarbonate lens
- Hard anodized and powder coated cast aluminum housing with billet machined aluminum bezel
- Stainless steel hardware and bracket
- Exceeds MIL-STD810G (Mil-Spec Testing)
- IP69K
- IK10 compliant – (Mechanical impact testing), and Salt spray certified
- 12-36V
- W: 3.07” x H: 3.07” x D: 2.77”
- Limited lifetime warranty



BAJ 550001	Black, Spot
BAJ 550001WT	White, Spot

Accessories:

BAJ 668403	Combo lens kit
BAJ 668405	Wide cornering lens kit
BAJ 668406	Work/Scene lens kit

Baja Designs Squadron PRO LED Spot Lights





- Lumens: 4,095 utilizing 4 LEDs
- Wattage/Amps: 41W / 3A
- LED Life Expectancy: 49,930 Hours
- 5000K natural white light
- Built-in overvoltage protection
- Replaceable lenses and optics
- Hard coated polycarbonate lens
- Hard anodized and powder coated cast aluminum housing with billet machined aluminum bezel
- Stainless steel hardware and bracket
- Exceeds MIL-STD810G (Mil-Spec Testing)
- IP69K
- IK10 compliant – (Mechanical impact testing), and Salt spray certified
- 9-32V
- W: 3.07” x H: 3.07” x D: 2.77”
- Limited lifetime warranty

BAJ 490001	Black, Spot, Bracket mount
BAJ 490001WT	White, Spot, Bracket mount
BAJ 490003	Black, Driving/Combo, Bracket mount
BAJ 490006	Black, Work/Scene, Bracket mount
BAJ 491001	Black, Spot, Flush mount
BAJ 491001WT	White, Spot, Flush mount

Accessories:

BAJ 668403	Combo lens kit
BAJ 668405	Wide cornering lens kit
BAJ 668406	Work/Scene lens kit

Baja Designs Squadron PRO LED Infrared Light



- IR 940nm
- Compatible with Sionyx Night Vision products
- Lumens: 4,095 utilizing 4 LEDs
- Wattage/Amps: 41W/ 3 A
- LED Life Expectancy: 49,930 Hours
- Replaceable lenses and optics
- Hard coated polycarbonate infrared lens
- Hard anodized aircraft grade aluminum with and billet machined aluminum bezel
- Stainless steel hardware
- Exceeds MIL-STD810G (Mil-Spec Testing)
- IP69K
- IK10 compliant – (Mechanical impact testing)
- 9-32V
- W: 3.07” x H: 3.07” x D: 2.76”
- Limited lifetime warrant

BAJ 497093	Black, Bracket mount

Golight GXL Peformance Lights





- Fixed LED lighting with quick adjust mounting cradle
- 50,000 hour life expectancy
- Shock proof solid state lighting
- Powder coated cast aluminum
- IP 68 rating
- H: 4.2 (4.8 w/cradle) x W: 5.2" x D: 3.2"
- 9-32V
- 10 Year limited warranty

Part #	Colour	Type	Candela / Lumens	Beam	Amps @ 13.8V
GLT 4411	Black	Spot	215000 cd	15° angle Max dist. 3041'	6
GLT 4421	Black	Flood	7500 lm	40° angle	5
GLT 4422	White	Flood	7500 lm	40° angle	5

Hella Halogen Floodlights



- Floodlights for illumination of deck and superstructure
- Uniform light distribution
- Seawater-proof, attractive design with extending rim to protect lens
- 55W halogen bulb
- 12V

Exterior Mount

- Swivels vertically
- W: 6-7/8" x H: 4" x D: 5-1/2"

HLA 007118057 **	Exterior mount, White (bulk)
HLA 007118097 **	Exterior mount, Black (bulk)

Flush Mount

- W: 6-7/8" x H: 3" x D: 3-11/16"



HLA 998518001 **	Flush mount, White

** While Stock Lasts

Hella Sea Hawk-XL LED Floodlight



- Dual colour LED option with two rows of bright white ideal for working (top and bottom), and one row of red (centre) to preserve night vision
- Heavy duty Grilamid lens, ceramic thermal polymer housing, and 316 stainless steel bracket
- IP67
- 5000K white, 750 lumen
- 12/24V
- W: 6.69" x H: 2.68" x D: 2.28"

HLA 980950041 * White/Red, Black housing

* Special Order - may have stock



Hella Sea Hawk-470 Light Bar with Edge Light

- Combines long distance light performance with gentle ambient edge light
- Corrosion-proof housing and Grilamid lens
- Beam angle 8° x 4°
- 316 polished stainless steel bracket
- Mount upright or pendant style
- 2.7A draw @ 12V on pencil beam, 300mA @ 12V edge light
- IP67
- W: 20.86" x H: 2.24" x D: 2.64"
- 12/24V
- 5 year warranty

HLA 958140501 Black housing
HLA 958140511 White housing

Lunasea LED Floodlight



- 8 watt output
- Baked urethane white enclosure
- Daylight white LEDs (1600 Lumen)
- IP65 compliant protection
- Can be surface mounted or tilted on its stainless steel bracket mount
- L: 4.4" x H: 2" x D: .9"
- 10 - 30V

LUN LLB-61WO-81-00

Lunasea LED Large Area Floodlight



- Certified Class 1, Division 2 Hazardous Location
- 90W, 11,500 lumens
- 100°, 4500K natural white light
- Machined marine-grade, hard anodized aluminum enclosure
- Includes stainless-steel brackets and mounting hardware
- IP 65 Compliant protection
- H: 8.27" x W: 9.84" x D: 3.44"
- 90-305VAC / 127-431VDC, 50-60Hz

LUN LLB-60NC-31-10 **

** While Stock Lasts

Lunasea LED Ultra Thin Floodlights

- New generation Lunasea LED floodlights are ultra thin
- Sleek design fits anywhere while offering a bright soft light
- 120° beam angle
- Includes stainless bracket and hardware, tempered glass, and breather valve
- Totally sealed with no gaskets
- Anodized and baked urethane corrosion resistant finish
- IP67



12W

- 4000K natural white
- 5.1" x 3.6" x 1.1"

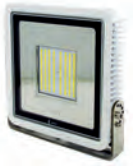
LUN LLB-366N-31-10 120VAC, 1200 lumen
LUN LLB-366N-81-00 12/24VDC, 1300 lumen



35W

- 5700K cool white
- 8.3" x 6.5" x 1.5"

LUN LLB-36MN-41-00 120/240VAC, 4800 lumen
LUN LLB-36MN-81-00 12/24VDC, 4500 lumen



75W

- 5700K cool white
- 10,500 lumen
- 8" x 8" x 1.65"

LUN LLB-36PN-41-00 120/240VAC

RAB Floodlight



- Par 38 spot and floodlight holders
- A sealing gasket at the lamp base weatherproofs the unit
- Universal swivel with 1/2" pipe thread
- Porcelain heat proof socket

RAB HR Silver Grey finish

Sea-Dog Halogen Floodlight



- Injection molded fibreglass nylon w/stamped 304 stainless bracket
- Solid glass lens
- Stainless steel mounting bracket
- 55W halogen bulb
- W: 6-15/16" x H: 5-5/16" x D: 3-3/16"
- 12V

SED 405110-1

Parts:



SED 405111-1 12V, 55W bulb

Sea-Dog LED Rechargeable Handheld Floodlight



- Features five 3W high intensity Bridgelux LEDs which produce 1200 lumens
- Includes both a 12 VDC and 120 VAC charge adapter
- Black powder coated aluminum housing with a Stamped 304 stainless steel bracket and polycarbonate lens
- 7.4V 2200mAh rechargeable Li-battery
- Run time 3-4 hour, charging time 3-4 hours
- IP65 rating

SED 405300-3

Sea-Dog LED Floodlight



- Marine grade LED flood light has 6 super bright LEDs
- IP67 waterproof rating
- Powder coated aluminum/Stamped 304 stainless bracket
- H (with bracket): 4-1/8" x W: 4-5/16"
- 9-36V

SED 405335-3

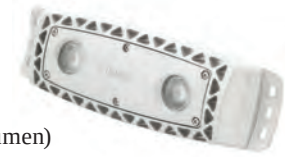


Sea-Dog LED Flood/Spreader Light

- Machined solid aluminum body with anodized finish provides sleek look and durability
- Six 3W LEDs, 1400 lumens and 60° flood light
- 1.25A draw @12V
- Includes a stainless steel pivoting mounting bracket
- W: 6" x H: 2-1/8" x D: 1-3/16"
- 10-30V, 15W

SED 405350-3

Lunasea LED Low Profile Spreader Light



- 11/5.5 watt output
- Baked urethane white enclosure
- Daylight white LEDs (1100/550 Lumen)
- Fully dimmable
- IP65 compliant protection
- L: 7-1/4" x H: 2-1/4" x D: 1-1/8"
- 10-40V

LUN LLB-472W-21-10

Sea-Dog LED Spreader Lights



- Six 3W high intensity Epistar LEDs produce 1440 lumens
- Wide beam polycarbonate lens
- Powder coated die cast aluminum housing with a stamped 304 stainless steel mounting bracket
- 1A draw @ 12 VDC
- IP68 waterproof rating
- W: 6-1/4" x H: 1-7/8" x D: 2-1/4"
- 12/24V

SED 405320-3 Black
SED 405321-3 White

T-H Marine LED Heavy Duty Spreader Light



- Fully sealed construction
- Virtually unbreakable high output lens
- Heavy duty aluminum housing
- Stainless steel hardware included
- Six super-high intensity LEDs
- Lumens: 1380
- Colour temperature: 6,000 K
- W: 6.25" x H: 1.8" x D: 2.2"
- 10-30V, 1W

THM LED-39893-DP

Sea-Dog LED Cree Docking Lights

Two high power Cree LED bulbs provide 1300 lux light output from the front array, with a focused beam angle of 10° for a concentrated light beam. Six regular LED bulbs on the top array have a wide angle beam of 90° to illuminate a large portion of the dock area.

- Waterproof with an IP rating of 68
- Front lights and top lights can be controlled separately
- Surface mounted
- Stamped 304 stainless
- 300 lumens
- 0.28A draw
- L: 3-9/16" x W: 2-5/8" x D: 3/4"
- 12V



SED 405951-1 Pair

Sea-Dog LED Docking Lights



- Surface mounted
- Stamped 304 stainless
- 180 lumens
- 0.28 draw
- L: 3-9/16" x W: 2-5/8" x D: 3/4"
- 12V

SED 405950-1 Pair

Forespar LED Combination Deck/Bow Light





- 2 NM visibility
- For use on power or sail driven vessels under 20 meters (65.6 ft.)
- Features seperate switching
- 6" triple lead wire
- Non-corrosive molded polymer
- Adaptable wraparound mounting apron to accommodate any mast surface curvature
- Optional stainless steel chafe guard available
- Height: 5-5/8"
- 12V

FRS 132300
Parts:
FRS 132335 LED bottom bulb only

Forespar Stainless Steel Light Guard



- Chafe guard protects mast lights and other mast fittings from line snagging

FRS 132200

Forespar LED Mast Spreader/Deck Light



- Noncorrosive, durable molded polymer
- Readily adaptable wraparound mounting apron accommodates any mast surface curvature
- Updated prismatic reflector
- 0.36A draw
- H: 3-5/8" x D: 2-3/8"
- 12V

FRS 131300 Light
Parts:
FRS 132335 LED bottom bulb only

BEP Deck Lamp



- Free form lens reflector technology puts the optics in the reflector, allowing for 30% more light output than conventional lamps
- All hardware is chrome plated, 316 stainless steel
- Sealed cable system insures a watertight lamp
- UV stabilized, impact resistant plastic housing
- Includes a 55W halogen bulb
- W: 5-1/2" x H: 3-1/4" x D: 3-1/4"
- 12V

BEP ML005BW/DSP Black

NEW



Scandvik LED LED Rail Lights

- RGBW+ colour change
- Sealed weatherproof construction (IP65) for surface mount, T-top, and bimini top applications
- Extruded aluminum body
- Intelligent circuitry and simple 2-wire connection with any On/Off switch controls the colours - switch cycles from white to blue to red to green, and switch off for more than 4 seconds resets the colour to white
- Dynamic colour-change fade setting in the last sequence allows the light to cycle through a range of colours on its own
- Includes rail mounting brackets for 3/4" - 1-1/2" diameters
- Lumens: R: 68, G: 136, B: 25, W: 147
- 10-30V

SCA 41761P 6", 9 LED
SCA 41763P 12", 24 LED

Lunasea LED Work/Utility Light



- 6 LEDs
- 18W - 1080 lumen output
- Stainless hardware
- IP65
- 60 degree flood
- W: 6-1/4" x H: 1-3/4" x D: 2-1/4"
- 12-24V

LUN LLB-47FW-82-00

Davis LED "Mega-Light" Utility Light



- LED bulb lasts 10,000 hours
- LED bulb uses <100 mA
- Automatically switches on at dusk and switches off at dawn
- Visible up to 2 nautical miles
- Light height: 3"
- Includes spare incandescent bulb (1893)
- Comes with an easy hang bracket for quick attachment
- 15' cord with a fused lighter plug

DIN 3300 **
** While Stock Lasts

Sea-Dog LED Undermount Light Bar



- 45° tilt
- 15 Osram LEDs provide 1,200 lumens @ 15W
- 0.9A
- Powder coated die cast aluminum with durable polycarbonate lens
- IP67 rating
- CE, RoHS compliant
- L: 5” x H: 2-5/8” x D: 2”
- 9-32V

SED 405360-3

Balmar Multi-Lite



458-S

- High impact polycarbonate light magnifying fresnel lens with plastic lens guard
- Corrosion resistant and rugged for life in the engine room
- Standard, medium-based bulbs between 15 and 40-watt ratings are recommended
- Weatherproof gaskets are included
- L: 6.875" x W: 4.65" x H: 4.5"
- 12-32VDC / 115/230VAC

BAL 458-S ** With switch
** While Stock Lasts

RAB Junction Box



- Die cast 4" round box
- May be wall, ceiling or pole mounted to hold up to five lamp holders
- Boxes are tapped 1/2" on back and four sides
- Three plugs provided
- Complete with Stamped cover

RAB 1/2VXJ

RAB Vapour Proof Fixtures


VBS-1


VAKS-1


VAS-1

Approved for use in locations requiring protection for the electric lamp, socket and wiring from rain, fumes, non-combustible dusts, non-explosive vapours and gases, as well as from physical abuse or vandalism.

RAB VAKS-1	Fitter w/junction box, 100W
RAB VAS-1	Fitter only, 100W
RAB VBS-1	Wall bracket fitter only, 100W

Vapour Proof Crystal Lime Glass Globes

RAB GL100	Clear glass globe
RAB RGL-100/G	Green glass globe
RAB RGL-100/R	Ruby glass globe


GL globes

Polycarbonate Globe

RAB GL100/PG	Clear

RAB GD100/CGS	Cast aluminum, screw-on guard
RAB GAX-C1 **	Fitter box gasket
RAB GAX-VP100	Globe gasket
RAB R-9878-VA	Socket

** While Stock Lasts


GD100/CGS

► *Also See* Ignition Proof Engine Room Lights pg 01-023

MegaPro LED Worklight



- Push button On-Off switch
- Molded pocket clip
- Water resistant
- 6-1/4" overall length
- Includes 3 x AAA batteries

MTP 6WORKLIGHT **

** While Stock Lasts

MegaPro LED USB-C Rechargeable Worklight



- LEDs provide 4 light modes; 400 lumen floodlight, 120 lumen spotlight, UV light, and laser pointer
- Magnetic clip for hands free use
- Water resistant and rugged
- Includes USB-C charging cable
- 6-1/2" length

MTP 6USBCWORKLITE

Fox 40 LED Floating Flashlights



- Water and shock resistant
- Floating flashlight with a bright LED light
- Bright colour makes it easy to spot
- Length: 6"
- Includes 2 AA batteries

FOX 7914-0105 Large light



2-Pack

- 1 ea large and small flashlights
- Includes 2 AA & 1 AAA batteries

FOX 7914-0110 Pack

Rayovac Workhorse 2D Flashlight LED



- 3 LED, 20 lumen flashlight
- Beam distance of 32 meters
- 55 hour battery run time
- Comfort grip
- Protected slide switch
- Extra tough hanging ring
- Tough polypropylene body is impact resistant to 7'
- Water, grease, and corrosion resistant
- Includes 2 (D) zinc chloride batteries

RAY WHH2D-BA

Rayovac Floating Lantern LED



- 7 LED, 200 lumen floating lantern
- Beam distance of 120 meters
- 30 hour battery run time
- Includes 6V Rayovac battery

RAY BEPLN6V-BTA

Caframo LED JOI Outdoor Lighting

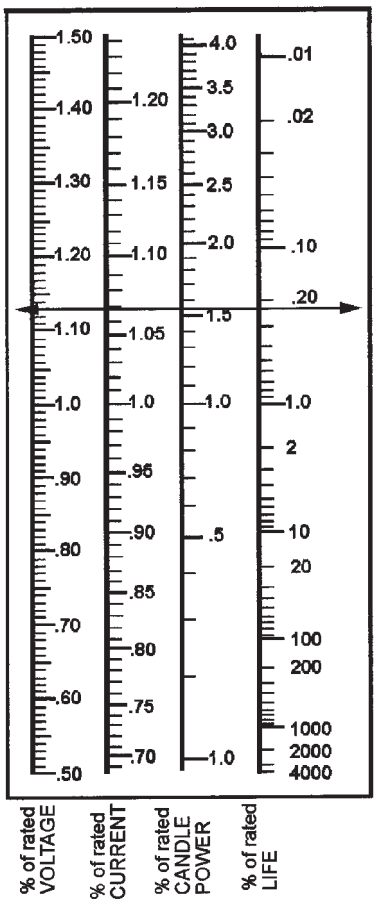


- Doesn't use batteries, solar, or AC to create light
- Uses thermoelectric technology to transform the energy of a tealight candle into light
- Constructed of stainless steel, glass and aluminum
- W: 7" x L: 7" x H: 8"

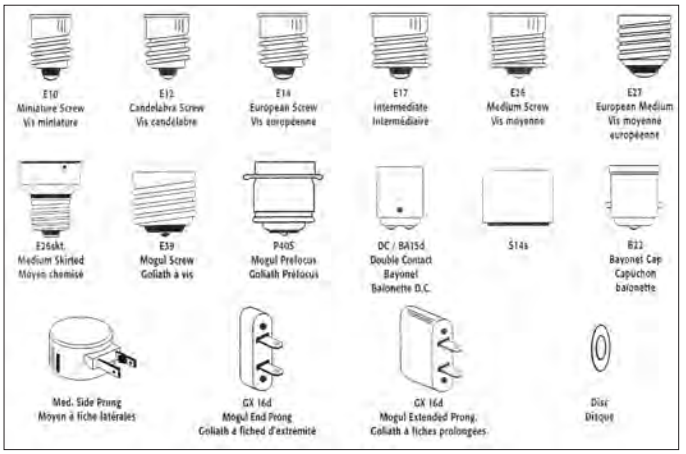
CAF 8310CA

Nomograph

The scales show the relationship between voltage, current, candlepower, and life. Variations in one of these parameters in application will generate a change in the others as depicted by the scales. For example: Operating a 5 volt lamp at 6 volt (1.20) will cause corresponding increase in current and candlepower of 10% and 90% respectively with an 88% loss of lamp life.



Incandescance Bulb Bases



Miniature Bulb Bases



Aeres A measure of electrical current. In incandescent lamp, the current is related to voltage and power as follows:
Current (A) = Power (Watts) / Voltage (Volts).

Candela (cd) The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamp and for luminaires with a lamp operating in them.

Candlepower An obsolete term for luminous intensity; current practice is to refer to this simply as candelas.

Footcandle (fc) A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot.

Lumen A measure of the luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides about 840 lumens.
Lux (lx) A unit of illuminance or light falling onto a surface. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle.

Rated Lamp Life For most lamp types, rated lamp life is the length of time of a statistically large sAle between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation and colour shift.

Voltage A measurement of the electromotive force in an electrical circuit or the device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

Watt A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy.

Lunasea Bottom Bi-Pin Bases (G4) LED



Part #	View	LEDs	Volts	Watt	Colour	Lumens	Qty	Notes
LUN LLB-21KC-71-00	360°	-	10-30VDC	1.5W	Cool	210	1/pkg	Silicone encapsulated, dimmable
LUN LLB-21KW-71-00	360°	-	10-30VDC	1.5W	Warm	200	1/pkg	Silicone encapsulated, dimmable 36mm x 10mm
LUN LLW-21KW-71-00							10 bulk	

Lunasea Back Bi-Pin Bases (G4) LED

LUN LLB-21BC-21-00
LUN LLB-21BW-21-00





LUN LLB-21UC-21-00
LUN LLB-21UW-21-00

Part #	View	LEDs	Volts	Watt	Colour	Lumens	Dia.	Qty
LUN LLB-21BC-21-00	140°	9	10-30VDC	1.2W	Cool	130	23mm	1/pkg
LUN LLB-21BW-21-00	140°	9	10-30VDC	1.2W	Warm	120	23mm	1/pkg
LUN LLB-21UC-21-00	140°	10	10-30VDC	2W	Cool	190	30mm	1/pkg
LUN LLB-21UW-21-00	140°	10	10-30VDC	2W	Warm	170	30mm	1/pkg
LUN LLW-21UW-21-00								10 bulk

Lunasea & Sea-Dog Side Bi-Pin Bases (G4) LED



LUN LLB-216C-21-00
LUN LLB-216W-21-00



LUN LLB-21TC-21-00
LUN LLB-21TW-21-00



SED 442944-1

Part #	View	LEDs	Volts	Watt	Colour	Lumens	Dia.	Qty	Notes
LUN LLB-216C-21-00	140°	9	10-30VDC	1.2W	Cool	130	23mm	1/pkg	
LUN LLW-216C-21-00								10 bulk	
LUN LLB-216W-21-00	140°	9		1.2W	Warm	120	23mm	1/pkg	
LUN LLW-216W-21-00								10 bulk	
LUN LLB-21TC-21-00	140°	12		2W	Cool	190	30mm	1/pkg	
LUN LLW-21TC-21-00								10 bulk	
LUN LLB-21TW-21-00	140°	12		2W	Warm	170	30mm	1/pkg	
LUN LLW-21TW-21-00								10 bulk	
SED 442944-1	140°	14	12.8	2W				1/pkg	Interior Only

Lunasea & Sea-Dog Festoon Cap Bases LED



LLB-202C-21-00
LLB-202W-21-00



LLB-186C-21-00
LLB-186W-21-00



LLB-196W-21-00



442131-1



442142-1

Part #	View	LEDs	Volts	Watt	Colour	Lumens	Length	Qty	Notes
LUN LLB-202C-21-00	140°	4	10-30VDC	.7W	Cool	72	31mm	1/pkg	
LUN LLB-202W-21-00	140°	4	10-30VDC	.7W	Warm	60	31mm	1/pkg	
LUN LLB-186C-21-00	140°	6	10-30VDC	1.5W	Cool	107	42mm	1/pkg	
LUN LLB-186W-21-00	140°	6	10-30VDC	1.5W	Warm	97	42mm	1/pkg	
LUN LLW-186W-21-00								10 bulk	
LUN LLB-196W-21-00	140°	6	10-30VDC	1.5W	Warm	97	37mm	1/pkg	
SED 442131-1	140°	1	12.8	.5W	Warm	-	31mm	1/pkg	Sealed
SED 442142-1	140°	2	12.8	.8W	Warm	-	42mm	1/pkg	Sealed

Lunasea & Sea-Dog Festoon Cap Bases LED



LLB-186C-21-00
LLB-186W-21-00



442232-1 442236-1 442237-1 442245-1

Part #	View	LEDs	Volts	Watt	Colour	Lumens	Length	Qty	Notes
LUN LLB-189C-21-00	270°	9	10-30VDC	2W	Cool	160	42mm	1/pkg	
LUN LLB-189W-21-00					Warm	140			
SED 442232-1	270°	4	12.8	.24W	Warm	-	31mm	1/pkg	
SED 442236-1	270°	4	12.8	.24W	Warm	-	37mm	1/pkg	
SED 442237-1		6							
SED 442244-1	270°	6	12.8	.40W	Warm	-	44.5mm	1/pkg	800 CP
SED 442245-1		8							900 CP

Lunasea & Sea-Dog Festoon Cap Bases LED



LLB-18LC-21-00
LLB-18LR-21-00
LLB-18LW-21-00



4424431-1 4424436-1 4424439-1

Part #	View	LEDs	Volts	Watt	Colour	Lumens	Length	Qty	Notes
LUN LLB-18LC-21-00	360°	12	10-30VDC	1W	Cool	84	42mm	1/pkg	
LUN LLB-18LW-21-00	360°	12		1W	Warm	60	42mm	1/pkg	
LUN LLB-18LR-21-00	360°	12		1W	Red	-	42mm	1/pkg	
LUN LLB-19LW-21-00	360°	12		1W	Warm	60	37mm	1/pkg	
SED 442431-1	360°	4	12.8	.4W	Warm	-	31mm	1/pkg	Interior only
SED 442436-1	360°	6	12.8	.6W	Warm	-	37mm	1/pkg	Interior only
SED 442439-1	360°	8	12.8	.7W	Warm	-	40mm	1/pkg	Interior only
SED 442444-1	360°	12	12.8	1.0W	Warm	-	44.5mm	1/pkg	Interior only

Lunasea LED Mini T10 Wedge Bulb LED



Part #	View	LEDs	Volts	Watt	Colour	Lumens	Qty
LUN LLB-235W-21-00	360°	15	12	.73	Warm	89	1/pkg

Lunasea LED Navigation White Bulbs

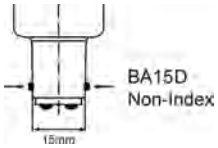


- Rated at 2 nautical miles
- Certified USCG COLREG 72 & ABYC-A16
- Encapsulated to completely protect from the elements
- EMI and surge protected
- Keeps working if one of the LEDs should fail
- Aqua Signal 40 or 41 series replacements
- Excellent viewing angles
- 3 year warranty

Low EMI

- Switching supply with EMI suppression and spread spectrum frequency to limit noise
- 10-45V, 2.5W

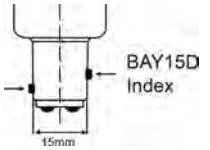
LUN LLB-28NW-24-SD BA15D
LUN LLB-28NW-24-SY BAY15D



Zero EMI

- Linear supply produces no EMI
- 12V, 2.5W

LUN LLB-28NW-04-SD BA15D
LUN LLB-28NW-04-SY BAY15D



Lunasea LED Navigation Festoon Bulbs



LLB-189W-21-0Z

- Rated at 2 nautical miles
- Encapsulated to completely protect from the elements
- High output with a precision buck regulator circuit
- Keeps working if one of the LEDs should fail
- Excellent viewing angles
- 3 year warranty
- 10-30V



LLB-319G-71-0Z

LUN LLB-189W-21-0Z White, 42mm
LUN LLB-319G-71-0Z Green, 43mm, 2-dimple
LUN LLB-319R-71-0Z Red, 43mm, 2-dimple
LUN LLB-319W-71-0Z White, 43mm, 2-dimple

Lunasea LED BA15D & BA15S Bulbs




LLB-22F & 26F Series


LLB-269-229 Series


LLB-22K & 26K Series


LLB-26LC & 26LW Series

Part #	Type	View	LEDs	Volts	Watt	Colour	Lumens	Qty	Notes
LUN LLB-26FC-21-00	BA15D	360°	16	10-30VDC	1W	Cool	105	1/pkg	
LUN LLW-26FC-21-00								10 bulk	
LUN LLB-26FW-21-00	BA15D	360°	16		1W	Warm	75	1/pkg	
LUN LLW-26FW-21-00								10 bulk	
LUN LLB-269R-21-00	BA15D	120°	9	10-30VDC	2W	Red	-	1/pkg	Tape in place 40mm x 40mm
LUN LLB-269W-21-00	BA15D	120°	9		2W	Warm	149	1/pkg	
LUN LLB-229R-21-00	BA15S	120°	9		2W	Red	-	1/pkg	
LUN LLB-229W-21-00	BA15S	120°	9		2W	Warm	149	1/pkg	
LUN LLB-22KC-21-00	BA15S	360°		10-30VDC	3W	Cool	220	1/pkg	Length: 45mm
LUN LLB-22KW-21-00	BA15S	360°			3W	Warm	220	1/pkg	
LUN LLW-22KW-21-00								10 bulk	
LUN LLB-26KC-21-00	BA15D	360°			3W	Cool	220	1/pkg	
LUN LLB-26KW-21-00	BA15D	360°			3W	Warm	220	1/pkg	
LUN LLW-26KW-21-00	BA15D	360°			3W	Warm	220	10 bulk	
LUN LLB-26LC-61-00	BA15D	360°		10-30VDC	1.5W	Cool	210	1/pkg	Water tight
LUN LLB-26LW-61-00	BA15D	360°			1.5W	Warm	200	1/pkg	

Lunasea LED MR11 & MR16 Bulbs


LLB-11TW-61-00


LLB-16CW-01-00

Part #	Type	LEDs	View	Volts	Watt	Colour	Lumens	Dia x L	Qty	Notes
LUN LLB-11TW-61-00	MR11	10	120° Flood	10-30VDC	2.2W	Warm	140	-	1/pkg	
LUN LLB-16CW-01-00	MR16	1	80° Flood	12	5W	Warm	450	50 x 52mm	1/pkg	Dimmable, soft light

Lunasea LED Par 36 Replacement Bulb

- Spreader/Foredeck LED offers superior light output and long life, while only requiring 13W of power
- 38° beam
- Replaces 50W sealed beam with an equivalent light output of 75W
- IP67 waterproof
- Natural white
- 850 lumen
- 12/24V, 13W

LUN LLB-55NN-81-00


Shown Installed
(Housing not included)

G.E. LED Nighthawk Sealbeams

- Die-cast aluminum housing; and non-yellowing, impact-resistant polycarbonate lens
- Standard, H4 wiring connection for a direct fit to traditional headlamp wiring adapters
- Produces bright, white light output (5600K)
- 15,000 hours rated life
- 3 Lug tab base
- Operating Temperature Range: -40°C to 50°C
- DOT Compliant, meets J578C
- 3 year limited warranty
- 10-32V

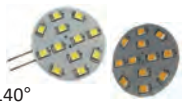


GEL 93112883 ** 4” x 6”, low beam, 25000 CP
GEL 93112884 ** 4” x 6”, high beam, 50000 CP
** While Stock Lasts

LED LIGHT BULB REPLACEMENT GUIDE
Cross Reference

www.lunasea.com 1-800-272-0170

All Bulbs are 10-30VDC (12 & 24VDC Systems) unless noted.
Bulbs have no polarity. Simply insert and use. Low heat and brighter light.
Listed replacement bulbs are the most popular. Please check our webs site for additional types.

Original Bulb	LED Replacements
G4 0.9"/23mm 10-30VDC	 SIDE PIN, 140° **LLB-216W-21-00** Warm White **LLB-216C-21-00** Cool White BACK PIN, 140° **LLB-21BW-21-00** Warm White **LLB-21BC-21-00** Cool White
G4 1.2"/30mm 10-30VDC	 SIDE PIN, 140° **LLB-21TW-21-00** Warm White **LLB-21TC-21-00** Cool White BACK PIN, 140° **LLB-21-UW-21-00** Warm White **LLB-21-UC-21-00** Cool White
G4 25-30 Watt 10-30VDC	 360°, Dimmable Silicone Encapsulated **LLB-21KW-71-00** Warm White **LLB-21KC-71-00** Cool White
T10 Wedge 10-30VDC	 360° **LLB-235W-21-00** Warm White
Spreader / Foredeck / **PAR36** 50 Watt 12/24VDC	 IP67 38° Beam **LLB-55NN-81-00**
Edison Style **E26** Base 60 Watt 12VDC	 360° **LLB-48FW-82-00** Warm White
Flourescent **F8T5** 12/24VDC	 12" **LLB-05WD-81-00** Natural White

Original Bulb	LED Replacements
BA15D 15 Watt 10-30VDC	 16 LED, 360° **LLB-26FW-21-00** Warm White **LLB-26FC-21-00** Cool White
BA15D 20 Watt 10-30VDC	 Low Profile, 360° Silicon Encapsulated **LLB-26LW-61-00** Warm White **LLB-26LC-61-00** Cool White
BA15D 15 Watt 10-30VDC 20 Watt	 9 LED **LLB-269W-21-00** Warm White **LLB-269R-21-00** Red  Dimmable, 360° Silicon Encapsulated **LLB-26KW-21-00** Warm White **LLB-26KC-21-00** Cool White
BA15S 15 Watt 10-30VDC 20 Watt	 9 LED **LLB-229W-21-00** Warm White **LLB-229R-21-00** Red  Dimmable, 360° Silicon Encapsulated **LLB-22KW-21-00** Warm White **LLB-22KC-21-00** Cool White
ADAPTERS	 **LLB-44AG-01-00** BA15S to G4 **LLB-44BG-01-00** BA15D to G4 **LLB-44DG-01-00** BAY15D to G4 **LLB-44EE-01-00** E26/27 to G4
MR11 10-30VDC	 120° Floodlight **LLB-11TW-61-00** Warm White

MR16 12VDC	 80° Flood Dimmable, COB **LLB-16CW-01-00** Cool White
Festoon 31mm 10-30VDC	 4 LED, 140° **LLB-202W-21-00** Warm White **LLB-202C-21-00** Cool White
Festoon 37mm 15 Watt 10-30VDC	 6 LED, 140° **LLB-196W-21-00** Warm White  12 LED, 360° **LLB-19LW-21-00** Warm White
Festoon 42mm 15 Watt 10-30VDC	 6 LED, 140° **LLB-186W-21-00** Warm White **LLB-186C-21-00** Cool White **LLB-186R-21-00** Red  9 LED, 270° **LLB-189W-21-00** Warm White **LLB-189C-21-00** Cool White  12 LED, 360° **LLB-18LW-21-00** Warm White **LLB-18LC-21-00** Cool White **LLB-18LR-21-00** Red

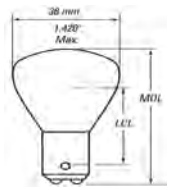
Why LUNASEA LED Bulbs

- Best selection of any brand
- Tested for low RFI interference, no noise on radios
- Most 10 -30VDC, not effected by voltage fluctuations that cause others to fail prematurely
- Supported 2 year warranties
- High quality colour packaging
- Bulk packaging available

Double Contact Bayonet Base (BA15D), Bulb (RP-11) 1-3/8" Diameter

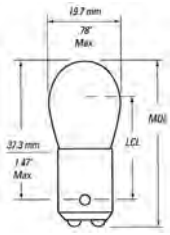
Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SPE 1144 **	-	12.5	1.98A	32	1-1/4"	2-1/4"	400	1
SPE 1054	-	32	.74A	32	1-1/4"	2-1/4"	100	1

** While Stock Lasts



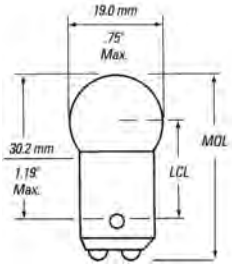
Double Contact Bayonet Base (BA15D), Bulb (B-6) 3/4" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	Rated Hrs	Per Card
SED 441004-1	1004	12.8	12W	15	3/4"	-	2
SPE 1004	-	12.8	.94A	15	1-1/16"	200	1



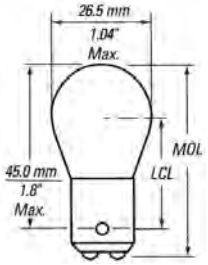
Double Contact Bayonet Base (BA15D), Bulb (G-6) 3/4" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SED 441090-1	90	13.0	7.5W	6	3/4"	1-7/16"	500	2
SPE 64	-	7.0	.63A	3	3/4"	1-7/16"	1000	1
SPE 82	-	6.5	1.02A	6	3/4"	1-7/16"	500	1
SPE 90	-	13	.58A	6	3/4"	1-7/16"	750	1
SPE 304	-	28	.30A	6	3/4"	1-7/16"	500	1
SPE 624	-	28.0	.37A	6	3/4"	1-7/16"	1000	1
SPE 1224	-	32	.16A	3.8	11/16"	1-7/16"	275	1
SPE 1252	-	28	.23A	3	3/4"	1-7/16"	2000	1



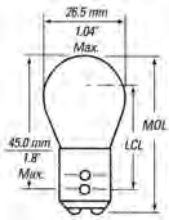
Double Contact Bayonet Base (BA15D), Bulb (S-8) 1" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SED 441076-1	1076	12.8	23W	32	1-1/4"	2"	200	2
SED 441094-1	94	12.8	13.3W	15	1-1/8"	2"	700	2
SED 441142-1	1142	12.8	18.4W	21	1-1/4"	2"	1000	2
SED 441143-1	1142R	12.8	18.4W	21	1-1/4"	2"	1000	2
SPE 308	-	28	.67A	21	1-1/8"	2"	300	1
SPE 1076	-	12.8	1.80A	32	1-1/4"	2"	200	1
SPE 1142	-	12.8	1.44A	21	1-1/4"	2"	1000	1
SPE 1204	-	28	.71A	21	1-1/4"	2"	400	1
SPE 1228	-	34	.45A	15	1-1/8"	2"	150	1



Double Contact Indexing Base (BAY15D), Bulb Dual Filament (S-8) 1" Diameter

Part #	Trade #	Volts	A	CP	L.O.L.	M.O.L	Rated Hrs	Per Card
SED 441034-1	1034	12.8/14	1.8/.59	32/3	1-1/4"	2"	200/5000	2
SED 441157-1	1157	12.8/14	2.1/.59	32/3	1-1/4"	2"	-	2
SPE 1157	-	12.8/14	2.1/.59	3	1-1/4"	2"	1200	1
SPE 2057	-	12.8/14	1.8/.48	32	1-1/4"	2"	1200	1



Navigation Double Contact Indexing Bayonet Bulb (BAY15D)



Part #	Volts	Watts	Dia. x L
PER 375-32V-10W	32	10	1-3/8" x 2-1/4"

Navigation Medium Prefocus Bulb (P28S)

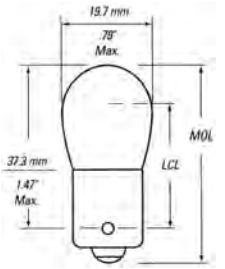


Part #	Volts	Watts	Dia. x L
PER 342-RS4-CLR †	120	60	1-1/2" x 4-1/2"
PER 342-024-CLR	24	55	1-1/2" x 4-1/2"

† Rough Service

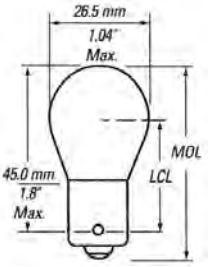
Single Contact Bayonet Base (BA15S), Bulb (B-6) 3/4" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SED 441003-1	1003	12.8	.94A	15	1-1/16"	1-3/4"	100	1
SPE 1003	1003	12.8	.94A	15	1-1/16"	1-3/4"	100	1



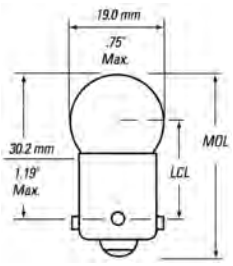
Single Contact Bayonet Base (BA15S), Bulb (S-8) 1" Diameter

Part #	Trade #	Volts	A	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
ANC 521156	1156	12.8	2.10	32	1-1/8"	2"	1200	2
SED 441093-1	93	12.8	1.04A	15	1-1/8"	2"	700	2
SED 441141-1	1141	12.8	1.44A	21	1-1/4"	2"	500	2
SED 441156-1	1156	12.8	2.10A	32	1-1/4"	2"	200	2
SPE 93	93	12.8	1.04A	15	1-1/8"	2"	700	1
SPE 305	305	28	.51A	15	1-1/8"	2"	300	1
SPE 307	307	28	.67A	21	1-1/8"	2"	300	1
SPE 1073	1073	12.8	1.80A	32	1-14"	2"	200	1
SPE 1141	1141	12.8	1.44A	21	1-1/4"	2"	500	1
SPE 1156	1156	12.8	2.10A	32	1-1/4"	2"	200	1
SPE 1203	1203	28	.71A	21	1-1/4"	2"	400	1



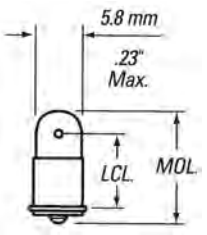
Single Contact Bayonet Base (BA15S), Bulb (G-6) 3/4" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SED 441067-1	67	13.5	.59A	4	13/16"	1-7/16"	5000	2
SPE 67	67	13.5	.59A	4	13/16"	1-7/16	5000	1
SPE 89	89	13	.58A	6	3/4"	1-7/16"	750	1
SPE 97	97	13.5	.69A	4	13/16"	1-7/16"	5000	1



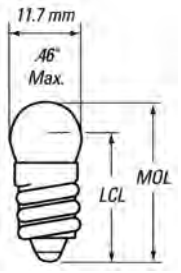
Single Contact Midget Flanged Base (F6), Bulb (T-1-3/4) 7/32" Diameter

Part #	Use	Volts	A/Watt	CP	Dia. x L	Rated Hrs	Per Card
SPE 382	Indicator	14	.08A	.3	S.C. .230 x .625	40000	1



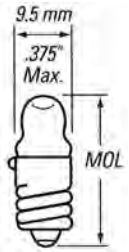
Miniature Screw Base (E10), Bulb (G-3-1/2) 7/16" Diameter

Part #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SPE 13	3.7	.30A	.98	23/32"	15/16"	15	1
SPE 52	14.4	.10A	.75	-	15/16"	1000	1
SPE 131	1.3	.10A	.03	23/32"	15/16"	50	1
SPE 365	3.69	.5A	-	23/32"	15/16"	15	1
SPE 1447	18	.15A/2.7	1.5	23/32"	15/16"	250	1



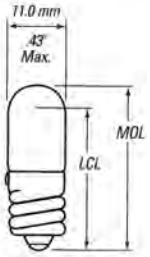
Miniature Screw Base (E10), Bulb (TL-3) 3/8" Diameter

Part #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SPE 222	2.25	.25A	-	-	.93"	5	1
SPE 243	2.33	.27A	-	-	.59"	10	1



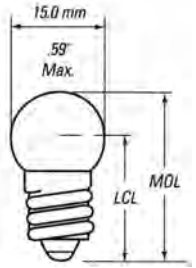
Miniature Screw Base (E10), Bulb (T-3-1/4) 13/32" Diameter

Part #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SPE 48	2	.06A	.04	-	1-3/16"	1000	1



Miniature Screw Base (E10), Bulb (G-4-1/2) 9/16" Diameter

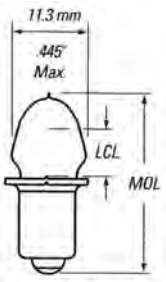
Part #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SPE 407	4.9	.30A	1.2	13/16"	1-1/16"	50	1
SPE 605	6.15	.50A	3.4	23/32"	1-1/16"	15	1



Single Contact Miniature Flange Base (P13.5S), Bulb (B-3 1/2)

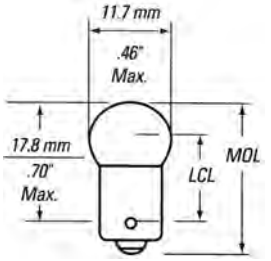
Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L	Rated Hrs	Per Card
SED 441992-1 **	PR2	2.38	.50A	.8	1/4"	1-1/4"	15	2
SPE PR3	-	3.57	.50A	1.4	1/4"	1-1/4"	15	1
SPE PR4	-	2.33	.27A	.40	1/4"	1-1/4"	10	1
SPE PR6	-	2.47	.30A	.45	1/4"	1-1/4"	30	1
SPE PR12	-	5.95	.50A	3.10	1/4"	1-1/4"	15	1
SPE PR13	-	4.75	.50A	2.20	1/4"	1-1/4"	15	1
SPE PR15	-	4.82	.50A	1.9	1/4"	1-1/4"	30	1
SPE PR18	-	7.2	.55A	5.5	1/4"	1-1/4"	3	1
SPE PR31	-	2.5	.7A	1.3	1/4"	1-1/4"	20	1
SPE PR32	-	4.8	.7A	3.3	1/4"	1-1/4"	20	1

** While Stock Lasts



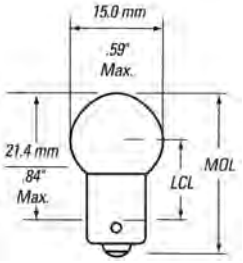
Miniature Bayonet Base (BA9S) Bulb (G-3-1/2) 7/16" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SED 441053-1	53	14.4	.12A	1	1/2"	15/16"	1000	2
SPE 53	53	14.4	.12A	1	1/2"	15/16"	1000	1



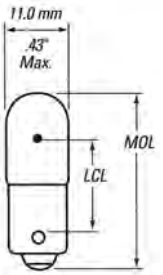
Miniature Bayonet Base (BA9S), Bulb (G-4-1/2) 9/16" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
ANC 521895	1895	12	.27/3.8	2	9/16"	1-1/16"	500	2
SED 441057-1	57	14.0	.24A	2	9/16"	1-1/16"	500	2
SPE 55	55	7.0	.41A	2	9/16	1-1/16"	500	1
SPE 57	57	14.0	.24A	2	9/16"	1-1/16"	500	1



Miniature Bayonet Base (BA9S), Bulb (T-3-1/4) 13/32" Diameter

Part #	Features	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SPE 967		125	0.025/3	.36	5/8"	1-3/16"	5000	1
SPE 1813		14.4	.10A	.86	5/8"	1-3/16"	1000	1
SPE 1815		14	.20A	1.4	3/4"	1-3/16"	3000	1
SPE 1816		13	.33A	3	5/8"	1-3/16"	1000	1
SPE 1819		28	.04A	.34	5/8"	1-3/16"	1000	1
SPE 1829		28	.07A	1.0	5/8"	1-3/16"	1000	1
SPE 1820		28	.10A	1.6	5/8"	1-3/16"	1000	1
SPE 1822		36	.10A	2.5	5/8"	1-3/16"	1000	1
SPE 1828		37.5	.05A	.65	5/8"	1-3/16"	3000	1
SPE 1850	2 Filament	5	.09A	.25	5/8"	1-3/16"	1500	1



Festoon/Miniature Cap Base

Part #	Trade #	Volts	A/Watt	CP	Dia.	M.O.L.	Rated Hrs	Per Card	Fig #
ANC 522112	-	12.8	.97/15	12	.46"	1.60"	1000	2	99
PER 67-DP1-CLR	-	24	.42/10	8	.375"	1.6875"	-	2	99
PER 67-DP2-CLR	-	24	.75/18	10	.5675"	1.6875"	-	2	99
PER 69-DP-CLR	-	12	.83/10	8	.375"	1.625"	-	2	99
PER 70-DP0-CLR	-	12	.74/10	6	.375"	1.6875"	-	2	99
PER 70-DP1-CLR	-	12	.97/15	12	.5675"	1.6875"	-	2	99
PER 70-DP2-CLR	-	32	.40/12	12	.375"	1.6875"	-	2	99
PER 71-DP0-CLR	-	12	10W	8	.375	1.125	-	2	99
PER 72-DP1-CLR	-	24	.40/10	8	.375"	1.125"	-	2	99
SED 441854-1	-	12.8	.72/10W	6	.375"	1.125"	-	2	99
SED 441211-1	-	12.8	15W	12	.4375"	1.6875"	-	2	99
SED 441212-1	-	13.8	10W	6	.4375"	1.6875"	-	2	99
SED 441070-1	-	12.8	15W	12	.4375"	1.5625"	-	2	99
SED 441209-1	-	12	5W	2	.25"	1.1875"	-	2	99
SED 441071	71	13.8	10W	6	.4375"	1.1875"	-	1	99
SED 441071-1	71	13.8	10W	6	.4375"	1.1875"	-	2	99
SPE 561	561	12.8	.97A	12	.375"	1.71875"	1000	1	64

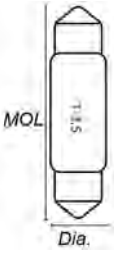


Fig.99

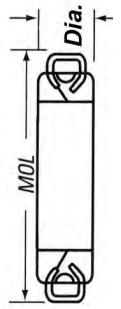
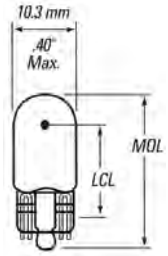


Fig. 64

► *Also See* LED Festoon Bulbs pg 01-039 to 040

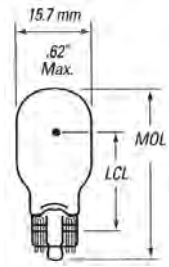
Wedge Base (W2.1x9.5d), Bulb (T-3 1/4)

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
SED 441194-1	194	14	3.8W	2	9/16"	1-1/16"	2500	2
SPE 161	161	14	.19A	1	9/16"	1-1/16"	4000	1
SPE 168	168	14	.35A	3	9/16"	1-1/16"	1500	1
SPE 194	194	14	.27A	2	9/16"	1-1/16"	2500	1
SPE 658	658	14	.08A	.31	9/16"	1-1/16"	1500	1



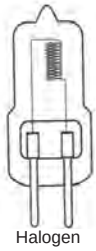
Wedge Base (W2.1x9.5d), Bulb (T-5) 5/8" Diameter

Part #	Trade #	Volts	A/Watt	CP	L.C.L.	M.O.L.	Rated Hrs	Per Card
PER 338-DP2-CLR	-	12	.69/9	1	11/32"	1-1/16"	4000	1
SED 441906-1	906	13.0	9.0W	6	9/16"	1-3/8"	-	2
SPE 906	906	13	.69A	6	.81"	1.49"	1000	1
SPE 912	912	12.8	1.0A	12	.81"	1.49"	1000	1



Miniature Halogen/Xenon Bi-Pin Base (G4)

Part #	Volts	A/Watt	CP	Dia. x L	Rated Hrs	Per Card
Halogen						
ANC 529361	12	0.42/5	5	.35" x 1.18"	2000	2
ANC 529362	12	0.83/10	11	.35" x 1.18"	2000	1
ANC 529368	24	0.83/20	20	.35" x 1.18"	2000	1
SED 441890-1	12	1.66/10	350	5/16" x 1-1/4"	-	2
SED 441891	12	1.66/20	700	5/16" x 1-1/4"	-	1
SED 441891-1	12	1.66/20	700	5/16" x 1-1/4"	-	2
Xenon Bulbs			**Lumens**			
SPE XJC12V-15W-T3	12	15W	160	1-5/16"	10000	1
SPE XJC24V10W **	24	10W	90	1-5/16"	10000	1


Halogen

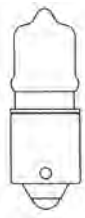

Xenon

** While Stock Lasts

► *Also See* Adapter Bases pg 01-049

Miniature Halogen Bayonet Base (BA9S)

Part #	Volts	A/Watt	Dia. x L	Rated Hrs	Per Card
ANC 529337	12	1.67/20	.35" x 1.18"	2000	1



MR-16 Halogen Bulbs With Reflector

Part #	Volts	A/Watt	CP	Dia. x L	Per Card
SED 441816-1	12	.83/10	500	2" x 1-3/4"	1
ANC 521125	12	1.67/20	-	2" x 1-3/4"	1



Spectro Halogen Floodlight Bulbs

Part #	Volt	Watts	Lumens	Rated Hrs
SPE Q300T3/CL24V	24	300	5400	2000
SPE H500T3/119MM	120	500	10,500	2000





PAR46

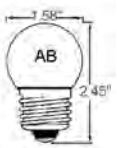
Sealed Beam Bulbs

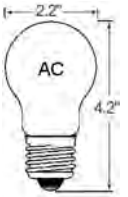
Part #	Cross Reference	Volts	A/Watt	CP	Base	Rated Hrs
PAR-46, 5-3/4" Diameter						
GEL 150PAR46/1 **	JAB 98040-0100, PER 433-32V	32	150 W	100,000	Screw-on	1,000
GEL 4522**		13	250 W	290,000	Screw-on	25

** While Stock Lasts

Ancor Medium Screw Base Bulbs

Part #	Bulb Style	Trade #	System Volts	Design Volts	A	Watts	Life Hrs.	Qty/ Pkg.
ANC 531025	AC	25A17/12	12	13.5	2.08	25	1000	2
ANC 531050	AC	50A17/12	12	13.5	4.17	50	1000	2
ANC 531075	AC	75A17/12	12	13.5	6.25	75	1000	2





Crest Medium Base Inside Frosted Bulbs

- 4-7/8" x 2-7/8" dia.
- 12V med. base I.F. bulbs, A19

SPE 25W-12V 25W-12V
SPE 50W-12V 50W-12V

- 24V med. base I.F. bulbs, A19

SPE 25W-24V 25W-24V
SPE 50W-24V 50W-24V
SPE 100W-24V 100W-24V

- 34V med. base I.F. bulbs, A19

SPE 25W-32V 25W-32/34V
SPE 50W-32V 50W-32V
SPE 100W-32V 100W-32V



Candelabra Screw Base (E12)

- 6 watt
- 40 lumens
- 3/4" x 1-7/8"

Part #	Volts	Rated Hrs
SPE 6S6-12V-CAND	12	1500
SPE 6S6-125V-CAND	115/125	3000



Sea-Dog Medium Screw Base Bulb



- 1.25/15
- 1-9/16" x 2-1/2"
- 12V

SED 441027-1

Lunasea LED Edison Style E26 Screw Bulb



- 60-watt equivalent
- 12VDC, 7 watt
- Soft warm white 2600K

LUN LLB-48FW-82-00

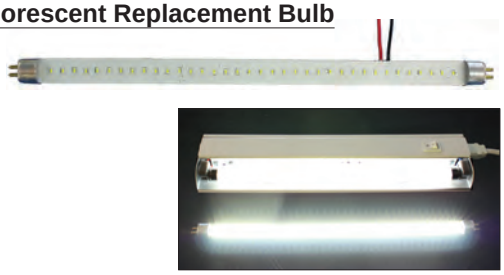
Standard Products Heat Lamp



250W-130V, R40 reflector, infrared heat lamp for winter heat or home use.

SPE 250R40/1

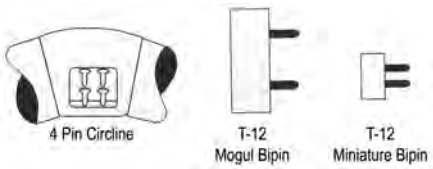
Lunasea LED F8-T5 Fluorescent Replacement Bulb



No need to sacrifice light output to upgrade your original fluorescent fixtures. Simply remove the old bulb and insert the new LED tube replacement.

- Wires directly into boat wiring, no ballast required
- End caps carry no electrical power but offer simple mounting
- 504 lumens
- 11.9" overall length
- 12/24V

LUN LLB-05WD-81-00



G.E. Fluorescent Tubes

These tubes are direct replacements for those supplied in fluorescent lamp.

- Cool white

Part #	Watts	Base	Dia. x L	Rated Hrs
GEL F4T5CW	4	min. - bi-pin	5/8" x 6"	6,000
GEL F6T5-CW	6	min. - bi-pin	5/8" x 9"	7,500
GEL F8T5/CW	8	min. - bi-pin	5/8" x 12"	7,500
GEL F13T5/CW	13	min. - bi-pin	5/8" x 21"	7,500
GEL F15T8/CW	15	med. - bi-pin	1" x 18"	7,500
GEL FC8T9-CW	22	Cir. - 4-pin	8-1/4" O.D.	9,000

LunaSea LED Adapter Bases



- 1/pkg

LUN LLB-44AG-01-00	BA15S Single Contact Base to G4
LUN LLB-44BG-01-00	BA15D Double Contact Base to G4
LUN LLB-44DG-01-00	BAY15D Indexing Dual Contact Base to G4
LUN LLB-44EE-01-00	E26 Base to G4 or MR16

Ancor Halogen Lamp Adapter Base



The nickel-plated brass base halogen lamp adapter allows the use of G4 halogen lamp in standard double contact base.

Part #	Bulb Style	Base
ANC 529381	AH	Double Contact Bayonet

Perko Replacement Lamp Sockets

Part #	Description	Image
Double Contact Sockets		
PER 24-DP1	▪ Delrin body, 3/4" OD ▪ 10" pigtail	
PER 24-DP2	▪ Delrin body, 3/4" OD ▪ 60" pigtail	
PER 276-002	▪ Brass body. Tapped 1/8" IPS ▪ 2" overall height	
PER 52-DP	▪ Brass, with 6" wire leads.	
PER 134	▪ H: 7/8" x Dia: 1-3/4"	
Single Contact Sockets		
PER 1109-DP	▪ Brass with 6" pigtail leads ▪ 3/8" L x 3/8" O.D	

Cole Hersee Lamp Socket



- Double contact, bayonet socket (15D)
- Spring loaded brass contacts
- Nickel plated brass housing
- Wire connections at end of insulator
- Fits into 11/16" hole

COH M-432

Maretron Vessel Monitoring & Control | Carling Technologies® /// NOW PART OF Littelfuse®

Your One Source for Creating the Intelligent Boat

Introducing the Digital Switching Platform from the Experts in Switches, Circuit Protection and Vessel Monitoring & Control

MPower® Digital Switching Platform

CBMD12



CLMD12



CLMD16



NMEA Certified Dealers

Contact Western Marine to learn how to become an MPower Dealer

VMM6



CKM12



CLMD12: 12-Channel DC Load Controller Module

Designed for vessels of all sizes with smaller loads

- Two of the 12 breakers handle a maximum of 12 amps; Six of the 12 breakers handle a maximum of 10 amps; Four handle a maximum of 5 amps with a total current capacity of 75 amps
- Circuits can be paralleled
- Seven hard-wired switches can be used to switch breaker states, or as inputs for other data such as bilge alarms or hatch positions, etc.
- IP67 Rated
- For manual control of the loads, an optional 12-channel bypass module can be installed in conjunction with the CLMD12
- If a smaller circuit needs to be protected, each of the 12 breakers can be set to trip at lower current levels using the new Maretron N2K Analyzer V3 software
- Ignition Protection

CBMD 12-Channel Optional Bypass Module

For manual control of the loads, an optional 12-channel bypass module can be installed in conjunction with the CLMD12

- 75 amps maximum current capacity
- Carling Curvette® rocker switches
- Overcurrent protection via ATC standard fuses

CLMD16: 16-Channel DC Load Controller Module

Designed for larger breakers and more circuits

- Four of the 16 breakers handle a maximum of 25 amps and twelve breakers handle a maximum of 12 amps with a total current capacity of 125 amps
- Circuits can be paralleled
- IP67 Rated
- Supports two 12A H-Bridge reversing polarity circuits that can be used for loads such as engine hatches, passerelles, trim tabs, etc.
- Eight inputs for hard-wired switches that can be used to switch breaker states, or as inputs for other data such as bilge alarms or hatch positions, etc. There are 3 inputs capable of monitoring tank levels
- Built-in redundancy and Ignition Protection

VMM6 Contura® Digital Switch Module, 6 Rocker

- Connects directly to the NMEA2000® network
- IP68 Rated
- Horizontal or vertical mounting options

CKM12 12-Button Customizable Keypad

- Connects directly to the NMEA2000® network
- IP69K Rated for safe interior or exterior installations
- Horizontal or vertical mounting options

02 - ELECTRICAL

Switches	Push Button / Wiper	02-002 to 004
	Roto / Push-Pull	02-004 to 005
	Toggle / Rocker	02-006 to 010
	Dimmer / Ignition / Cut-Off	02-011 to 014
	Battery / AC Selector	02-016 to 029
Panels, Breakers & Fuses	AC & DC Panels	02-029 to 037
	Panel Accessories / Labels	02-038 to 040
	Fuse Blocks / Holders / Fuses	02-040 to 051
	Circuit Breakers	02-052 to 056
	BEP Pro Installer Series	02-056 to 058
	Bus Bars / Power Posts / Booster Cables	02-058 to 063
Boat Wire	Shipboard Cable / Battery Cable	02-065 to 067
	Primary Wire	02-068 to 070
	Specialty Wire / Boat Cable	02-070 to 072
Shore Power	SmartPlug	02-074 to 077
	Marinco / Glendinning / Camco	02-078 to 084
	ASEA Dock Boost Transformer	02-085
	Accessories / TV Aerial Connector	02-085
Connectors	Battery Terminals / Lugs	02-086 to 091
	Terminal Connectors	02-091 to 100
	Heat Shrink Connectors	02-100 to 104
	Heat Shrink	02-104 to 106
	Electrical Tools	02-107 to 111
	Cable Outlets	02-112 to 116
	12V Connectors	02-117 to 120
	USB/USB-C Chargers	02-120 to 122
Cable Ties, Clamps, & Conduits		02-123 to 128
Batteries & Accessories		02-129 to 135
Electrical Tape		02-136
Wireless Phone Chargers		02-136 to 137

Sierra Horn Buttons

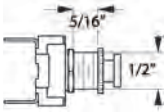

MP39690

- Normally OFF ♦ Momentary ON
- 15A @ 12VDC
- Mounts in 1/2" diameter hole
- 1/4" quick connect male terminals

SIE MP39680 Black
SIE MP39690 Red

Sea-Dog Horn Buttons


420416-1



- Normally OFF ♦ Momentary ON
- Nylon/phenolic & chrome plated brass construction
- Rated 15A @ 12VDC
- Black button

SED 420415-1 Red
SED 420416-1 Black

Sierra Horn Button



- Normally OFF ♦ Momentary ON
- Chrome brass, black button
- Rated 5A @ 12VDC
- Bubble pack
- Mount width: 2-3/16"

SIE MP39300

Sea-Dog Horn Button



- Normally OFF ♦ Momentary ON
- Chrome plated brass, black button
- Rated 12A@ 12VDC
- Button width 1-5/8", Overall width: 2-9/16"
- Mount width: 2-1/8"
- Use 2x #10 RH fasteners

SED 420429-1 Off-On

Perko Push Button Switch



- Push ON ♦ Push OFF
- Rated 10A @ 12, 24 & 32VDC
- Black plastic with weather resistant cover
- Will fit a panel up to 1/8"
- This switch is not ignition protected
- Neck diameter is 3/8"

PER 701-DP

Blue Sea Systems Panel Mounted Push Button



- Normally OFF ♦ Momentary ON, SPST
- For applications such as starters, bilge pumps, horns, wipers, etc
- Easily mounts into standard 5/8" circuit breaker mounting hole
- Tin plated brass and phenolic non-corrosive construction

BSS 8200

Blue Sea Systems LED 15A Push Button Backlit Switches



- Backlit button is blue when OFF and red when ON
- IP 67 rated
- 15A @ 12VDC
- Max Panel Thickness: 1/16"- 1/4"
- Mounting Hole: 7/8"
- Dia: 1" x Depth: 1-7/8"
- Wire Size: 18-16 AWG
- Terminals: 3" bare pigtails
- Five ICON labels included: Accessory, Lights, Anchor Light, Running Light, and Bilge Pump

BSS 4180 Off-On
BSS 4181 Off- (On)

Blue Sea Systems LED 10A Ring Push Button Switches





- IP67 rated
- 10A @ 12VDC
- Max Panel Thickness: 1/16"- 5/16"
- Mounting Hole: 3/4"
- Dia: 7/8" x Depth: 1"
- Installs with 7/64" quick connects (included)

BSS 4160 Off-On, Blue
BSS 4161 Off-(On), Blue
BSS 4162 Off-On, Red
BSS 4163 Off-(On), Red

Seadog LED On/Off Switch



- Comes prewired for ease of installation
- Typically wired so LED ring lights up blue when circuit is energized
- IP65 rating, 10-24VDC, 5A max
- Formed 304 stainless steel
- Dia: 7/8" x Depth: 7/8" x Cutout: 3/4"

SED 403063-1 Off-On

Sea-Dog LED On/Off Switch



- Comes prewired for ease of installation
- Typically wired so LED centre lights up blue when circuit is energized
- IP66 rating, 10-24VDC, 20A max
- Aluminum with clear water resistant nylon boot
- Dia: 1-3/16" x Depth: 1-7/16" x Hole Size: 7/8"

SED 403065-1 Off-On

Cole Hersee Push Button Switches



- Normally OFF ♦ Momentary ON, SPST
- Non-corrosive, gasket sealed case, stem, plunger and hardware
- Chrome buttons and face plates
- Fits panels up to 3/4"
- Rated 10A @ 12VDC
- Mounting stem: 5/8"-32 thread x 1"

COH M-485 Boxed
COH M-485-BP Blister packed

Cole Hersee Push Button Switch

- Normally OFF ♦ Momentary ON, SPST
- Non-corrosive, moisture repellent brass case, stem, plunger and hardware
- Chrome buttons and face plates
- Fits panels up to 1"
- Rated 10A @ 12VDC
- Mounting stem: 5/8"-32 x 1-3/8"



COH M-492-BP Blister packed

Cole Hersee
Extra Heavy Duty Push Button Switches

- Normally OFF ♦ Momentary ON, SPST
- Non-corrosive, moisture repellent brass case, stem, plunger and hardware
- Chrome buttons and face plates
- Fits panels up to 1"
- Rated 35A @ 12VDC
- Mounting stem: 5/8"-32 thread x 1-3/8"



M-490

COH M-490 Boxed
COH M-490-BP Blister packed

- Switch with plunger button shielded by nut



M-612

COH M-612-BP Blister packed

- Switch with snap-on black rubber cover over button



M-626

COH M-626 Boxed
COH M-626-BP Blister packed

Cole Hersee Push Button Switch

- Normally ON ♦ Momentary OFF, SPST
- Gasket sealed case protects against moisture and dust
- Mounting stem 5/8" - 32 thread
- Fits panels up to 3/4" thick



COH M-639 Boxed

Cole Hersee Push Button Switches

- Normally OFF ♦ Momentary ON
- Imprinted buttons for engine control
- Face nut has built-in "lip" seal for weatherproof protection
- Silver contacts
- Fits panels up to 0.1"
- Mounting stem: 7/8"-24 thread



Front

COH 90047-01 "Engine Start", Black
COH 90048-01 "Engine Stop", Red

Cole Hersee Push Button Switches

- Normally OFF ♦ Momentary ON, SPST
- Non-corrosive, moisture repellent brass case, stem, plunger and hardware
- Chrome buttons and face plates
- Black rubber cover over button
- 2 x 12" 18 awg wire leads
- Fits panels up to 1/2"
- Rated 10A @ 12VDC
- Mounting stem: 5/8"-32 thread x 15/16"



COH M-608 Boxed
COH M-608-BP Blister packed

Cole Hersee Rubber Caps

- Cap embossed "push" is permanently fastened to the mounting nut
- Fits all Cole Hersee momentary push button switches with a 5/8" - 32 threaded mounting stem



COH 83280-02 Red
COH 83280-03 Black

Cole Hersee Rubber Cap

- Moisture repellent rubber cover
- Embossed "Push"
- Fits Cole Hersee switches M-524, M-608, M-626

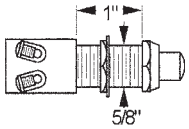


COH 407-03-BP Black

Sea-Dog Push Button Switch

- Normally OFF ♦ Momentary ON
- Stamped brass construction
- Rated 15A @ 12VDC
- Fits 5/8" hole
- No cap





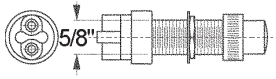
SED 420420-1

Spare parts:
SED 420424-1 Black waterproof cap
SED 420425-1 Red waterproof cap

Sea-Dog Push Button Switch

- Normally OFF ♦ Momentary ON
- Polypropylene construction
- Boss 2 terminals
- Rated 15A @ 12VDC
- Max panel thickness 1-1/8"





SED 420427-1

Sea-Dog 'Splash Garde' Switch

- Normally OFF ♦ Momentary ON
- Horn button
- Rated 15A @ 12VDC
- Mounting stem: Dia 5/8" x L: 13/16"



SED 420426-1

Sierra Push Button Switch

- Normally OFF ♦ Momentary ON
- Solid brass housing, chromed brass face plate and nut
- Mounting stem is 1-1/4" long x 5/8" in dia. and fits panels to 1" thick
- Rated 15A @ 12VDC
- 2 screw terminal



SIE MP39310

Sierra Heavy Duty Push Button Switch

- Normally OFF ♦ Momentary ON
- Marine quality, glass filled polyester housing, ultrasonically welded
- Rubber, moisture and dust proof boot nut included
- 1-3/16" x 5/8" mounting stem
- Rated 30A @ 12VDC



SIE MP39160



75212



75228

Cole Hersee
Windshield Wiper Rotary Switches

- For one motor, 12V or 24V DC
- Black plastic knob with metal insert and set screw, white imprint
- Mounting stem: 7/16" - 28 thread

COH 75212-04 w/o dynamic parking, 4 blade terminals, plated steel case 1-3/8"diameter, 3/8" long, mounting stem .38" long

COH 75228-03 w/dynamic parking, 6 blade terminals, diecast case 1-5/8" diameter, mounting stem 45" long

Cole Hersee
Heavy Duty Windshield Wiper Switches

- 4 positions: Off/Park - Intermittent Range - Low - High
- Push knob to activate washer pump circuit-1 to 3 wipes after knob is released
- 2-7/32" square, 13/16" long



Electronic Wiper Switch

For negative ground permanent magnet wiper motors without dynamic parking, such as United Technologies motors.

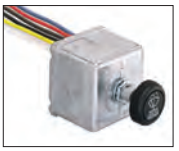
- Controls 2 motors
- Termination: Plug in Packard 8 way male connector

COH 75601-14 12V

Microprocessor Controlled Electronic Wiper Switch

For negative ground permanent magnet wiper motors with or without dynamic parking

- Controls 1 motor
- Termination: Six colour coded 5" long 14 ga. wire leads
- Stem diameter: 7/16"



COH 75600-04 12V

Marinco
Electronic Wiper Controls



- Intuitive automotive style functionality
- IP67 potted construction for harsh environment durability
- Single and dual speed options
- Single & synchronized double motor functionality
- Compatible with 12/24V DC motors
- Easy to use with included Contura switch, and easy to install with 1/4" spade connectors

MAR 76080 Dual speed

MAR 76090 Single speed

Marinco
Intelligent Wiper Switch



- Settings for two continuous speed functions and three intermittent speed functions (2, 4 or 8 second delay)
- Washer system operation function
- Blinking LED indicates operating function
- Works with 12V or 24V DC motors
- Fits standard switch size openings, requires 2.65" depth
- Includes one ten pole connector with female pins and two female quick-connects

MAR 76030

Seadog
Synchronized Wiper Control



- Synchronizer will sync up to three motors and adds an interval speed position to the traditional two-speed motor
- One short push takes the motors from interval, to slow, then to fast speed
- One long push activates the primary motor only
- Capable of operating a washer system
- Kit includes: synchronized controller, switch, and 5' wiring harness
- Overload protected and CE Approved
- Powder coated aluminum & S/S control box: 4-7/16" x 4-3/8"

SED 414800-3 12V

Sierra Roto Switches



78720

- Each switch is supplied with a blank knob with a frosted clear indicator
- When used with the (optional) light modules the indicator glows with colour to indicate control status
- Roto switches mount in most panels currently using toggle switches with only minor modifications
- All Roto switches are described with the "OFF" position at 12 o'clock for clarity

Part #	45° Counter Clockwise	12 O'clock	45° Clockwise	90° Clockwise
SIE MP78710	-	OFF	ON	-
SIE MP78720	-	OFF	(ON)	-
SIE MP78730	ON	OFF	ON	-
SIE MP78830	-	OFF	ON	ON (1 & 2)

( ) = Momentary

Accessories:

SIE MP78870 Illumination module, 2 lens / 2 position switches. 1st position, clear, 2nd position, red

SIE MP78950 * Illumination module - 4 lens for 4 position switches.1st position Black - 2nd position Clear - 3rd position Red - 4th position Red

* Special Order - may have stock

Cole Hersee Push-Pull Switches

- Brass case, stem, terminals and mounting hardware
- Mount stem 3/8"-32 thread, 1-1/4" long, fits panels up to 3/4" thick
- Rated 10A @ 12VDC for 6 - 36V applications

Part #	Package	Action	Pole/Throw	Terminals	Knob	Features
One Circuit						
COH M-482	Bulk	OFF ♦ ON, Normally Off	SPST	2	Chromed brass	Gasket sealed case
COH M-482-BP	Blister pack					
COH M-628	Bulk	OFF ♦ ON, Normally Off	SPST	2	Chromed brass	
COH M-628-BP	Blister pack					
Two Circuit						
COH M-531-BP	Blister pack	OFF ♦ ON-1 ♦ ON-2	SPST	3	Chromed brass	
COH M-630	Bulk	ON ♦ ON	SPDT	3	Chromed brass	
Three Circuit						
COH M-532-BP	Blister pack	OFF ♦ ON-1&2 ♦ ON-1&3	SPDT	4	Chromed brass	


M-482


M-531


M-532

Sierra Push-Pull Switches

- Solid brass construction
- Rated 15A @ 12VDC
- 3/8" dia. stem. fits panels up to 1" thick

Part #	Action	Pole/Throw	Terminals	Knob
SIE MP39510	OFF ♦ ON	SPST	2	Cream plastic
SIE MP39520	OFF ♦ ON	SPST	2	Chromed plastic
SIE MP39610	OFF ♦ ON-1 ♦ ON-2&3	SPDT	4	Chromed plastic


MP39610


MP39510

Cole Hersee Push-Pull Switches



- Normally "OFF" SPST 2 positions: OFF ♦ ON
- Non-corrosive construction & moisture repellent insulator
- Brass case, stem, terminals and mounting hardware with plasticized body sealed against moisture and dirt
- Mount stem 3/8"-32 thread, fits panels to 5/8" thick
- Rated 10A @ 12VDC for 6 - 36V applications
- Chrome face plate and knob
- 18 AWG 12" leads

COH M-606 Boxed
COH M-606-BP Blister packed

Sea-Dog Push-Pull Switches


420390

- Stamped Brass
- Panels up to 1" thick
- Stem diameter: 3/8"
- Rated 15A @ 12VDC

Part #	Action	Pole/ Throw	Terminals
SED 420390-1	ON ♦ OFF	SPST	2
SED 420400-1	OFF ♦ ON-1 ♦ ON-2	SPDT	4
SED 420410-1	OFF ♦ ON-1 ♦ ON-1&2	SPDT	3

Sea-Dog Splash Guard Switch



- ON ♦ OFF Switch
- PVC coating protects terminals and switch from water
- Not designed for immersion
- Rated 15A @ 12VDC
- Stem Diameter: 3/8" x 1"

SED 420396-1

Sierra Weather Resistant Push-Pull Switch



- 2 - Position OFF ♦ ON
- Rated 15A @ 12VDC
- 3/8" dia. stem, fits panels up to 1" thick
- Chrome plastic knob
- Pre- wired with two 12" long 18 ga. wire leads
- Vinyl coated for added moisture and dust resistance
- Brass construction

SIE MP39390

BEP Heavy Duty Toggle Switch

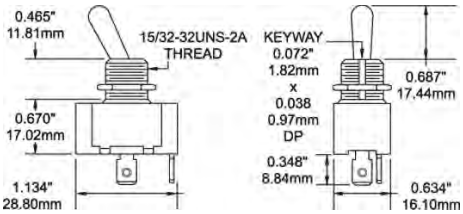


- ON ♦ OFF
- Can be used for switching circuits such as lighting and instruments
- Ideally suited to flush mounting
- Rated 20A @ 12/24VDC, 10A @ 230VAC
- 15/32" long x 15/32"-32 stem

BEP 32111

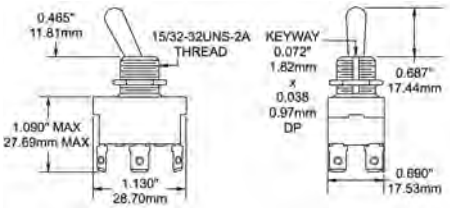
Blue Sea Systems WeatherDeck Toggle Switches

- Specially manufactured by Carling for WeatherDeck Panels
- Nickel-plated brass and phenolic non-corrosive construction
- Rated 15A @ 12VDC
- 1/2" dia cutout





4150





4155

Part	Action	Pole/Throw	Rating
BSS 4150	OFF ♦ ON	SPST	10A @ 250VAC 15A @ 125VAC 15A @ 12VDC
BSS 4151	OFF ♦ (ON)	SPST	
BSS 4152	ON ♦ OFF ♦ ON	SPDT	
BSS 4153	(ON) ♦ OFF ♦ ON	SPDT	
BSS 4154	(ON) ♦ OFF ♦ (ON)	SPDT	
BSS 4155	ON ♦ OFF ♦ ON	DPDT	5A @ 30VDC

Parts:
BSS 4138 Waterproof boot ( ) = Momentary

Blue Sea Systems Panel Mounted Toggle Switches



8204

- Rated 15A @ 125VAC
- Rated 10A @ 250VAC
- Rated 15A @ 32VDC
- For applications such as starters, bilge pumps, wipers, lights, etc.
- Easily mounts into standard 5/8" circuit breaker mounting hole.
- Nickel plated brass and phenolic non-corrosive construction.

Part #	Action	Pole/Throw
BSS 8204	OFF ♦ ON	SPST
BSS 8205	OFF ♦ (ON)	SPST
BSS 8206	ON ♦ OFF ♦ ON	SPDT
BSS 8207	(ON) ♦ OFF ♦ ON	SPDT
BSS 8210	(ON) ♦ OFF	DPST
BSS 8211	ON ♦ OFF ♦ ON	DPDT
BSS 8212	(ON) ♦ OFF ♦ ON	DPDT

( ) = Momentary

Cole Hersee Toggle Switches



M-493



M-584

- OFF ♦ ON, SPST
- Phenolic housing with plated steel frame
- Chrome plated brass handle
- Key way in down position
- Rated 10A @ 12VDC
- Mount stem 15/32"-32 thread
- Fits panels up to 9/32" thick

- Silver contacts or 2 x 6" x 18 awg wire leads
- Standard handle: 11/16" long
- Ball handle: 3/8" long

Part #	Handle	Terminals	Package
COH M-493-BP	Ball	2 screw	Blister packed
COH M-584	Standard	Wire leads	Boxed
COH M-584-BP	Standard	Wire leads	Blister packed

Cole Hersee Heavy Duty Toggle Switches

- Silver contacts
- Mounting stem 15/32", fits panels up to 1/4" thick
- Rated 25A @ 12VDC
- Rated 15A @ 24VDC
- Phenolic housing with plated steel frame
- Nickel plated brass handle stem and mounting hardware



55014



55021

Part #	Action	Pole/ Throw	Terminals
COH 55014-BP	ON-Up ♦ OFF-Down	SPST	2 Blade
COH 55020	OFF ♦ (ON)	SPST	2 Screw
COH 55021	(ON)-Up ♦ OFF ♦ (ON)-Down	SPDT	3 Screw
COH 55021-BP			
COH 55017	ON ♦ OFF	DPST	4 Blade
COH 55054	(ON) ♦ OFF♦ (ON)	DPDT	6 Screw

( ) = Momentary BP = blister packed

Cole Hersee Heavy Duty Toggle Switches



54100



54103

- Silver contacts, brass terminals
- Key way in stem
- Black nylon handle 11/16" long
- Finished nut is black painted brass
- Mount stem 15/32"-3/8" 15/32" long
- Fits panels up through 1/8" thick
- 25A @ 12VDC amp load
- 35A @ 12VDC inductive load
- Non-corrosive construction throughout: moisture repellent plastic housing

Part #	Action	Pole/ Throw	Terminals
COH 54100	ON ♦ OFF	SPST	2 Screw
COH 54100-BP			
COH 54103-BP	ON ♦ OFF ♦ ON	SPDT	3 Screw

BP = Blister packed

Cole Hersee Heavy Duty Toggle Switch



- ON ♦ OFF ♦ ON, SPDT
- Rated 25A @ 12VDC
- Rated 15A @ 24VDC
- Mount stem 15/32"-32 thread
- Fits panels up to 9/32" thick
- Three 16 gauge wire leads 9.5" long with tinned brass terminals
- PVC coating seals out moisture and dust

COH 55036

Perko Toggle Switch



- OFF ♦ ON, SPST
- Nickel plated brass with a chrome plated face plate
- Max. panel thickness: 5/16"
- Neck diameter: 7/16"

PER 514-DP

Pico Toggle Switch

NEW



- ON ♦ OFF, SPST
- Vinyl dipped for protection against moisture, dust, and dirt
- UL1015 tinned wire
- Rated 25A @ 12V, 12A @ 24V
- 1/2" mount hole

PIC 9427-11

Sea-Dog Toggle Switch



- ON ♦ OFF, SPST
- Stamped brass
- Rated 15A @ 12VDC
- Stem length: 3/8" x Dia: 1/2"

SED 420465-1 Switch
SED 420479 Waterproof cap

Sea-Dog Toggle Switches



420101-1

- Water resistant
- Made from stamped brass
- Rated 15A @ 12VDC
- 3/8" long threaded neck
- 1/2" dia. mounting hole required

Part #	Action	Pole/Throw
SED 420101-1	ON ♦ OFF	SPST
SED 420102-1	(ON) ♦ OFF	SPST
SED 420103-1	ON ♦ OFF ♦ ON	DPDT
SED 420103	ON ♦ OFF ♦ ON	DPDT
SED 420104-1	(ON) ♦ OFF ♦ (ON)	DPDT
SED 420109-1	(ON) ♦ OFF ♦ (ON)	SPDT
SED 420479-1	Waterproof Cap	

-1 Denotes blister packed
( ) = Momentary

Sea-Dog Two Position 'Long' Toggle Switch



- ON ♦ OFF, SPST
- Stamped brass
- Molded bakelite
- Mounting stem Dia: 7/16" x Depth: 7/16"
- Blade terminals
- Not rated

SED 420460-1

Sea-Dog Light Tip Toggle Switches



- Rated 15A @ 12VDC
- Stamped brass/injection molded nylon /polycarbonate
- Stem diameter: 3/8"
- Stem length: 1/2"

SED 420121-1 SPST, On/Off, 4 blade
SED 420123-1 SPDT, On/Off/On, 5 blade

Sierra Illuminated Toggle Switch



- ON ♦ OFF, SPST
- Handle illuminates red in ON position
- Black plastic bezel nut
- Mounts in 1/2" hole
- Three spade terminals
- Rated 15A @ 12VDC

SIE TG21360 Red

Sierra Heavy Duty Toggle Switch



- ON ♦ OFF, SPST
- Zinc die-cast construction
- Chrome plated plastic handle w/metal core
- Rated 50A @ 12VDC
- 15/32" long x 15/32"-32 stem

SIE TG21500

Sierra Toggle Switch



- ON ♦ OFF, SPST
- Chrome plated handle
- Two 6" wire leads
- 15/32" long x 15/32"-32 mounting stem
- Rated 6A @ 125VAC
- Rated 35A @ 12VDC

SIE TG21050-1 Bubble packed

Sierra Tip Lit Toggle Switches



TG40320

- Rated 20A @ 12VDC
- Illuminated tip, Red ON/White OFF
- 15/32" L x 15/32-32 stem

Part #	Action	Pole/Throw	Terminals
SIE TG40300	OFF ♦ ON	SPST	4 spade
SIE TG40320	ON ♦ OFF ♦ ON	SPDT	5 spade
SIE TG40330	(ON) ♦ OFF ♦ (ON)	SPDT	5 spade
SIE TG19520	ON ♦ OFF ♦ ON	DPDT	8 spade

( ) = Momentary

Sierra Toggle Switch



- ON ♦ OFF, SPST
- Rated 20A @ 12VDC
- All brass construction
- Chrome plated handle
- Mount stem 3/8" long x 7/16"-28 stem
- Two screw terminal

SIE TG40000

Sierra Plastic Toggle Switches


TG21130

- Plastic construction
- 1" black molded bat handle
- 1/2" diameter hole
- Rated 15A @ 12VDC

Part #	Action	Pole/Throw	Terminals
SIE TG21130	ON ♦ OFF	SPST	2 spade
SIE TG21140	ON ♦ OFF ♦ ON	SPDT	3 spade

Sierra Plastic Toggle Switches


TG40020

- Black plastic toggle and locking ring
- Sealed to resist water penetration
- Rated for 20A @ 12V
- 1/4" spade terminal
- Fits panels up to 1/4" thick
- 7/16" dia. stem

Part #	Action	Pole/Throw
SIE TG40020	ON ♦ OFF	SPST
SIE TG40030-1	OFF ♦ (ON)	SPST
SIE TG40040-1	ON ♦ OFF ♦ ON	SPDT
SIE TG40050-1	(ON) ♦ OFF ♦ (ON)	SPDT
SIE TG40160	ON ♦ OFF ♦ (ON)	SPDT
SIE TG40460-1	(ON) ♦ OFF ♦ (ON)	DPDT

( ) = Momentary

Sierra Plastic Toggle Switches



- Lights through tip of handle
- Illuminates white when panel lights are on, changes to red when switch is on
- Satin chrome handle with matching retaining ring
- Rated for 20A @ 12V
- 1/4" spade terminal
- Fits panels up to 1/4" thick, 13/32" dia. stem

Part #	Action	Pole/Throw
SIE TG23000	ON ♦ OFF	SPST
SIE TG23020	ON ♦ OFF ♦ ON	DPST

Cole Hersee Toggle Boot Seals



- Completely covers toggle handle
- Accommodates toggle handles up to 11/16" long with a 15/32" - 32 mounting stem

COH 81264 Boxed
COH 81264-BP Blister packed



- Allows toggle handle to protrude while sealing the switch from weather
- Accommodates toggles regardless of length with a 15/32" - 32 mounting stem

COH 81255 Boxed
COH 81255-BP Blister packed

Sierra Toggle Boots


MP39210

- Boot nut seals for push to reset circuit breakers #41200-41240
- Clear

SIE MP39210


MP39280

- Weatherproof, two piece boot seals out moisture and dust
- Fits most short handle toggle switches with a 15/32" - 32 mounting stem

SIE MP39280 Two piece, boot & nut, Black
SIE MP39240 One piece, boot & nut integral, Black


MP39240

- Weatherproof boot nut - fits switches 40060, 40080, 40090, 40300, 40310, 40320, 40330 & 40340
- 1/2" length boot seals out moisture yet allows illumination to show

SIE MP39220 Two piece, boot & nut, Grey


MP39220

Blue Sea Systems LED Contura II Switches



- Vibration, shock, thermoshock, moisture and salt spray resistant
- Mounts in Contura water resistant panels
- Actuator Position to Light LED: ON
- Rated 20A @ 12VDC
- Cutout: 1.45" x .83"

Part #	Action	Pole/Throw
BSS 7929	OFF ♦ ON	SPST
BSS 7931	ON ♦ OFF ♦ ON	SPDT
BSS 7932	(ON) ♦ OFF ♦ ON	SPDT
BSS 7934	OFF ♦ ON	DPST
BSS 7936	ON ♦ OFF ♦ ON	DPDT
BSS 7937	(ON) ♦ OFF ♦ ON	DPDT
BSS 7939	ON ♦ ON	DPDT
BSS 7943	ON ♦ OFF ♦ (ON)	SPDT

( ) = Momentary

Blue Sea Systems Contura II Switches



- Vibration, shock, thermoshock, moisture and salt spray resistant
- Mounts in Contura water resistant panels
- Rated 20A @ 12VDC
- Cutout: 1.45" x .83"

Part #	Action	Pole/Throw
BSS 7930	OFF ♦ (ON)	SPST
BSS 7933	(ON) ♦ OFF ♦ (ON)	SPDT
BSS 7935	OFF ♦ (ON)	DPST
BSS 7938	(ON) ♦ OFF ♦ (ON)	DPDT

( ) = Momentary

Blue Sea Contura Water Resistant Dimmer Switches


8291

- Mounts in Blue Sea Systems' water resistant panels
- Legend - BRIGHT and DIM
- Contura switch mounting panel and accessories
- For use with BSS digital dimmers
- Rated 20A @ 12VDC
- Rated 15A @ 24VDC
- Mounting Hole: 1.45"x0.83" (36.83mm x 21.08mm)

Part #	Action	Pole/Throw	Colour
BSS 8216	(ON) ♦ OFF ♦ (ON)	SPDT	Grey
BSS 8291	(ON) ♦ OFF ♦ (ON)	SPDT	Black

( ) = Momentary

Blue Sea Systems Waterproof Contura Switches


8230

- Vibration, shock, thermoshock, moisture and salt spray resistant
- Specially manufactured for mounting in Blue Sea Systems' water resistant panels
- Ignition Protected - Safe for installation aboard gasoline powered boats
- Meets UL1500 and ISO8846 ignition protection requirements

Grey	Black	Action	Pole/ Throw	LED's
BSS 8230	**BSS 8282**	OFF ♦ ON	SPST	1
BSS 8231	**BSS 8292**	OFF ♦ (ON)	SPST	0
BSS 8232	**BSS 8283**	ON ♦ OFF ♦ ON	SPDT	2
BSS 8233	**BSS 8284**	(ON) ♦ OFF ♦ ON	SPDT	1
BSS 8234	**BSS 8285**	(ON) ♦ OFF ♦ (ON)	SPDT	0
-	**BSS 7945**	(ON) ♦ OFF ♦ ON	SPDT	1
-	**BSS 8287**	OFF ♦ ON	DPST	1
-	**BSS 8288**	OFF ♦ (ON)	DPST	0
BSS 8275	-	ON ♦ ON	DPDT	2
BSS 8220	**BSS 8286**	ON ♦ OFF ♦ ON	DPDT	2
-	**BSS 8289**	(ON) ♦ OFF ♦ ON	DPDT	1
	BSS 8290	(ON) ♦ OFF ♦ (ON)	DPDT	0

( ) = Momentary / LED for the 7945 only is lit in the (ON) position

Rating: 12VDC 20A
Rating: 24VDC 15A
Lighted ..... LED rated 100,000 hours 1/2 life
Seals ..... Internal and external gasket panel seal
Temp. Rating ..... -40°C to 85°C
Mounting Hole ..... 1.45"x0.83" (36.83mm x 21.08mm)
LED Amperage ..... 18 Milliamperes

Blue Sea Contura Water Resistant Dimmer Switches


8291

- Mounts in Blue Sea Systems' water resistant panels
- Legend - BRIGHT and DIM
- Contura switch mounting panel and accessories
- For use with BSS digital dimmers
- Rated 20A @ 12VDC
- Rated 15A @ 24VDC
- Mounting Hole 1.45"x0.83" (36.83mm x 21.08mm)

Part #	Action	Pole/Throw	Colour
BSS 8216	(ON) ♦ OFF ♦ (ON)	SPDT	Grey
BSS 8291	(ON) ♦ OFF ♦ (ON)	SPDT	Black

( ) = Momentary

Blue Sea Systems Contura Switch Actuators



- Mounts on Blue Sea Systems' Contura switch
- Constructed of thermal plastic polycarbonate with a hard nylon surface overlay
- With or without an embedded LED
- Black

BSS 8294 With LED
BSS 8296 No LED

Blue Sea Systems Mounting Panels


8278

- Mounting panels available in 1, 3, and 6 fixed position models
- Designed for mounting in 6 different panel thicknesses: 0.06", 0.09", 0.13", 0.19", 0.25", 0.38"

BSS 8268 Single position
BSS 8259 3 position
BSS 8260 6 position
BSS 8266 Centre bracket
BSS 8267 End bracket
BSS 8278 Panel plug


8267 8266 8268

Sea-Dog Contura Switch



- Stamped brass, injection molded nylon
- Rated 20A @ 12VDC
- Cutout: 1-7/16" x 13/16"

Part #	Action	Pole/Throw
SED 420201-1	ON ♦ OFF	SPST

Sea-Dog Illuminated Contura Switches



- Stamped brass, injection molded nylon
- Rated 20A @ 12VDC
- Cutout: 1-7/16" x 13/16"

Part #	Action	Pole/Throw
SED 420211-1	ON ♦ OFF	SPST
SED 420213-1	ON ♦ OFF ♦ ON	SPDT

Sea-Dog Large Rocker Switches


420241-1

- Stamped brass, injection molded nylon and polycarbonate
- Rated 15A @ 12VDC
- Cutout: 1-7/8" x 7/8"

Part #	Action	Pole/Throw
SED 420241-1	OFF ♦ ON	SPST
SED 420243-1	ON ♦ OFF ♦ ON	DPDT
SED 420248-1	ON ♦ OFF ♦ ON	SPDT

( ) = Momentary

Sea-Dog Rocker Switches


420441-1

- Stamped brass, injection molded nylon and polycarbonate
- Rated 15A @ 12VDC
- Cutout: 1-1/8" x 1/2"

Part #	Action	Pole/ Throw	Light
SED 420441-1	ON ♦ OFF	SPST	Red when On
SED 420443-1	ON ♦ OFF ♦ ON	SPDT	Non Illuminated

Sea-Dog Illuminated Red Rocker Switches


420251-1

- Stamped brass, injection molded nylon and polycarbonate
- Rated 15A @ 12VDC
- Cutout: 1-7/16" x 7/8"

Part #	Action	Pole/Throw
SED 420251-1	ON ♦ OFF	SPST
SED 420253-1	ON ♦ OFF ♦ ON	DPDT

( ) = Momentary

Sea-Dog Illuminated Rocker Switch



- Weather resistant injection molded nylon and polycarbonate housing
- Illuminates red when in ON position
- Rated 15A @ 12V
- Cutout: 1-1/8" x 1/2"

SED 420446-1 On ♦ Off, SPST

Sierra Standard Rocker Switches


RK40100

- Rated 20A @12VDC
- Polyester construction
- Requires 27/32" x 1-29/64" cutout

Part #	Action	Pole/Throw
SIE RK40140	OFF ♦ ON	SPST
SIE RK40170	ON ♦ OFF ♦ ON	SPDT
SIE RK40350	(ON) ♦ OFF ♦ (ON)	SPDT
Illuminated		
SIE RK40100	OFF ♦ ON	SPST
SIE RK40120	OFF ♦ (ON)	SPST

( ) = Momentary

Sierra Illuminated Rocker Switch



- ON ♦ OFF, SPST
- Rated 16A @ 12V
- Mounts in 1/2" round hole
- Illuminated in On position
- Three male spade terminals
- 3/4"W x 1-1/4"H

SIE RK21420 Red

Sierra Contura II Rocker Switches


RK19400-1

- Black face
- Modern styling, oversized switch
- Rated 20A @ 12VDC
- Requires 27/32" x 1-29/64" cutout

Part #	Action	Pole/Throw
SIE RK19400-1	OFF ♦ ON	SPST
SIE RK19410-1	OFF ♦ (ON)	SPST
SIE RK19480-1	(ON) ♦ OFF ♦ (ON)	DPDT
SIE RK19490-1	ON ♦ OFF ♦ ON	DPDT
Illuminated		
SIE RK19440-1	OFF ♦ ON	SPST
SIE RK19460-1	ON ♦ OFF ♦ ON	SPDT

( ) = Momentary

Sierra Soft Spot Rocker Switches


RK40400

- Rated 20A @ 12VDC
- Illuminated white when panel lights are on, red when switch is on
- Requires 27/32" x 1-29/64" cutout

Part #	Action	Pole/Throw
SIE RK40370	OFF ♦ ON	SPST
SIE RK40390	ON ♦ OFF ♦ ON	SPDT
SIE RK40400	(ON) ♦ OFF ♦ (ON)	SPDT

( ) = Momentary

Sierra Rocker Switch Mount



- Interlocking sections make it easy to install rocker switches into any panel
- Snap together without tools

SIE UN19710 Middle section

Sea-Dog Wall Switches



- Switches come with SPST switch(es) and have a stainless steel face plate
- Rated 15A @ 12VDC (per switch)
- Uses #6 RH fasteners

SED 403010-1 Single 2" x 2-1/2"
SED 403020-1 Double 2-1/2" x 2-1/2"

BEP Contour Interior Switch



- ON ♦ OFF two button switch
- Can be surface or recess mounted in a vertical or horizontal position
- Black
- Rated 10A @ 12V
- Backlit label with "Systems On" indicator
- Switch plate (mm) L: 91 x W: 30 x H: 17

BEP 1101-BK

Seadog LED
Motion Sensor Switch

- Can be used to activate LED and incandescent lights
- The motion detection range is up to 15 feet, with an activation angle of 120°
- Activation time is adjustable from 10 to 70 seconds
- 2A max, 12-30VDC
- IP67 waterproof rating
- Depth: 1-9/16" x Cutout: 7/8" x Dia: 1-1/16"



SED 403066-1

Cole Hersee Dimmer Switch



- Variable control of interior lights
- Duty cycle 1-99%
- 7/16"-28 thread, 1-9/16" long
- Two wire lead
- Rated 7A @ 12VDC

COH 74601-01

Lunasea LED
RF Dimmer - Dual Zone



- Wall mount
- Tempered glass with capacitive touch
- 256 step dimming
- Backlit display
- Control range of 20 meters
- 12/24 VDC
- Requires LLB-45RR-91-00 receiver for each zone
- 3.38" x 3.38"

LUN LLB-45RX-91-00

Lunasea LED
RF Dimmer - Receiver

Receiver allows for hookup to manual normally open switch for local dimming in addition to remote control.



- 8A output
- Transmits up to 20 meters (65 feet)
- 1-100% dimming control (256 step)
- 12/24/32 volts systems
- External connection for physical switch
- Size: L: 85 x W: 37 x H: 20 mm

LUN LLB-45RR-91-00

Lunasea LED
RF Dimmer Transmitter & Receiver Kit



- 8A output
- Control range of 20 meters
- 12/24/32 volt systems
- External connection for physical switch

LUN LLB-45RU-91-K1

Lunasea LED
RF Dimmer - 1 Zone Tape Mount



- An easy and convenient touch interface with smooth dimming functionality
- Easily mounts anywhere with no wiring required
- Control range of 20 meters
- Reliable touch and dimming
- Each remote can be set to all receivers
- Battery: CR2025 Disc
- 32 mm x 9.8 mm

LUN LLB-45RT-01-00

Seadog LED
Touch Dimmer Switch



Short press to turn on and off, then a longer press to activate the dimming/brightening function. Memory function turns the light back on at the same brightness level as when it was turned off. Off - LED ring is orange, maximum bright LED ring is green, lowest light level - purple, in between stages are shades of blue.

- Stainless steel
- 12VDC
- Depth: 7/8" x Cutout: 3/4"

SED 403060-1

Blue Sea Systems Digital Dimmers

- Illuminated exit with adjustable time delay
- Digitally controls dimming of non-regulated LEDs, incandescent, and halogen lights
- Memory for last setting
- Continuous voltage control from 0 to 100% of input voltage
- Offset mounting tabs for tight mounting
- Retail packs; include momentary (ON)-OFF-(ON) switch
- 3.5" x 3.5"



- Nominal voltage: 12VDC

BSS 7506	6A, with switch
BSS 7506B	6A, no switch
BSS 7507	12A, with switch
BSS 7508	25A, with switch

- Nominal voltage: 24VDC

BSS 7504	6A, with switch

► *Also See* Light Remote Controllers pg 01-028

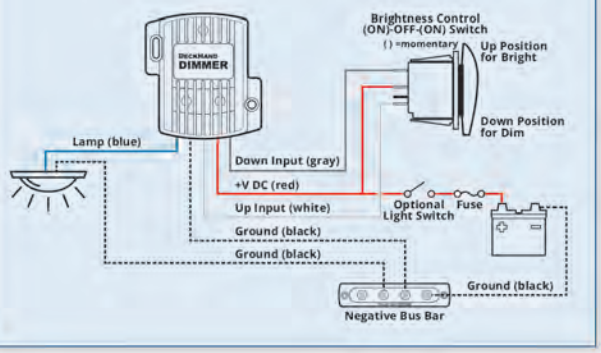
TECH tip

Illuminated Exit

Using the illuminated exit feature:

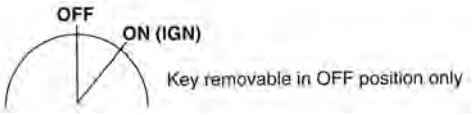
One minute delay: Hold the switch in up position for 2 seconds, lights will flash. Release switch after first flash and the lights will remain on for 1 minute.

Two to five minute delay: Hold the switch in up position for 1–4 seconds after the first flash. Release the switch after 2 to 5 flashes. The lights will remain on for 1 minute for each flash up to a maximum of 5 minutes.



Cole Hersee 2-Position Ignition Switches

- OFF ♦ ON
- 2 Screw terminal
- 10A @ 12V



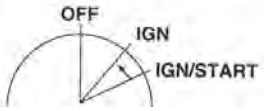

M-489


M-497

Part #	Packaging	Material	Max Panel Thickness	Stem Dia x Length	Face Nut	Type
COH M-489	Bulk	Brass	1"	13/16"-24 x 1-7/32"	Chromed brass	Removable Key
COH M-489-BP	Blister packed					
COH M-497	Bulk	Brass	7/8"	1/2"-20 x 1-1/4"	Chromed brass	Lever

Cole Hersee 3-Position Ignition Switches

- OFF ♦ IGN ♦ IGN/START
- 3 screw terminals
- 10A @ 12V



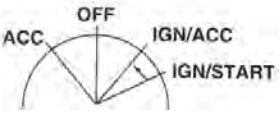

M-550


M-711

Part #	Packaging	Material	Max Panel Thickness	Stem Dia x Length	Face Nut
COH M-550	Bulk	Brass	1"	13/16"-24 x 1-7/32"	Chromed brass
COH M-550-BP	Blister packed				
COH M-711	Bulk	Die Cast	7/8"	3/4"-20 x 13/16"	Knurled Aluminum

Cole Hersee 4-Position Ignition Switches

- ACC ♦ OFF ♦ IGN/ACC ♦ IGN/START
- Moisture repellent insulators
- Coded locks with 2 brass keys
- 4 brass terminals
- 6-36V application
- Rated 10A Accessory, 5A Ignition, 5A Start




M-712

Part #	Packaging	Material	Max Panel Thickness	Stem Dia x Length	Face Nut
COH M-712	Bulk	Brass	1"	13/16"-24 x 1-7/32"	Chromed brass
COH M-712-BP	Blister packed				

Sea-Dog 3-Position Ignition Switches

- OFF ♦ IGN ♦ START
- Diameter: 13/16"
- 3-Screw terminals
- No amp hour rating


420365-1

420360-1


420350-1

Part #	Material	Max Panel Thickness	Shaft	Rubber Cap	Face Nut
SED 420350-1	Brass	1-1/8"	Long	No	Hex brass
SED 420360-1	Polypropylene	1-1/8"	Long	No	Hex black plastic
SED 420361-1	Polypropylene	5/8"	Short	No	Hex black plastic
SED 420365-1	Polypropylene	1-1/8"	Long	Yes	Hex black plastic
SED 420366-1	Polypropylene	5/8"	Short	Yes	Hex black plastic

Parts:

SED 420399 Blank ignition key

Sea-Dog Polypropylene 4-Position Switches

- ACC ♦ OFF ♦ IGN ♦ START
- Diameter: 13/16"
- No amp hour rating


420379-1


420375-1

Part #	Max Panel Thickness	Shaft	Terminals	Rubber Cap	Face Nut
SED 420375-1	1-1/8"	Long	4 Screw	Yes	Hex black plastic
SED 420379-1	1-1/8"	Long	4 Blade	No	Hex black plastic

Parts:

SED 420399 Blank ignition key

Sierra Push-to-Choke 3-Position Ignition Switches

- Magneto OFF ♦ RUN ♦ START (Choke)
- Rated 15A @ 12V
- Diameter: 7/8"

Part #	Material	Max Panel Thickness	Terminals	Face Nut
SIE MP39760	Polyester	5/8"	5 screw tab, 1 boss screw	Hex black plastic
SIE MP41000	Polyester	5/8"	6 Screw tab	Hex black plastic
SIE MP41070-2	Polyester	5/8"	6 Colour coded wires	Hex black plastic
SIE MP51090	Polyester	5/8"	6 Colour coded wires	Hex black plastic


MP39760/41000


MP41070-2


MP51090

Sierra Polypropylene Ignition Switches

- 4 position ACC ♦ OFF ♦ IGN ♦ START
- Rated 15A @ 12V
- Hole diameter: 7/8"
- Maximum panel thickness: 1-1/8"

Part #	Terminals	Face Nut
SIE MP39800	4-blade terminals	Brass back-up nut and plastic face nut
SIE MP41040	4-screw tabs	Knurled plastic w/rubber cap


MP41040

Sierra HD 3-Position Ignition Switches

- Conventional ♦ OFF ♦ RUN ♦ START
- 3 screw tab terminals
- Rated 15A @ 12V
- Diameter: 7/8"

Part #	Material	Max Panel Thickness	Face Nut
SIE MP39060-1	Brass	1-1/8"	Hex chrome
SIE MP39200	Polyester	1-1/8"	Knurled plastic/rubber cap
SIE MP39780	Polyester	3/4"	Hex plastic
SIE MP41030	Polyester	5/8"	Knurled plastic/rubber cap


39060-1

39200


39780

41030

EMP Ignition Switch

- 3 position with "push to choke"
- 6 terminal connection
- Replaces Johnson/Evinrude 802136A1 crosses with Sierra MP39760

EMP 87-01946



Sea-Dog 3-Position Magneto Style Ignition Switch

- OFF ♦ IGN ♦ START
- Brass construction, long shaft
- Max. panel thickness: 1-1/8"
- 5 screw tab terminals
- Diameter: 13/16"
- No amp hour rating

SED 420351-1

Parts:

SED 420399 Blank ignition key



Sea-Dog 3-Position Magneto Style Push To Choke Ignition Switches

- OFF- IGN ♦ START ♦ CHOKE
- Polypropylene construction
- Max. panel thickness: 5/8"
- Short shaft
- Diameter: 13/16"
- No amp hour rating

SED 420381-1 6 screw
SED 420382-1 5 screw, 1 boss connector
SED 420383-1 6 wire connector





Sea-Dog 4-Position Ignition Switch

- ACC ♦ OFF ♦ IGN ♦ START
- Brass construction, long shaft
- Max. panel thickness: 1-1/8"
- 4 screw tab terminals
- Diameter: 13/16"
- No amp hour rating

SED 420356-1

Parts:

SED 420399 Blank ignition key



Sierra
Ignition Switch - Yamaha



- Control box 2 & 4 stroke
- Wiring matches factory colour code
- Replaces: 703-82510-12-00

SIE MP51020

Sierra
Ignition Switch - Yamaha



- Control box 2 & 4 stroke
- Push to choke
- Wiring matches factory colour code
- Replaces: 703-82510-43-00

SIE MP51040

Sea-Dog 4-Position
Magneto Style Ignition Switch



- ACC - OFF ♦ IGN ♦ START ♦ CHOKE
- Polypropylene construction
- Diameter: 13/16", short shaft for max. panel thickness: 5/8"
- Rated: Ignition 15A @ 12VDC, solenoid 30A @ 12VDC, choke 7A @ 12VDC, accessory 15A @ 12VDC
- Includes two keys
- Note: Push to choke

SED 420385-1

Airhead
Kill Switch Keys with Lanyard



- 6 keys to fit all Johnson, Evinrude, Mercury, Yamaha and Honda kill switches
- Equipped with a swivel snap hook to prevent tangles and rust-free stainless steel crimps

AIR BKS-6

Sierra Emergency Cut-Off Switches



40960 40970

In an emergency a quick pull on the lanyard stops the engine preventing a runaway.

SIE MP40960	Switch with straight lanyard
SIE MP40970-1	Switch with coiled lanyard
SIE MP28870	Switch with coiled lanyard (OMC 585134)
SIE MP40980	Spare lanyard for 40960 (straight)
SIE MP40990	Spare lanyard for 40970 (coiled)
SIE MP28880	Spare lanyard for 28870, (OMC)

Sea-Dog Safety Tether Switch



- Stamped brass, injection molded nylon and delrin (Magneto style, red cap)
- Dual circuitry allows kill switch to be wired for either ignition kill or magneto kill depending on the application

SED 420488-1	Universal kill switch
SED 420489-1	Lanyard only

Sea-Dog
Kill Switch Universal Lanyards



7-Key

- Fits Johnson, Evinrude, Mercury, Yamaha, Honda, Tohatsu, Suzuki and Nissan kill switches

SED 420495-1



10-Key

- Fits Johnson, Evinrude, Mercury, Yamaha, Honda, Tohatsu, Suzuki, Kawasaki, OMC and Nissan kill switches

SED 420496-1

Sea-Dog Kill Switch



- Stamped brass, injection molded nylon and delrin
- Includes coiled lanyard
- Magneto style, red cap: Circuit is normally open (not complete) with lanyard clip in place on switch
- When lanyard is pulled and clip is removed from switch, circuit is closed (complete)

SED 420486-1



Sea-Dog
Universal Kill Switch w/Floating Lanyard

- Stamped brass/injection molded nylon & delrin
- Dual circuitry allows kill switch to be wired for either ignition kill or magneto kill depending on the application

SED 420498-1	Complete
SED 420499-1	Lanyard only

Airhead
Ultimate Lanyard



- 4 keys to fit ALL brands: Sea Doo, Yamaha, Kawasaki, Honda, Polaris, Tiger Shark and Wet Jet
- Stainless steel key ring is also included
- Has a comfortable floating detachable wrist band, floating vest lanyard and high pitch pea-less whistle for emergencies
- A swivel snap hook keeps the cord from tangling

AIR UL-3

► *Warning*	*Test switch function before each use*

BLUE SEA SYSTEMS

Battery Management Wiring Schematics for Typical Applications

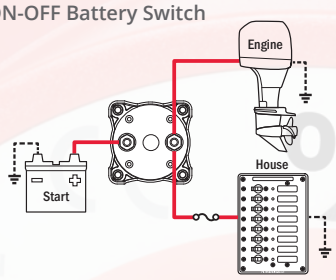
Batteries are at the heart of the electrical system found on any boat or vehicle. Proper battery management, including switching and charging, is essential for safe and reliable operation. The following wiring diagrams show how batteries, battery switches, and Automatic Charging Relays are wired together from a simple 1 battery - 1 engine configuration to a 4 battery - 2 engine - 1 generator system. For more detailed wiring guidelines please consult a qualified marine electrician or one of the many books available on the subject.

Note: The ACRs pictured are representative of any ACR. The battery switches are representative of any Battery Switch of the same model.

1 Battery - 1 Engine

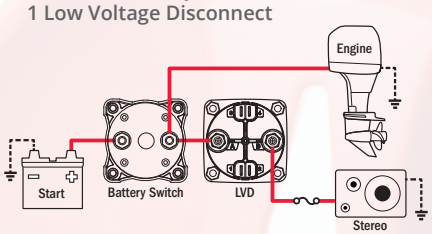
Switches a single battery to a single load group.

ON-OFF Battery Switch



Saves battery power for starting.

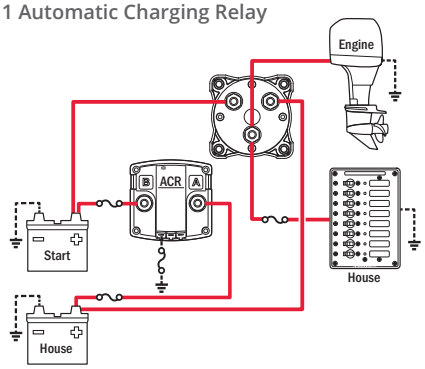
1 ON-OFF Battery Switch
1 Low Voltage Disconnect



2 Battery - 1 Engine

Switches isolated battery banks to all loads or combines battery banks to all loads.

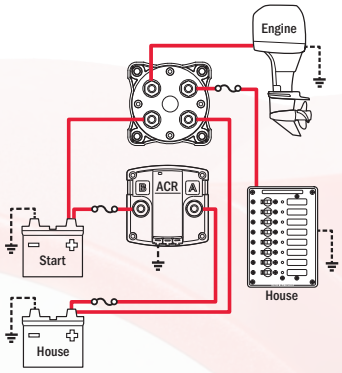
1 Selector Battery Switch
1 Automatic Charging Relay



Note:
Uses same style batteries

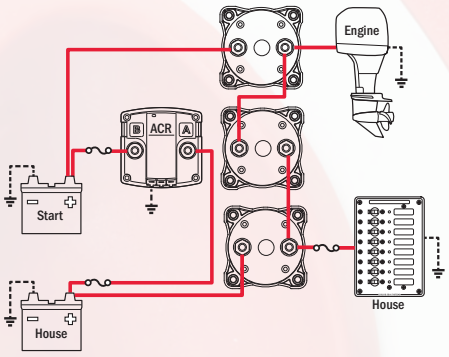
Simultaneously switches two isolated battery banks or combines battery banks to all loads.

1 Dual Circuit Plus™ Battery Switch
1 Automatic Charging Relay



Can isolate a failed battery.

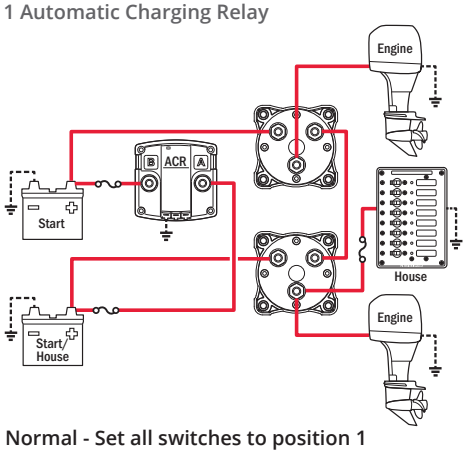
3 ON-OFF Battery Switches
1 Automatic Charging Relay



2 Battery - 2 Engine

House battery is shared with one engine. One engine battery is in reserve.

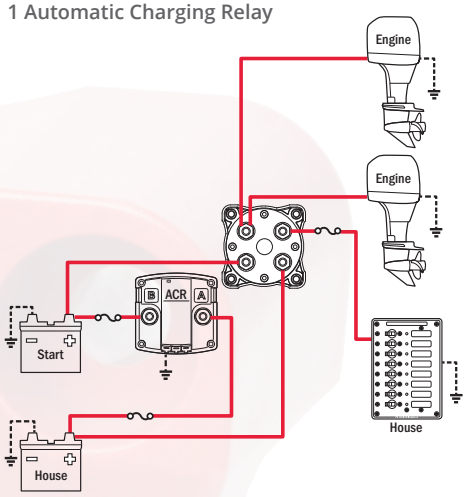
2 Selector Battery Switches
1 Automatic Charging Relay



Normal - Set all switches to position 1
Parallel - Set all switches to position 1+2
Isolate - Set Load switch to Position 2 and Source Switch to position 1+2

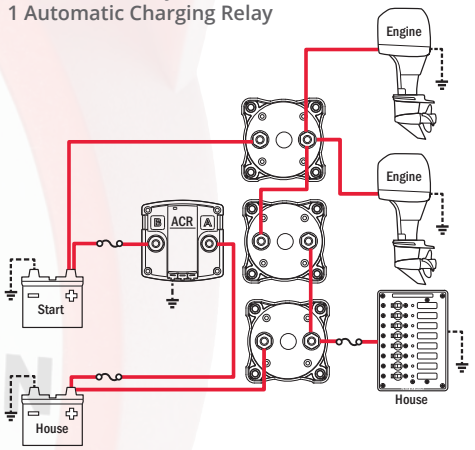
Engines share one battery. House battery is in reserve.

1 Dual Circuit Plus™ Battery Switch
1 Automatic Charging Relay



Can isolate a failed battery.

3 ON-OFF Battery Switches
1 Automatic Charging Relay



The diagram above is intended for reference only. Consult an ABYC certified marine electrical professional for system design and circuit protection.

Blue Sea Systems
Heavy Duty Battery Switches

- Accepts two 4/0 battery cables per terminal
- Luminous label for low light reading
- Ignition protected - Safe for installation aboard gasoline powered boats, IP66
- 7/8" stud length to accept multiple cable terminals
- 1/2" tin-plated copper studs for maximum conductivity and corrosion resistance
- Tactile textures indicate knob position by feel only
- Case design allows surface or flush mounting
- Fits all Perko low amperage battery switch hole patterns

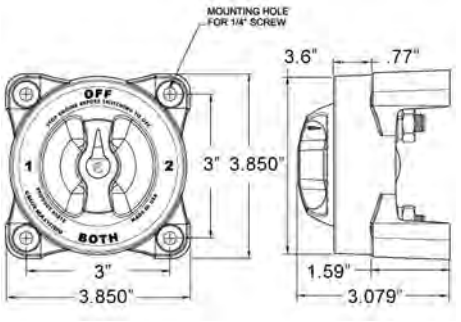


3000



3002/3003

	3000	3002 /3003
Cranking Rating: 30 sec	1,750A DC	1,600A DC
Intermittent Rating: 5 min	900A DC	900A DC
Continuous Rating:	600A DC	500A DC
Voltage Rating:	48VDC Max	



BSS 3000 Single circuit On/Off
BSS 3002 Selector 4 position, Off-1-2-Both
BSS 3003 Selector 4 position, Off-1-2-Both AFD♦
♦AFD Alternator Field Disconnect

Blue Sea Systems
Standard Battery Switches

- Ignition protected - Safe for installation aboard gasoline powered boats, IP66
- Tactile textures indicate knob position by feel only
- Case design allows surface or rear panel mounting
- Accepts up to 4/0 battery cables
- Fits all Perko and Guest low amperage battery switch hole patterns
- Luminous label for low light reading
- 7/8" stud length to accept multiple cable terminals
- 3/8" M10 tin-plated copper studs for maximum conductivity and corrosion resistance
- Make-before-break contact design allows switching between battery banks without power interruption



9001E-9002E



9003E-9004E



5510E

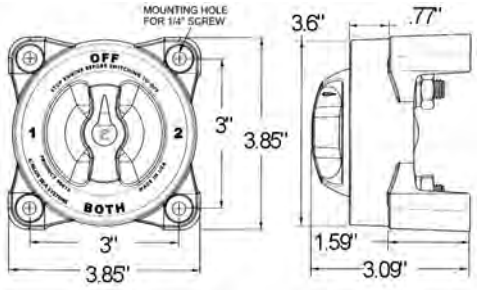


5511E



11001

	9003-9004	9001-9002-11001	5510-5111
Cranking Rating: 30 sec	1,200A DC	1,200A DC	700A per circuit
Intermittent Rating: 5 min	600A DC	600A DC	525A per circuit
Continuous Rating:	350A DC	350A DC	350A per circuit
Voltage Rating:	48VDC Max	32VDC Max	32VDC Max



BSS 9001E 4, Off-1-2-Both
BSS 9002E 4, Off- 1-2-Both AFD♦
BSS 9003E 2, Off-On
BSS 9004E 2, Off-On AFD♦
BSS 11001 3, Off-On AFD♦
♦AFD Alternator Field Disconnect

Dual Circuit Switches

BSS 5510E 2, On-Off double pole
Switches both negative & positive lines simultaneously with one simple On/Off switch.

BSS 5511E 3, On-Off-Emergency Parallel
Switches two battery banks simultaneously with one simple ON/OFF switch while maintaining battery bank isolation.

Blue Sea Systems M-Series Battery Switches

- Ignition protected - Safe for installation aboard gasoline powered boats, IP66
- Tactile textures indicate knob position by feel only
- Case design allows surface, front panel, or rear panel mounting
- Accepts up to 4/0 battery cables
- Molded in durable reinforced polycarbonate
- Label set included for circuit identification
- Removable key remains positively retained (6005)
- 3/8" M10 Tin-plated copper studs
- 7/8" Long stud length to accept multiple cable terminals
- Isolating cover with snap-on sections protects rear contacts

m Series Battery Switches
Designed to withstand the harshest conditions. An innovative snap together design increases reliability and longevity without the use of internal fasteners. When mounted, the mounting fasteners secure the entire switch. The back cover is now one-piece with break-out sides, instead of slide outs, to make for easier handling. Every stud is pressed into a copper reinforced bus for added support.

	6004-6005-6006	6007-6008	6010-6011
Cranking Rating: 30 sec	900A DC	900A DC	675A per circuit
Intermittent Rating: 5 min	500A DC	500A DC	450A per circuit
Continuous Rating:	300A DC	300A DC	300A per circuit
Voltage Rating:	48VDC Max	32VDC Max	32VDC Max
Case Material:	Reinforced Polycarbonate		

BSS 6004 Single circuit On/Off, w/locking key
BSS 6005 Single circuit On/Off, w/key
BSS 6006 Single circuit On/Off, w/knob
BSS 6006200 Single circuit On/Off, w/knob, black
BSS 6007 Selector, Off-1-2-Both
BSS 6008 Selector, Off-1-2

Dual Circuit Switches

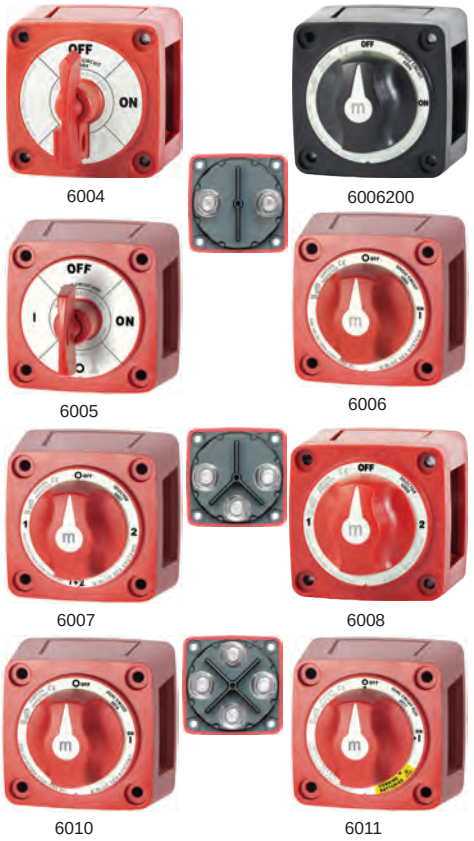
BSS 6010 2 Position, On-Off, Double Pole
BSS 6011 3 Position, On-Off-Plus†, Double Pole EP

Parts:
BSS 7902 Label kit
BSS 7903 Replacement key for 6004 series



6 Icon label Set

†The combined batteries function offers the ability to combine the two battery banks in the event of a low Start Battery.

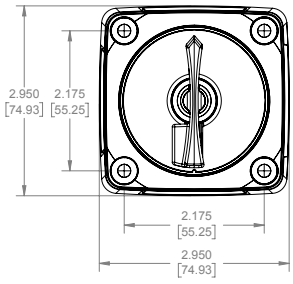


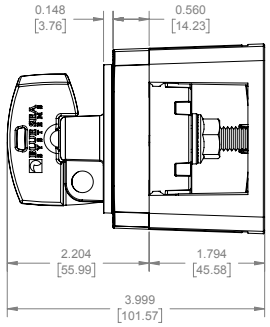
6004 6006200 6005 6006 6007 6008 6010 6011

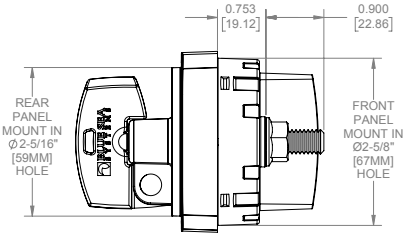
Mounting Options



Rear
Front
Surface

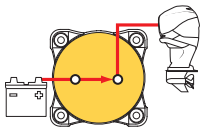
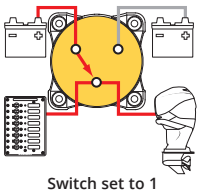
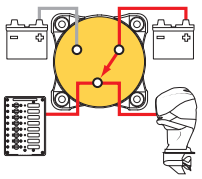






Manual Battery Switch Specification Table



Part #	6004	6005	6006	9003E, 9004E	3000, 3001	6008	11001	11003
Switch Type	Single Circuit ON-OFF					Selector 3 Position		
Switch Family	m-Series			e-Series	HD-Series	m-Series	e-Series	HD-Series
Function	Switches a single battery to a single load group					Switches either isolated battery bank to loads		
Battery Inputs	1					2	2	
Switch Positions	2					3	3	
Battery Combine	--					--	--	
Make Before Break	N/A			N/A		N/A	N/A	
Cranking Rating (30 sec.)	900A			1,200A	1,750A	900A	1,200A	1,600A
Intermittent Rating (5 min.)	500A			600A	900A	500A	600A	700A
Continuous Rating	300A			350A	600A	300A	350A	500A
Voltage Max. Operating	48V DC			48V DC	32V DC	32V DC	32V DC	
Width	2.83" (72 mm)			3.85" (98 mm)		2.83" (72 mm)	3.85" (98 mm)	
Height	2.83" (72 mm)			3.85" (98 mm)		2.83" (72 mm)	3.85" (98 mm)	
Mounting Centers	2.18" (55 mm)			3.00" (76 mm)		2.18" (55 mm)	3.00" (76 mm)	
Mounting Hardware	#10 (M5) Screws			1/4" (M6) Screws		#10 (M5) Screws	1/4" (M6) Screws	
Terminal Stud Size	3/8"-16 (M10)				1/2" (M12)	3/8"-16 (M10)	3/8"-16 (M10)	1/2" (M12)
Terminal Stud Length	7/8" (22 mm)					7/8" (22 mm)		
Max. Terminal Stud Torque	120 in-lb (13.56 N-m)			140 in-lb (15.82 N-m)	220 in-lb (24.86 N-m)	120 in-lb (13.56 N-m)	140 in-lb (15.82 N-m)	220 in-lb (24.86 N-m)
Terminal Stud Material	Tin-plated copper					Tin-plated copper		
Cable Size to Meet Ratings *	4/0 AWG (120 mm²)					4/0 AWG (120 mm²)		
Cable Clearance for 4/0 Cables	1.12" (28.4 mm)			1.10" (27.9 mm)		1.12" (28.4 mm)	1.10" (27.9 mm)	
Ignition Protected	UL 1500, SAE J1171					UL 1500, SAE J1171		
Ingress Protected	IP66					IP66		
These diagrams are intended for reference of how the switches operate and are not wiring diagrams. Consult an ABYC certified marine electrical professional for system design and circuit protection.	 Switch set to ON					 Switch set to 1  Switch set to 2		

* Reducing cable size will reduce current rating



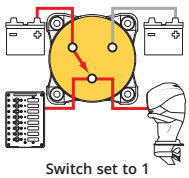




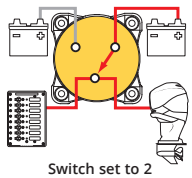




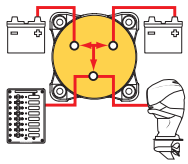

6007	9001E, 9002E	3002, 3003	6010	5510E	6011	5511E
Selector 4 Position			**Dual Circuit™**		**Dual Circuit Plus™**	
m-Series	e-Series	HD-Series	m-Series	e-Series	m-Series	e-Series
Switches isolated battery banks to all loads or combines battery banks to all loads			Simultaneously switches two isolated battery banks		Simultaneously switches two isolated battery banks or combines battery banks to all loads	
2			2		2	
4			2		3	
Yes			--		Yes	
Yes			--		Yes	
900A	1,200A	1,600A	675A per circuit	700A per circuit	675A per circuit	700A per circuit
500A	600A	700A	450A per circuit	525A per circuit	450A per circuit	525A per circuit
300A	350A	500A	300A per circuit	350A per circuit	300A per circuit	350A per circuit
32V DC			32V DC		32V DC	
2.83" (72 mm)	3.85" (98 mm)		2.83" (72 mm)	3.85" (98 mm)	2.83" (72 mm)	3.85" (98 mm)
2.83" (72 mm)	3.85" (98 mm)		2.83" (72 mm)	3.85" (98 mm)	2.83" (72 mm)	3.85" (98 mm)
2.18" (55 mm)	3.00" (76 mm)		2.18" (55 mm)	3.00" (76 mm)	2.18" (55 mm)	3.00" (76 mm)
#10 (M5) Screws	1/4" (M6) Screws		#10 (M5) Screws	1/4" (M6) Screws	#10 (M5) Screws	1/4" (M6) Screws
3/8"-16 (M10)	3/8"-16 (M10)	1/2" (M12)	3/8"-16 (M10)		3/8"-16 (M10)	
7/8" (22 mm)			7/8" (22 mm)		7/8" (22 mm)	
120 in-lb (13.56 N-m)	140 in-lb (15.82 N-m)	220 in-lb (24.86 N-m)	120 in-lb (13.56 N-m)	140 in-lb (15.82 N-m)	120 in-lb (13.56 N-m)	140 in-lb (15.82 N-m)
Tin-plated copper			Tin-plated copper		Tin-plated copper	
4/0 AWG (120 mm²)			4/0 AWG (120 mm²)		4/0 AWG (120 mm²)	
1.12" (28.4 mm)	1.10" (27.9 mm)		1.12" (28.4 mm)	1.10" (27.9 mm)	1.12" (28.4 mm)	1.10" (27.9 mm)
UL 1500, SAE J1171			UL 1500, SAE J1171		UL 1500, SAE J1171	
IP66			IP66		IP66	



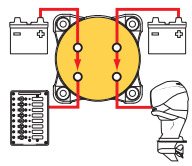
Switch set to 1



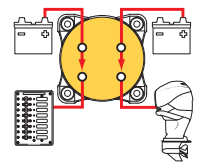
Switch set to 2



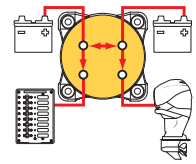
Switch set to 1+2



Switch set to ON



Switch set to ON



Switch set to COMBINE BATTERIES

TECH tip

Automatic Charging Relays

In a boat or vehicle with two battery banks, it is useful to be able to charge both banks while underway. Charge management devices allow two battery banks to be charged from a single source, such as an alternator, but keep batteries isolated when not charging. If one battery becomes depleted, there will be a charged bank available for emergency starting.

There are two types of charge management devices used on boats: Automatic Charging Relays (ACR) use a relay combined with a voltage sensing circuit. When a charge is being applied to a battery and the voltage rises over 13V DC, the relay closes and combines the two batteries. When the charge is taken away or the load on the battery is greater than the charging input causing the voltage to drop to 12.75V DC, the relay opens and isolates the two batteries.

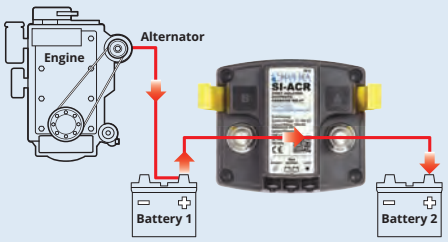
Battery Isolators are one-way electrical check valves that allow current to flow to, but not from, the battery. Their disadvantage is that they use diodes, which cause a voltage drop that consumes charging energy, creates heat, and causes batteries to be undercharged. Although alternators with external voltage sensing can correct for undercharging, voltage drop and heat remain a problem.

Zero Drop Isolators have more recently been developed to address the voltage drop issue of the traditional isolator but often have a higher price than either of the other two options mentioned above.

Automatic Charging Relay vs. Battery Isolator

Automatic Charging Relay

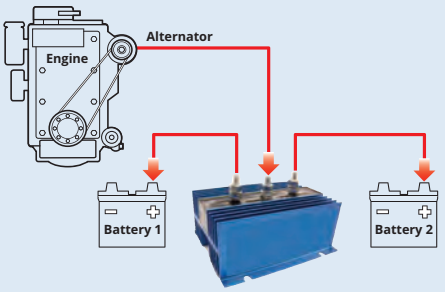
A lower voltage drop replacement for battery isolators
.05V Drop - Batteries Fully Charged



An ACR passes the current from one battery to the other

Battery Isolator

.6V Drop - Batteries Under Charged



An isolator splits the current

TECH tip

Add-A-Battery Kits Explained

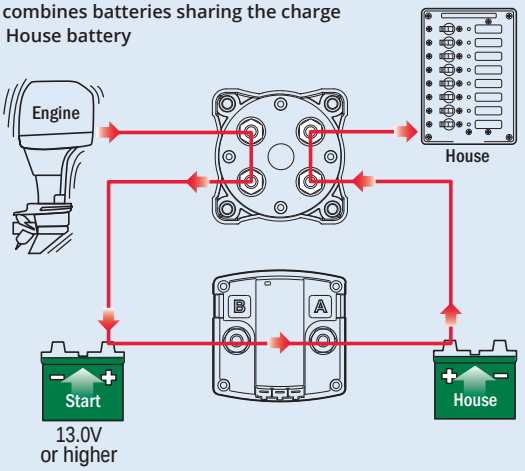
Avoid the inconvenience and cost of a tow by adding a second battery to your electrical system.

The Add-A-Battery Kits include a Dual Circuit Plus™ Battery Switch and an Automatic Charging Relay. These components simplify switching and automate charging. Simply turn the battery switch ON when you arrive and OFF when you leave.

Adding a second battery prevents getting stranded with a dead battery by isolating the Start battery from the House loads that can quickly discharge a battery. The Add-A-Battery Kits offer a simple way to control switching with the Dual Circuit Plus™ Battery Switch and automatically shares a single source of charging between two batteries with the Automatic Charging Relay.

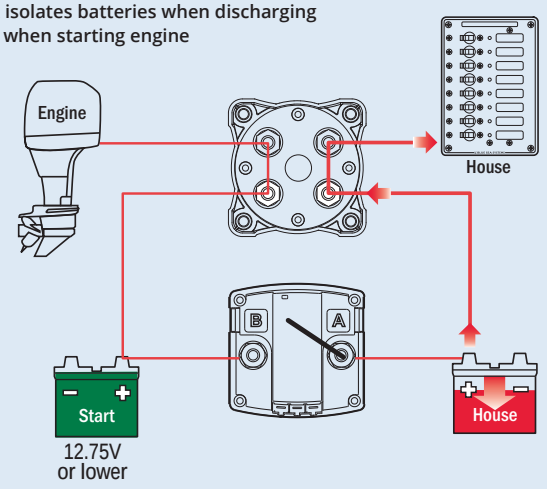
ENGINE ON

ACR combines batteries sharing the charge with House battery



ENGINE OFF

ACR isolates batteries when discharging and when starting engine



DC Current

The diagrams above illustrate how the 7650 and 7649 Add-A-Battery Kits work and are intended for reference only. Consult an ABYC certified marine electrical professional for system design and circuit protection.

Selection Chart

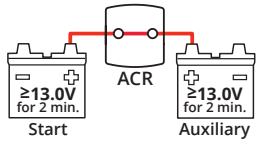
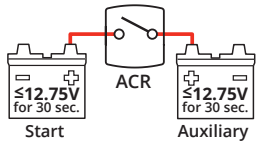
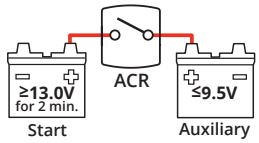
Choose the right Automatic Charging Relay for your application

1. Select an ACR that has a **CONTINUOUS** rating above the maximum alternator output rating and an **INTERMITTENT** rating that is above the largest load on the auxiliary battery.
2. Review the **PRESET ACR SETTINGS**
3. Select the ACR with the desired **PRODUCT FEATURES**

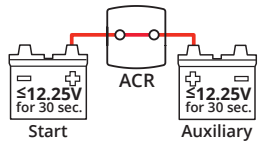
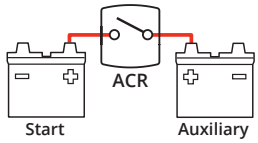
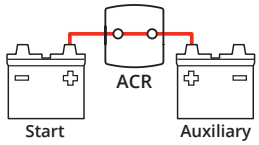
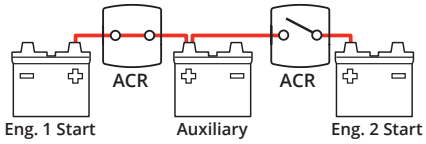
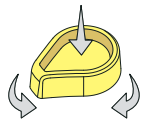


PN	7601	7611	7610	7620	7622
CONTINUOUS	65A	120A	120A	500A	500A
INTERMITTENT	115A	210A	210A	700A	700A

PRESET ACR SETTINGS

Combine Voltage - Charge present and loads do not exceed charge input - Voltage of either battery is ≥13.0V for 2 min. - Relay will close, combining batteries - Combined batteries share charge		✓	✓	✓	✓	✓
Open Voltage - No charge present or loads exceed charge input - Combine voltage is ≤12.75V for 30 sec. - Relay will open, isolating batteries - Isolated batteries do not share charge		✓	✓	✓	✓	✓
Under Voltage Lockout - Charge may or may not be present - Voltage of either battery is ≤9.5V (ML-ACR 9.6V) - Relay will not close even with charge on other battery, protecting ACR and wiring from high surge current - Isolated batteries do not share charge		✓		✓	✓	✓

PRODUCT FEATURES

Auxiliary Battery Priority (optional) Condition: Engine running - Open voltage is lowered to 12.25V from 12.75V - Relay remains closed longer, combining batteries, to allow use of auxiliary loads for a longer period of time			✓			
Start Isolation (optional) Condition: Engine starting - Relay is open, isolating batteries - Batteries are isolated to protect sensitive electronics from voltage sags and spikes		✓		✓	✓	✓
Start Assist Condition: Engine starting – (Press Contura Switch) - Relay is closed, combining batteries - Batteries are combined to share power in the event of a low start battery					✓	✓
Engine Isolation Condition: Two engines are running - One relay is open and one relay is closed - Engine 1 Start and Engine 2 Start batteries are isolated to protect engine electronics - If requested by engine manufacturer					✓	✓
Manual Override Manual override knob provides an added level of safely allowing manual control of ON-OFF						✓

Blue Sea Systems Add-A-Battery Dual Circuit System



The 'ADD A BATTERY' dual circuit system consists of the 5511e, E-series dual circuit plus battery switch and the 7610, 120A SI* automatic charging relay (in one package).
*Starting isolation

- The 5511e, dual circuit plus battery switch isolates engine and house circuits, and combines batteries for emergency starting
- The 7610, 120A SI automatic charging relay combines batteries for charging

BSS 7650

Blue Sea Systems Battery Relay Auto Relay



- 120A continuous rating
- 12/24VDC auto ranging voltage input
- Senses charging on two battery banks
- Side and bottom knockouts for cable connections
- Clip-on cover insulates terminal connections
- 7/8" (22 mm) stud length to accept multiple cable terminals
- Integrated LED indicates ACR status
- 1/4" x .032" male quick connect terminals for ground and optional features
- L: 3.886" x W: 3.5" x D: 1.98"

BSS 7611

Blue Sea Systems Add-A-Battery Kit - Mini



A compact, simple way to control the switching with the m-Series Dual Circuit Plus Battery Switch (6011) and automatically share a single source of charging between two batteries with the Mini ACR Automatic Charging Relay (7601).

BSS 7649

Blue Sea Systems Mini ACR Charging Relay



- 65A continuous rating
- Manages the charging current from alternators up to 65A found on most outboards and many inboard engines
- Compact case design allows surface and panel mounting
- Senses charging on two battery banks
- Snap-on cover insulates terminal connections
- LED indicates ACR status
- 1/4" x .032" male quick connect terminal for ground
- 5/8" (16 mm) stud length to accept multiple cable terminals
- 12VDC voltage input
- L: 2.85" x W: 2.85" x D: 2.57"

BSS 7601

Blue Sea Systems ML-Series Automatic Charging Relays



- Manual control switch provides an added level of safety allowing control with or without power, and offering lock-off capability for servicing
- Includes ML-Series remote control contura switch PN 2146
- Automatically manages the charging of two large battery banks
- Allows paralleling of battery banks for emergency starting
- 500A continuous rating to support high-output alternators
- Magnetic latch (ML) - ACR draws very low current (<40mA to monitor terminal voltage) in the "ON" or "OFF" states, and draws moderate current for very short time when changing state
- Dual sensing - senses charge on both battery banks
- Start isolation (SI) - can be configured for temporary isolation of House loads from Engine circuit during engine cranking to protect sensitive electronics
- Engine isolation (EI) - can be configured for isolation of two engines while both are running to protect engine electronics and maximize alternator output
- LED output to remotely indicate when batteries are combined, isolated, in voltage lockout, or in start or engine isolation
- 3/8"-16 tin-plated copper studs
- 7/8" (22mm) stud length accepts multiple cable terminals
- Label recesses for circuit identification
- Meets ISO 8846 and SAE J1171 external IP requirements
- Waterproof rated IP66
- 5.47" x 3.75"



BSS 7622 12V
BSS 7623 24V

Same features as above without manual control
BSS 7620 12V
Accessories:
BSS 9160 Link bus

Blue Sea Systems Remote Control Contura Switches

- Vibration, shock, thermoshock, moisture and salt spray resistant
- Meets UL 1500 and ISO 8846 external ignition protection requirements
- IP67 temporary immersion for 30 minutes
- Mounting: 1.45" x 0.83"
- Rated: 20A @ 12VDC; 15A @ 24VDC



- For use with ML-Series remote battery switches and ML solenoid switches
- Lockout slide

BSS 2145 SPDT (ON) ♦ OFF ♦ (ON)



- For use with ML & SD-Series ACR's

BSS 2146 SPDT ON ♦ OFF ♦ ON

Blue Sea Systems SI-ACR Automatic Charging Relay



- Allows temporary isolation of house loads from engine circuit during engine cranking to protect sensitive electronics
- Automatically combines battery banks during the charging cycle and isolates under discharge
- 12/24V auto ranging voltage input
- Hermetically sealed contacts/vapour proof
- Waterproof rated IP67
- Ignition protected
- Remote LED output indicates relay state away from ACR
- LED light indicates when batteries are combined
- Supports high-output alternators up to 120A
- Side and bottom knockouts for power cable connections
- Clip on cover protects and insulates terminal connections
- Tin-plated copper studs for maximum corrosion resistance
- 7/8" (22.22mm) stud length to accept multiple cable terminals
- 1/4" x .031" male quick connect terminals for ground, remote LED and starting interrupt
- L: 3.886" x W: 3.5" x D: 1.98"

BSS 7610

	12 volt	24 volt
Continuous Rating	120A DC	120A DC
Intermittent Rating	210A DC	210A DC
Inrush Rating	280A DC	280A DC
Opening Delay	0.34 sec.	0.34 sec.
Maximum Cable Size	1/0 AWG	1/0 AWG
Terminal Stud Size	3/8"-16 (M10)	3/8"-16 (M10)
Maximum Torque	140 in-lbs	140 in-lbs

Blue Sea Systems ML-Series Remote Battery Switches with Manual Control

- 500A continuous rating for use as a remote battery switch for inboard gasoline or diesel engines, reducing long cable runs
- Magnetic latch only draws current when changing state of switch, drawing no current in "ON" or "OFF" state
- Includes ML-Series RC contura switch 2145
- Optional manual control switch provides an added level of safety allowing control with or without power, and offering lockout capability for servicing
- 3/8" copper studs, suitable for 500A continuous rating and large cable connections
- Cranking rating 10 Sec (10 repeats): 2200A DC
- Intermittent rating 1 min: 750A DC
- Intermittent rating 5 min: 400A DC
- Continuous rating: 300A DC
- Maximum voltage rating: 32V DC
- Terminal stud size: 3/8"-16
- Cable size to meet ratings: 4/0 awg
- 5.47" x 3.75"



BSS 7700 12V
BSS 7702 24V
Accessories:
BSS 9160 Link bus



Blue Sea Systems Automatic Timer Disconnect

Can be configured to be used as one of the following:

- Timer Disconnect: 12V signal triggers; ranges from 15 minutes to 4 hours
- Low Voltage Disconnect: 12V signal triggers; can be used in conjunction w/ the timer disconnect
- Automatic Charging Relay
- Solenoid
- L: 3.5" x W: 3.89" x D: 1.86"



BSS 7615

Egis XD NMEA 2000 Relays

NEW

- NMEA 2000 controllable
- Reports switch status, status of manual override knobs, and battery voltage on input terminals to the NMEA 2000 network
- Local LED and NMEA 2000 on/off indication for each switch
- Compact installation footprint
- Bi-stable solenoid design
- IP67/IP6K9K sealed unit
- 3-position manual override
- Simple programmability via dip switches
- 500A continuous capability per relay
- Mechanical switching life of 1,000,000 cycles
- Low standby power draw of 15 mA combined
- 12/24V
- Single: 3.15" x 2.598" x 1.969"
- Dual: 3.15" x 4.528' x 2.039"
- Triple: 3.74" x : 6.457" x 2.039"



9831-2535

Part #	Default Setting	Pin	Knob
EGI 9811-4300	VSR	4	Y
EGI 9811-4500	Relay	4	Y
EGI 9821-8550	L: Relay, R: Relay	8	Y
EGI 9821-8330	L: VSR, R: VSR	8	Y
EGI 9821-8350	L: VSR, R: Relay	8	Y
EGI 9831-2535	L: Relay. C: VSR, R: Relay	12	Y

Sea-Dog SD-53 Battery Disconnect w/Breaker

NEW

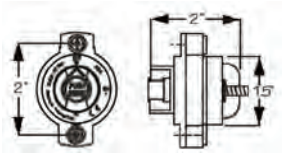
- Small footprint
- Combination On/Off rotary switch and breaker (not rated for engine starter circuits)
- Constructed of machined brass and injection molded nylon
- IP67
- 1/4"-28 stud
- 32V



SED 830400-1	30A
SED 830401-1	40A
SED 830402-1	50A
SED 830403-1	60A
SED 830404-1	70A

Accessories

SED 830905-1	Stand-off base



Egis Automatic Timer Disconnect



- Automatically turns off after a preset time or if battery voltage is low
- Combined timer and high-amp relay
- Simple installation with plug/harness
- Ultra-low operating current @1.3 mA
- Sealed device made of high temperature materials with stainless self-locking hardware

EGI 7615

Egis Automatic Charging Relay



- Fully adjustable open & close voltages supports all battery chemistry combinations
- Supports multiple engine installations with dual start/engine isolation inputs
- Start assist option for auto or manual connection with start/auxiliary batteries
- Simple installation with integrated sealed plug and Deutsch/ amphenol DTM connector harness
- Low amp output can be sued to report device status remotely
- Ultra-low operating current @1.3 mA
- Sealed unit made of high temperature materials with stainless self-locking hardware
- 3.98" x 3.37" x 2.12"

EGI 7610 12V, 160A

Egis XD Flex Relays



8720-1350

- Compact installation footprint
- Bi-stable solenoid design
- Supports single/multiple engine installations with dual start/engine isolation inputs
- IP67/IP6K9K sealed unit
- Intuitive manual control option
- Simple programmability via dip switches
- 500A continuous capability per relay
- Mechanical switching life of 1,000,000 cycles
- Ultra-low operating current @1.3 mA
- 12/24V
- Single: 3.15" x 2.598" x 1.969"
- Dual: 3.15" x 4.528' x 2.039"
- Triple: 3.74" x : 6.457" x 2.039" (Mechanical 2.276")

Part #	Default Setting	Term.	Knob
EGI 8710-1300	VSR	Wire	Y
EGI 8710-1400	VSR	Wire	-
EGI 8710-1500	Relay	Wire	Y
EGI 8710-1900	Mechanical only	Wire	Y
EGI 8720-1350	L: VSR, R: Relay	Wire	Y
EGI 8720-1390	L: VSR, R: Mech	Wire	Y
EGI 8730-1535	L: Relay, C: VSR, R: Relay	Wire	Y
EGI 8730-1939	L: Mech, C: VSR, R: Mech	Wire	Y
EGI 8810-1300	VSR	DTM	Y
EGI 8810-1400	VSR	DTM	-
EGI 8810-1500	Relay	DTM	Y
EGI 8810-1600	Relay	DTM	-

Accessories:

EGI 8790 Link busbar
EGI 8791 Cross-over busbar

Blue Sea Systems m-LVD Low Voltage Disconnect



- Senses low battery voltage and automatically disconnects devices to save power for starting or to preserve battery life
- Status light in both m-LVD and Remote Control Switch provides visual warning of low voltage state prior to disconnect
- Alarm output available for audible warning of low voltage state prior to disconnect (optional alarm required)

Remote Control Switch functions:

- Disconnect Voltage Adjustment - Sets desired disconnect voltage
- Override - Temporarily delays circuit disconnect for 10 minutes
- OFF- Temporarily disconnects circuits until voltage rises
- Override or OFF - Silences alarm (optional alarm required)

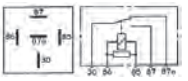
BSS 7635

Pico Weather Resistant Relay & Pigtail Kit



Unit is sealed against moisture, dirt and dust. Relay includes resistor for voltage spike protection and operates as normally closed or normally open.

- Amp: 40/30A
- Gauge: 2-18, 3-12 AWG
- Voltage: 12VDC

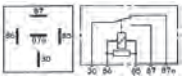


PIC 928-91

Pico Relay & Pigtail Kit



- Amp: 40/30A
- Gauge: 3-14, 2-18 AWG
- Leads/Pins: 5
- Voltage: 12VDC



PIC 926-91

Blue Sea Systems Solenoid

- Hermetically sealed contacts / vaporproof
- Ignition protected
- Activated by an ON-OFF switch mounted anywhere
- Integrated coil control minimizes heating and amperage draw
- 450A class
- Designed for 12 or 24V systems
- Continuous Rating 300A*
- Cranking Rating (30 sec.) 1,000A*
- Voltage Maximum 800V DC
- W: 3.17" x H: 2.86"

*2/0 Cable in 50°C ambient



BSS 9012

Cole Hersee Continuous Duty Solenoids



- One circuit: OFF ♦ ON
- 200A, with silver tungsten carbide contacts
- S.P.S.T. normally open contacts
- Housing: plated steel
- Studs: Copper 5/16" -24 thread; hex nuts / lock washers included
- Coil, ignition, and ground terminals: Steel 10-32 thread; hex nuts / lock washers included
- Mounting: 5/16" x 19/32" on 2-13/64" centers

COH 24213 12V
COH 24214 24V

Cole Hersee
Continuous Duty Latching Solenoid



- 12V-110A, continuous duty
- Plated steel construction
- 10-32 thread small terminals and 5/16"-24 NFT large terminals
- Can be used to isolate one battery from another in a two battery system, or as a battery disconnect when used in conjunction with a momentary switch (COH 58027-02)
- Mounting: 5/16" x 19/32" on 2-13/64" centres

COH 24200

Cole Hersee Heavy Duty Solenoids



- One circuit: OFF ♦ ON, normally off with contacts open
- 12V, continuous duty
- 5/16"-24 NFT heavy gauge copper contacts, 10 - 32 low current terminals
- Mounting: 5/16" x 19/32" on 2-13/64" centres

Part #	Volts	Rated Amps
COH 24059-08	12	65 CE & UL rated
COH 24059	12	85
COH 24063	24	85

Cole Hersee
Plasticized Continuous Duty Solenoid



- One circuit: ON ♦ OFF
- S.P.S.T. normally open contacts
- Contact terminal 5/16"-24 NFT
- 85A @ 12VDC continuous
- Mounting: 5/16" x 19/32" on 2-13/64" centres

COH 24117

Sure Power Solenoid



- Cummins replacement
- 100A, 12VDC continuous duty solenoid
- 5/16" UNC threads
- W: 3" x L: 2-1/2" x H: 3-1/4"

SUR 1310

Egis Contactor



- Hermetically sealed contactor against dust and moisture intrusion
- High electrical switching endurance delivers 6,000 cycles at 250A/450V, or 100,000 cycles at 250A/14V
- High interrupt current capability safely able to open in a locked starter situation (up to 1,500A at 14V)
- High contact voltage rating supports 12 and 24V applications
- Ignition protected

EGI 7021 12/24V, 250A

Egis Contactor



- Hermetically sealed contactor against dust and moisture intrusion
- High electrical switching endurance delivers 6,000 cycles at 100A/350V, or 100,000 cycles at 100A/14V
- High interrupt current capability safely able to open in a locked starter situation (up to 1,250A at 14V)
- Ignition protected

EGI 7024 12V, 100A, with aux contacts
EGI 7026 24V, 100A, with aux contacts

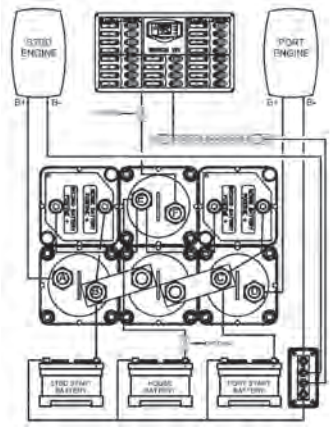
BEP Battery Distribution Cluster w/VSR

Twin outboard without AUX outputs. It will allow the port engine to charge the port start battery and the house battery when the VSR is engaged. It will also allow the starboard engine to charge the starboard start battery and the house battery when the starboard VSR is engaged, giving a combined charge from two outboards into the house battery until the voltage regulators on both engines control the charge. It will also allow the house battery to be charged if steaming on one engine

- VSR charge current: 150A
- Horizontal, 5.4" x 8.1"
- 10 mm studs

BEP 717-140A-DVSR



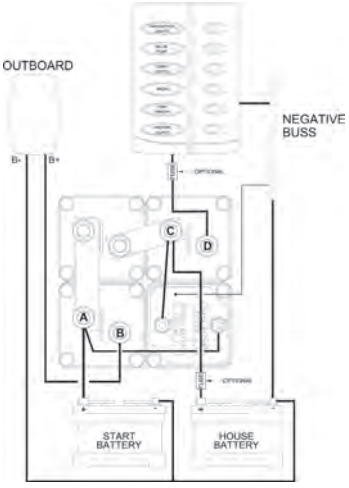


BEP Battery Distribution Clusters w/VSR

Single outboard or inboards with 2 banks. Ready assembled switch clusters for different applications which make installation quick and easy. Consists of a 3 gang cluster of the BEP 701 battery switch and a Voltage Sensitive Relay Module.

- 10 mm studs
- VSR charge current: 150A

BEP 716-SQ-140A-DVSR Square, 5.4" x 5.4"
BEP 716-H-140A-DVSR Horizontal, 10.85" x 2.75"





716-SQ-140A DVSR



716-H-140A-DVSR

BEP Digital Voltage Sensing Relay



Allows two independent battery banks to share a charging source. When the DVSR senses that the voltage in either bank rises to charging levels, the relay closes, effectively combining the banks and charging them together. When the voltage drops below charge levels the relay opens and once again isolates the two banks.

BEP 710-140A 12/24V

Perko Compact Battery Selector Switch



- 2 ♦ ALL ♦ 1 ♦ OFF
- Requires 1/3rd less space to mount
- Popular 90° easy to identify position rotation
- 6 to 32V
- Capacity: 315A continuous
  450A intermittent
- Higher rating than popular 8500 series switches
- Same bolt patterns as popular 8500 series
- Smooth, positive position selector
- 4" Square x Depth 3"
- 3/8" NC studs

PER 8511-DP

Perko Compact Battery Selector Switch



- ON ♦ OFF
- Requires 1/3rd less space to mount
- Popular 90° easy to identify position rotation
- 6 to 32V
- Capacity: 315A continuous
  450A intermittent
- Same bolt patterns as popular 9600 series
- Smooth, positive position selector
- 4" Square x Depth 3"
- 3/8" NC studs

PER 9611-DP

Perko Heavy Duty Battery Disconnect Switch



- ON ♦ OFF
- 6 to 32V
- Ignition protected
- Capacity: 450A continuous
  1200A intermittent
- Has 3/8" mounting studs
- Use #14 R.H. screws
- 5-1/4" Square x Depth 3-3/8"
- 1/2" NC studs

PER 9703-DP

Perko Heavy-Duty Selector Switch



- 2 ♦ ALL ♦ 1 ♦ OFF
- Designed for high amperage service
- Full 360° selection of either battery
- With alternator field disconnect
- 6 to 32V
- Capacity: 380A continuous, 850A intermittent
- Use #10 screws
- 5-1/4" Square x Depth 3-3/8"
- 1/2" NC studs

PER 8603-DP



9601-DP



9602-DP



9603-DP

Perko Main Battery Switches 9600 Series - Ignition Protected On-Off Type

- ON ♦ OFF
- Available with key lock option or alternator field disconnect
- The same basic design and construction as the 8500 Series except they are offered as main disconnect switches
- 6 to 32V
- Use #12 R.H. screws
- Capacity: 250A continuous
  360A intermittent
- Diameter: 5-1/4" x Depth: 2-5/8"
- 5/16" NC studs

PER 9601-DP
PER 9602-DP With key lock
PER 9603-DP With field disconnect



8501-DP



8503-DP



8504- DP

Perko Battery Selector Switches 8500 Series - Ignition Protected

- 2 ♦ ALL ♦ 1 ♦ OFF
- For use with two or more batteries - for single or dual engine systems
- Permits selection between batteries for starting and charging or operation of both batteries in parallel
- Allows the addition of an extra battery for use with accessories
- "Off" position also acts as an emergency disconnect in the event of an electrical problem
- Surface Mount - Red plastic housing with improved design to protect electrical connections - large black plastic knob
- Copper contacts - 5/16" Brass terminals
- Use #12 R.H. screws
- Capacity: 250A continuous
  360A intermittent
- 6 to 32V
- Diameter: 5-1/4" x Depth: 2-5/8"
- 5/16" NC studs

PER 8501-DP
PER 8503-DP With field disconnect
PER 8504-DP With field disconnect & key lock

BEP Medium Duty On/Off Battery Switches



Can be a stand alone unit or locked together with other switches. Removable rear cover insulates the rear terminals against any short circuits and ensures the switch meets ABYC requirements. Surface or recess mounted. Removable key with interchangeable labels.

- Capacity: 275A continuous
  455A intermittent
- Max voltage: 48V
- ON ♦ OFF Switch
- 10 mm studs

BEP 701 2.75" x 3" deep



Easy Fit Battery Switch

Same technical features as the 701 above but created primarily for installations where switches need to be recessed through varying thicknesses of panels (up 3/4").

- Can easily be retro-fitted in place of most European post and lever type switches

BEP 700 2.7" x 4.3" deep

BEP Heavy Duty Battery Selector Switches



720



721

- Can be recessed or surface mounted
- Uses self cleaning sliding contacts
- Ignition protected
- Lockable
- Tinned copper studs and nuts
- Max voltage: 48V
- Stud size: 2 x 12mm
- L: 102mm (4") x D: 90mm (3.5")

BEP 720
BEP 721

	721	720
Operation	Battery 1-2 Both Off	On/Off 2-Poles
Continuous	350A	600A
Intermittent	500A	800A
Cranking	1500A	2500A
Studs	3 x 10mm	2 x 12mm
Features:	Includes an emergency parallel position	Meets the needs of vessels being built to survey requirements where positive and negative supplies must be isolated at the same time

BEP Mini Battery Selector Switch

Can be a stand alone unit or locked together with other switches. Removable rear cover insulating the rear terminals against any short circuits and ensures the switch meets ABYC requirements. Surface or recess mounted.



- Termination Stud size: 3 x 5/16"
- Capacity: 200A continuous
  300A intermittent
- Max voltage: 48V
- 69mm (2.75") square x 75mm (3") deep
- 1 ♦ 2 ♦ BOTH or OFF Switch
- 8 mm studs

BEP 701S

► *Also See* BEP Pro Installer Battery Switches pg 02-058

BEP Terminal Links

Designed for space saving interconnections of terminals when battery distribution modules are linked together.

Part #	Centre to Centre	Hole Size
BEP 708-42.5	42.5mm (1.67")	10mm
BEP 708-68.5	68.5mm (2.7")	10mm



Guest Heavy-Duty Switch Series w/AFD



- 1 ♦ 2 ♦ 1 & 2 ♦ OFF
- 6 to 36V
- Longer stud lengths for improved assembly
- Heavy-duty copper sweep contacts
- Polycarbonate housing
- Features AFD
- Continuous amps: 360
- Momentary amps: 600
- Cable lug size: 5/8"
- Dimensions: 5-1/2" Sq x 3-1/2" D

GUE 2300A

Guest Extra HD Switch w/AFD



- ON ♦ OFF
- 6 to 36V
- Longer stud lengths for improved assembly
- Heavy-duty copper sweep contacts
- Polycarbonate housing
- Continuous amps: 600
- Momentary amps: 1000
- Cable lug size: 5/8"
- Dimensions: 5-1/2" Sq x 3-1/2" D

GUE 2304A

Cole Hersee Master Disconnect Switches



M-284

- 2-Position OFF ♦ ON S.P.S.T.
- Brass case, chrome plated die-cast lever
- Rating: 175A continuous, 1000A intermittent
- Fits panels up to 15/16" thick
- 3/8" studs
- 6-36V applications

Part #	Package	Features
COH M-284	Bulk	
COH M-284-A	Bulk	Same as M-284 but with silver contacts

Cole Hersee Battery Disconnect Switch



- ON ♦ OFF, SPST
- Built-in lock-out/tag-out satisfies OSHA for energy isolation device
- Rating @ 12V: 300A continuous
  1000A - 3000A intermittent
- IPX8
- Fits panels up to 7/16" thick
- 3/4"-16 mounting stem, 3/8"-24 input terminal

COH 75920 12-36V

Hella Battery Switch



- Flush mount master battery switch with removable key
- Rated for 50A @ 12V
- Max load: 100A @ 24V
- Requires 2-1/8" x 15/16" cutout
- M10 studs
- 2-1/4" flange diameter
- Height from bulkhead: 1-1/2" (2-3/4" with key)

HLA 002843011
HLA 706729011 Spare key

Moeller On/Off Switch w/Cap



- 110A at 12V for 10 seconds
- Key & cover have environment-proof boot to reduce corrosion
- Prevents battery discharge and unauthorized use

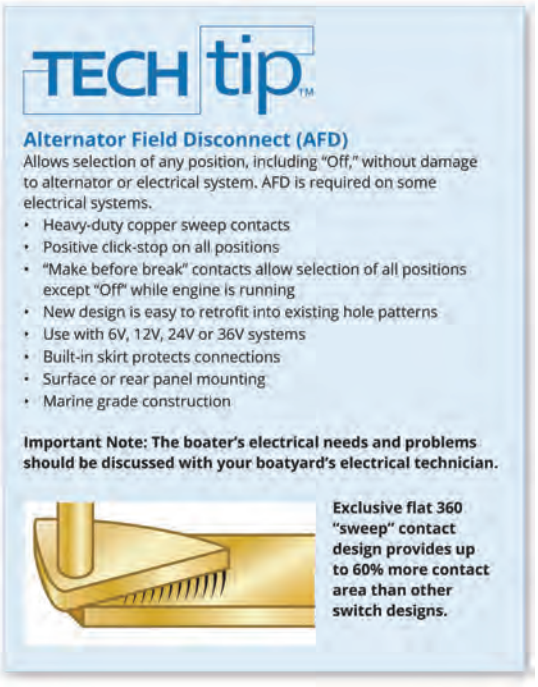
MOE 042219-10

Sea-Dog Heavy Duty On/Off Switch w/Cap



- 12/24V
- 500A momentary
- 75A continuous
- 3/8" Stud
- Removable key adds security
- Dia: 2-1/4" x D: 1-5/8"

SED 420600-1



Sea-Dog Mini Battery Switches


422732-1

- On/Off switch with removable knob for extra security
- Mini footprint ideal for close quarters
- Machined brass and injection molded nylon
- Max voltage: 32V

Part #	Dia	Stud Dia	Mounting Hole	Amps Contin.	Amps Crank
SED 422730-1	2-3/16"	5/16"	2-1/16"	300	1000
SED 422732-1	1-3/4"	1/4"	1-1/8"	100	150

Blue Sea Systems Dual Battery Bank Management Panel



- Battery switches combined with DC distribution offers control for two battery banks
- Isolates the engine circuit from the house circuit
- Protects electronics from sags and spikes caused by engine cranking
- Discharges batteries independently
- Provides main circuit protection for DC House power system
- Isolates start circuit from house circuit
- 1 x C-Series 100A flat rocker circuit breaker
- 2 x m-Series battery switches (6006)
- 3/8" NC studs

BSS 8080

Specifications:
Cranking Rating: 10 sec.....1500A
Intermittent Rating: 5 min.....500A
Continuous Rating: 300A
Voltage Rating .....32V Maximum
House Circuit Protection 100A
Dimensions.....H: 6.50", W: 5.25"

Blue Sea Systems Dual Main Distribution Panel



- Can be mounted in four different orientations
- Isolates the Start circuit from the House circuit
- Simplifies battery switch operation
- Protects electronics from sags and spikes caused by engine cranking
- Discharges batteries independently
- Designed for single engine configurations
- Allows emergency cross connect between separate engine battery banks
- Provides main DC circuit protection in addition to high ampere loads
- Provides 24 hour circuit protection
- Includes 4218 - Set of 30 common DC labels
- Includes 1 x 100A large case rocker circuit breaker & 2 x 15A push button circuit breakers
- Battery Switch: BSS 5511E

BSS 8690

Specifications:
Cranking Rating:10 sec 1000A
Intermittent Rating:5 min 525A
Continuous Rating: 350A
Voltage:..... 12-24V
House Circuit Protection: 100A
Dimensions:..... Height 8.00" Width: 5.25"



Blue Sea Systems
Triple Battery Bank Management Panel

- Includes [2] Dual Circuit Plus Battery Switches PN 5511e
- Designed for twin engine configurations
- Provides high ampere load protection
- Isolates the Engine circuit from the House circuit
- Allows independent battery control
- Provides 24-hour circuit protection
- Allows emergency cross connect between isolated battery banks
- Protects electronics from sags and spikes
- The addition of two Automatic Charging Relays (ACR) automates charging three battery banks
- Ignition protected - Safe for installation aboard gasoline-powered boats
- W: 10.5" x H: 8" x D: 3.5"

BSS 8693

Max. Voltage: 24V
Cranking Rating (10sec): 1,000A
Continuous Rating: 350A
Circuit Breakers: ..... (1) 100A main, C-series
Panel Cumulative Rating:.... (4) 15A branch, push button

Newmar Ship-Shore AC Selector Switches



An AC source selector switch is an essential item for any boat with an on-board AC generator and/or inverter. The switch eliminates the safety hazard and/or damage that can occur if two AC sources are applied to the same circuit simultaneously. These 2 pole switches are fitted with a compact escutcheon plate with engraved switch position nomenclature (mounting dimensions below). The switches carry UL, CSA and VDE approval and feature heavy duty contacts and a positive step cam mechanism for low resistance contact closure. May be installed in panel with thickness up to 1/4".

- 4 flush-mounting screws provided
- Mounting surface area required: 2-1/2" x 2-1/2"
- Depth required: 2-3/8"

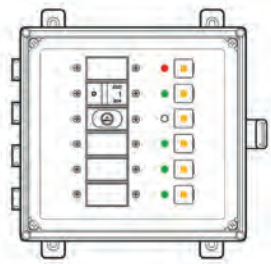
Part #	Amps	Switch	Plate Positions
NEW SS-SWITCH-15	126	2+OFF	GEN ♦ OFF ♦ SHORE
NEW SS-SWITCH-3.0KW	30	2+OFF	GEN ♦ OFF ♦ SHORE
NEW SS-SWITCH-7.5KW	63	2+OFF	GEN ♦ OFF ♦ SHORE
NEW SS-SWT-7.5INV	63	3+OFF	OFF ♦ GEN ♦ INV ♦ SHORE

Blue Sea Systems
Surface Mount Sytems (SMS)

- Glass filled polycarbonate mounting box
- Clear cover allows easy view of circuit breaker status
- Overlapping cover for strength and increased gasket protection
- Oversized, formed in place seamless PUR gasket
- Easily removable stainless steel hinge pin for unobstructed installation
- Stainless steel latch secures cover without penetrating the enclosure
- Blank circuit positions accommodate Carling Technologies A- and C- Series Flat Rocker and ELCI Main circuit breakers
- Stainless steel mounting hardware included
- Includes waterproof glands
- LED lights for back lighting and ON indication
- IP66 rated
- RoHS rated
- Enclosure: 6" x 6" x 4.0"
- Overall dimensions: 7.6" x 7.4" x 4.7"



3116



3116 Panel Includes:

1 x AC MAIN
2 x SMS enclosure gland - PG7 for #14 to #10 wire
3 x SMS enclosure gland - PG16 for #14 to #10 cable
1 x Basic AC label kit - 30 black square labels
1 x ELCI
1 x 30A Double pole residual current circuit breaker (MAIN)
4 x LED - 120V AC Green (ON indicating)
1 x LED - 120V AC Red (reverse polarity indicating)

BSS 3116

3119 Panel Includes:

1 x AC MAIN
2 x SMS enclosure gland - PG7 for #14 to #10 wire
1 x SMS enclosure gland - PG16
2 x SMS enclosure gland - PG29
1 x Basic AC label kit - 30 black square labels
1 x Reverse polarity
1 x ELCI
1 x C-series ELCI main circuit breaker 120/240V AC 50A (MAIN)
3 x LED - 120V AC Green (ON indicating)
1 x LED - 120V AC Red (reverse polarity indicating)

BSS 3119

Blue Sea Systems AC Rotary Switch



- Red reverse polarity indicating LEDs
- Green power available LEDs
- Max. Amps: 30
- Max. Voltage 120V
- Accepts standard BSS back-lightable labels
- H: 3.75" x W: 5.25"

BSS 8367

Accessories:

BSS 4026 Panel back, small

Blue Sea Systems AC Source Selector Panel



- Slate grey aluminum panel
- Two double pole 30A breakers
- Lockout slide permits connection of only one power source to the system
- Max. Voltage 120V
- H: 3" x W: 5.25"

BSS 8032

Accessories:

BSS 4026 Panel back, small

Blue Sea Systems AC Residual Current Circuit Breaker Panel



- One 30A AC ELCI main residual current circuit breaker, leakage trip amp rate - 30 mA
- ELCI provides overcurrent and leakage protection per ABYC E-11 for whole boat shore power protection
- Red " Reverse Polarity" LED
- All circuit label positions are backlit
- "ON" indicating LEDs
- H: 5.25" x W: 3.75" x D: 3.5"

BSS 8100

Blue Sea Systems AC Circuit Breaker Panels





- These panels are designed as branch circuit breaker panels to work in conjunction with AC main panels
- All hot, neutral and safety ground buses installed, fully pre-wired
- Label backlighting pre-installed
- Detailed installation instructions and cutout template
- All LEDs installed
- Maximum panel amperage - 100A

Part #	Circuits	Breakers Installed	Dimensions
BSS 8058	3	3 x 15A	H: 3.75" x W: 5.25"
BSS 8059	8	5 x 15A	H: 7.5" x W: 5.25"

Accessories:

BSS 4026 Panel back, small

BSS 4027 Panel back, medium

Blue Sea Systems AC Main Circuit Breaker Panels

- Slate grey aluminum panel
- Red reverse polarity indicating LED
- All hot, neutral and safety ground buses installed, fully pre-wired
- All LEDs installed
- Maximum panel amperage - 50A
- 120V



8029



8077



8412



8027



8043

Part#	Description	Meter Type	W	H	15A Sgl Pole	30A Dble Pole	50A Dble Pole
BSS 8027 †	Main & 6 Positions	-	5.25"	7.50"	3	1	-
BSS 8029 ♦	Main & 1 Position	-	5.25"	3.75"	-	1	-
BSS 8043 †	Main & 3 Position	Analog 9353	5.25"	7.50"	3	1	-
BSS 8077	Main Only 30A	-	2.63"	3.75"	-	1	-
BSS 8079	Main Only 50A	-	2.63"	3.75"	-	-	1
BSS 8412	Main & 6 Position	-	10.50"	4.50"	4	1	-

Accessories:

BSS 4026 Panel back, small (fits ♦)

BSS 4027 Panel back, medium (fits †)

A NEW APPROACH TO POWER DISTRIBUTION PANELS

BLUE SEA SYSTEMS

360 PANEL SYSTEM

In response to our customers' requests for a more versatile panel, and after years of engineering, Blue Sea Systems has developed the 360 Panel System. This unique approach to panels offers significant advantages over traditional flat panels—flexibility, broadest range of functionality, advanced design features. This panel system meets both the visual and functional demands of the most discerning boaters.

Stock 360 Panels: ..... Blue Sea Systems offers over 160 stock panel configurations to choose from. These stock panels ..... provide solutions for most marine electrical applications. View all stock panels at bluesea.com.

Custom 360 Panels: ..... To modify an existing stock panel, or to create a fully custom panel, boat builders may work directly ..... with Blue Sea Systems or through authorized distributors. All of the functionality available in Stock ..... 360 Panels can be configured into Custom 360 Panels to meet the exact needs of boat builders and ..... boat owners.

Modules: ..... Choose from twenty modules, each with a choice of components to configure a panel, that meets the ..... exact needs of each customer.

Frames: ..... Choose a frame that fits your space constraints and will accommodate required functionality.

Design and Order a Custom Panel in Three Easy Steps

1 **Launch**
the Panel Wizard at
western.panelwizard.bluesea.com

2 **Design**
the panel with modules, circuit breakers, and labels. The list price is updated with each change.

3 **Save**
the panel design and request a quote.



Completed 3 × 3 Panel



Blue Sea Systems labels are made using a scratch resistant polycarbonate material and are back-printed for durability. Custom Labels for the 360 Panel System can be ordered in any language and are available directly from Blue Sea Systems along with 500 standard or square format labels.



BLUE SEA SYSTEMS
425 Sequoia Drive
Bellingham, WA 98226 USA
p 360.738.8230
p 800.222.7617 USA and Canada
f 360.734.4195
conductor@bluesea.com
www.bluesea.com

Blue Sea Systems DC Push Button Reset-Only Circuit Breakers and Rocker Switch Panels

- Available with voltmeters and ammeters
- Includes 4205-square format label set



1459



1457



1464

Part #	Description	W x H	Breakers Push Button x Rocker	
BSS 1459 *	4 Pos CLB + Volt Meter	4.875" x 7.750"	4@10A	4
BSS 1457 *	8 Pos CLB	4.875" x 7.750"	8@10A	8
BSS 1464 *	12 Pos CLB + Volt Meter	9.250" x 7.750"	12@10A	12

Designed as an economical solution for circuits that remain "ON" or are switched elsewhere.

* Special Order

Accessories:

BSS 4116 Rocker switch panel plug

Blue Sea Systems DC Push Button Reset-Only Branch Circuit Breaker Panel

- High-density circuit protection
- Includes 4205-square format label set

Designed as an economical solution for circuits that remain "ON" or are switched elsewhere.



Part #	Description	W x H	Breakers Push Button
BSS 1450	8 Pos	4.875" x 4.750"	8 @15A

Blue Sea Systems DC Analog Voltmeter Panel



- Includes full-size 2-3/4" 8003 DC Analog Voltmeter
- Displays voltage from 8–16VD
- 3 position switch for multiple battery banks
- 4.875" x 4.750"

BSS 1473 *

* Special Order

Blue Sea Systems DC Digital Voltmeter Panel



- Includes full-size 2-3/4" 8235 DC Digital Voltmeter
- 4 digit LED display - Displays voltage from 7–60V
- 3 position switch for multiple battery banks
- 4.875" x 4.750"

BSS 1474 *

* Special Order - may have stock

Blue Sea Systems DC Branch Circuit Breaker Panels with Hydraulic/Magnetic Circuit Breakers

- 4 to 32 branch circuits with installed 15A circuit breakers
- Available with voltmeters, ammeters, and digital multimeters
- Includes 4205 - square format label set

Part #	Description	W x H	Breakers Single Pole Circuit
BSS 1216	4 Pos	4.875" x 4.750"	4@15A
BSS 1200	8 Pos	4.875" x 7.75"	8@15A
BSS 1225 *	8 Pos	9.250" x 4.750"	8@15A
BSS 1223 *	12 Pos	4.875" x 10.75"	12@15A
BSS 1217 *	12 Pos + Multimeter	9.250" x 7.750"	12@15A
BSS 1222 *	16 Pos	9.250" x 7.750"	16@15A
BSS 1201 *	16 Pos + Amp/ Volt Meter	13.625" x 7.750"	16@15A

* Special Order


1201


1200


1217


1216


1225

Blue Sea Systems AC Magnetic Circuit Breaker Panels with Hydraulic/Magnetic Circuit Breakers

- All circuit label positions are backlit
- "ON" indicating LEDs installed in all circuit positions
- Includes 4206 - square format label set

Part #	Description	W x H	Breakers Single Pole Circuit	x Double Pole
BSS 1210	4 Pos	4.875" x 4.750"	4@15A	-
BSS 1228	8 Pos	4.875" x 7.750"	8@15A	-
BSS 1214	Main + 2 Pos	4.875" x 4.750"	2@15A	-
BSS 1202 *	Main + 6 Pos	4.875" x 7.750"	6@15Ax	1@30A

* Special Order


1210


1214


1228


1202

Blue Sea Systems 120VAC A-Series Circuit Breaker Source Selection Panels



- Double pole AC Main circuit breakers with installed lockout slides
- Prevents connecting multiple AC sources simultaneously
- Reverse polarity indication LED
- All circuit labels are backlit
- "ON" indicating LEDs in all circuit positions
- W: 4.88" x H: 4.75"

BSS 1208 * 2 x 30A double pole breakers

* Special Order

Blue Sea Systems M-Series Panel



- Suitable to mount M-Series battery switches
- Heavy 1/8" aluminum 5052 alloy
- UV stabilized thermoplastic bezel
- W: 4.88" x H: 4.75"

BSS 1139 *
* Special Order

Blue Sea Systems 360 Panel



- Use with 285-Series or 185-Series panel mount circuit breakers
- W: 4.88" x H: 4.75"

BSS 1477 *
* Special Order

Blue Sea Systems Meter Mounting Panels



- Accepts a 2-3/4" meter
- Single W: 4.88" x H: 4.75"

BSS 1475

► Also See Meters pg 03-101 to 102

Blue Sea Systems Gauge Panel



- Heavy 1/8" aluminum 5052 alloy
- UV stabilized thermoplastic bezel
- W: 4.875" x H: 4.750"

BSS 1510 * Blank
* Special Order

Blue Sea Systems Blank Panel



- Suitable for accessories and for user pad printing
- W: 4.88" x H: 4.75"

BSS 1518 *
* Special Order

Blue Sea Systems Panel Insulating Covers



- Isolation of 360 panel AC components and circuits from DC system elements
- Meets ABYC safety requirements for panels with combined AC and DC loads
- Provides mechanical protection for panel backs protruding into lockers
- Modular design consists of three different interlocking components - SIDE, TOP, and END
- Interlocking companion pieces SIDE, TOP, and END can be stacked to accommodate large AC components
- Cover breakouts allow wire access in any direction

BSS 1331 1 module

BEP Circuit Breaker DC Panel



Constructed of durable powder coated marine grade Aluminum. These panels have a curved plastic facia covering all circuit breaker & meter retaining screws. Back lit labels are standard on all breaker panels as well as a red LED identification for each circuit when on. All breakers are Single Pole 12V, trip free.

Part#	Dim. (mm) H x W x D	Amps				Neg. Bus
		5	10	15	20	
BEP 901V	7.9" x 5" x 2.5"	2	2	3	1	6 Way

Blue Sea Systems WeatherDeck Water Resistant DC Panels



4304



4376

- Designed for fly bridge and open cockpit applications, these panels feature
- Made from corrosion resistant materials
- Independent label backlighting circuit for remote switching and dimming
- UV stabilized and weather resistant faceplate
- Rated IP67 - Protected against immersion up to 1m for 30 minutes
- Rugged UV stabilized waterproof boots
- Each panel can be mounted in four different orientations
- Available in 2, 4, 6, and 8 position-fused or circuit breaker models

ATO/ATC Blade Fuse protects each circuit

Part #	Fuses	Colour	Size
BSS 4302	2 fuse	Grey	3.88" x 2.60"
BSS 4304	4 fuse	Grey	3.88" x 4.30"
BSS 4306	6 fuse	Grey	3.88" x 6.00"
BSS 4308	8 fuse	Grey	3.88" x 7.70"
Thermal Reset Only Circuit Breaker protects each circuit			
BSS 4374	4 breaker	Grey	4.5" x 4.30"
BSS 4376	6 breaker	Grey	4.5" x 6.00"
BSS 4378	8 breaker	Grey	4.5" x 7.70"

Blue Sea Systems DC Panel



- 3 position, vertical circuit breaker panel
- Designed for flybridge and open cockpit applications
- Panel front is rated IP66-Protected against powerful water jets
- Ignition protected-safe for installation in gasoline powered boats
- ON-OFF Contura Switches
- ON indicating LEDs embedded in switch
- Watertight mounting gasket
- Push Button Reset-Only circuit breakers with waterproof boots
- W: 4.5" x H: 3.75"

BSS 8374

Blue Sea Systems Water Resistant Panels

Designed for fly bridge and open cockpit applications, this arctic white electrical panel features:

- Rated IP66 - "Use on Shipdecks"
- Ignition protected - safe for installation aboard gasoline powered boats
- Meets UL 1500 and ISO 8846 ignition protection requirements
- Designed for flybridge and open cockpit applications
- Panel front is rated IP66-Protected against powerful water jets
- Ignition protected-safe for installation aboard gasoline powered boats
- ON-OFF Contura Switches
- ON indicating LEDs embedded in switch
- Watertight mounting gasket
- Push Button Reset-Only circuit breakers with waterproof boots
- Voltage: 12 or 24V
- Switch Rating: 20A @ 12V
  15A @ 24V
- Switch LED Amp. Draw: 18 Milliamperes
- Circuit Breaker Rating: 15A
- Fuse Holder Rating: 20A max.
- NOTE: Water resistant panel labels are not back-lightable

Part #	Colour	Breakers	Fuses	W x H x D
BSS 8271	White	8	-	9.37" x 4.25" x 3.25"
BSS 8272	White	4	-	5.25" x 4.25" x 3.25"
BSS 8274	White	3	-	4.5" x 3.75" x 3.25
BSS 8371	Black	8	-	9.37" x 4.25" x 3.25"
BSS 8372	Black	4	-	5.25" x 4.25" x 3.25"
BSS 8373	Black	6	-	4.5" x 7.5" x 3.25"
BSS 8053	Grey	-	6	5.25" x 7.5" x 3"
BSS 8054	Grey	-	3	5.25" x 3.75" x 3"
BSS 8261	Grey	-	8	9.37" x 3.75" x 3"
BSS 8262	Grey	-	4	5.25" x 3.75" x 3"
BSS 8263	Grey	-	1	2.25" x 3.75" x 3"



8274



8372



8272



8271



8371



8261



8053



8373



8054



8262



8263

BEP Spray Proof Switch DC Panels



- 12V 20A switches
- Includes spray proof in-line fuse holders
- UV stabilized charcoal grey plastic housing
- Template, mounting screws, label-set and gasket included
- H: 95 x W: 107 x D: 75 mm (3.74" x 4.21" x 2.95")

BEP 900-4WP	4-switches, 2 fuses
BEP 900-6WP	6-switches, 3 fuses

BEP Spray Proof Switch DC Panel



- A 6 way switch panel fitted with 6 x 2 way on/off switches
- Red LEDs indicate systems on and are also used for back lighting the labels
- Features a removable cover which conceals attachment screws
- Water proof to IPX5 rating
- Supplied with 6 x 9A PTC fuses mounted internally in the panels, gasket, attachment screws and label set
- H: 158 x W: 112 x D:65 mm (6.22" x 4.41" x 2.56")

BEP CSP6-PTC

BEP Spray Proof Contour Generation 2 DC Panels



- Switch tray is molded plastic with a rubber gasket and seal molded into the plastic
- The cover is molded in a clear plastic with a rubber over-mold allowing the flexibility to operate the switches through the front of the panel while providing a clear window for label back - lighting
- Standard colour supplied is black panel with charcoal strip
- Supplied complete with on/off switches

BEP CG2-4W-F	4 Switch, 2.5" x 4.7"
BEP CG2-6W-F	6 Switch, 2.5" x 6.5"

Parts:

BEP SW-CG2	Momentary ♦ (ON) replacement switch
BEP SW-CG3	ON ♦ OFF ♦ ON replacement switch
BEP SW-CG4	(ON) ♦ OFF ♦ (ON) replacement switch



4320



4321



4322

Blue Sea Systems Water-Resistant DC Circuit Breaker Switch Panels

- Illuminated 15A circuit breakers provide switching, "ON" indication and overcurrent protection
- Industry-standard sizes and mounting allow these panels to be easily retrofitted in an existing application
- Grey, polycarbonate/ABS panel surface is UV-stabilized, flame retardant, and will not corrode
- Silicon breaker boots and gasket protects against water ingress
- Low profle makes it easy to install in tight spaces
- Fast-on circuit breaker connectors make it quick to wire
- Two-wire connection for powering all panels is simple and requires #10 ring terminals. Terminals screw to bus bars for secure connections
- Set of 15 square format circuit labels are included, and are easy to replace. Additional standard or custom labels are available

BSS 4320	4-position, 5 x 4.625 x 1.75"
BSS 4321	4-position, + 12 Volt Socket and Dual USB Charger, 6.625 x 4.625 x 1.75"
BSS 4322	6-position, 6.625 x 4.625 x 1.75"

Sea-Dog DC Breaker Panel



- Black aluminum panel
- 6 push to reset breakers and 6 illuminated rocker switches
- Breakers: 2 @ 3A, 2 @ 6A, 1 @ 8A, 1 @ 10A
- Cutout: 5-1/2" x 3-1/2"
- Panel: 6-1/2" x 4-1/2"

SED 422800-1	Breaker panel

Parts:

SED 420441-1	Replacement rocker switch



422010-1



422110-1



422210-1

Sea-Dog Aluminum DC Switch Panels

- Black switch panels with illuminating rocker switches
- Uses AGC style fuses

SED 422010-1	Vertical 4 gang, 4-1/2" x 4-7/8"
SED 422110-1	Vertical 6 gang, 3-1/2" x 5-1/2"
SED 422210-1	Horizontal 6 gang, 6-1/2" x 4-1/2"

Parts:

SED 420441-1	Replacement rocker switch
SED 420501-1	Spare fuse holder
SED 420501	Spare fuse holder (Bulk)

Blue Sea Systems
DC Toggle Circuit Breaker Panels

- All positive, negative and grounding buses installed, fully pre-wired
- Includes set of 30 common DC labels
- Label backlighting pre-installed
- All LEDs installed
- Slate grey aluminum panel


8023


8025


8068


8096


8380

Part#	Description	Meter Type	Voltage	W	H	Installed Breakers
BSS 8023	8 Position	-	12/24V	5.25"	7.50"	5 x 15A
BSS 8025	3 Position	-	12/24V	5.25"	3.75"	3 x 15A
BSS 8068	13 Position	Analog 8028,8041	*12V	10.50"	7.50"	10 x 15A
BSS 8096	6 Position	-	12/24V	10.50"	3.75"	6 x 15A
BSS 8378	18 Position	Analog 8003,8017	12V	14.75"	7.50"	15 x 15A
BSS 8380	Main + 22 Position	Analog 8028,8038	*12V	10.50"	11.25"	100A Main & 16 x 15A

*Owner upgradeable to 24V with 8240, 18-32V voltmeter


8378



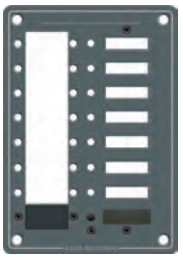
Blue Sea Systems
AC/DC Combination Circuit Breaker Panel

- All AC and DC buses installed, fully pre-wired
- Label backlighting pre-installed
- "ON" indicating LEDs installed in all circuit positions
- MIL-C-5541C or equivalent immersion undercoating for lifetime corrosion resistance
- Two-part polyurethane slate grey finish
- Heavy 1/8" aluminum 5052 alloy
- Countersunk mounting holes throughout
- Includes 60 common AC & DC large format labels
- Max Amperage 100A DC / 50A AC
- 100A C-Series toggle circuit breaker provides main circuit protection and switching for DC branch circuits

BSS 8408

AC Positions	AC Main + 6 Positions
DC Positions	DC Main + 18 Positions
Installed AC Breakers	1 (30A), 3 (15A)
DC Volts	12/24VDC
Installed DC Breakers	1 (100A Main), 12 (15A)
W x H	15.75" x 10"
Meter Type / PN	Digital / 8247, 8248

Blue Sea Systems Panel Faces





- Designed for C-Series circuit breakers
- Heavy 1/8" aluminum 5052 Alloy
- Two-part polyurethane slate grey finish
- Accepts standard Blue Sea Systems' back-lightable labels
- Ready for installation of optional 8065 Label Back light System
- Accepts standard Blue Sea Systems' "ON" indication LEDs

BSS 8087 8 Position panel, 5.25" x 7.5"
BSS 8088 3 Position panel, 5.25" x 3.75"

Parts:

BSS 8089 Plug kit

Optional plug kit includes circuit breaker mounting screws, C-Series panel plug, LED plug and blank label

Blue Sea Systems Panel Backs



4026

- Panel insulate the backside of electrical panels that protrude into lockers, machinery spaces and living areas
- Black ABS thermoplastic and can be easily drilled
- 3" deep

BSS 4026 5-1/4" x 3-3/4"
BSS 4027 5-1/4" x 7-1/2"

Blue Sea Systems Circuit Breaker Mounting Panels





- Mounts A-Series toggle circuit breakers
- Slate grey matches standard panel colour
- 1/8" aluminum 5052 alloy
- Accepts Blue Sea Systems' large format panel label
- 2-5/8" x 3-3/4"

BSS 8072 Single panel
BSS 8173 Double panel
BSS 8037 Panel plug, 6/pkg

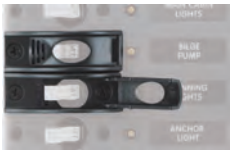
Blue Sea Systems AC Lockout Slide



- Allows only one of a pair of double-pole AC circuit breakers to be activated at a time
- Fits all double-pole A and B-Series circuit breakers

BSS 4125

Blue Sea Systems Toggle Guard



*2 shown

- Protect your circuit breakers against being accidentally switched ON or OFF
- Can be used on any brand of circuit breaker panel using standard A or B-Series circuit breakers
- Made from glass filled nylon. Mounting hole accepts #6 flat head screws (included)

BSS 4100
BSS 4100B Bulk

Blue Sea Systems Panel Accessories



8065

BSS 8065

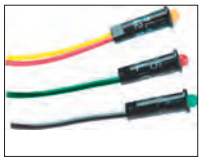
- 12V DC 8/5/3 position
- Back-light system is easily installed in any Blue Sea Systems circuit breaker panel
- The 8065 module is adaptable to a 8, 5 or 3 position panel
- Comes with 6" 18 AWG wire leads
- 5 milli-watt draw.

BSS 8035 Black breaker screw

- Fits all single and double pole A, B and C circuit breakers
- Sold in packages of 6

BSS 8037 Panel plugs

Blue Sea Systems LED Indicator Lights



- 26 AWG wire
- 11/64" mounting hole

Part #	Colour	Volts
BSS 8033	Amber	12/24VDC
BSS 8171	Red	12/24VDC
BSS 8172	Green	12/24VDC
BSS 8034	Green	120VAC
BSS 8066	Red	120VAC
BSS 8169	Amber	120VAC
BSS 8134	Green	230VAC

Cole Hersee Pilot Light LED



- 0.63" bezel dia
- Fits panels 5.1 - 76mm thick
- 1.25" body length
- 1/4" terminals
- 24V

COH PL-624-B ** Blue

** While Stock Lasts

Sierra Indicator Lamps



UN21280

- 12VDC with 5" wire leads
- Mounts into 1/2" hole

SIE UN21280 Red
SIE UN21290 Green

- Mounts into 5/16" hole

SIE UN22100 Red
SIE UN22110 Green
SIE UN22120 Amber

Sierra Indicator Lamps



- 125VAC indicator lamps
- 5" wire leads
- Mounts into 5/16" hole

SIE UN22150 Red
SIE UN22160 Green

Blue Sea Systems Lexan Label Set Large Format

BSS 8030 DC basic label set comes with:

Accessory
Anchor Light
Autopilot
Bilge Pump
Blower
Compass Light
Depth Sounder
Electronics
Engine Instruments
Fan
Foredeck Light
Fwd Cabin Lights
GPS
Horn
Knotmeter
Lights
Macerator Pump
Main Cabin Lights
Radar
Refrigerator
Running Lights
Sailing Instruments
Spare
Spreader Lights
Steaming Light
Stereo
Strobe Light
Tricolour Light
VHF
Water Pressure

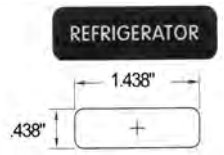
BSS 8031 AC basic label set comes with:

(Blank)
Accessory
Aft Cabin Lights
Aft Cabin Outlets
Air Conditioner
Air Conditioner 2
Appliances
Battery Charger
Cabin Outlets
Computer
Entertainment Center
Fwd Cabin Lights
Fwd Cabin Outlets
Galley
Galley Outlets
Heater
Inverter
Lights
Macerator Pump
Main Cabin Lights
Main Cabin Outlets
Microwave
Outlets
Refrigerator
Spare
Stove
TV/Stereo
VCR
Washer/Dryer
Water Heater

BSS 8039 DC extended label set comes with:

(Blank)
12 Volt DC
12 Volt DC Outlets
Aft Cabin
Aft Head
Alarm System
Anchor Wash Down
Bait Pump
Bilge Alarm
Bilge Pump 2
Bridge Instruments
Cabin 2 Lights
Cabin 3 Lights
Cabin 4 Lights
Cabin Fans
Cabin Lights
CB Radio
Cellular Phone
Chart Light
Chart Plotter
Cockpit Lights
Color Sounder
Comm Electronics
DC Lights
DC Main
DC Outlets
DC Refrigerator
DC Sub Panel
Deck Lights
Deck Lights Aft
Deck Lights Fwd
Depth Recorder
Depth/Speed
Desalinator
Dimmer
Dining Area Lights
Docking Lights
Emergency Lights
Engine Room Bilge Alarm
Engine Room Lights
Engine Room Panel Main
Engine Alarm
Exterior Lights
Fan 2
Fire Alarm
Fishing Light
Flood Lights
Flybridge Electronics
Flybridge Lights
Fresh Water Pump
Fresh Water Wash Down
Galley Lights
GPS/Plotter
Hailer
Ham Radio
Head
Head Lights
Head Lights 2
Heater 2
Helm Electronics
Helm Gauges
Helm Instruments
High Water Alarm
Holding Tank
Holding Tank Alarm
Holding Tank Pump
Instrument Lights
Instruments
Intercom
Interior Lights
Lights 2
Livewell
Log
Loran
Main Cabin
Map Light
Mast Lights
Nav Station Electronics
Nav Station Gauges
Nav Station Instruments
Nav Station Lights
Navigation Electronics
Navigation Instruments
Navigation Lights
Rack Lights
Radio
Saloon
Saloon Lights
Sat/Com
Sat/Nav
Satellite Dish
Searchlight
Seawater Temp
Seawater Wash Down
Security System
Shower Sump Pump
Sonar
Speed/Log
SSB
Sub Panel
Sump Pump
Telephone System
Track Lights
Transfer Pump
Trim Tabs
TV
TV/VCR
Utility
Video Plotter
Water Alarm
Water Maker
Water Pump
Weather Fax
Weather Instrument
Winches
Wind Instruments
Windex Light
Wiper Port
Wiper Stbd
Wipers

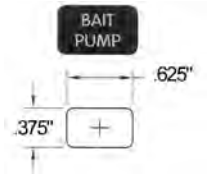
Blue Sea Systems Labels cont.



BSS 8067 AC extended label set comes with:

(Blank)
120 Volt AC Outlets
120 Volts AC / 60 Hz
AC Compressor
AC Fan
AC Main
AC Panel
AC Power
AC Refrigerator
AC Sub Panel
Aft Cabin
Aft Head
Air Conditioner 3
Air Conditioner 4
Alarm System
Amplifier
Audio/Video System
Battery Charger 2
Bridge Lights
Bridge Outlets
Cabin
Cabin 2
Cabin 2 Lights
Cabin 2 Outlets
Cabin 3
Cabin 3 Lights
Cabin 3 Outlets
Cabin 4
Cabin 4 Lights
Cabin 4 Outlets
Cabin Heater
Cabin Lights
Charger/Inverter
Cockpit Lights
Cockpit Refrigerator
Compartment Light
Cooktop
Deck Lights
Dimmer
Dining Area Lights
Dining Area Outlets
Dishwasher
Disposal
Dryer
Emergency Lights
Engine Room Lights
Engine Room Outlets
Exhaust Fan
Exterior Lights
Fan
Fan 2
Fan 3
Fan 4
Flood Lights
Freezer
Furnace
Galley Appliances
Galley Lights
Garbage Disposal
Generator 1
GFI Outlet
Hallway Lights
Head 2 Outlets
Head 3 Outlets
Head 4 Outlets
Head Lights
Head Lights 2
Head Lights 3
Head Lights 4
Head Outlets
Headlights
Heater 2
Heater 3
Heater 4
Hood Fan
Icemaker
Interior Lights
Inverter Outlet
Isolation Transformer
Lazarette Lights
Lectrasan
Lights 2
Lights 3
Lights 4
Lights Aft
Lights Fwd
Main
Main Breaker
Main Cabin
Nav Station Lights
Outlets 2
Outlets 3
Outlets 4
Outlets Deck
Outlets Exterior
Outlets Interior
Rack Outlets
Range
Refrigerator/Freezer
Reverse Polarity
Saloon
Saloon Heater
Saloon Lights
Saloon Outlets
Satellite Dish
Ship
Shore
Shore Power
Stereo
Stove/Microwave
Sub Panel
Telephone System
Track Lights
Trash Compactor
TV
UPS System
Vacuum
Video System
Washer
Water Maker

Blue Sea Systems Lexan Label Set Small Format



Weatherproof Lexan 60 Common DC Label Set
For 8261, 8262, 8055 & 5026 Panels

BSS 8214

(Blank)
12 Volt DC
24 Volt DC
Accessory
Aerator
Anchor Light
Auto Pilot
Bait Pump
Baitwell
Battery
Battery Charger
Bilge
Bilge Pump
Blower
Bow Light
Cabin
Cabin Lights
CB Radio
Cellular Phone
Charger Inverter
Chart Plotter
Deck Lights
Depth Sounder
Down Rigger
Electronics
Fan
Fish Finder
Fishing Light
Flood Lights
Fuel Pump
Gas Alarm
GPS
Horn
Ignition
Instr. Lights
Inverter
Knot Meter
Lights
Livewell
Nav Lights
Outlets
Radio
Radar
Refrigeration
Running Lights
Search Light
Spare
Spreader Lights
Steaming Light
Stereo
Strobe Light
Tricolour Light
Trim Tabs
VHF
Wash Down
Water Pressure
Water Pump
Winches
Windlass
Wipers

Individual labels available special order

Hoffman Switch Name Plates



- Black plastic with white lettering
- Use a #4 R.H. screw
- Measures: 1/2" x 1-1/2"

HOF 519-#1 **	Anchor Light
HOF 519-#1A **	Choke
HOF 519-#2 **	Anchor Winch
HOF 519-#4 **	Blower
HOF 519-#10A **	Freezer
HOF 519-#12 **	Engine Room
HOF 519-#15 **	Forward
HOF 519-#15A **	Fridge
HOF 519-#17A **	GPS
HOF 519-#18 **	Heater
HOF 519-#19 **	Horn
HOF 519-#21A1 **	Macerator
HOF 519-#29 **	Panel Light
HOF 519-#31A1 **	Power
HOF 519-#33 **	Reverse
HOF 519-#36 **	Searchlight
HOF 519-#36A-1 **	Sounder
HOF 519-#38 **	Start
HOF 519-#42 **	Trim Tabs
HOF 519-#42B-1 **	Up
HOF 519-#45 **	12V
HOF 519-#47 **	110V AC

** While Stock Lasts

Blue Sea Systems Maxi Fuse Block



- Snap-on terminal cover insulates all conductive parts, satisfying ABYC/USCG requirements
- Cover breakouts allow wires from sides or bottom
- Terminal screws compress fuse blades within blocks for low resistance connections
- Wire Size: 14 - 4 AWG
- Label recess accepts large format label
- Fuses sold separately
- W: 2.1" x H: 2.8" x D: 1.5"

BSS 5006100

Blue Sea Systems Water Resistant ST Blade Fuse Block



- Accepts a wide range of wire sizes
- Includes 3 wire plugs to maintain water resistance rating if less than 4 loads are required
- Accepts ATO and ATC fast-acting blade fuses, and ATO/ATC-style low profile circuit breakers
- Nests with other ST-blade W/R fuse blocks and W/R 100A bus bars to reduce wire
- Meets ABYC/USCG insulation requirements
- Tin-plated copper busses and fuse clips
- Fuses sold separately
- H: 3.39" x W: 5.41" x D: 1.99"

BSS 5056100

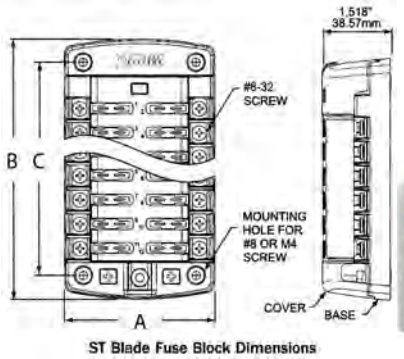
Blue Sea Systems ATO/ATC Fuse Blocks


5025


5028

- Clear insulating cover with label recesses for standard Blue Sea Systems' labels
- Cover insulates all conductive parts, satisfying ABYC/USCG requirements and storing spare fuses
- Tin-plated copper buses and beryllium copper fuse clips give full 30A rating per circuit
- Stud: #10-32
- Uses ATO fuses
- Includes 'Blank' labels
- Insulated cover protects connections

Part #	Description	A	B	C
BSS 5025	6 Circuit w/ground	3.315"	4.894"	3.881"
BSS 5026	12 Circuit w/ground	3.315"	6.472"	5.459"
BSS 5028	6 Circuit	3.315"	3.652"	2.639"
BSS 5033	Same as above but with no cover			
BSS 5029	12 Circuit	3.315"	5.230"	4.217"



ST Blade Fuse Block Dimensions


5026

5029

Blue Sea Systems Independent Sourced Circuit ST Blade Fuse Blocks

Consolidates up to six independently-sourced branch circuits in one compact fuse block. These blocks can be modified to combine circuits together. PN 9217 Terminal block jumpers (2 included) can be used on the source side of the fuse block.


5037

- Fuse blocks w/covers include 20 write-on circuit labels
- Tin-plated copper buses and fuse clips
- Accepts ring or spade type terminals
- Accepts ATO® and ATC® fast acting blade fuses
- Fuses sold separately
- H: 5.23" x W: 2.1"

BSS 5035	With cover
BSS 5037	No cover

► *Also See* Fuses pg 02-050 to 051

Blue Sea Systems AGC Fuse Blocks


5015

- Insulating cover with label recesses for labels
- Cover insulates conductive parts
- Nickel plated metal components
- Copper contacts give a 30A rating
- Can use AGC, MDL and all 3AG glass fuses
- Screws: #8-32, Stud: #10-32
- Max voltage: 32
- Fuses sold separately
- Labels not included
- H:5" x W: 3.5" x D: 1.25"

BSS 5015 AGC 6 circuit with ground bus
BSS 5018 AGC 6 circuit without ground bus

Blue Sea Systems Split Bus Fuse Block

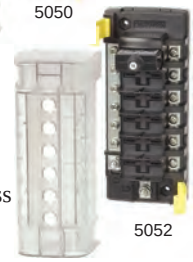


- Provides two isolated groups of six ATO/ATC circuits
- For use with either two isolated batteries or with a single battery providing a mix of 24 hour and switched circuits
- Screw terminals for securing wires accept ring terminals
- One-piece stainless flange nuts ensure safe and secure connections
- Clear insulating cover with label recesses and storage for two fuses, satisfies ABYC/USCG insulation requirements
- Easy to open, push button latch for easy access to fuses
- Tin-plated copper buses and fuse clips
- Max Amps: Block 100A, Circuit 30A
- Mounting: #8 Screw
- Negative Bus :#10-32 Stud
- Screw Terminal: #8-32 Screws with captive star lock washer
- ST blade fuses sold separately
- H: 7.35" x W: 3.32" x D: 1.51"

BSS 5032

Blue Sea Systems ST CLB 12V Breaker Blocks


5050


5052

- Quick connect clips allow circuit breakers to snap easily into place
- Tin-plated copper busses and screw terminals
- Clear insulating cover satisfies ABYC/USCG insulation requirements
- Breakouts allow wire access in two directions
- Accepts ring terminals
- Optional push button waterproof boots or dress nuts can be installed over cover
- CLB circuit breakers sold separately

Part #	Positions	Neg. Bus	Source	Height
BSS 5050	6	-	Independent	6.69"
BSS 5051	12	-	Independent	11.19"
BSS 5052	6	Yes	Common	6.69"
BSS 5054	12	Yes	Common	11.19"

Accessories:
BSS 5049 Circuit breaker block jumper



► Also See CLB Breakers pg 02-053

Blue Sea Systems ST Blade Compact Fuse Blocks





- Compact common source fuse block
- Accepts ATO and ATC fast acting blade fuses
- Single side entry wiring
- Ignition Protected–meets ISO 8846 and SAE J1171 for use in a gasoline engine compartment
- Insulating cover meets ABYC/USCG insulation requirements
- Tin-plated copper buses and fuse clips
- Accepts ring or snap fork type terminals (#8)
- Mounting screw: #8
- Operating max: 32VDC, 30A per circuit
- ST blade fuses sold separately

Part #	Positions	H x W
BSS 5045	4	3.64" x 1.73"
BSS 5046	8	5.75" x 1.73"

Egis RT ATO Fuse Blocks



- Modular design can product seven unique configurations
- Blown fuse LED indication
- Made of high temperature materials with stainless self-locking hardware
- Accepts ATO style fuses from 1-40A
- Spare fuse locations in each 6 output block
- Supports SAE circuit protection standards

Part #	Description	H	W	D
EGI 8025	6 Circuit w/ground	4.48"	3.406"	1.694"
EGI 8026	12 Circuit w/ground	6.685"	3.406"	1.694"
EGI 8028	6 Circuit	3.073"	3.406"	1.694"
EGI 8029	12 Circuit	5.278"	3.406"	1.694"
EGI 8030	12 Circuit Ground Block	2.25"	3.406"	1.694"

Egis RT ATO Inline Fuse Blocks

NEW



- Single side wire entry for tight installation spaces
- Ignition protected when latching cover is secured
- Protective cover has integrated label recesses for easy circuit/fuse identification
- Made of high temperature materials with stainless steel self-locking hardware
- Supports SAE & ABYC circuit protection standards
- Accepts ATO style fuses from 1 to 40A

EGI 8023 Battery term. mount, 3.59" x 1.73" x 1.28"
EGI 8045 4 circuit, 3.64" x 1.73" x 1.28"
EGI 8046 8 circuit, 5.75" x 1.73" x 1.28"

► Also See Fuses pg 02-050 to 051

Egis Split Buss Fuse Block

NEW

- Combined circuit protection and ground return buss
- 200A continuous current, 100A max per input
- Three fused high-amp (1-50A) outputs allow protection of all circuits
- Two fused output groups
- High temperature materials with stainless self locking hardware
- Expandable up to 31 fused outputs with RT or CT series fuse blocks
- Accepts ATM-mini series style fuses
- Supports SAE circuit protection standards
- L: 5" x W: 3.53" x H: 1.52" (including cover)



EGI 8033 200A

Hella ATO/ATC Fuse Block



- Covered fuse holder
- 4-gang fuse box
- Splash proof with 'O' ring seal
- Maximum voltage 32V
- Fits automotive style ATO fuses
- L: 2-5/8 x W: 1-1/16" x H: 1-1/2"

HLA H84960071

Sierra Modular ATO/ATC Fuse Blocks



FS40420

- Interlocking pieces snap together to create any number of circuits needed
- Ideal for adding circuits to most late model boats
- Ground bus bar

SIE FS40420 6 gang, 3-3/4" x 3-3/8"
SIE FS40430 4 gang, 3-1/8" x 3-3/8"
SIE FS40440 14 gang, 3-3/8" x 6-5/16"
SIE FS40740 10 gang, 3-3/8" x 5"

Parts:

SIE FS40730 Snap on ground bus bar, 1-5/16" x 3-3/8"

Sierra AGC Fuse Blocks

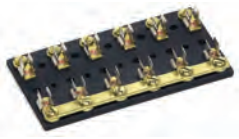


FS40520-1

- Heavy duty black molded plastic base
- Use SFE or AGC fuses up to 20A
- Brass fuse clips and 8-32 screws

SIE FS40500-1 2 gang, 1-3/8" x 2-3/8"
SIE FS40520-1 6 gang, 2-3/8" x 3-7/8"

Cole Hersee AGC Fuse Block



- Corrosion resistant construction
- Moisture repellent bakelite insulator base
- Brass terminals
- Nickel plated bronze clips
- Takes AGC style fuses
- Independent hot feed
- 6 terminal
- 2-1/4" x 4-1/4"

COH M-641-01-BP

Cole Hersee AGC Fuse Blocks



- Corrosion resistant construction
- Moisture repellent bakelite insulator base
- Brass terminals
- Nickel plated bronze clips
- Takes AGC style fuses
- Common hot feed with negative bus bar

Part #	Gangs	Dimensions
COH M-674	4	2-3/4" x 3-1/2"
COH M-674-BP	4	Blister packed

Sierra AGC Fuse/Junction Blocks



FS40550-1

- Heavy duty black molded plastic base
- Use with SFE or AGC fuses up to 20A
- Brass fuse clips and 8-32 terminal screws
- Common bus bar connects the hot side of the fuses for power feed
- Separate bus bar is provided for ground or un-fused common hot feed

SIE FS40550-1 4 Gang, 3-1/4" x 2-7/8"
SIE FS40560-1 6 Gang, 3-1/4" x 4-1/2"
SIE FS40570-1 ** 8 Gang, 3-1/4" x 6"
** While Stock Lasts

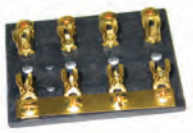
Sierra AGC Fuse Block with Bus Bar



- 4 Gang
- Heavy duty black plastic base
- Use with SFE or AGC fuses up to 20A
- Brass fuse clips and 1/4" Q.D. terminals
- Common bus bar connects the hot side of the fuses for power feed

SIE FS40630-1 ** 3-1/4" x 3"
** While Stock Lasts

Sierra AGC Fuse Block with Bus Bar



- 6 Gang
- Heavy duty black molded plastic base
- Use with SFE or AGC fuses up to 20A
- Brass fuse clips and 8-32 terminal screws
- Common bus bar connects the hot side of the fuses for power feed
- Bus bar has a stud terminal for main power connection

SIE FS40600-1 ** 2-3/8" x 4-1/2"
** While Stock Lasts

Sea-Dog AGC Fuse Block w/Bus Bar



- Includes built-in bus bar to conveniently connect electrical wires
- Accepts standard 1/4" x 1-1/4" AGC style fuses, sold separately
- Molded bakelite with brass fuse clips and screws, installs with #8 RH fasteners
- 20A @ 12VDC

SED 420526-1 6 Terminal, 2-7/16" x 4-1/2"

► *Also See* Fuses pg 02-050 to 051

Sea-Dog AGC Fuse/Terminal Blocks


420546-1

- Combination multiple gang fuse blocks with brass fuse clips and screws
- Can be used with 1/4" x 1-1/4" fuses for circuit distribution
- Separate grounding terminal bar
- Fuses not included

SED 420544-1 4 Gang, 3" x 3-5/16"
SED 420546-1 6 Gang, 4-1/2" x 3-5/16"

Blue Sea Systems SafetyHub 100 Fuse Block



Combines an ignition protected fuse block and integrated connecting plugs. It consolidates seven circuits from 1A-200A, eliminates loose wires, and protects fuses from explosive fumes.

- Three 30A-200A MIDI fuses ideal for high-amp circuits including panel feeds, windlasses, and stereo amplifiers
- Four 1A-20A ATO/ATC fuses ideal for circuits including bilge pumps, alarms, and clock memory
- Sealed cover protects fuses from the harsh marine environment: IP66 rating-protected against powerful water jets
- Integrated connector plugs eliminate loose wires and provide a secure, waterproof connection
- Ignition protected fusing meets Coast Guard and ABYC requirements for installation on gasoline or diesel powered boats
- Meets ISO 8846 ignition protection, and SAE J1171 external ignition protection requirements
- Fuses sold separately
- 4" x 5-3/4"

BSS 7725
Accessories:
BSS 7732B Engine link bus

Blue Sea Systems SafetyHub 150 Fuse Block



- An ignition protected fuse block with screw termination safe for use on gasoline powered boats
- Accepts four AMI or MIDI Fuses for high-amp circuits up to 200A
- Accepts six ATO or ATC Fuses for circuits up to 30A including bilge pumps, electronics and lights
- Sealed cover protects fuses from the harsh marine environment and satisfies ABYC/USCG insulation requirements
- Negative bus provides common location for negative connection
- Circuit identification label with write-on capability
- Fuse puller easily removes ATO or ATC Fuses
- Cover provides storage space for two spare ATO or ATC and two spare AMI or MIDI fuses and mounting screws
- One-piece stainless flange nuts ensure safe and secure connections
- Meets ISO 8846 ignition protection, and SAE J1171 external ignition protection requirements
- IP66-protected against powerful water jets
- Fuses sold separately
- W: 6.5" x H: 5.08"

BSS 7748
Accessories:
BSS 7732B Engine link bus

Newmar ANL Fuse Block



- 500A, insulated, compact fuse block with corrosion-resistant 5/16" studs
- Secures to surface with two # 10 flat head screws or bolts (not included)
- Clear lexan cover insulates conductive parts, per ABYC/USCG requirements
- Accepts industry standard ANL tin-plated copper fuses
- See-through mica element for easy identification of blown fuse
- Base: 3.4" x 1"; Cover: 6.25" x 2"

NEW AFB-500

ANL Fuses:

NEW ANL-200 200A
NEW ANL-250 250A
NEW ANL-400 400A



Blue Sea Systems ANL Fuse Blocks



- Insulating cover satisfies ABYC/USCG requirements and cover breakouts allow access in any direction
- For use on systems up to 32 Volts DC
- Large 5/16"-18 studs accept 5/16" (M8) ring terminals
- Swing out design allows replacement of the fuse without removing fasteners
- Stainless steel studs provide resistance to corrosion and high torquing for excellent electrical contact
- UL 94-V0 reinforced polycarbonate base resists high heat
- Insert molded studs ensure secure fuse mounting
- Cover breakouts allow wire access in any direction
- Fuse mounting blocks tin-plated copper
- Fuses sold separately (see below)

BSS 5005 300A
BSS 5503 750A

	5005	5503
Max Amps	300A	750A
Max torque	110 in-lb	107 in-lb
Mounting	#10	1/4"
Cable size	2/0	4/0
ANL fuses	35-300A	35-750A
Dimensions	H: 1.649" x W:1.5" x L:4.5"	H: 2.3" x W:2" x L:7"

ANL fuses for the 5503, 5504 & 5005 series fuse blocks.

- 40-500A ONLY (IP) Ignition protected, SAE J1171

BSS 5165 40A
BSS 5122 50A
BSS 5123 60A
BSS 5124 80A
BSS 5125 100A
BSS 5126 130A
BSS 5127 150A
BSS 5128 175A



BSS 5129 200A
BSS 5131 250A
BSS 5133 300A
BSS 5135 350A
BSS 5136 400A
BSS 5137 500A
BSS 5161 600A
BSS 5163 750A

Vertex ANL Fuses

VER 82042 ** 100A
VER 82051 ** 350A
** While Stock Lasts

► *Also See* Fuses pg 02-050 to 051

Blue Sea Systems Class T Fuse Blocks



- Ignition protected SAE J1171
- Allows for installation in gasoline engine compartments
- Four stud design provides ample access around connecting stud to install large cable lugs without obstruction from the fuse
- Insulating cover satisfies ABYC/USCG insulation requirements
- Cover breakouts allow wire access in any direction
- Stud design ensures secure fuse mounting even with high heat
- Stainless studs provide resistance to corrosion and high torque
- One-piece stainless flange nuts for safe and secure connection
- Fastener: 1/4" or M6 hardware
- Max Cable: 4/0 AWG
- UL 94-V0 base resists high heat
- Fuses sold separately
- W: 2" x L: 7" x H: 2.3"
- Terminal stud: 1/4"-20

BSS 5007100 110A - 200A

- Terminal stud: 3/8" - 16

BSS 5502100 225A - 400A

Blue Sea Systems Class T Fuse Block



- Come with a clear polycarbonate cover
- 3/8" stud, takes up to a 4/0 wire
- Fuses sold separately (see below)
- W: 2" x L: 7" x H: 2.3"

BSS 5502 225-400A

► Note:	*The class T fuse is not an ignition protected device so it should not be used inside gas engine rooms or other environments requiring ignition protected devices*

Class T Fuses



The Class T Fuse provides the most complete protection possible for high amperage circuits.

BSS 5112	110A	**BSS 5117**	225A
BSS 5113	125A	**BSS 5118**	250A
BSS 5114	150A	**BSS 5119**	300A
BSS 5115	175A	**BSS 5120**	350A
BSS 5116	200A	**BSS 5121**	400A

BEP Class T Fuses



- Time-delayed
- Interrupt capacity: 20,000A
- Max voltage: 160V

BEP FT-500-B 500A
BEP FT-600-B 600A

Blue Sea Systems MEGA or AMG Safety Fuse Block



- Accepts 5/16" (M8) ring terminals
- Insulating cover satisfies ABYC/USCG insulation requirements
- Insulating cover breakouts allow wire access in three directions
- Insert molded studs ensure secure fuse mounting
- Stainless steel studs provide resistance to corrosion and high torque for excellent electrical contact
- UL 94-V0 base resists high heat
- Fuses sold separately
- L: 4.07" x W: 1.5"

BSS 5001

Blue Sea Systems MEGA or AMG Safety Fuse Block



- Ignition protected for installation aboard gasoline or diesel powered boats
- Sealed cover protects fusest
- Insulating cover satisfies ABYC/ USCG requirements
- Cover breakouts allow wire access in any direction
- 300A maximum with 2/0 cable
- Fuses sold separately (see below)
- L: 4.92" x W: 1.51"

BSS 7721

MEGA or AMG Fuses

An economical, 100 to 300A fuse specifically designed for low voltage applications. 32V DC max.

- Sold by the each



BSS 5101	100A
BSS 5102	125A
BSS 5103	150A
BSS 5104	175A
BSS 5105	200A
BSS 5107	250A
BSS 5108	300A

Blue Sea Systems MIDI or AMI Safety Fuse Block



- Ignition protected for installation aboard gasoline or diesel powered boats
- Sealed cover protects fuses from the harsh marine environment
- Insulating cover satisfies ABYC/ USCG insulation requirements
- Cover breakouts allow wire access in any direction
- 200A maximum with 2/0 cable
- Fuses sold separately (see below)
- L: 4.92" x W: 1.51"

BSS 7720

MIDI or AMI Fuses

- Clear cover offers visible indication of blown fuses
- Colour-coded for easy amperage identification
- Ignition protected to SAE J1171 when used with Blue Sea Systems SafetyHub family of products
- Sold in packages of 2



BSS 5250	30A
BSS 5251	40A
BSS 5252	50A
BSS 5253	60A
BSS 5254	70A
BSS 5255	80A
BSS 5256	100A
BSS 5257	125A
BSS 5258	150A
BSS 5259	175A
BSS 5260	200A



5194



5196

Blue Sea Systems MRBF Surface Mount Fuse Blocks

- Surface mount fuse blocks accommodate three MRBF fuses for consolidated high amperage circuit protection
- Ideal for 3 output battery chargers
- Clip-on cover insulates terminal connections
- Versatile wiring options allow all wires to come out a single side
- Label recesses for easy circuit identification
- One-piece stainless flange nuts ensure safe and secure connections
- Mounting: Surface Mount M5 (#10)
- Terminal Stud Size: M8 (5/16"-18)
- Fuses sold separately

BSS 5194	Independent source
BSS 5196	Common source

Blue Sea Systems MRBF Terminal Fuse Blocks

- New isolated stud design uses standard M8 (5/16") hardware and permits stacking of terminals
- Compact, high-amp fuse—appropriate for DC Main, inverter, windlass, and bow thruster circuit protection
- Provides high current protection in tight space constraints
- Weatherproof—suitable for small open-cockpit boats and other harsh environments, IP66
- Insulating cap prevents accidental shorts
- Use 5/16" ring terminal, mounts to 3/8" battery terminal
- 5191 W: .79" x L: 2.4" x H: 1.75"
- 2151 W: .79" x L: 3.48" x H: 1.75"
- Fuses sold separately (see below)



BSS 5191	Single
BSS 2151	Double



Terminal Block Fuses

- Ignition protected, SAE J1171, IP66

Fuses sold separately

BSS 5175	30A
BSS 5176	40A
BSS 5177	50A
BSS 5178	60A
BSS 5180	75A
BSS 5181	80A
BSS 5182	90A
BSS 5183	100A
BSS 5184	125A
BSS 5185	150A
BSS 5186	175A
BSS 5187	200A
BSS 5189	250A
BSS 5190	300A



Vertex MRBF Terminal Fuse Blocks

- 300A, Fuses sold separately (see below)

VER 82066	Single post
VER 82067	Double post



Marine Rated Battery Fuses

VER 82054	30A
VER 82055	40A
VER 82056	50A
VER 82057	60A
VER 82556	75A
VER 82058	80A
VER 82551	90A
VER 82059	100A
VER 82060	125A
VER 82061	150A
VER 82552	175A
VER 82062	200A
VER 82063	225A
VER 82064	250A
VER 82065	300A



Sea-Dog Waterproof Mini ATM In-Line Fuse Holder



- Injection molded PVC
- 14 ga wire (12" per side)
- IP67 waterproof rating
- Max. 30A
- Fuses sold separately

SED 445098-1

Sea-Dog Waterproof Mini ATM In-Line Fuse Holder LED



- Injection molded PVC
- 14 ga wire (12" per side)
- LED indicator lights up when the fuse is blown
- IP67 waterproof rating
- Max. 30A
- Fuses sold separately

SED 445097-1

Blue Sea Systems MAXI In-Line Fuse Holder



- Supplied with 5 inch #6 red lead wire and two adhesive lined sealing shrink wrap tubes
- Fire wall surface mounting hole permits two or more holders to be mounted together
- Cover comes with a removable strap
- Max 60A, 12V
- Fuses sold separately

BSS 5068

Sea-Dog MAXI In-Line Fuse Holder



- Injection molded PVC
- Wire: 8 ga
- Maximum 35A
- Fuses sold separately

SED 445299-1

Blue Sea Systems ATO/ATC In-Line Fuse Holder



- For use with ATO or ATC fuses
- Supplied with 12 AWG pigtails
- 30A maximum fuse amperage
- Fuse sold separately

BSS 5064

Pico ATO/ATC In-Line Fuse Holders



- Heavy duty in-line fuse holder for use with 25 or 30A fuses
- Two 4" leads of 12 ga orange wire
- Fuse sold separately

PIC 978-BP Each
PIC 978-PK 10/pkg

Sea-Dog ATO/ATC In-Line Fuse Holder



- Injection molded fibreglass reinforced nylon
- 14 ga leads
- Max fuse 20A
- Fuse sold separately

SED 445199-1

Sierra ATO/ATC In-Line Fuse Holder



- 14 ga leads
- Max. 20A
- Fuse sold separately

SIE FS45410

Blue Sea Systems Waterproof ATO/ATC In-Line Fuse Holder



- IP67 waterproof rating
- 12 AWG wire
- 30A maximum fuse amps
- Fuse sold separately

BSS 5065

Pico Waterproof ATO/ATC In-Line Fuse Holder



- Waterproof
- Max fuse 40A
- 10 ga wire
- Colour coded to indicate amp rating
- Fuse sold separately

PIC 950-11

Sea-Dog Waterproof ATO/ATC In-Line Fuse Holder LED



- IP67 waterproof rating
- Injection molded PVC
- ATO/ATC style inline LED fuse holder
- LED indicator lights up when the fuse is blown
- 12ga 6" AWM wire lead
- Max. 30A

SED 445197-1

► *Also See* Fuses pg 02-050 to 051

Sea-Dog Waterproof ATO/ATC In-Line Fuse Holder



- IP67 waterproof rating
- Injection molded PVC
- ATO/ATC style inline fuse holder
- 12ga 6" AWM wire lead
- Max. 30A

SED 445198-1

Blue Sea Systems Waterproof ACG/MDL In-Line Fuse Holder

NEW



- Accepts 12-16 AWG wire
- 20A maximum fuse
- Fuse sold separately

BSS 5062

Sea-Dog AGC/MDL In-Line Fuse Holder



- Includes two terminals for 18-12 AWG wire
- Tin plated copper/injection molded nylon
- Fuse sold separately

SED 420570-1

Sierra Weatherproof ATO/ATC In-Line Fuse Holder



- Heavy duty for fuses to 30A
- 12 gauge wire leads for easy hook-up
- Fuse sold separately

SIE FS35870

Blue Sea Systems AGC/MDL In-Line Fuse Holder



- Accepts 12-18 AWG wire
- 30A Maximum fuse amperage
- Fuse sold separately

BSS 5063

Blue Sea Systems Waterproof In-Line Fuse Holder

NEW



- Accepts 12-16 AWG wire
- 20A Maximum fuse amperage
- Fuse sold separately

BSS 5063

Pico AGC In-Line Fuse Holders



- Constructed of rugged nylon
- Positive twist spring lock
- 16 ga wire for up to 15A
- Fuse sold separately

PIC 906-BP Each
PIC 906-PK 10/pkg

Pico AGC In-Line Fuse Holder



- Constructed of black thermoset nylon
- Spring locked, bayonet type knob
- Supplied with 6" loop of 14 gauge red wire
- Use with fuses up to 20A
- Fuse sold separately

PIC 905-PK 10/pkg

Pico AGC In-Line Fuse Holders



- Constructed of rugged nylon
- Positive twist spring lock
- 12 gauge wire for up to 30A
- Fuse not included

PIC 904-BP Each
PIC 904-PK 10/pkg

Sea-Dog AGC In-Line Fuse Holder



- 12 ga wire
- Max fuse 30A
- Includes 20A AGC fuse

SED 420500-1

Sierra AGC/SFE In-Line Fuse Holder



- Molded plastic construction
- 8" wire lead
- Bubble packed
- Complete with SFE fuse

SIE FS45360 14A

Sea-Dog Watertight AGC In-Line Fuse Holders



- Made from injection molded PVC
- Comes with one fuse

SED 420552-1 10A fuse/16 ga wire
SED 420553-1 15A fuse 14 ga wire
SED 420554-1 20A fuse/12 ga wire
SED 420555-1 30A fuse/10 ga wire
SED 420557-1 50A fuse/8 ga wire

Sea-Dog Watertight AGC In-Line Fuse Holder



- Made from injection molded PVC
- Holder has a case that is molded with a second fuse pocket for a spare fuse
- Max fuse 20A
- 12 ga wire
- Comes with two 20A fuses

SED 420564-1

Sierra Waterproof AGC/SFE In-Line Fuse Holders

- Best water resistant performance available


45440


45470

SIE FS45440 14 ga leads 20A
SIE FS45470 ** 10 ga leads 30A, SFE fuse included
** While Stock Lasts

Blue Sea Systems AGC Panel Mount Weatherproof Fuse Holder



- Rated to 20A.@ 12V
- Fuse not included

BSS 5021
Parts:
BSS 5022 Replacement cap

Sierra AGC Panel Mount Fuse Holder



- Spring loaded, holds any 1/4" x 1-1/4" fuse
- Use in panels up to 5/16"
- Comes w/gasket and spare nut
- Fuse not included

SIE FS45430

Sea-Dog AGC Panel Mount Fuse Holder


420502-1


420503-1

- Stamped brass/molded bakelite
- Rated to 15A.@ 12V
- Fuse not included

SED 420502-1 Solder-On terminal
SED 420503-1 Spade terminal

Sea-Dog AGC Panel Mount Fuse Holder



- Flush cap
- Stamped brass/molded bakelite
- Rated to 15A.@ 12V
- Fuse not included

SED 420504-1 Spade terminal

► *Also See* Fuses pg 02-050 to 051

3. Choose the Fuse Holder

a) Using the fuse type chosen from the Fuse Selection Chart, follow the column down to find fuse holders or fuse blocks that meet your specific requirements

b) Consider environmental factors:

- **Ignition protection** is required where flammable vapors may accumulate

  Example: Engine room and propane locker

  Consult American Boat and Yacht Council (ABYC) E-11.5.3 for Ignition Protection

- **Ingress protection** protects fuses from spray, washdown, and humidity. IP66-protected against powerful water jets

c) Decide between an in-line fuse holder or a fuse block:

- In-line fuse holders are compact and hold a single low-amperage fuse
- Fuse blocks mount to a solid surface and may hold a single fuse or multiple fuses

FUSE HOLDER SELECTION CHART

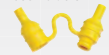
AGC® / MDL®

Crimpable In-Line Fuse Holder



5060

Waterproof In-Line Fuse Holders



5061 ●



5062 ●

Heavy Duty In-Line Fuse Holder



5063

ST Glass Fuse Blocks



5015
5018

ATO® or ATC® Fuse

ATO or ATC In-Line Fuse Holders



5064 5065

ST-Blade Fuse Blocks

Water-Resistant



5056100 ●

Battery Terminal Mount



5023 ●

Compact Fuse Block



5045 ●
5046 ●



Split Bus
5032

Independent
5035

Common
5025
5026
5028
5029

SafetyHub Fuse Blocks



7748 ● ●



7725 ● ●

MAXI® Fuse

MAXI In-Line Fuse Holder



5068

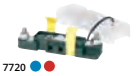
MAXI Fuse Block



5006100 ●

AMI® or MIDI® Fuse

AMI or MIDI Safety Fuse Block



7720 ● ●

SafetyHub Fuse Blocks



7748 ● ●



7725 ● ●

MRBF TERMINAL Fuse

Terminal MRBF Fuse Blocks



5191 ●



2151 ●



5194 ●



5196 ●

MEGA® or AMG® Fuse

MEGA or AMG Fuse Block



5001

MEGA or AMG Safety Fuse Block



7721 ● ●

CLASS T Fuse 110A to 200A

CLASS-T Fuse Block



5007100 ●

CLASS T Fuse 225A to 400A

CLASS-T Fuse Block



5502



5502100 ●

ANL® Fuse

ANL Fuse Blocks



5005 ●



5503 ●

Additional replacement fuses available from Blue Sea Systems:

GMA® Fuse 1A to 10A

AGA Fuse 20A

ATM® Fuse 5A to 30A

LEGEND

● Ingress protection
● Ignition protection

Choose the Correct Fuse and Fuse Amperage

a) Choose a fuse type by following the line of the AWG WIRE SIZE determined from the Wire Selection Chart

Appropriate fuses will have an amperage that intersects the AWG Wire Size line.

b) The appropriate fuse amperage will be found in one of the four gray bars below the fuse type

- Single Wire, Outside Engine Room = First column dark gray bar
- Single Wire, Inside Engine Room = First column light gray bar
- Bundled Wire, Outside Engine Room = Second column dark gray bar
- Bundled Wire, Inside Engine Room = Second column light gray bar

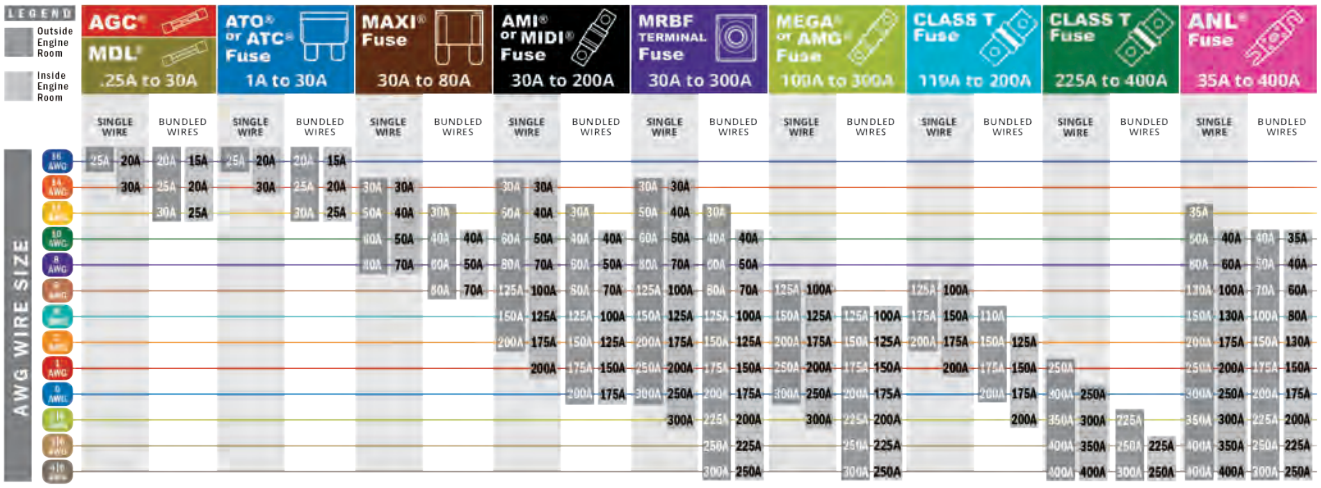
Example: For a 4 AWG single 105°C rated wire outside an engine room, the maximum fuse amperage is 150A.

Note: Possible fuse amperages for a circuit can fall between a range of maximum and minimum fuse amperages. The procedure in step 1 calculates the maximum fuse amperage which reduces nuisance blows but may offer less protection than a lower amperage fuse. The minimum fuse amperage is calculated by multiplying the current flow in amps by 125%. If the product instructions specify a fuse amperage, use that value if it is under the maximum amperage found in the step 1 procedure. If the specified fuse amperage is over the maximum suggested, move down the column and choose the wire size that intersects with the specified fuse amperage.

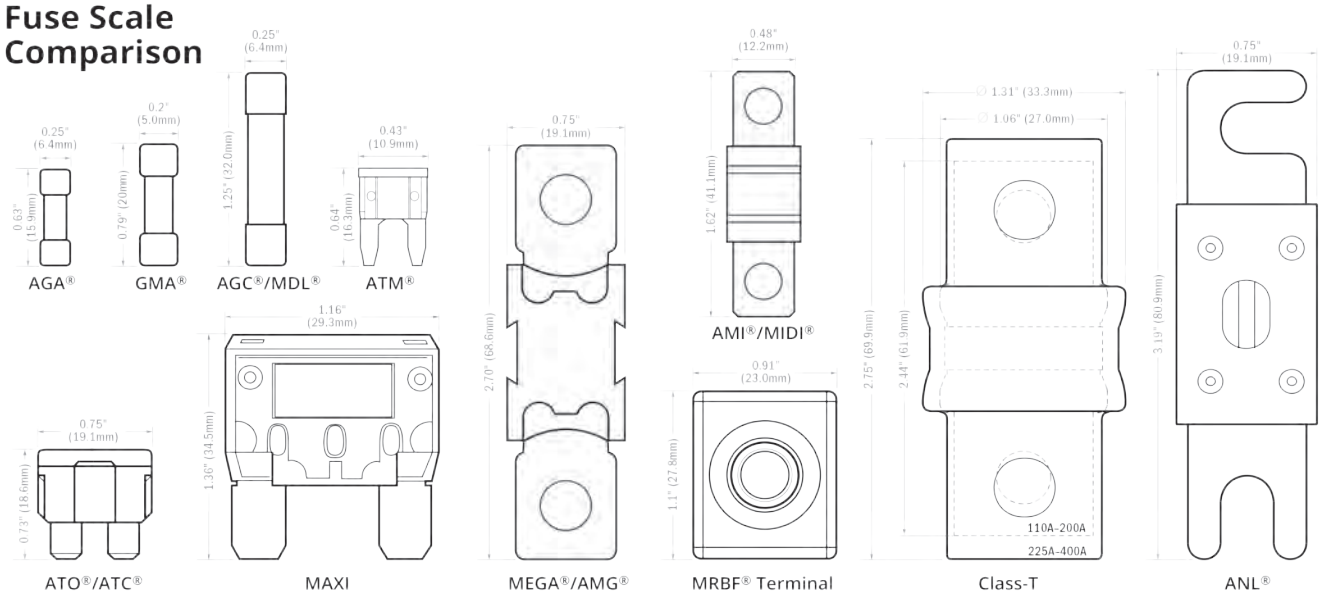
Calculations are based on 105°C wire. For more detailed calculations, download the Circuit Wizard app or go to circuitwizard.bluesea.com

Fuse types selected should be verified to carry an ampere interrupting capacity (AIC) that meets the requirements of ABYC E-11.10.1.2.2 or E-11.10.1.2.3, based on the total capacity of the battery or battery bank supplying current through the fuse. This should include all batteries or banks that could be put in parallel through the use of a battery selection, or cross connection switch if the fuse is installed on the load side of the switch.

FUSE SELECTION CHART



Fuse Scale Comparison



Sea-Dog ATO Fuses



- Tin plated zinc alloy/injection molded nylon
- 5/pkg

SED 445102-1	2A
SED 445103-1	3A
SED 445105-1	5A
SED 445107-1	7.5A
SED 445110-1	10A
SED 445115-1	15A
SED 445120-1	20A
SED 445125-1	25A
SED 445130-1	30A
SED 445140-1	40A

Blue Sea Systems ATO/ATC Fuses



- Fast-acting type fuses ideal for electronic devices
- Tin-plated connector blades for corrosion resistance
- Max. voltage: 32VDC

2/Pkg	25/Pkg	Amps	Colour
BSS 5235	**BSS 5235100**	1	Black
BSS 5236	**BSS 5236100**	2	Grey
BSS 5237	**BSS 5237100**	3	Violet
BSS 5238	-	4	Pink
BSS 5239	**BSS 5239100**	5	Tan
BSS 5240	**BSS 5240100**	7.5	Brown
BSS 5241	**BSS 5241100**	10	Red
BSS 5242	**BSS 5242100**	15	Blue
BSS 5243	**BSS 5243100**	20	Yellow
BSS 5244	**BSS 5244100**	25	Clear
BSS 5245	**BSS 5245100**	30	Green

Sierra ATO/ATC Fuses



- 5/pkg

Part #	Amps	Colour
SIE FS79480	1	Black
SIE FS79490	2	Grey
SIE FS79500	3	Violet
SIE FS79510	4	Pink
SIE FS79520	5	Tan
SIE FS79530	7.5	Brown
SIE FS79540	10	Red
SIE FS79550	15	Blue
SIE FS79560	20	Yellow
SIE FS79570	25	Clear
SIE FS79580	30	Green
SIE FS79590	40	Orange

Sea-Dog ATO/ATC Mixed Fuse Kit



- Assorted amps, set of 5 each: 3, 5, 7, 10, 15 and 20A fuses

SED 445190-1 30 fuses total

Sea-Dog ATM Mini Blade Mixed Fuse Kit



- Mini blade style mixed set of 5 each: 3, 5, 7.5, 10, 15 and 20A fuses

SED 445090-1 30 fuses total

Blue Sea Systems LED Easy ID LED ATO/ATC Fuses

EasyID illuminated ATC blade fuses use LED technology to show that a fuse has blown, making them easy to spot in fuse panels tucked up under dark dashboards.

- Replaces non illuminating ATO or ATC fuses
- Tin-plated connector blades
- Max. voltage: 32VDC
- 2/pkg



Part #	Amps	Colour
BSS 5291	3	Pink
BSS 5292	5	Tan
BSS 5293	7.5	Brown
BSS 5294	10	Red
BSS 5295	15	Blue
BSS 5296	20	Yellow
BSS 5297	25	Clear
BSS 5298	30	Green
BSS 5299	40	Orange

Blue Sea Systems Easy ID Fuse Kit



- 4 each of: 1A, 2A, 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
- Includes fuse puller

BSS 5290 31 pieces total

Blue Sea Systems ATO/ATC Fuse Kit



- 1 each of: 5A, 10A, 15A, 20A, 25A, 30A
- Max voltage: 32V

BSS 5287 6 pieces total

Blue Sea Systems ATO/ATC-Style Low Profile Circuit Breakers

- Drop in replacement for ATO and ATC blade style fuses
- Manual push button reset complies with ABYC circuit protection requirements
- Compatible with W/R ST-Blade Fuse Block (5056) with cover secured, and all other ST-Blade Fuse Blocks without cover
- Ignition protected
- Max. voltage: 32V
- 2/pkg



Part #	Amps	Colour
BSS 7062	5	Light Brown
BSS 7063	7.5	Brown
BSS 7067	25	White
BSS 7068	30	Green

Sea-Dog Fuse Cover



- Fits Gloso E39 (T3) manual reset circuit breaker/fuse ATC/ATO holder
- Mounting tab
- Clear polycarbonate
- W: 9/16" x H: 2-1/18" x D: 3/8"

SED 425390-1

Blue Sea Systems Maxi Fuses

- Tin-plated connector blades for corrosion resistance
- Visible indication of blown condition

Part #	Amps	Colour
BSS 5138	30	Green
BSS 5139	40	Orange
BSS 5140	50	Red
BSS 5141	60	Blue
BSS 5142	70	Brown
BSS 5143	80	Yellow



Blue Sea Systems ATM Fuses

- Colour-coded for easy amperage identification
- Maximum Voltage: 32V
- 2/pkg

Item #	Amps	Colour
BSS 5270	5	Brown
BSS 5271	10	Red
BSS 5272	15	Blue
BSS 5273	20	Yellow
BSS 5274	30	Green



Blue Sea Systems AGC Fuses

- Visible indication of blown condition
- AGC fuses are typically used in DC systems up to 32V
- AGC fuses to 10A are rated for use in AC at 125V AC and to a maximum 250V AC

25/pkg	5/pkg	Amps
-	**BSS 5202**	.5
BSS 5204100	**BSS 5204**	1
-	**BSS 5205**	1.5
BSS 5206100	**BSS 5206**	2
-	**BSS 5207**	2.5
BSS 5208100	**BSS 5208**	3
-	**BSS 5209**	4
BSS 5210100	**BSS 5210**	5
-	**BSS 5211**	6
-	**BSS 5212**	7
BSS 5213100	**BSS 5213**	7.5
BSS 5215100	**BSS 5215**	10
BSS 5217100	**BSS 5217**	15
BSS 5218100	**BSS 5218**	20
BSS 5219100	**BSS 5219**	25
BSS 5220100	**BSS 5220**	30



Sierra AGC Fuses

- 1/4" x 1-1/4"
- 5/pkg



SIE FS79090	1A	**SIE FS79150**	6A
SIE FS79100	1.5A	**SIE FS79160**	7.5A
SIE FS79110	2A	**SIE FS79170**	10A
SIE FS79470	2.5A	**SIE FS79180**	15A
SIE FS79120	3A	**SIE FS79190**	20A
SIE FS79130	4A	**SIE FS79200**	25A
SIE FS79140	5A	**SIE FS79210**	30A

Sea-Dog AGC Fuses

- 1/4" x 1-1/4"
- 5/pkg

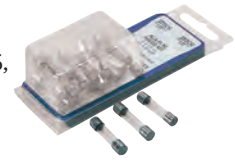


SED 444101-1	1A
SED 444102-1	2A
SED 444103-1	3A
SED 444105-1	5A
SED 444157-1	7.5A
SED 444110-1	10A
SED 444115-1	15A
SED 444120-1	20A
SED 444130-1	30A

Sea-Dog AGC Mixed Fuse Kit

- AGC style mixed set of 5 each: 3, 5, 7.5, 10, 15 and 20A fuses

SED 444190-1 30 fuses total



Sierra AGC/SFE Fuse Kit

- AGC 5, 10, 15A, & 30A
- SFE 20A

SIE FS79630



Sierra SFE Fuses

- 5/pkg

Part #	Amperage	Size
SIE FS79270	14	1/4" x 1"
SIE FS79280	20	1/4" x 1-1/4"



Pico SFE Fuses

- SFE 20 fuses
- 5/pkg

PIC 9695-14



Sierra MDL Slow-Blow Fuses

- 1/4" x 1-1/4"
- 5/pkg



SIE FS79300	3A
SIE FS79310	4A
SIE FS79320	5A
SIE FS79330 **	6.25A

** While Stock Lasts

Blue Sea Systems GMA Fuses

- Visible indication of blown condition
- 3/pkg



BSS 5280	1A
BSS 5281	2A
BSS 5283	5A
BSS 5285	10A

Sierra AGA Fuses

- 1/4" x 5/8"
- 5/pkg



SIE FS79050 **	15A
SIE FS79060	20A

** While Stock Lasts

Blue Sea Systems A-Series Single Pole AC/DC Magnetic Breakers

- Combines switching & circuit protection into a single device
- Max voltage: 32VDC or 240VAC

Part #	Amperage	Colour
BSS 7197	2.5	White
BSS 7200	5	Black
BSS 7202	5	White
BSS 7204	10	Black
BSS 7206	10	White
BSS 7208	15	Black
BSS 7209	15	Red
BSS 7210	15	White
BSS 7212	20	Black
BSS 7214	20	White
BSS 7216	25	Black
BSS 7218	25	White
BSS 7220	30	Black
BSS 7222	30	White
BSS 7224	40	Black
BSS 7226	40	White
BSS 7230	50	White





Operating Temp Range: .....-40 degrees C to +85 degrees C
Rated Switch Cycles: .....10,000 @ rated amperage and voltage
Maximum Voltage Rating: .....277 Volts AC, 65VDC
Mounting Screw: .....#8-32 - Recommended torque 6-8 lbs
Circuit Breaker Type: .....Magnetic Hydraulic - trip free
Weight lb (Kg): 0.17 (0.08)
Terminal Screw: .....#10-32 S/S with tooth lock washer
Recommended .....torque 14-15 in-lb

Blue Sea Systems A-Series Double Pole AC/DC Magnetic Breakers

- Double pole breaker, used as an AC main circuit breaker, is used to switch both hot and neutral legs
- Combines switching & circuit protection
- Used as 120/240V AC branch circuit breakers to switch line 1 and line 2
- "Trip Free" design cannot be held "ON" during fault current condition





BSS 7235 15A - White
BSS 7237 30A - Black
BSS 7260 20A - White
BSS 7238 30A - White
BSS 7240 40A - White
BSS 7242 50A - White

CE

Circuit Breaker Type .....Magnetic Hydraulic - Trip Free
Maximum Amperage 50A
Maximum Voltage .....277 Volts AC/65VDC
Rated Switch Cycles .....10,000 @ rated amperage and volts
Weight.....0.34Lb (0.15Kg)
Mounting screw.....#6-32
Terminal screw.....#10-32 S/S w/lock washer
Temp. Range.....40C° to +85C°

BEP B-Series AC/DC Magnetic Breakers



Airpack Switch magnetic circuit breakers feature:
- Trip free mechanism
- Temperature stable
- Common trip linkage between all poles

BEP CBS-5A-SP Single pole, 5A
BEP CBS-10A-SP Single pole, 10A
BEP CBS-15A-SP Single pole, 15A
BEP CBS-20A-SP Single pole, 20A
BEP CBS-25A-SP Single pole, 25A
BEP CBS-40A-SP * Single pole, 40A
BEP CBS-20A-DP Double pole, 20A
BEP CBS-25A-DP * Double pole, 25A
BEP CBS-30A-DP Double pole, 30A

Parts:
BEP 121-7101101/1 Toggle lock

* Special Order - may have stock

Blue Sea Systems A-Series Flat Rocker Circuit Breakers

- Rocker actuator is flush in the 'ON' position
- Colour actuator indicates 'OFF' position
- 'Trip Free' design cannot be held 'ON' during fault current condition
- Prevents accidental switching of 24 hour circuits
- ON/OFF symbols support vertical or horizontal mounting

Single Pole

- H .75" x W .2.217"



BSS 7400 5A
BSS 7401 8A
BSS 7402 10A
BSS 7403 15A
BSS 7404 20A
BSS 7405 25A
BSS 7406 30A
BSS 7407 40A
BSS 7408 50A

Double Pole

- H 1.5" x W 2.31"



BSS 7414 30A
BSS 7416 40A

Blue Sea Systems AC Flat Rocker Circuit Breaker



- 30A double pole residual current circuit breaker (ELCI)
- Provides over current and leakage protection per ABYC E-11 for whole boat shore power protection
- Meets UL 1500 external ignition protection requirements
- Trips on short circuit, overload, or leakage to ground
- Front panel mount-installed in a power distribution panel

BSS 3102100

Blue Sea Systems C-Series Flat Rocker Circuit Breakers

- Rocker actuator is flush in the 'ON' position, eliminating the risk of accidental switching
- Colour actuator indicates 'OFF' position
- 'Trip Free' design cannot be held 'ON' during fault current condition
- Prevents accidental switching of 24 hour circuits
- International ON/OFF symbols support vertical or horizontal mounting

Single Pole

- H 2.55" x W .75"

BSS 7540	5A
BSS 7541	10A
BSS 7542	15A
BSS 7543	20A
BSS 7545	30A
BSS 7546	50A
BSS 7549	100A



Triple Pole

- 5,000A interrupt capacity
- H 2.55" x W 2.25"

BSS 7554	300A
BSS 7565	50A



Blue Sea Systems C-Series Magnetic Breakers

- "Trip Free" design
- White, toggle
- Max voltage: 80VDC or 240VAC

Single Pole

BSS 7350	5A DC
BSS 7351	10A DC
BSS 7352	15A DC
BSS 7353	20A DC
BSS 7354	25A DC
BSS 7355	30A DC
BSS 7244	50A DC
BSS 7246	60A DC
BSS 7248	80A DC †
BSS 7250	100A DC †

† Only supports motor loads up to 48V



Double Pole

BSS 7365	30A AC
BSS 7254	60A AC
BSS 7258	100A AC †

† Only supports motor loads up to 48V



Triple Pole

BSS 7287	50A AC
Parts:	
BSS 8035	Breaker screws, 6/pkg



► *Also See* Mounting Panels pg 02-038

Blue Sea Systems Push Button CLB Thermal Breakers

- Low cost "Trip free" circuit breakers
- Compact design enables high density configurations
- Maximum voltage: 28 DC
- 3/8-27 x 1/8" mounting stem

Screw Terminal:

BSS 2129	3A
BSS 2130	5A
BSS 2131	7A
BSS 2132	10A
BSS 2133	15A
BSS 2134	20A
BSS 2135	25A
BSS 2136	30A
BSS 2137	40A



Quick Connect Terminal:

BSS 7050	3A
BSS 7052	5A
BSS 7053	7A
BSS 7054	10A
BSS 7056	15A
BSS 7057	20A
BSS 7058	25A
BSS 7059	30A
BSS 7061	40A
Parts:	
BSS 4135	Clear boot cover, 2/pkg
BSS 4136	White boot cover, 2/pkg
BSS 4137	Black boot cover, 2/pkg





4135



4136



4137

Blue Sea Systems Medium Duty Push Button Circuit Breakers



- Weatherproof
- Can be used as Main, Branch, or 24 hour circuit protection
- Push-to-reset operation
- "Trip Free" design cannot be held "ON"
- Ignition protected - Safe for gasoline powered boats
- Captive star lock washers meet requirements for anti-rotation and eliminate handling of small, easily dropped parts
- Push button cut-out dimension: .57"

BSS 2138	15A
BSS 2139	20A
BSS 2140	30A
BSS 2141	40A
BSS 2142	50A
BSS 2143	60A

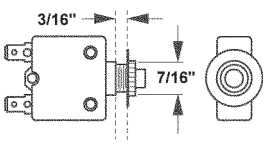
Interrupt Rating: ..... 5,000A@32 Volts DC
..... 3,000A@120 Volts AC
Max Volts Rating: ... 32 Volts DC/120 Volts AC
Mounting: ..... #8-32 Screws
Terminal Stud: ..... #10-32 Stainless Steel

Sea-Dog Reset Breakers



- Stamped brass and molded bakelite

SED 420806-1	6A
SED 420808-1	8A
SED 420810-1	10A
SED 420815-1	15A
SED 420820-1	20A
SED 420830-1	30A
Accessories:	
SED 420839-1	Splash guard boot



Sierra
Push Button Resettable Circuit Breaker



- Rated @ 20A
- Replacements for panel mounted breakers
- Two 1/4" blade terminals
- Mounts in a 3/8" hole
- White reset button

SIE CB41230

Sure Power
Resettable Circuit Breakers



- Continuous, heavy duty, manual reset breakers
- L: 2.93" x W: 1.55" x D: 1.65" (w/o gasket)
- Push button cut-out dimension: 3/4"
- Use 10-32 UNF fasteners

Part #	Rating Amps	Load Amps	Alternator Rating
SUR 1508M	80	70	120
SUR SDLM120	120	110	150
SUR SDLM150	150	140	200
Thermal auto reset			
SUR 1512-D	120	110	150
SUR 1515-D	150	140	200

Cole Hersee Circuit Breaker



- Two 10/32" stud terminals
- Two 0.22" holes, 1.56" on centre
- Dimensions 2.0" L x .78" W x 1.37" H
- Rated for 12 V.D.C. applications

TYPE I-Cycling Circuit Breakers with mounting bracket. (Type I- means cycles or continuously resets until overload is corrected)

COH 30055-20 20A

Egis Circuit Breakers



- Harsh environment design with shock and vibration resistance
- 32V rating and short-circuit interrupt capability
- Meets ABYC E-11 interrupt requirements (Rating 3000A @ 32V)
- Ignition protected
- Trip-free design cannot be forced on during fault condition
- #10-32 terminal studs

EGI 4712-15 15A
EGI 4712-20 20A
EGI 4712-30 30A
EGI 4712-40 40A
EGI 4712-50 50A
EGI 4712-60 60A

Egis Circuit Breakers



- Traditional battery disconnect switching (non-engine) with circuit protection
- 42V maximum rating; ideal for trolling motor circuit switching applications
- Ignition protected; shock and vibration resistant
- Made of high temperature materials with stainless self-locking hardware
- IP66; IP67 when flush mounted
- SAE & ABYC compliant
- H: 2.5" x W: 1.75" x D: 2.16"

EGI 4701-20 20A
EGI 4701-30 30A
EGI 4701-40 40A
EGI 4701-50 50A
EGI 4701-60 60A

Blue Sea Systems
Short Stop Circuit Breakers

- All corrosion resistant materials
- IP64 water resistant boot protects against dust and water
- Push-to-reset operation only disconnects when tripped
- Stainless steel lock nuts for secure connections
- Red insulating boot included
- Maximum Voltage: 28VDC
- #10-32 Terminal studs, 3/16" mounting screws
- 1-9/16" centre measurement
- L: 2" x W: .95" x H: 1.278"

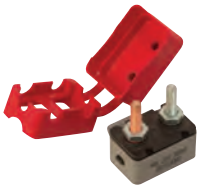


BSS 7151 10A
BSS 7152 15A
BSS 7153 20A
BSS 7154 25A
BSS 7155 30A
BSS 7156 40A
BSS 7157 50A

Accessories

BSS 7160 Replacement boot

Sea-Dog Resettable Circuit Breakers



- Injection molded nylon and stamped brass
- Splash proof
- 12 or 24V applications
- 7/8" x 1-5/16" overall without mounting tab
- Cover is optional

Breaker Only

SED 420842-1 20A, Breaker only
SED 420843-1 30A, Breaker only
SED 420844-1 40A, Breaker only
SED 420845-1 50A, Breaker only
SED 420852-1 20A, with cover
SED 420853-1 30A, with cover
SED 420854-1 40A, with cover
SED 420855-1 50A, with cover
SED 420840-1 Cover only

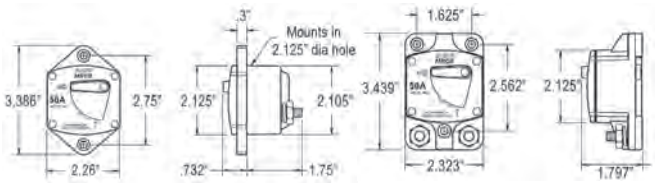
Blue Sea Systems
Bussmann 187 Series Circuit Breakers

- Combines switching and circuit protection into a single device
- Ignition protected - Meets SAE J1171 external ignition protection requirements
- Clear, single lever operation
- Trip-free design cannot be held "ON" during fault current
- Vaporproof/Waterproof
- Recessed mounting holes for clean appearance
- Self-trimming case eliminates the need for mounting panels
- Round case permits installation with standard sized hole saw
- Large clearance terminal studs accept heavy gauge wire lugs
- Robust 5/16 terminals provide high torque connections
- Large lever provides indication of trip status
- Safe for installation aboard gasoline powered boats
- Mounting hole accepts #10 (M5) fasteners

Panel Mount		Surface Mount	
BSS 7035	25A	**BSS 7135**	25A
BSS 7036	30A	**BSS 7136**	30A
BSS 7038	40A	**BSS 7138**	40A
BSS 7039	50A	**BSS 7139**	50A
BSS 7040	60A	**BSS 7140**	60A
BSS 7041	70A	**BSS 7141**	70A
BSS 7042	80A	**BSS 7142**	80A
BSS 7043	90A	**BSS 7143**	90A
BSS 7044	100A	**BSS 7144**	100A
BSS 7046	120A	**BSS 7146**	120A
BSS 7047	135A	**BSS 7147**	135A
BSS 7048	150A	**BSS 7148**	150A
-	-	**BSS 7149**	200A


Panel


Surface



Type ..... Thermally Responsive Bi-Metal Blade
Case Material ..... Thermoset Polyester
Amperage 25-150A
Voltage Rating ..... 48VDC Maximum
Interrupt Rating ..... 5,000A @ 12VDC
..... 3,000A @ 24VDC
..... 1,500A @ 42VDC

Blue Sea Systems Mounting Panel



- Self trimming molded rubber bezel
- For 185 & 285 series breaker

BSS 7198 3.34" H x 2.44" W

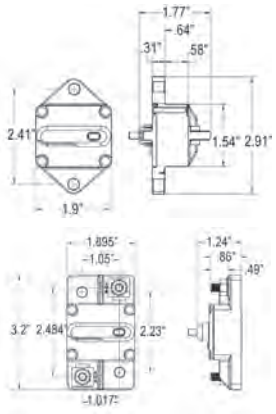
Blue Sea Systems
Bussmann 285 Series Circuit Breakers


Panel


Surface

- Visible reset lever shows open condition
- Ignition protected
- Meets SAE J1171 external ignition protection requirements
- Weather Resistant
- Combines switching and circuit breaker function into one unit
- Trip-free - cannot be held closed after trip
- Max voltage: 48V
- Mounting hole accepts 1/4" (M6) fasteners

Panel Mount	Surface Mount	Amps
BSS 7080	**BSS 7180**	25
BSS 7081	**BSS 7181**	30
BSS 7082	**BSS 7182**	40
BSS 7083	**BSS 7183**	50
BSS 7084	**BSS 7184**	60
BSS 7085	**BSS 7185**	70
BSS 7086	**BSS 7186**	80
BSS 7087	**BSS 7187**	100
-	**BSS 7188**	120
BSS 7089	**BSS 7189**	150



Egis Circuit Breakers


Panel


Surface

- High voltage rating supports 12 and 24V applications, while offering advanced protection for 36 and 48V applications
- High electrical/manual switching endurance delivers 2,000 cycles at full current
- High interrupt current
- Ignition protected
- Automatic circuit protection and manual On/Off switching dual functionality
- Visual indication of circuit opened by yellow paddle, which can also be used for resetting to On
- IP66
- High temperature materials with stainless self-locking hardware
- Meets ABYC E-11 interrupt requirements

Panel Mount		Surface Mount	
EGI 4707-025	25A	**EGI 4704-025**	25A
EGI 4707-030	30A	**EGI 4704-030**	30A
EGI 4707-040	40A	**EGI 4704-040**	40A
EGI 4707-050	50A	**EGI 4704-050**	50A
EGI 4707-060	60A	**EGI 4704-060**	60A
EGI 4707-070	70A	**EGI 4704-070**	70A
EGI 4707-080	80A	**EGI 4704-080**	80A
EGI 4707-090	90A	**EGI 4704-090**	90A
EGI 4707-100	100A	**EGI 4704-100**	100A
EGI 4707-120	120A	**EGI 4704-120**	120A
EGI 4707-135	135A	**EGI 4704-135**	135A
EGI 4707-150	150A	**EGI 4704-150**	150A
EGI 4707-200	200A	**EGI 4704-200**	200A
EGI 4707-250	250A	**EGI 4704-250**	250A

Voltage Rating ..... 48VDC Maximum
Interrupt Rating ..... 5,000A @ 14VDC
..... 3,000A @ 28VDC

Egis Thermal Circuit Breakers

- High voltage rating supports 12 and 24V applications, while offering advanced protection for 36 and 48V applications
- High electrical/manual switching endurance delivers 6,000 cycles at full current
- High interrupt current
- Ignition protected
- Automatic circuit protection and manual On/Off switching dual functionality
- Visual indication of circuit opened by yellow paddle, which can also be used for resetting to On
- IP66
- High temperature materials with stainless self-locking hardware



Panel



Surface

Panel Mount		Surface Mount	
EGI 4706-025	25A	**EGI 4703-025**	25A
EGI 4706-030	30A	**EGI 4703-030**	30A
EGI 4706-040	40A	**EGI 4703-040**	40A
EGI 4706-050	50A	**EGI 4703-050**	50A
EGI 4706-060	60A	**EGI 4703-060**	60A
EGI 4706-070	70A	**EGI 4703-070**	70A
EGI 4706-080	80A	**EGI 4703-080**	80A
EGI 4706-100	100A	**EGI 4703-100**	100A
EGI 4706-120	120A	**EGI 4703-120**	120A
EGI 4706-150	150A	**EGI 4703-150**	150A

Voltage Rating ..... 48VDC Maximum
Interrupt Rating ..... 5,000A @ 16VDC
..... 3,000A @ 32VDC

Egis Thermal Circuit Breakers

- Up to 24V rated, easily supports 12V (200 & 250A) and 24V (200A) applications
- High interrupt current
- Ignition protected
- Automatic circuit protection and manual On/Off switching dual functionality
- Visual indication of circuit opened by yellow paddle, which can also be used for resetting to On
- Sealed against dust and water intrusion
- IP67/IP6K9K
- Made of high temperature materials with stainless self-locking hardware



Surface Mount	
EGI 4709-175	175A
EGI 4709-200	200A
EGI 4709-250	250A

Voltage Rating ..... 30VDC Maximum (175A & 200A)
..... 14VDC Maximum (250A)
Interrupt Rating ..... 2,500A @ 14VDC
..... 1,500A @ 28VDC

BEP Pro Installer Series Heavy Duty Bus Bars

- Studs treated with anti-seize lubricant
- Tinned CDA102 Copper conductors
- Stainless steel studs, washers and nuts
- Generous stud lengths, metric threads
- 50V

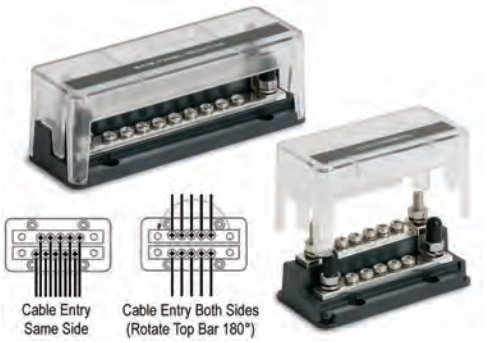


Part #	Studs	Max Amps	L x W x H	Qty
BEP 777-BB3S-650	3 x 10mm (3/8")	650A	3.8" x 1.9" x 2.4"	Pkg
BEP 777-BB3S-650-B				Bulk
BEP 777-BB4S-500-B	4 x 8mm (5/16")	500A	3.8" x 1.9" x 2.4"	Bulk
BEP 777-BB5S-650	5 x 10mm (3/8")	650A	5.8" x 1.9" x 2.4"	Pkg
BEP 777-BB5S-650-B				Bulk
BEP 777-BB8S-650	8 x 10mm (3/8")	650A	9.8" x 1.9" x 2.4"	Pkg
BEP 777-BB8S-650-B				Bulk

BEP Pro Installer Series Z Bus Bars

- Maximize power density by utilizing high and low level bars to optimize cable runs
- 4x 6mm (1/4") studs with anti-seize lubricant
- 4mm (5/32") terminals with captive lock washers
- 200A maximum per bar (2x 200A)
- Sold in bulk

BEP 777-Z10W-200-B 10 way 3.8" x 1.9" x 2.4"
BEP 777-Z18W-200-B 18 way 5.8" x 1.9" x 2.4"





Pro Installer Series Features and Benefits:

- Common interconnection height makes it easy to 'cluster' products
- Modular assemblies offer unrivalled flexibility in design/layout
- Reduced individual footprints save additional space for the most compact installations
- High-temperature, fibre reinforced base materials for strength and chemical resistance
- Tin plated copper conductors
- Radiused bar ends and generous stud lengths improve cable routing options for large cables
- Stainless steel studs, washers and nuts
- Covers feature snap-out side skirts for additional cable entry as required
- Innovative clear covers insulate/protect on three sides, and include recesses for convenient labelling

BEP Pro Installer Series Insulated Power Studs

A double stud version with 10 mm and 8 mm studs is also included for extending outboard motor cables. The Power Tapping Plate single stud models provide convenient termination points for additional small cables.

- Power tapping plate: 4 x 4 mm (5/16") terminals
- Maximum current through power tapping plate: 50A per terminal (4x 50A maximum)
- Insert moulded studs with metric threads
- Sold in bulk
- W: 1.9" x D: 1.9" x H: 2.4"



IST-8MM-1S-B
IST-10MM-1S-B



IST-10MM-2S-B



IST-8MM-1SPT-B
IST-10MM-1SPT-B

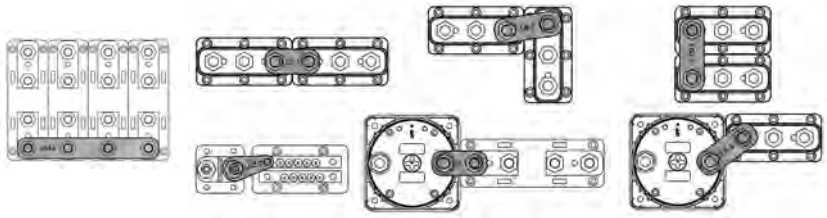


IST-10MM-8MM-B

Part #	Description	Studs
BEP IST-8MM-1S-B	Single Stud	8mm (5/16")
BEP IST-10MM-1S-B	Single Stud	10mm (3/8") (10mm)
BEP IST-10MM-2S-B	Double Stud	10mm (3/8") (10mm)
BEP IST-8MM-1SPT-B	Single Stud W/Power Plate	8mm (5/16") (8mm)
BEP IST-10MM-1SPT-B	Single Stud W/Power Plate	10mm (3/8") (10mm)
BEP IST-10MM-8MM-B	Double Stud	8mm (5/16") & 10mm (3/8") studs

BEP Pro Installer Series Link Bars

- High purity copper, tin plated for optimum electrical performance
- Fastest, most economic way of connecting product
- Saves space, allows clustering for the most compact installations
- Links can be doubled for higher loads



Part #	Description	Function	Max Amps	L x W	Qty
BEP 779-LB-1-B5	Link Bar 31-34.7mm	Short Link Bar 8 & 10mm studs	650	2.2" x 1.0"	5/pkg
BEP 779-LB-2-B5	Link Bar 35.5-42.5mm	Medium Link Bar 8 & 10mm studs	650	2.8" x 1.0"	5/pkg
BEP 779-LBZ-1-B **	Link Z Bar to Z Bar	Joins Z Bars End to End, Back to Back	250	2.0" x 0.5"	5/pkg
BEP 779-LBJ-3-B	Joiner 3-way	Side to Side joiner 3 products	525	4.9" x 1.0"	each
BEP 779-LBJ-4-B	Joiner 4-way	Side to Side joiner 4 products	450	6.9" x 1.0"	each
BEP 779-LBJ-5-B	Joiner 5-way	Side to Side joiner 5 products	400	8.8" x 1.0"	each
BEP 779-LBJ-6-B	Joiner 6-way	Side to Side joiner 6 products	350	10.8" x 1.0"	each

** While Stock Lasts


770-DP-EZ


770-EZ-B


771-S-EZ-B


772-DBC-EZ

BEP Pro Installer Series Battery Switches

- Meet global industry standards UL1107, CE and ABYC
- Ignition protected
- IP66 rated
- Removable side plates
- Ergomonic removable switch knobs
- Surface mount only
- Voltage: 48VDC (for 12–48V systems)
- Rating: 400 Cont / 600 Inter / 1500 Crank
- Dim: 3.85" x 3.85" x 3.62" / 98 x 98 x 92 mm

BEP 770-DP-EZ On/Off, Double Pole, 4x 10mm (3/8")
BEP 770-EZ-B On/Off, 2x 10mm (3/8"), bulk
BEP 771-S-EZ-B 1-2-Both-Off, Select Switch, 3x 10mm (3/8"), bulk
BEP 772-DBC-EZ 1, 1/2, Parallel, Off, 4x 10mm (3/8")
Parts:
BEP 770-KEY-EP-B 'Emergency Parallel' knob (yellow)

BEP Pro Installer Series MAXI Fuse Holder



- For fusing heavy loads 30–80A
- Ideal for battery charger outputs or mains feeds
- 1/4" (6 mm) studs accept ring terminals and cables up to 25 mm (4 gauge)
- Fuse is clamped between tinned brass clamps for positive connection
- Covers enclose exposed terminals to meet ABYC standards
- 2.8" x 2" x 1.42" (71 x 53 x 36mm)
- Sold in bulk

BEP 702-MFH-B



BEP Pro Installer Series Through Panel ANL Fuse Holder

- ANL: for use with 5/16" (8mm) or 3/8" (10mm) ANL fuses
- ANL: 300A and 750A surface mount options
- Cable connect studs: 10mm (3/8")
- Fuse mounting studs: 8mm (5/16")
- W: 3.8" x D: 1.9 x H: 2.4"

BEP 778-ANLTP-B Bulk


778-ANL-B


778-ANL2S

BEP Pro Installer Series ANL Fuse Holders

- ANL: for use with 5/16" (8mm) or 3/8" (10mm) ANL fuses
- ANL: 300A and 750A
- Cable connect studs: 10mm (3/8")
- Fuse mounting studs: 8mm (5/16")

BEP 778-ANL-B W: 3.8" x D: 1.9" x H: 2.4", bulk
BEP 778-ANL2S W: 5.8" x D: 1.9" x H: 2.4"
BEP 778-ANL2S-B W: 5.8" x D: 1.9" x H: 2.4", bulk

BEP Pro Installer Series T Fuse Holders

- Cable connect studs: 10 mm (3/8")
- Fuse mounting studs:
- 400 series 10mm (3/8")
- 600 sseries 12mm (0.47")
- All threads are metric
- Sold in bulk
- W: 5.8" x D: 1.9" x H: 2.4"

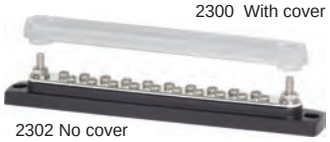
BEP 778-T2S-400-B 225-400A



Blue Sea Systems Bus Bars

- Copper bus is tin plated for corrosion resistance and superior conductivity
- Two brass 1/4-20 stud connectors with oversize brass hex nuts provide attachment for the main feed or ground cables
- Rated 130A continuous duty
- Max. 48V


2301 No cover
2300 With cover


2302 No cover
2312 With cover


2303 No cover
2307 With cover

Part #	Circuits	Dimensions	Type	Cover
BSS 2300	10 x 8-32	1.25" x 6.1"	Screw	Yes
BSS 2301	10 x 8-32	1.25" x 6.1"	Screw	No
BSS 2302	20 x 8-32	1.25" x 9.25"	Screw	No
BSS 2312	20 x 8-32	1.25" x 9.25"	Screw	Yes
BSS 2303	4 x 1/4"	1.25" x 6.1"	Stud	No
BSS 2307	4 x 1/4"	1.25" x 6.1"	Stud	Yes

Covers:
BSS 2715 Cover for 2301/2303
BSS 2716 Cover for 2302


2715

Blue Sea Systems Mini Bus Bars

- All conductive components are tin plated copper
- Mounts with 2 #10 screws
- Current rating: 100A. Max. 48V
- 7/8" x 4-3/16"


2304


2305


2713

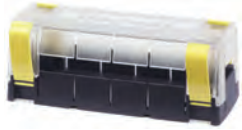
Part #	Size/Type	Terminal	Dimensions
BSS 2304	#10-32 Stud 8/32" Screw	5	.875" x 4.2"
BSS 2314	Same as above complete with cover		
BSS 2305	10/32" Stud	4	.875" x 4.2"
BSS 2315	Same as above complete with cover		

Parts:
BSS 2713 Insulating cover for 2304/2305

Blue Sea Systems Stud Terminal



- Continuous Amperage: 250 AC/DC
- Voltage Rating: 300 VAC Max / 48VDC Max
- Bus Material: Tin-plated copper
- Base Material: Reinforced polycarbonate
- Cover Material: ABS
- 4 x 5/16"-18 stud
- L: 5.875" x W: 1.5" x H: 1.7"

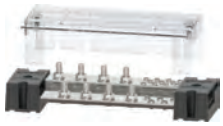


BSS 2127

Parts:

BSS 2719 Cover

Blue Sea Systems Power Bars



1990



1991

Complex wiring systems require a single point to consolidate large and small conductors.

- Tin plated pure electrical copper for maximum conductivity
- Stepped bus design offers two elevations for conductors which doubles the density of the wire loom compared to traditional bus bars
- One-piece serrated flange nuts ensure correct and secure connections
- Stainless steel 8-32 screws with captive lock washers
- Busbar may be cut to a shorter length
- Bi-directional busbar end caps allow the ganging of additional busbars
- Snap on insulating cover meets ABYC and USCG requirements and includes label recess
- Continuous Rating: 1000A
- Bus Material: Tin-Plated Copper C11000
- Use #10 mounting screws

Part #	Studs	Stud Size	L x W x H
BSS 1990	8	3/8"	11.82" x 4.57" x 2.69"
BSS 1991	12	3/8"	14.32" x 4.57" x 2.69"
BSS 1992	8	5/16"	11.82" x 4.57" x 2.69"

Blue Sea Systems Water Resistant Bus Bar



- Standard ring or spade type terminals
- Accepts a wide range of wire sizes
- Includes 3 wire plugs to maintain W/R rating if less than 4 wires are used
- Nests with other W/R 100A common busbars and ST-blade W/R fuse blocks for space saving wiring
- Meets ABYC/USCG insulation requirements
- Tin-plated copper busses and fuse clips
- H: 3.39" x W: 5.41" x D: 1.99"

BSS 2356100

Blue Sea Systems Maxi Bus Bars



2105



2126

- Rated 250A continuous
- Max voltage: 48V
- Tinned plated copper
- Mounting holes: #10 screws

Part #	Screws	Studs	Dimensions
BSS 2105	12 x #10-24	2 x 5/16-18UNC	7.75" x 1.5"
BSS 2126	-	6 x 5/16-18UNC	7.75" x 1.5"
BSS 2128	6 x #10-24	2 x 5/16-18UNC	5.875" x 1.5"

Parts:

- Insulating cover with breakouts for superior electrical insulation
- Meets ABYC insulations requirements



2718

BSS 2718 Cover

Blue Sea Systems Power Bars

- Fabricated from a solid block of CDA110 copper
- 8-32 terminals on the bus ends
- All metal components are tin plated
- Rated at 600A continuous duty. Max. 48V



2104



2107

BSS 2104 4 x 3/8"-16 Stud terminal, 7"

BSS 2107 8 x 3/8"-16 Stud terminal, 11.375"

Parts:

BSS 2708 Insulating cover for 2104

Blue Sea Systems Mini Grounding Bus Bar



- Great for limited space applications
- 6 x 8-32 terminal screws
- All metal components are tin plated
- Rated at 100A continuous duty. Max. 48V
- Use #8 mount fasteners
- L: 3.75" x W: .5" x H: .57"

BSS 2306

Blue Sea Systems H2O Resistant Bus Bar w/Cover



- Water-resistant design (IP66)
- Accepts standard ring or fork type terminals
- Wire: 1x input 8 - 4 AWG, 4x load 16- 10 AWG
- Includes 3 wire plugs to maintain water-reistant rating if less than 4 wires are used
- Nests with other water resistant 100A bus bars and ST-blade water resistant fuse blocks for space saving wiring
- Includes four write-on circuit labels
- Spare fuse and fastener storage in cover
- Continuous amperage 100A AC/DC
- Voltage rating 48VDC maximum
- 300 VAC maximum
- L: 5.41" x W: 3.39" x H: 1.99"
- 1/4" mount screws, 4.73" centre measurement

BSS 2356 1 x #10-32 stud, 4 x #8-32 terminal screws

Cole Hersee Bus Bar



- Common feed solid brass bus bar with four # 10/32" stud terminals
- Moisture repellent, plastic insulator base
- Two eyelets for 3/16" mounting screws
- L: 3-7/8" x W: 5/8" x H: 27/32"

COH 46206-04

Cole Hersee Bus Bars



M-449

- Common hot feed
- Solid brass bus bar
- 1/4" studs, 8-32 screws
- 1-1/4" wide x 1-1/32" high
- Rated 150A

Part #	Part # of Gangs	Length
COH M-449	10	5-3/4"
COH M-449-BP	Blister packed	
COH M-448-BX	20	8-7/8"

Newmar Bus Bars



- Heavy duty, 500A rated
- 5/16" studs on 1" centres in a 1/4" thick copper bar and accommodate 5/16" ring terminals
- All bus material is nickel-plated copper
- Includes clear insulating protective cover
- The mounting bases are keyed for interlocking and may be mated with the terminal strips
- Conductive parts are captured and recessed away from the mounting surface
- Use #8 or #10 screws for mounting

NEW BB-2 2-stud, L: 3-1/16" x W: 1-1/2"
NEW BB-5 5-stud, L: 6-1/16" x W: 1-1/2"
NEW BB-8 8-stud, L: 9-1/16" x W: 1-1/2"

Sea-Dog Bus Bar



- Tin plated brass and ABS
- Equipped with two #10-24 studs for main wire connection
- 5 x #8-32 terminals
- Maximum: 48VDC, 100A
- Use 2x #10 RH fasteners
- 3-7/16" centre measurement

SED 426710-1 L: 4-3/16" x W: 7/8" x H: 1-3/8"

Sierra Heavy Duty Bus Bar



- Plastic base with solid brass terminal bar and screws
- Two 1/4" stud terminals for main power connection
- 10 gang, 8/32" terminal screws
- L: 5.75" x W: 1.25" x H: 1.19"

SIE FS40750

Sierra Ground Bus Bar



- Replacement bus bar for Marine Works ATO/ATC fuse blocks
- 14-1/4" tin plated copper tab terminals
- L: 6.05" x W: 1.6" x H: 2.85"

SIE FS40730

Vertex Bus Bars w/Cover



- All stainless fasteners
- Reinforced polycarbonate base
- Includes cover
- Max voltage is 48VDC

Part #	Studs	Stud Size	Amps	L x W
VER 82020	4	3/8"	600	7" x 2"
VER 82021	8	3/8"	600	11.4" x 2"
VER 82022	4	5/16"	250	7.9" x 1.5"

Vertex Screw Bus Bars w/Cover



- ABS base with all stainless fasteners
- Includes cover
- Max voltage is 48VDC

Part #	Screws	Stud Size	Amps	L x W
VER 82023	10 X 8-32	1/4"	150	6" X 1.5"
VER 82024	20 x 8-32	1/4"	150	9.1" x 1.5"
VER 82109	12 x 10/24	5/16"	250	7.9" x 1.5"

Blue Sea Systems Dual Bus Bars



The dual bus provides two isolated busses to provide both positive and negative circuits on the same block.

- Tin plated copper
- Current rating: 100A, max. 48V
- #8/32 terminal screws
- Uses #10 fasteners

BSS 2701 5 per bus, 3.01" x 1.85"
BSS 2702 10 per bus, 5.06" x 1.85"

Covers:

BSS 2709 Cover for 2701
BSS 2710 Cover for 2702



Blue Sea Systems Dual Bus Plus


2722

- Combines negative and positive buses on one block
- Clear lexan lid snaps on to meet coast guard and ABYC insulation requirements
- Continuous amperage 150A DC/130A AC
- Voltage rating 48VDC maximum
- 300 VAC maximum
- Bus material tin-plated copper
- Base Material: Reinforced polycarbonate
- Cover material clear polycarbonate
- L: 4.875" x W: 2.58" x H: 1.505"

BSS 2722 1/4" stud, 5 x 10/32 screw terminal
BSS 2723 5/16" stud, 5 x 10/32 screw terminal

Blue Sea Systems Independent Connector Jumpers



These handy tinned brass circuit jumpers can be used to common one or more circuits on Series #2400 & #2500 independent connectors.

- 5/pkg

BSS 9216 2600 Series
BSS 9217 2500 Series
BSS 9218 2400 Series

Cole Hersee Terminal Blocks


M-427

- Independent hot feed
- Nickel plated brass terminals
- 8-32 screws
- Isolator barrier strips
- 1-5/16" wide

Part #	# of Gangs	Length	Packaging
COH M-426	4	3-15/16"	Boxed
COH M-427	6	4-23/64"	Boxed
COH M-427-BP	6	4-23/64"	Blister Pack

Sea-Dog Terminal Blocks



- Molded bakelite and stamped brass
- 20A
- Terminal size #6-32
- Use 4x #6 RH fasteners

Part #	# of Gangs	Dimensions
SED 426624-1	4	L: 2-1/2" x W: 1-1/8" x H: 1/2"
SED 426626-1	6	L: 3-5/16" x W: 1-1/8" x H: 1/2"

Blue Sea Systems Independent Terminal Blocks

Our independent connectors are the highest quality terminal blocks. They are closed back, which unlike the cheaper open back styles, provide complete electrical and moisture insulation from the mounting surface. Metal components are nickel plated brass.

2400 Series have high temperature nylon bases


2408

- Rated to 300V, 20A
- Use #6 fasteners

Part #	Circuits	Dimensions
BSS 2402	2	11/16" x 1-7/16"
BSS 2404	4	11/16" x 2-1/8"
BSS 2406	6	11/16" x 2-7/8"
BSS 2408	8	11/16" x 3-3/4"
BSS 2410	10	11/16" x 4-1/2"

2500 Series have phenolic bases.


2508

- Rated to 600 Volts, 30A
- Use #8 fasteners

Part #	Circuits	Dimensions
BSS 2502	2	1-5/16" x 2-1/16"
BSS 2504	4	1-5/16" x 3-3/16"
BSS 2506	6	1-5/16" x 4-5/16"
BSS 2508	8	1-5/16" x 5-1/2"
BSS 2510	10	1-5/16" x 6-5/8"
BSS 2512	12	1-5/16" x 7-5/8"

2600 Series have phenolic bases.


2608

- Rated to 600 Volts, 65A
- Use #10 fasteners

Part #	Circuits	Dimensions
BSS 2602	2	1-3/4" x 2-1/2"
BSS 2604	4	1-3/4" x 3-7/8"
BSS 2606	6	1-3/4" x 5-3/16"
BSS 2608	8	1-3/4" x 6-5/8"
BSS 2610	10	1-3/4" x 8"

Sierra Terminal Blocks


FS40680

- Black molded base with two solid brass bus bars
- Screw terminals. 8/32" dia. terminal screws

SIE FS40670 4 gang, L: 3" x W: 1.5"
SIE FS40680 6 gang, L: 4.5" x W: 1.5"

Sierra Terminal Blocks


45640

- Molded ABS base
- Nickel plated brass screws
- 1-5/16" wide. 11/16" high
- 8/32" dia. terminal screws
- Isolator barrier strips

Part #	# of Gangs	Length
SIE FS45640	8	5-21/64"
SIE FS45650 **	10	6-39/64"

** While Stock Lasts

Blue Sea Systems Power Posts



2001-2003

- Brass terminals
- Insulator cap
- Base is glass filled black nylon
- Max 48VDC, not rated
- Large base: 3.3" x 1.75"
- Small base: 1.625" x .832"



2010-2011

Part #	Size	Description
BSS 2001	Large	1/4" x 1-1/16" Stud
BSS 2002	Large	5/16" x 7/8" Stud
BSS 2003	Large	3/8" x 7/8" Stud
BSS 2010	Small	#10-32 x 5/8" Stud
BSS 2011	Small	1/4" x 3/4" Stud

Parts:

BSS 4004 Insulator, fits 2001, 2002, 2003

Blue Sea Systems Power Posts Plus



2103

- Eight 8-32 brass screws
- Max 48VDC
- 150A DC continuous
- Base: 1.75" x 3.25"

Part #	Description
BSS 2101	1/4" x 1" Stud
BSS 2102	5/16" x 3/4" Stud
BSS 2103	3/8" x 3/4" Stud

Parts:

BSS 4004 Insulator

Blue Sea Systems Terminal Feed Through Connectors



- For passing high current cables through hulls, decks and bulkheads
- Eliminates chafing and provides excellent strain relief for the cable
- Large size terminals have a mounting face that can be gasketed or bedded to provide a water tight installation
- Max voltage: 48VDC
- Use #10 fasteners

Part #	L x W	Description	Amps	Colour
BSS 2201	2" x 1.25"	5/16"-18 Stud	250A	Black
BSS 2202	2" x 1.25"	5/16"-18 Stud	250A	Red
BSS 2203	2" x 1.25"	3/8"-16 Stud	250A	Black
BSS 2204	2" x 1.25"	3/8"-16 Stud	250A	Red

BEP Distribution Stud Modules



The 702 Contour Distribution Stud allows terminating of heavy duty cables for one or more connections. Contour lock mouldings with removable side plates allow for connections from all sides utilizing link bars.

The 702-2S was designed specifically for transom areas for connecting battery cables from outboards.

- Terminals: 3/8"
- W: 2.75" x H: 2" x D: 2.75"

BEP 702B Single stud, bulk

BEP 702-2S Dual stud

Blue Sea Systems Dual Power Post Connectors



- Max Voltage Rating: 48VDC
- Designed for high amp conductors
- Includes one black and one red insulator
- For outboard engine installation when factory cables need to be extended
- Mounting holes #10 screws
- L: 2.75" x W: 1.875" x H: 1.75"

BSS 2016 2 x 5/16" terminal studs

BSS 2017 2 x 3/8" terminal studs

BSS 2018 1 x 5/16" & 1 x 3/8" terminal studs

Blue Sea Systems PowerBar Dual Bus Bar



- Max voltage: 48VDC
- Provides compact high-ampere busing
- Two 3/8"-16 studs
- Mounting holes #10 screws
- L: 2.75" x W: 1.875" x H: 1.63"

BSS 2020

BSS 2019 Includes insulators

Vertex Pass Thru Power Posts



- Stainless steel posts & nuts
- Glass filled nylon base
- 250A, max voltage 48VDC
- 1.625" x .832"
- Use #8 fasteners

VER 82319 5/16", Red

VER 82320 5/16", Black

VER 82321 5/16", Yellow

Vertex Single Point Power Posts



- Stainless steel posts & nuts
- Glass filled nylon base
- Includes terminal boot
- 2.5" mounting centre
- Max voltage is 48VDC
- Base: 3.3" x 1.75"

VER 81709 5/16", Black

VER 81710 3/8", Black

VER 81711 3/8", Red

Vertex Power Posts w/Insulator



- Connecction plate made from nickel-plated copper
- Connecting screws: #8-32
- Stainless steel posts & nuts
- Glass filled nylon base
- Includes terminal boot
- 2.5" mounting centre
- Max voltage is 48VDC
- Base: 3.3" x 1.75"

VER 81712 5/16", Black

VER 81713 3/8", Black

VER 81714 3/8", Red

► *Also See* Terminal Boots pg 02-087 to 088

Vertex Compact Power Posts



- Stainless steel posts & nuts
- Glass filled nylon base; 2.15" x 1"
- Max voltage: 48VDC

VER 82315	5/16", Red
VER 82316	5/16", Black
VER 82317	5/16", Yellow

Compact Power Post Holder





Shown with power posts installed (not included)

- Compact, system to mount 2 single point power posts
- Provides option for power posts with dissimilar stud sizes
- Safety divider reduces the risk of shorts and arcs during installaion and/or service
- Base: 2-3/4" x 2-3/4"
- Includes fasteners to mount power posts

VER 82318

► *Also See* Terminal Boots pg 02-087 to 088

Pico Booster Cables



- 6 Gauge, 400A
- Copper clad aluminum cables
- Copper clips for maximum conductivity
- Parallel bonded cables resist tangling and remain flexible in cold weather up to -40°C (-40°F)
- Includes nylon carrying case with instruction sheet
- 16 foot

PIC 8193-31

Pico Booster Cables



- 8 Gauge, 200A
- 100% pure copper cables and clamps for maximum conductivity
- Parallel bonded cables resist tangling and remain flexible in cold weather up to -40°C (-40°F)
- Includes nylon carrying case with instruction sheet
- 12 foot

PIC 8163-E

Pico Booster Cables



- 10 Gauge, 150A
- Copper clad aluminum cables
- Copper clips for maximum conductivity
- Parallel bonded cables resist tangling and remain flexible in coldweather up to -40°C (-40°F)
- Includes nylon carrying case with instruction sheet
- 8 foot

PIC 8190-31

Pico PWC Booster Cables



- 8 Gauge, 150A
- Copper clad aluminum cables
- Copper clips for maximum conductivity
- Parallel bonded cables resist tangling and remain flexible in cold weather up to -40°C (-40°F)
- Includes nylon carrying case with instruction sheet
- 8 foot

PIC 8199-31

Ancor Battery Cable Assemblies



- Premium UL1426 tinned copper battery cable
- Fine stranded to produce maximum conductivity and flexibility
- Flame retardant, UV inhibited, rated to 600V and 105°C
- Tinned copper lugs
- Each end has a piece of adhesive lined 3:1 heat-shrink tubing placed over the electrical connection

Part #	Cable	Colour	Stud	Length
ANC 189130	4 AWG	Black	5/16"	18"
ANC 189134	4 AWG	Black	5/16"	32"
ANC 189131	4 AWG	Red	3/8"	18"
ANC 189135	4 AWG	Red	3/8"	32"
ANC 189140	2 AWG	Black	5/16"	18"
ANC 189144	2 AWG	Black	5/16"	32"
ANC 189141	2 AWG	Red	3/8"	18"
ANC 189145	2 AWG	Red	3/8"	32"

FYI

Helpful Hints for Onboard Wiring

1. Always use UL listed boat cable, which has stranded wires. Household cable has single solid core wires that can break because of vibration.

2. Make sure wire strands are clean and not corroded. If necessary, cut back the wire until it is clean copper or replace it.

3. When installing receptacles or switches, allow an extra length of wire to remain in the box. Should the device have to be repaired or replaced, the extra length allows the device to be easily pulled from its box.

4. After wiring a switch or receptacle and before installing in a box, wrap electrical tape around the device, covering the terminal screws. This eliminates the chance of an arc and the possibility of a stray grounding conductor contacting the terminals.

5. When it comes to wire gauge do not use undersized wire. "When in doubt, use the next heavier gauge." Lighter wire is not only risky, but it makes appliances sluggish.


Vertex
MARINE
SUPERIOR
MARINE
CABLE
SOLUTIONS
SEABOSS
FLEXIBLE FINE STRANDED
+1 604.272.1305
www.vertex-marine.com

Vertex LSZH Cables

- Low Smoke Zero Halogen jacket (IEC 6009 2-359)
- LSZH cables produce very low levels of smoke and toxic fumes, and no acid gases when they come in contact with flame
- Free of flourine, chlorine, bromine, iodine, or astatine
- Splash resistant to oil, skydrol, gasoline, acid, and sea water. Resists UV and ozone
- Colour coded, finely stranded annealed tinned copper to ASTM B03-01, B33-00 and IEC 60228. Significantly exceeds IEEE-1580 Table 11
- Rated 0.6/1 kV, -40°C to 90°C
- Meets IEC 60092 series standards



Vertex Shipboard Cable 6 AWG

Part #	Colour	Length
VER 1C16BKSHPCU-FT	Black	Foot/500'
VER 1C16RESHPCU-FT	Red	Foot/500'
VER 1C16GNSHPCU-FT	Green	Foot/500'

Vertex Shipboard Cable 4 AWG

Part #	Colour	Length
VER 1C25BKSHPCU-FT	Black	Foot/500'
VER 1C25RESHPCU-FT	Red	Foot/500'

Vertex Shipboard Cable 2 AWG

Part #	Colour	Length
VER 1C35BKSHPCU-FT	Black	Foot/500'
VER 1C35RESHPCU-FT	Red	Foot/500'

Vertex Shipboard Cable 1/0 AWG

Part #	Colour	Length
VER 1C50BKSHPCU-FT	Black	Foot/500'
VER 1C50RESHPCU-FT	Red	Foot/500'

Vertex Shipboard Cable 2/0 AWG

Part #	Colour	Length
VER 1C70BKSHPCU-FT	Black	Foot/500'
VER 1C70RESHPCU-FT	Red	Foot/500'

Vertex Shipboard Cable 3/0 AWG

Part #	Colour	Length
VER 1C95BKSHPCU-FT	Black	Foot/500'
VER 1C95RESHPCU-FT	Red	Foot/500'

Vertex Shipboard Cable 4/0 AWG

Part #	Colour	Length
VER 1C120BKSHPCU-FT	Black	Foot/500'
VER 1C120RESHPCU-FT	Red	Foot/500'

Vertex Shipboard Cable 16/2 AWG

Part #	Colour	Core	Length
VER 2C1.5SHPCU-FT	Black	Black & White	Foot/1000'

Vertex Shipboard Cable 14/2 AWG

Part #	Colour	Core	Length
VER 2C2.5SHPCU-FT	Black	Black & White	Foot/1000'

Vertex Shipboard Cable 12/2 AWG

Part #	Colour	Core	Length
VER 2C4SHPCU-FT	Black	Black & White	Foot/1000'

Vertex Shipboard Cable 16/3 AWG

Part #	Colour	Core	Length
VER 3C1.5SHPCU-FT	Black	Black, Red, & White	Foot/1000'

Vertex Shipboard Cable 14/3 AWG

Part #	Colour	Core	Length
VER 3C2.5SHPCU-FT	Black	Black, Red, & White	Foot/1000'

Vertex Shipboard Cable 12/3 AWG

Part #	Colour	Core	Length
VER 3C4SHPCU-FT	Black	Black, Red, & White	Foot/500'

Vertex Shipboard Cable 10/3 AWG

Part #	Colour	Core	Length
VER 3C6SHPCU-FT	Black	Black, Red, & White	Foot/500'

Vertex Shipboard Cable 16/4 AWG

Part #	Colour	Core	Length
VER 4C1.5SHPCU-FT	Black	Blk/Red/Wht/ Green	Foot/500'

Vertex Shipboard Cable 16/7 AWG

Part #	Colour	Core	Length
VER 7C1.5SHPCU-FT	Black	White & numbered	Foot/500'

Vertex Shipboard Cable 14/7 AWG

Part #	Colour	Core	Length
VER 7C2.5SHPCU-FT	Black	White & numbered	Foot/500'

ANCOR

Ancor Primary Battery Cable

Stranding is tinned copper
Ultra flexible (Type 3) stranding
Premium vinyl insulation
Rated at 600 volts and 105 C
Exceeds all UL 1426, US Coast Guard Charterboat (CFR title 46) and ABYC standards



Ancor Battery Cable 8 AWG

Part #	Colour	Length
ANC 111002 **	Black	25'
ANC 111010	Black	100'
ANC 111050FT **	Black	Foot/500'
ANC 111310	Green	100'
ANC 111502 **	Red	25'
ANC 111510	Red	100'
ANC 111550FT **	Red	Foot/500'
ANC 111710	White	100'
ANC 111750FT **	White	Foot/500'
ANC 111902 **	Yellow	25'
ANC 111905	Yellow	50'
ANC 111910	Yellow	100'

** While Stock Lasts

Ancor Battery Cable 6 AWG

Part #	Colour	Length
ANC 112005 **	Black	50'
ANC 112010	Black	100'
ANC 112050FT **	Black	Foot/500'
ANC 112502 **	Red	25'
ANC 112505	Red	50'
ANC 112510	Red	100'
ANC 112550FT **	Red	Foot/500'
ANC 112910	Yellow	100'
ANC 112950FT **	Yellow	Foot/500'

** While Stock Lasts

Ancor Battery Cable 4 AWG

Part #	Colour	Length
ANC 113002 **	Black	25'
ANC 113005	Black	50'
ANC 113010	Black	100'
ANC 113050FT **	Black	Foot/500'
ANC 113502 **	Red	25'
ANC 113505	Red	50'
ANC 113510	Red	100'
ANC 113550FT **	Red	Foot/500'
ANC 113905	Yellow	50'
ANC 113910	Yellow	100'
ANC 113950FT **	Yellow	Foot/500'

** While Stock Lasts

Ancor Battery Cable 2 AWG

Part #	Colour	Length
ANC 114002	Black	25'
ANC 114005	Black	50'
ANC 114010	Black	100'
ANC 114040FT **	Black	Foot/400'
ANC 114502	Red	25'
ANC 114505	Red	50'
ANC 114510	Red	100'
ANC 114540FT **	Red	Foot/400'
ANC 114905	Yellow	50'
ANC 114940FT **	Yellow	Foot/400'

** While Stock Lasts

Ancor Battery Cable 1 AWG

Part #	Colour	Length
ANC 115030FT **	Black	Foot/300'
ANC 115530FT **	Red	Foot/300'
ANC 115930FT **	Yellow	Foot/300'

** While Stock Lasts

Ancor Battery Cable 1/0 AWG

Part #	Colour	Length
ANC 116002	Black	25'
ANC 116005	Black	50'
ANC 116025FT **	Black	Foot/250'
ANC 116502	Red	25'
ANC 116505	Red	50'
ANC 116510	Red	100'
ANC 116525FT **	Red	Foot/250'
ANC 116905	Yellow	50'
ANC 116925FT **	Yellow	Foot/250'

** While Stock Lasts

Ancor Battery Cable 2/0 AWG

Part #	Colour	Length
ANC 117002	Black	25'
ANC 117005	Black	50'
ANC 117020FT **	Black	Foot/200'
ANC 117502	Red	25'
ANC 117505	Red	50'
ANC 117510	Red	100'
ANC 117520FT **	Red	Foot/200'
ANC 117905	Yellow	50'
ANC 117920FT **	Yellow	Foot/200'

** While Stock Lasts

Ancor Battery Cable 3/0 AWG

Part #	Colour	Length
ANC 118510	Red	100'

Ancor Battery Cable 4/0 AWG

Part #	Colour	Length
ANC 119010FT	Black	Foot/100'
ANC 119510FT	Red	Foot/100'

Vertex Battery Cable

Colour coded insulated tinned copper wire with a flame resistant PVC cover
Rated 600 Volt, 105°C Dry, 75° C Wet



Vertex Battery Cable 8 AWG

Part #	Colour	Length
VER 1426080101	Black	100'
VER 1426080103FT	Black	Foot/500'
VER 1426080301	Green	100'
VER 1426080303FT	Green	Foot/500'
VER 1426080801	Red	100'
VER 1426080803FT	Red	Foot/500'
VER 1426081001FT	Yellow	Foot/100'

Vertex Battery Cable 6 AWG

Part #	Colour	Length
VER 1426060150	Black	50'
VER 1426060101	Black	100'
VER 1426060103FT	Black	Foot/500'
VER 1426060301FT	Green	Foot/100'
VER 1426060850	Red	50'
VER 1426060801	Red	100'
VER 1426060803FT	Red	Foot/500'
VER 1426061001FT	Yellow	Foot/100'

Vertex Battery Cable 4 AWG

Part #	Colour	Length
VER 1426040125	Black	25'
VER 1426040150	Black	50'
VER 1426040101	Black	100'
VER 1426040102	Black	250'
VER 1426040103FT	Black	Foot/500'
VER 1426040825	Red	25'
VER 1426040850	Red	50'
VER 1426040801	Red	100'
VER 1426040802	Red	250'
VER 1426040803FT	Red	Foot/500'
VER 1426041001FT	Yellow	Foot/100'

Vertex Battery Cable 2 AWG

Part #	Colour	Length
VER 1426020125	Black	25'
VER 1426020150	Black	50'
VER 1426020101	Black	100'
VER 1426020103FT	Black	Foot/500'
VER 1426020825	Red	25'
VER 1426020850	Red	50'
VER 1426020801	Red	100'
VER 1426020803FT	Red	Foot/500'
VER 1426021025	Yellow	25'
VER 1426021050	Yellow	50'
VER 1426021001	Yellow	100'
VER 1426021002	Yellow	250'
VER 1426021003FT	Yellow	Foot/500'

Vertex Battery Cable 1 AWG

Part #	Colour	Length
VER 1426010101	Black	100'
VER 1426010102FT	Black	Foot/250'
VER 1426010801	Red	100'
VER 1426010802FT	Red	Foot/250'
VER 1426011001	Yellow	100'
VER 1426011002FT	Yellow	Foot/100'

Vertex Battery Cable 1/0 AWG

Part #	Colour	Length
VER 1426500125	Black	25'
VER 1426500150	Black	50'
VER 1426500101	Black	100'
VER 1426500102FT	Black	Foot/250'
VER 1426500825	Red	25'
VER 1426500850	Red	50'
VER 1426500801	Red	100'
VER 1426500802FT	Red	Foot/250'
VER 1426501002FT	Yellow	Foot/250'

Vertex Battery Cable 2/0 AWG

Part #	Colour	Length
VER 1426600125	Black	25'
VER 1426600150	Black	50'
VER 1426600101	Black	100'
VER 1426600102FT	Black	Foot/250'
VER 1426600825	Red	25'
VER 1426600850	Red	50'
VER 1426600801	Red	100'
VER 1426600802FT	Red	Foot/250'
VER 1426601001	Yellow	100'
VER 1426601002FT	Yellow	Foot/250'

Vertex Battery Cable 3/0 AWG

Part #	Colour	Length
VER 1426800125	Black	25'
VER 1426800825	Red	25'
VER 1426801025	Yellow	25'

Vertex Battery Cable 4/0 AWG

Part #	Colour	Length
VER 1426990125	Black	25'
VER 1426990101	Black	100'
VER 1426990102FT	Black	Foot/250'
VER 1426990825	Red	25'
VER 1426990801	Red	100'
VER 1426990802FT	Red	Foot/250'
VER 1426991025	Yellow	25'
VER 1426991001FT	Yellow	Foot/100'

ANCOR

Ancor Primary Boat Wire

Stranding is tinned copper
Ultra flexible (Type 3) stranding
Premium vinyl insulation
Rated at 600 volts and 105 C
Exceeds all UL 1426, US Coast Guard Charterboat (CFR title 46) and ABYC standards.



Ancor Primary Boat Wire 18 AWG

Part #	Colour	Length
ANC 180003 **	Black	35'
ANC 100010	Black	100'
ANC 180103 **	Blue	35'
ANC 100110	Blue	100'
ANC 100210 **	Brown	100'
ANC 180703 **	Purple	35'
ANC 180803 **	Red	35'
ANC 100310	Green	100'
ANC 100810	Red	100'
ANC 180903 **	White	35'
ANC 100910	White	100'
ANC 181003 **	Yellow	35'
ANC 101010	Yellow	100'

** While Stock Lasts

Ancor Primary Boat Wire 16 AWG

Part #	Colour	Length
ANC 102010	Black	100'
ANC 182103 **	Blue	25'
ANC 102110	Blue	100'
ANC 102210	Brown	100'
ANC 182303 **	Green	25'
ANC 102310	Green	100'
ANC 182403 **	Grey	25'
ANC 102410	Grey	100'
ANC 182503 **	Orange	25'
ANC 102710	Purple	100'
ANC 182803 **	Red	25'
ANC 102810	Red	100'
ANC 182903 **	White	25'
ANC 102910	White	100'
ANC 183003	Yellow	25'
ANC 103010	Yellow	100'

** While Stock Lasts

Ancor Primary Boat Wire 14 AWG

Part #	Colour	Length
ANC 184003 **	Black	18'
ANC 104010	Black	100'
ANC 104110	Blue	100'
ANC 103910	Lt. Blue	100'
ANC 184203 **	Brown	18'
ANC 104210	Brown	100'
ANC 184303 **	Green	18'
ANC 104310	Green	100'
ANC 184403 **	Grey	18'
ANC 104410	Grey	100'
ANC 104510	Orange	100'
ANC 184503 **	Orange	1000'
ANC 184603	Pink	18'
ANC 104610	Pink	100'
ANC 104650 *	Pink	500'
ANC 184703 **	Purple	18'
ANC 104710	Purple	100'
ANC 184803 **	Red	18'
ANC 104810	Red	100'
ANC 184903 **	White	18'
ANC 104910	White	100'
ANC 185003 **	Yellow	18'
ANC 105010	Yellow	100'

* Special Order - may have stock
** While Stock Lasts

Ancor Primary Boat Wire 12 AWG

Part #	Colour	Length
ANC 186003 **	Black	12'
ANC 106010	Black	100'
ANC 106110	Blue	100'
ANC 106210	Brown	100'
ANC 106310	Green	100'
ANC 106510	Orange	100'
ANC 186803 **	Red	12'
ANC 106810	Red	100'
ANC 106910	White	100'
ANC 106999 **	White	1000'
ANC 107010	Yellow	100'

** While Stock Lasts

Ancor Primary Boat Wire 10 AWG

Part #	Colour	Length
ANC 188003 **	Black	8'
ANC 108002 **	Black	25'
ANC 108010	Black	100'
ANC 108110	Blue	100'
ANC 108310	Green	100'
ANC 188803 **	Red	8'
ANC 108802 **	Red	25'
ANC 108810	Red	100'
ANC 108910	White	100'
ANC 109010	Yellow	100'

** While Stock Lasts

TECH tip™

Wire Flexibility Explained

Wire flexibility is influenced by two major factors: wire strand size and jacket hardness.

Wire strand size has the largest impact on overall wire flexibility. As individual wire strand size decreases, wire flexibility increases. For boat cable, UL 1426 requires at least 19 individual strands for cables 16 AWG and larger. Ancor wire uses type 3 stranding which consists of individual 30 AWG (0.010") strands, regardless of the wire gauge. Ancor's 16 AWG wire consists of 26 individual strands, while the 4/0 AWG wire consists of 2,109 individual strands.

Jacket hardness is most commonly measured by durometer, with lower measurements reflecting a more flexible material. Ancor wire measures 7 points lower than competitive product (on a scale of 1-100), resulting in a more flexible product.

Vertex Primary Boat Wire 18 AWG

Part #	Colour	Length
VER 1426180101	Black	100'
VER 1426180102	Black	250'
VER 1426180801	Red	100'
VER 1426180802	Red	250'
VER 1426180901	White	100'
VER 1426181001	Yellow	100'

Vertex Primary Boat Wire 16 AWG

Part #	Colour	Length
VER 1426160101	Black	100'
VER 1426160102	Black	250'
VER 1426160103	Black	500'
VER 1426161201	Blue	100'
VER 1426160201	Brown	100'
VER 1426160301	Green	100'
VER 1426160303	Green	500'
VER 1426160401	Grey	100'
VER 1426160501	Orange	100'
VER 1426160601	Pink	100'
VER 1426160701	Purple	100'
VER 1426160801	Red	100'
VER 1426160802	Red	250'
VER 1426160803	Red	500'
VER 1426160901	White	100'
VER 1426160903	White	500'
VER 1426161001	Yellow	100'
VER 1426161002	Yellow	250'
VER 1426161003	Yellow	500'

Vertex Primary Boat Wire 14 AWG

Part #	Colour	Length
VER 1426140101	Black	100'
VER 1426140102	Black	250'
VER 1426140103	Black	500'
VER 1426140201	Brown	100'
VER 1426140202	Brown	250'
VER 1426140301	Green	100'
VER 1426140302	Green	250'
VER 1426140303	Green	500'
VER 1426140401	Grey	100'
VER 1426140501	Orange	100'
VER 1426140601	Pink	100'
VER 1426140602	Pink	250'
VER 1426140701	Purple	100'
VER 1426140801	Red	100'
VER 1426140802	Red	250'
VER 1426140803	Red	500'
VER 1426140901	White	100'
VER 1426140902	White	250'
VER 1426141001	Yellow	100'
VER 1426141002	Yellow	250'
VER 1426141003	Yellow	500'



Vertex Primary Wire

- Finely stranded Type III Tinned Copper
- Ultra Flexible Polyvinyl Chloride. Resists Acids, Abrasion, Alkali, Flame, Gasoline, Moisture, and Oil
- 600 Volts
- UL Standard 1426 BC-5W2 (Electric Cable for Boat)
- ABYC E-11, NMMA, USCG 33 CFR Part 183.430, 183.435, SAE J378, 1127, 1128

Vertex Primary Boat Wire 12 AWG

Part #	Colour	Length
VER 1426120101	Black	100'
VER 1426120102	Black	250'
VER 1426120103	Black	500'
VER 1426120201	Brown	100'
VER 1426121201	Dark Blue	100'
VER 1426120302	Green	250'
VER 1426120801	Red	100'
VER 1426120802	Red	250'
VER 1426120803	Red	500'
VER 1426120902	White	250'
VER 1426120903	White	500'
VER 1426121001	Yellow	100'
VER 1426121002	Yellow	250'
VER 1426121003	Yellow	500'

Vertex Primary Boat Wire 10 AWG

Part #	Colour	Length
VER 1426100101	Black	100'
VER 1426100102	Black	250'
VER 1426100103	Black	500'
VER 1426100201	Brown	100'
VER 1426100202	Brown	250'
VER 1426101201	Dark Blue	100'
VER 1426101202	Dark Blue	250'
VER 1426100301	Green	100'
VER 1426100302	Green	250'
VER 1426100303	Green	500'
VER 1426100501	Orange	100'
VER 1426100801	Red	100'
VER 1426100802	Red	250'
VER 1426100803	Red	500'
VER 1426100901	White	100'
VER 1426100902	White	250'
VER 1426101001	Yellow	100'
VER 1426101002	Yellow	250'
VER 1426101003	Yellow	500'

Pico Primary Wire



- Rated: 50 Volts
- General purpose cable
- Insulated with high performance P.V.C.
- Clean stripping for easy use

Part #	Size	Colour	Length
PIC 8118-0-PK	18 AWG	Black	25'
PIC 8118-1-PK	18 AWG	Blue	25'
PIC 8118-3-PK	18 AWG	Green	25'
PIC 8118-7-PK	18 AWG	Yellow	25'
PIC 8116-0-PK	16 AWG	Black	25'
PIC 8116-1-PK	16 AWG	Blue	25'
PIC 8116-3-PK	16 AWG	Green	25'
PIC 8116-5-PK	16 AWG	Red	25'
PIC 8116-6-PK	16 AWG	White	25'
PIC 8116-7-PK	16 AWG	Yellow	25'
PIC 8114-0-PK	14 AWG	Black	25'
PIC 8114-1-PK	14 AWG	Blue	25'
PIC 8114-3-PK	14 AWG	Green	25'
PIC 8114-5-PK	14 AWG	Red	25'
PIC 8114-6-PK	14 AWG	White	25'
PIC 8114-7-PK	14 AWG	Yellow	25'
PIC 8112-0-PK	12 AWG	Black	10'
PIC 8112-1-PK	12 AWG	Blue	10'
PIC 8112-3-PK	12 AWG	Green	10'
PIC 8112-5-PK	12 AWG	Red	10'
PIC 8112-6-PK	12 AWG	White	10'
PIC 8112-7-PK	12 AWG	Yellow	10'
PIC 8110-0-PK	10 AWG	Black	10'
PIC 8110-1-PK	10 AWG	Blue	10'
PIC 8110-3-PK	10 AWG	Green	10'
PIC 8110-5-PK	10 AWG	Red	10'
PIC 8110-6-PK	10 AWG	White	10'
PIC 8110-7-PK	10 AWG	Yellow	10'

Ancor Bilge Pump Cable



- Grey insulation, Black/Brown/Red conductors
- Oil resistant
- STOW-A-Water resistant jacket
- Sold by the foot: 100' rolls

ANC 156410FT Foot/100'

Ancor Marine Twisted Pairs w/Shield



- Ultra flexible stranding is tinned for corrosion resistance
- 93% tinned copper shield for maximum EMI and RFI rejection
- 14/2 gauge
- Two conductors, Red/Black, white cover
- Sold by the foot: 250' rolls

ANC 141425FT Foot/250'

Ancor 16/4 Flat Trailer Cable



Flat Trailer

- 100% tinned copper
- Available in flat ribbon with no cover or flat trailer with a white cover.
- Brown/Green/White/Yellow conductors

Part #	Length	Style
ANC 154010FT	Foot/100'	Jacket
ANC 154510FT	Foot/100'	No Jacket

► ***Note:*** *Ancor recommends yellow wire as a DC negative because black is the standard for AC hot.*

Vertex 16/4 Flat Trailer Cable



- Tinned stranded copper
- Voltage: 600V, Temp: 105°C
- Brown/Green/White/Yellow conductors
- Approvals: UL 1426, CSA C22.2 No 210 Standard

VER 4162391001FT per foot

Ancor Super Flex Audio Cable

- Tinned copper, super flexible, clear jacketed speaker wire
- Oxygen free, drawn copper and unidirectional strand lay

Part #	Size	Length
ANC 142610FT	16/2	Foot
ANC 142410	14/2	100'
ANC 142499FT **	14/2	Foot

** While Stock Lasts



Ancor Marine Grade Speaker Wire



- 100% tinned copper. 20/2 gauge
- Black/Red conductors with white cover
- Sold by the foot: 100' rolls

ANC 122010FT Foot/100'

Garmin Marine LED Cable



6 core x 20 AWG marine LED cable specifically designed for use on boats with LED lights such as illuminated speakers or strip and courtesy lighting

- Multistrand tinned copper cable in a flexible white PVC jacket
- Temperature: -10°C to 105°C
- Fire retardant VW-1
- Voltage: 300V max
- Sold by the foot: 328' rolls

GAR 010-13386-00

Ancor Safety Boat Cable

- Tinned copper stranding
- Red and Yellow inner conductors in a white jacket
- Rated at 600 volts and 105ºC

Part #	Size	Length
ANC 124910	18/2	100'
ANC 124950FT	18/2	Foot/500'
ANC 124710	16/2	100'
ANC 124750FT	16/2	Foot/500'
ANC 124502 **	14/2	25'
ANC 124510	14/2	100'
ANC 124525	14/2	250'
ANC 124550	14/2	500'
ANC 124599FT **	14/2	Foot/1000'
ANC 124310	12/2	100'
ANC 124325FT	12/2	Foot/250'
ANC 124102 **	10/2	25'
ANC 124110	10/2	100'
ANC 124140FT	10/2	Foot/800'



** While Stock Lasts

Ancor Boat Cable

- Tinned copper stranding
- Rated at 600 volts and 105ºC
- Black and Red inner conductors in a white jacket

Part #	Size	Length
ANC 189303 **	20/2	25'
ANC 121910	18/2	100'
ANC 121950FT	18/2	Foot/500'
ANC 121710	16/2	100'
ANC 121750FT	16/2	Foot/500'
ANC 121510	14/2	100'
ANC 121550	14/2	500'
ANC 121599FT **	14/2	Foot/1000'
ANC 121310	12/2	100'
ANC 121325 *	12/2	250'
ANC 121350FT	12/2	Foot/500'
ANC 121110	10/2	100'
ANC 121140FT	10/2	Foot/400'
ANC 120905	8/2	50'
ANC 120925FT **	8/2	Foot/250'
ANC 120705 **	6/2	50'
ANC 120710FT	6/2	Foot/100'



* Special Order - may have stock
** While Stock Lasts

Ancor Boat Cable

- Tinned copper stranding
- Rated at 600 volts and 105ºC
- White/Green/Black inner conductors in a white jacket

Part #	Size	Length
ANC 131710	16/3	100'
ANC 131750FT	16/3	Foot/500'
ANC 131510	14/3	100'
ANC 131550FT	14/3	Foot/500'
ANC 131310	12/3	100'
ANC 131370FT	12/3	Foot/700'
ANC 131110	10/3	100'
ANC 131150FT	10/3	Foot/500'



Vertex Safety Boat Cable

- 100% tinned copper
- Colour coded Red/Yellow
- Flexible UL Standard boat cable suitable for all marine application
- Finely stranded Type III tinned copper
- Ultra Flexible polyvinyl chloride. Resists acids, abrasion, alkali, flame, gasoline, moisture, and oil
- Rated:-20 degrees C to 105 degrees C, BC-5W2 (105 degrees C Dry, 75 degrees C Wet)
- Rated: 600 Volts
- UL Standard 1426 BC-5W2 (Electric cable for boat)
- ABYC E-11, NMMA, USCG 33 CFR Part 183.430, 183.435, SAE J378, 1127, 1128

Part #	Size	Length
VER 218081001	18/2	100'
VER 218081003FT	18/2	Foot/500'
VER 216081001	16/2	100'
VER 216081003FT	16/2	Foot/500'
VER 214081001	14/2	100'
VER 214081003FT	14/2	Foot/500'
VER 212081001	12/2	100'
VER 212081003FT	12/2	Foot/500'
VER 210081001	10/2	100'
VER 210081003FT	10/2	Foot/500'



Vertex Boat Cable

- 100% tinned copper
- Colour coded Red/Black
- Flexible UL Standard boat cable suitable for all marine application
- Finely stranded Type III tinned copper
- Ultra Flexible polyvinyl chloride. Resists acids, abrasion, alkali, flame, gasoline, moisture, and oil
- Rated:-20 degrees C to 105 degrees C, BC-5W2 (105 degrees C Dry, 75 degrees C Wet)
- Rated: 600 Volts
- UL Standard 1426 BC-5W2 (Electric cable for boat)
- ABYC E-11, NMMA, USCG 33 CFR Part 183.430, 183.435, SAE J378, 1127, 1128

Part #	Size	Length
VER 218080101	18/2	100'
VER 216080101	16/2	100'
VER 216080103FT	16/2	Foot/500'
VER 214080101	14/2	100'
VER 214080103FT	14/2	Foot/500'
VER 212080101	12/2	100'
VER 212080103FT	12/2	Foot/500'
VER 210080101FT	10/2	Foot/100'



Vertex Boat Cable

- 100% tinned copper
- Colour coded Black/Green/White
- Flexible UL Standard boat cable suitable for all marine application
- Finely stranded Type III tinned copper
- Ultra Flexible polyvinyl chloride. Resists acids, abrasion, alkali, flame, gasoline, moisture, and oil
- Rated:-20 degrees C to 105 degrees C, BC-5W2 (105 degrees C Dry, 75 degrees C Wet)
- Rated: 600 Volts
- UL Standard 1426 BC-5W2 (Electric cable for boat)
- ABYC E-11, NMMA, USCG 33 CFR Part 183.430, 183.435, SAE J378, 1127, 1128

Part #	Size	Length
VER 316010901	16/3	100'
VER 316010903FT	16/3	Foot/500'
VER 314010901	14/3	100'
VER 314010903FT	14/3	Foot/500'
VER 312010901	12/3	100'
VER 312010903FT	12/3	Foot/500'
VER 310010901	10/3	100'
VER 310010903FT	10/3	Foot/500'



Vertex Round Bilge Pump Cable

- Tinned stranded copper
- Jacket: Grey, fillerless SJTOW
- Rated: 105°C (Water resistant 60°C)
- Rated: 300V max for bilge pump applications

Part #	Size	Length
Black/Red/Brown		
VER 314010201	14/3	100'
VER 314010202RFT	14/3	Foot/250'



Vertex Round Boat Cable

- 100% tinned copper
- Colour coded insulated tinned copper wire
- Flexible UL Standard boat cable suitable for all marine application
- Finely stranded Type III tinned copper
- Ultra Flexible polyvinyl chloride. Resists acids, abrasion, alkali, flame, gasoline, moisture, and oil
- Rated:-20 degrees C to 105 degrees C, BC-5W2 (105 degrees C Dry, 75 degrees C Wet)
- Rated: 600 Volts
- UL Standard 1426 BC-5W2 (Electric cable for boat)
- ABYC E-11, NMMA, USCG 33 CFR Part 183.430, 183.435, SAE J378, 1127, 1128

Part #	Size	Length
Red/Yellow		
VER 216081001R	16/2	100'
VER 216081003R	16/2	500'
VER 214081001R	14/2	100'
VER 214081003R	14/2	500'
VER 212081001R	12/2	100'
VER 212081003R	12/2	500'
VER 210081001R	10/2	100'
VER 210081003R	10/2	500'
Red/Black		
VER 216080101R	16/2	100'
VER 216080102R	16/2	250'
VER 214080101R	14/2	100'
VER 214080102R	14/2	250'
VER 212080101R	12/2	100'
VER 212080102R	12/2	250'
VER 210080101R	10/2	100'
VER 210080102R	10/2	250'
Black/Green/White		
VER 316010902RFT	16/3	Foot/250'
VER 316010903R	16/3	500'
VER 314010902RFT	14/3	Foot/250'
VER 314010901R	14/3	100'
VER 314010903R	14/3	500'
VER 312010902RFT	12/3	Foot/250'
VER 312010901R	12/3	100'
VER 310010903RFT	10/3	500'



Protect Your System

with the correct size wire and fuse

Scan to download the app or go to www.circuitwizard.bluesea.com

1. Choose the Correct Wire

a) Locate the CURRENT FLOW IN AMPS of your circuit

b) Select the CIRCUIT TYPE

- Non-critical circuits with 10% allowable voltage drop include: general lighting, winches, pumps, general appliances
- Critical circuits with 3% allowable voltage drop include: panel main feeders, computers, electronics, light-bars

c) Find the CIRCUIT LENGTH

The circuit length is the length of the negative wire added to the length of the positive wire.

Calculations are based on 105°C wire. For wire rated at 90°C or lower, or for wire that passes through an engine compartment, the first row does not apply.

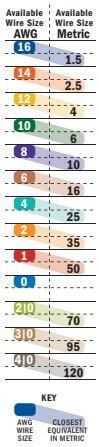
d) Intersect the CURRENT FLOW IN AMPS with CIRCUIT LENGTH to identify the correct wire size

Example: A windlass rated 80A is 25 ft. from the battery. The circuit length is the total length of the positive and negative wire added together, which in this example is 50 ft. The circuit type is 'non-critical', and the correct wire size is 4 AWG.

Calculations are based on 105°C wire. For more detailed calculations, download the Circuit Wizard app or go to circuitwizard.bluesea.com

WIRE SELECTION CHART

Standard and Metric Wire Comparison Table



CIRCUIT TYPE		CURRENT FLOW IN AMPS																
10% VOLTAGE DROP Non Critical	3% VOLTAGE DROP Critical	5A	10A	15A	20A	25A	30A	40A	50A	60A	70A	80A	90A	100A	120A	150A	200A
CIRCUIT LENGTH																		
0 to 20 ft. (0 to 6.1 M)	0 to 6 ft. (0 to 1.8 M)	16 AWG	16 AWG	14 AWG	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	1 AWG	2|0 AWG
30 ft. (9.1 M)	10 ft. (3.0 M)	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	1 AWG	0 AWG	3|0 AWG
50 ft. (15.2 M)	15 ft. (4.6 M)	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	1 AWG	0 AWG	4|0 AWG
65 ft. (19.8 M)	20 ft. (6.1 M)	14 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	2|0 AWG	
80 ft. (24.4 M)	25 ft. (7.6 M)	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	0 AWG	2|0 AWG	3|0 AWG	
100 ft. (30.5 M)	30 ft. (9.1 M)	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	0 AWG	2|0 AWG	2|0 AWG	3|0 AWG	4|0 AWG	
130 ft. (39.6 M)	40 ft. (12.2 M)	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	0 AWG	2|0 AWG	3|0 AWG	3|0 AWG	3|0 AWG	4|0 AWG		
165 ft. (50.3 M)	50 ft. (15.2 M)	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2|0 AWG	2|0 AWG	3|0 AWG	4|0 AWG	4|0 AWG	4|0 AWG			
200 ft. (61.0 M)	60 ft. (18.3 M)	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	2|0 AWG	3|0 AWG	3|0 AWG	4|0 AWG						
–	70 ft. (21.3 M)	2 AWG	1 AWG	1 AWG	0 AWG	0 AWG	2|0 AWG	3|0 AWG	4|0 AWG	4|0 AWG							
–	80 ft. (24.4 M)	1 AWG	0 AWG	0 AWG	2|0 AWG	2|0 AWG	3|0 AWG	4|0 AWG									
–	90 ft. (27.4 M)	0 AWG	2|0 AWG	2|0 AWG	3|0 AWG	3|0 AWG	4|0 AWG										
–	100 ft. (30.5 M)	2|0 AWG	3|0 AWG	3|0 AWG	4|0 AWG	4|0 AWG											
–	110 ft. (33.5 M)	3|0 AWG	4|0 AWG	4|0 AWG													
–	120 ft. (36.6 M)	4|0 AWG															
–	130 ft. (39.6 M)																

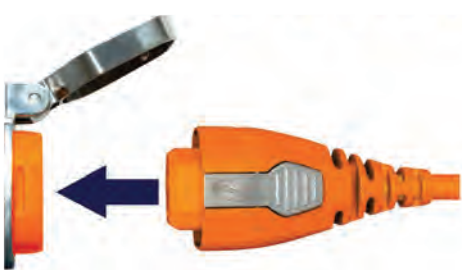
SMARTPLUG®
Innovations in Power Delivery

SAFE SIMPLE SECURE

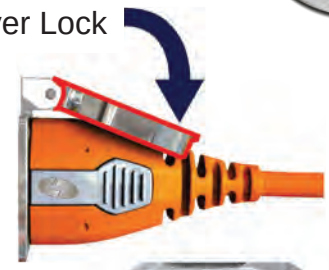
REVERSE POLARITY INDICATOR LIGHTS ON MARINE CORDSETS



NO TWISTING! - SELF CLEANING PUSH-IN DESIGN







INLET & CONNECTOR FEATURES

LED TWO COLOR REVERSE POLARITY AND POWER LIGHTS
One Red and one Blue LED light for Safe/Unsafe Electrical Power Indication under Reverse Polarity Conditions

LOCKING FEATURES
Dual 316 SS side locking levers snap into sides of inlet housing



WEATHERPROOF
Face gasket seals are now IP56 rated

INLET CASE CONSTRUCTION
316 cast stainless steel for maximum corrosion resistance. Also offered in non-metallic high strength UV resistant material

ELECTRICAL PINS
Straight pins with 27X more surface area-
No twisting required!



CONNECTOR BODY SHAPE
Sleeve design fits snugly within inlet, removing all tension from pins & clips
-Easy one handed insertion

WEATHERPROOF
Superior gasket seals against inlet sleeve to eliminate dirt & moisture exposure on electrical pins

EASE OF USE
Unique plug body shape only goes in the right way - even in the dark. Pushes straight in & locks automatically

Intertek Compliant ABYC Compliant THE BEST BUILDERS USE SMARTPLUG SYSTEMS CE Compliant Regulations Title 33, Chapter 1 CFR Part 183 Made in the USA

SmartPlug®
Innovations in Power Delivery

SmartPlug 30 and 50 Amp Power Solutions

A safe alternative that is affordable to upgrade and easy to install. The development of the boat inlet and cordset shore power makes connection between boat and shore power easy and intuitive. SmartPlug's design protects against the common causes of marine fires and electrocution: loose connections and corrosion. The smart, innovative shape and function of the new shore power cordsets and inlets provide:

- Triple waterproof seal
- No-twist connection
- Double lock system
- Straight pin configuration
- Easy to change over

SmartPlug Dual Configuration 30A Cordsets

Connects to the SmartPlug Boatside Inlet on the boatside and a typical 30A twist-type outlet on the dockside.



- Tinned copper
- No adapters needed
- Power-on indicator light on boatside
- Contacts with 20x more contact area
- Weatherproof face seal on boatside
- Multi-point locking system

SMP C30253	30A, 25 foot
SMP C30503	30A, 50 foot
SMP PKM30	BM30NT repair kit
SMP PKM/16/32/30/50/G	S/S inlet gasket kit
SMP PKPM/16/32/30/50/G	Non-Metallic gasket kit
SMP PKF30	BF30 repair kit
SMP PKF30G	BF30 gasket kit



BM30NT

SmartPlug Boat Side 30A Inlet Connectors

- The non-metallic inlet cap and flange are made of fire and weather resistant thermo-plastic

SMP BM30NT	Stainless steel
SMP BM30PB	Black, non-metallic
SMP BM30PG	Grey, non-metallic
SMP BM30PW	White, non-metallic
Parts:	
SMP PKM30	BM30NT repair kit
SMP PKM/16/32/30/50/G	S/S inlet gasket kit
SMP PKPM/16/32/30/50/G	Non-Metallic gasket kit





B30ASSYPG

SmartPlug Boat Side 30A Retrofit Kits

- Includes a 30A, 125V inlet and connector

SMP B30ASSYNT	Stainless
SMP B30ASSYPB	Black, non-metallic
SMP B30ASSYPG	Grey, non-metallic
SMP B30ASSYPW	White, non-metallic
Parts:	
SMP PKM30	BM30NT repair kit
SMP PKM/16/32/30/50/G	S/S inlet gasket kit
SMP PKPM/16/32/30/50/G	Non-Metallic gasket kit
SMP PKF30	BF30 repair kit
SMP PKF30G	BF30 gasket kit

SmartPlug Boat Side Plug 30A, 125V Connector



SMP BF30

Parts:

SMP PKF30	BF30 repair kit
SMP PKF30G	BF30 gasket kit
SMP SP-2 **	Face seal only for BF30

** While Stock Lasts

SmartPlug 30/50A Cap



SMP A1001 Weatherproof cap BF30/50

SmartPlug Miscellaneous Items

SMP SP-1 ** Inlet gasket BM30S

** While Stock Lasts



SmartPlug Dual Configuration 15A 125V Cordsets

Cordsets have the SmartPlug connector for the boat side and a standard 15A connector for the marina power side.

- Tinned wire to minimize corrosion
- Multi-Point Locking System
- Weather Resistant
- Blue LED power indicator light
- Storage bag included

SMP C15253	25 foot
SMP C15503	50 foot

SmartPlug 16/32/30/50A Side Lever Kit



- All stainless steel, levers, pins, and springs to replace or repair products
- Works with all SmartPlug female connectors

SMP PKF01

SmartPlug
SmartPlug to SmartPlug 50A Cordsets



- Boat side SmartPlug connector to marina SmartPlug connector
- SuperFlex50 cord
- Multi-Point Locking System - Side clips lock the plug body securely into the inlet which eliminates any stress on the electrical connection from movement of the power cord.
- Weatherproof Seals - Multi-fin silicone gaskets installed in the interior of the plug body eliminate any water penetration when plug is connected to inlet.
- Blue LED Power Indicator Light - Dual LED bulbs.
- Tinned Wire - All SmartPlug marine cords have tinned wire to minimize corrosion.

SMP CM50254	50A 125V/250V, 25 foot
SMP CM50504	50A 125V/250V, 50 foot

SmartPlug
Dual Configuration 50A Cordsets



- Boat side SmartPlug connector to marina twist-type connector
- SuperFlex50 cord
- Multi-Point Locking System - Side clips lock the plug body securely into the inlet which eliminates any stress on the electrical connection from movement of the power cord.
- Weatherproof Seals - Multi-fin silicone gaskets installed in the interior of the plug body eliminate any water penetration when plug is connected to inlet.
- Blue LED Power Indicator Light - Dual LED bulbs.
- Tinned Wire - All SmartPlug marine cords have tinned wire to minimize corrosion.

SMP C50254	50A 125V/250V, 25 foot
SMP C50504	50A 125V/250V, 50 foot

SmartPlug Boat Side Inlet
50A-125/250V Connector



- The non-metallic inlet cap and flange are made of fire and weather resistant thermo-plastic

SMP BM50S	Stainless steel
Parts:	
SMP PKM50	50A BM50S repair kit

SmartPlug
Boatside 50A Retrofit Kits



The SmartPlug 50A Retrofit Kit includes the 50A Stainless Inlet and the 50A Connector.

SMP B50ASSY	50A 125/250V
Parts:	
SMP PKM50	50A BM50S repair kit
SMP PKF50	50A BF50 repair kit
SMP PKF50G	50A BF50 gasket kit

SmartPlug Boat Side Plug
50A-125/250V Connector



SMP BF50	
Parts:	
SMP PKF50	50A BF50 repair kit
SMP PKF50G	50A BF50 gasket kit



SmartPlug Combo Kit
ELCI Sensor & Breaker / Non-Metallic Door

Provides ELCI (equipment leakage) ground fault sensing. The PGFM series operates in tandem with an Airpax LEL series, UL 489 listed circuit breaker, with shunt trip and auxiliary switch.

- Shuts down shore power if current leakage is detected. This eliminates potential problems such as dangerous electricity in the water and electrolysis.
- Meet ABYC E-11 standards for ground fault protection and main shore power circuit interruption
- UL-943 listed ELCI has power and fault indicator status lights, and test and reset buttons
- Power and fault status indicators
- Provides identification of a ground fault vs. short circuit trip
- Chemical and UV resistant enclosure
- 120V AC or 120/240V AC, 50/60 Hz

SMP ELCIBRKR30PW	30A, White, non-metallic
SMP ELCIBRKR50PW	50A, White, non-metallic



SmartPlug
Connector Inlets

The perfect complement to SmartPlug's stainless shore power inlets. Offering the same look and quality marine grade stainless steel components

- Multi-fin gasket in inlet lid
- Locks into the edge of the SmartPlug mounting flange
- Only requires 4 screws to mount
- Silicone gasket included / no messy caulk

SMP BDCOAX **	Single TV/Internet connector - S/S
SMP BDCOAXEC **	Combo TV/Internet/Ethernet Connector

** While Stock Lasts


RF30


RF50

SmartPlug
Dock Side Receptacles

SMP RF30	30A Female receptacle 125V
SMP RF50	50A Female receptacle 125/250V


RDPWL


RDPWP

SmartPlug
Weather Doors

SMP RDPWL	30/50A horizontal weather door
SMP RDPWP	30/50A vertical weather door


LHRBRKTL530


LHRBRKT

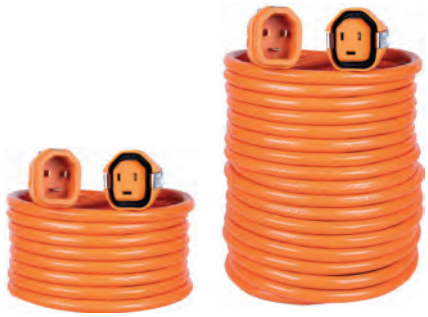

LHRBRKT30


LHRBRKT50

SmartPlug
Receptacle Conversion Parts

SMP LHRBRKTL530 *	30A legacy mounting plate
SMP LHRBRKT *	Main mounting bracket
SMP LHRBRKT30 *	30A mounting plate
SMP LHRBRKT50 *	50A mounting plate

* Special Order



SmartPlug
SmartPlug to SmartPlug Cordsets

- SuperFlex50 cord
- Stows easily & remains flexible
- Blue LED power indicator
- Tinned #6 wire
- Coils tightly even in freezing weather

SMP CM30253	30A 125V Male/female 25'
SMP CM30503	30A 125V Male/female 50'

SmartPlug
Pigtails - Boatside

- SuperFlex cord
- Will adapt a SmartPlug cord or boat fitting


C15043


C30043

30 Amp

- 30A SmartPlug Female to 15A Male wall connector

SMP C15043

- 30A SmartPlug Female to 30A Male twist connector

SMP C30043


C50044L530P


C50044L515P


C50044

50 Amp

- 50A SmartPlug Female to 15A Male wall plug connector

SMP C50044L515P

- 50A SmartPlug Female to 30A Male twist connector

SMP C50044L530P *

- 50A SmartPlug Female to 50A Male twist connector

SMP C50044

* Special Order

SmartPlug
RV Dual Configuration Cordsets

NEW


30A

- Reverse polarity indicator LED lights
- Dual 316 s/s side locking levers snap into the sides of the inlet housing
- Connector body design fits snugly within the inlet to remove all tension from pin and clips with an easy one-handed insertion
- Superior gasket seals against inlet sleeve to eliminate dirt and moisture exposure on electrical pins
- Pull handle on park side connector for ease of removal
- 30' long

SMP R30303	30A
SMP R50304	50A

SmartPlug
Angled RV Dual Configuration Cordsets

NEW

- Easy one-handed engagement and disengagement of your shore power connection
- Relieves stress on the structure
- Cord rests close to the side, reducing run-over risk and trip hazards
- Easier to coil and store
- 30' long


30A

50A

SMP R30303A	30A
SMP R50304A	50A

Marinco 30A Ergo Grip Cordsets

- Cordset has weather resistant moulded contour grips on both the plug and connector ends
- Ergonomic feature provides a firm and reliable grip that makes ground blade connection easy.
- LED power light indicator
- 10/3 cable rated 30A@125V



MAR 199117	25' Yellow
MAR 199119	50' Yellow
MAR 199120	50' White

Marinco 50A 50' PowerCord Plus



- LED Power indicator
- Contour Grip ends
- Thumbprint locator
- Super flexible cable
- Easy Lock System complete with covers and ring
- #6 AWG



MAR 6153SPP	50A 125V, 3 conductor, Yellow
MAR 6152SPP	50A 125/250V, 4 conductor, Yellow
MAR 6153SPPW *	50A 125V, 3 conductor, White

* Special Order - may have stock

Marinco EEL 30 Amp Cordsets

All EEL Cordsets incorporate the highest quality, marine-grade construction for which Marinco is known.

- Watertight molded plug and connector ends for safety and durability
- Heavy-duty, super flexible marine grade cable (30A 10 gauge, 50A 6 gauge)
- Corrosion-resistant, nickel-plated contacts
- cUL US approval
- 5-year warranty

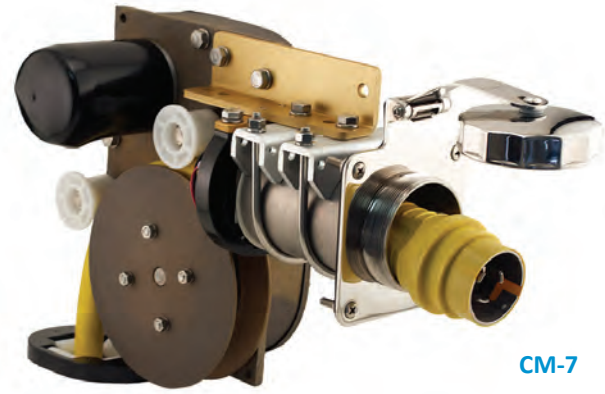




MAR CS30-50	Yellow 50'
MAR CS30-50W	White 50'

Glendinning Cablemaster

- Simply push a button to extend and extract your power cable, no need for carrying and coiling
- Cable automatically coils into a storage container below deck; cable length is limited only by the size of the storage area
- Robust marine construction and powerful drive motors
- 50A applications
- Cable sizes .83” to 1.14” OD
- 12V
- L: 18” x W: 6.3” x H: 12.5”
- UL, CSA, ABYC, CE, ISO8846 approved



GLE 04020-CM7-12V	Cablemaster 7

Cablemaster Parts:

GLE 04034	Relay assembly
GLE 04050	Hawse pipe assembly
GLE 04052	Pipe clamp assembly, single
GLE 04054	Guide roller assembly
GLE 04147-W-433	Wireless keyfob remote, white
GLE 04154-1B	Radio remote control
GLE 04812	In limit switch assembly
GLE 04830	In limit switch with gasket
GLE 04824	Out limit switch assembly
GLE 04899	In limit switch for CM8
GLE 04035-PT	12V motor
GLE 04036-PT	24V motor
GLE 04025 *	Power unit only

* Special Order - may have stock

EEL BY MARINCO SHOREPOWER®

Marinco EEL Pigtail Adapters

One Hand. A simple twist. Full Power.
The EEL (Easily Engaged Lock) ShorePower Cordset has a patented, industry first, jaw-clamp design providing one-handed operation and a secure waterproof seal which completely eliminates the need for a locking ring. The EEL connection is built for the harshest environments and is UL approved. This easy-to-use cordset features a built-in cord light which serves as an alert to boaters when the cord is left plugged in. And, best of all, it works with your current inlet. In addition to cordsets with the EEL System, Marinco also has a full set of Pigtail and Y adapters all using the new EEL technology.

Patented EEL Technology:
- Designed for use with standard inlets (NEMA)
- Single-handed operation
- No sealing ring required
- Patented jaw-clamp technology provides a watertight seal every time

Features & Benefits:
- Built-in cord light for added safety - alert light indicates if you are plugged into the dock and cord is powered
- Power indicator light on both ends informs you full power is flowing through the cord
- Meets and exceeds rigorous UL testing standards

		DOCK SIDE MALE PLUG	BOAT SIDE FEMALE CONNECTOR
MAR P15-30		15A 125V Straight Blade w/ Locking Screw	30A 125V Locking w/ Sealing Collar System
MAR P30-15		30A 125V Locking	15A 125V Straight Blade
MAR P503-30		50A 125V Locking	30A 125V Locking w/ Sealing Collar System
MAR P30-503		30A 125V Locking	50A 125V Locking w/ Sealing Collar System
MAR P504-30		50A 125/250V Locking	30A 125V Locking w/ Sealing Collar System
MAR P30-504		30A 125V Locking	50A 125/250V Locking w/ Sealing Collar System

Marinco Straight Adapters

High-quality, one-piece adapters used much like Pigtail Adapters. However, they do not have sealing collars and are not recommended for use in wet locations. Use only in an enclosed, dry location, such as powering your boat from a 15A power receptacle inside your house.
- LED power indicator
- Ergonomic design for easier gripping

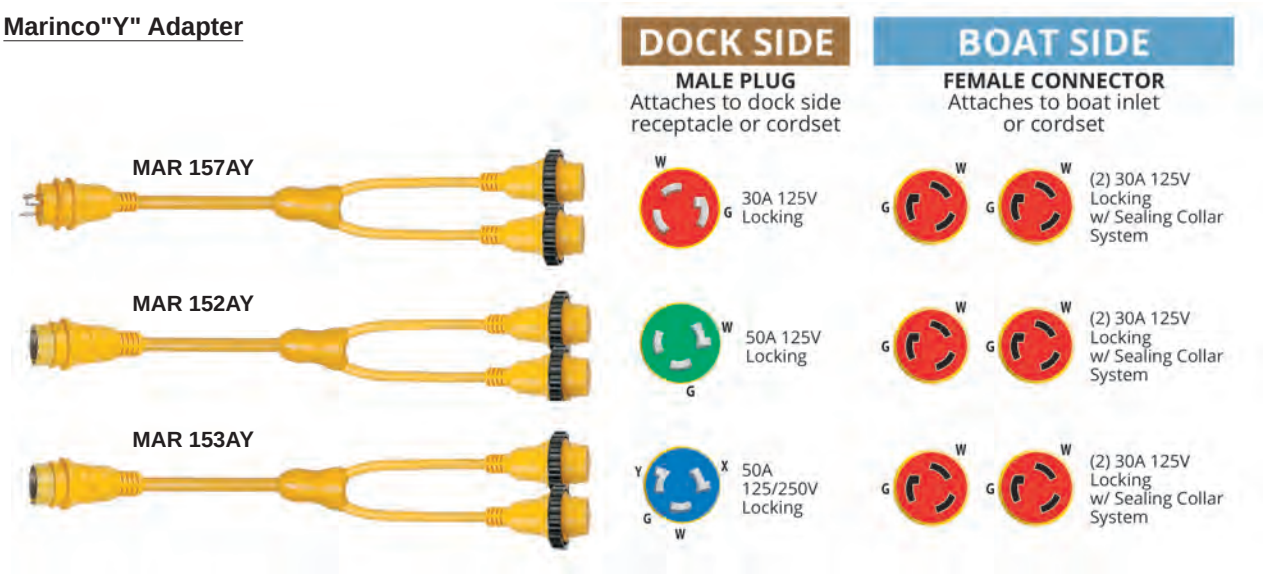
		DOCK SIDE MALE PLUG	BOAT SIDE FEMALE CONNECTOR
MAR S20-15		20A 125V Locking	15 or 20A 125V Straight Blade
MAR S30-15		30A 125V Locking	15 or 20A 125V Straight Blade
MAR S15-30		15A 125V Straight Blade	30A 125V Locking
MAR S20-30		20A 125V Locking	30A 125V Locking
MAR S15-504		15A 125V Straight Blade	50A 125/250V Locking w/ Sealing Collar System

Marinco Pigtail Adapters

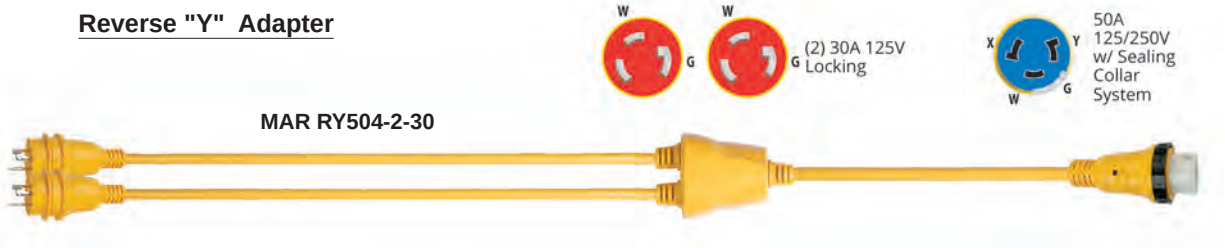
	DOCK SIDE MALE PLUG Attaches to dockside receptacle or cordset	BOAT SIDE FEMALE CONNECTOR Attaches to boat inlet or cordset
 **MAR 104SPP**	 15A 125V Straight-Blade w/ Locking Screw	 30A 125V Locking w/ Sealing Collar System
 **MAR 115A ***	 15A 125V Straight-Blade w/ Locking Screw	 50A 125V Locking w/ Sealing Collar System
 **MAR 150SPP**	 15A 125V Straight-Blade w/ Locking Screw	 50A 125/250V Locking w/ Sealing Collar System
 **MAR 106A**	 20A 125V Locking	 30A 125V Locking w/ Sealing Collar System
 **MAR 105SPP**	 30A 125V Locking	 15A 125V Straight Blade
 **MAR 111A**	 30A 125V Locking	 50A 125V Locking w/ Sealing Collar System
 **MAR 117A**	 30A 125V Locking	 50A 125/250V Locking w/ Sealing Collar System
 **MAR 110A**	 50A 125V Locking	 30A 125V Locking w/ Sealing Collar System
 **MAR 118A**	 50A 125V Locking	 50A 125/250V Locking w/ Sealing Collar System
 **MAR 121A**	 50A 125/250V Locking	 30A 125V Locking w/ Sealing Collar System
 **MAR 123A**	 50A 125/250V Locking	 50A 125V Locking w/ Sealing Collar System

* Special Order

Marinco"Y" Adapter



Reverse "Y" Adapter





Marinco EEL 30 & 50 Amp Y-Adapters

EEL ShorePower Y-Adapters enable you to split one dockside receptacle between two boat inlets of similar or dissimilar power configurations. In addition to the EEL ShorePower system, Y-Adapters incorporate the highest quality, marine-grade construction for which Marinco is known.

- Sealing collar to create a weatherproof seal when joining cables together
- Suitable for use in wet locations
- Watertight molded plug and connector ends for safety and durability.
- Heavy-duty, super flexible marine grade cable (30A 10 gauge, 50A 6 gauge)
- Corrosion-resistant, nickel-plated contacts

MAR Y30-2-30 30A 125V Male to 2-30A Female



MAR Y504-2-30 50A 250V Male to 2-30A Female



Marinco 3-Way 30A-15A Adapter GFCI

- Safer hook-up to 30A dockside power
- Protection against harmful electric shock
- Reduces the possibility of fire
- Protection for up to 3 attached tools
- Corrosion resistant and rainproof rated for outdoor use



MAR 199128

Marinco Angled Cordset

- Convert your existing 30A power cord from a straight connection to a right angle connection
- Provides minimal cordset protrusion from inlet for more clearance in tight spaces
- GripLock handle design for easy hook-up and correct blade alignment with inlet, even in darkness
- Super flexible 10/3 cable
- Includes threaded ring and EasyLock ring
- Also includes sealing collar for maximum moisture protection between connector and cordset



MAR 1RPC

Marinco Stylized 30A 125V Power Inlet



- Power outlet features a contoured, high style appearance
- Marinco's exclusive Easy Lock System for easy cordset to inlet attachment
- New rear safety enclosure provides protection & strain relief
- UL marine listed, CSA certified
- 4-1/2"H x 3-7/8"W x 2-13/16"D
- Exposed depth after installation: 13/16"
- Installation hole: 2-3/4"

MAR 304EL-B

Marinco 30A 125V Power Inlet



- Non-metallic, watertight inlet with Easy Lock system
- 4-way right angle rear safety enclosure
- Friction lock holds cap open
- Stainless steel trim

MAR 301EL-B

Parts:

MAR 305CRMB	Replacement interior
MAR 301-CRMB	Replacement interior Pre 1991
MAR 301ELCB	Replacement cap and bezel

Marinco 30A 125V Soft Touch Inlet



- 316 cast stainless steel inlet with Easy Lock system
- Lock Locators are cast into the cap for quick, trouble free cap closing
- Inlets use a pressure sensitive stainless steel hinge with a cam feature and strengthened strap
- Improved "Cap-Up" function which snaps down with light pressure

MAR 303SSEL-B Male

Parts:

MAR 305CRMB Replacement interior



All of the same features as above but in a Female configuration

MAR 303SSO Female

Marinco 15A 125V Receptacle



- Straight blade
- "U" ground, 2 pole, 3 wire, dual outlet
- Yellow melamine

MAR 5262CRR

Pico Three Wire Connectors



- 15A, 125V receptacle will accept up to a 7/16" cord
- Excellent cold weather properties
- Does not support combustion and is self extinguishing

PIC 8956-11	Female
PIC 8957-11	Male

Marinco 15A 125V Connectors



- Yellow nylon

MAR 5269CR	Female
MAR 5266CR	Male

Marinco 15A 125V Locking Type Connectors



- Yellow nylon

MAR 4731CR	Female
MAR 4721CR	Male

Marinco 20A 125V Connectors



- Yellow nylon with Cablock system

MAR 205CRCN	Female
MAR 205CRPN	Male

Marinco 30A 125V Connectors



- Female, yellow nylon with Cablock system.

MAR 305CRCN	Connector
MAR 305CRCN.VPK	Connector & Cover (103ELN) kit

Parts:

MAR 103RN	Threaded ring cover
MAR 103ELN	Easy lock ring cover



- Male, yellow nylon with Cablock system

MAR 305CRPN	Connector
MAR 305CRPN.VPK	Connector & Cover (102N) kit

Parts:

MAR 102N	Cover for 305 CRPN



Marinco 30A 125V Receptacle & Cover



- Corrosion resistant yellow melamine
- Accepts 8 gauge stranded or 6 gauge with ring terminal wire

MAR 305CRR

- Yellow Lexan cover with lift lid
- Fits 305CRR single receptacle

MAR 7420CR

Marinco 30A / 20A Sealing Collar



- Complete with threaded Lexan ring
- Provides maximum moisture protection between cordset and adapter
- For use with 20A and 30A locking systems

MAR 110R

Parts:

MAR 100R	Locking ring

Marinco 30A Easy Lock Sealing Ring



- Use with 30A Marinco inlets

MAR 100EL

Marinco 50A Stainless Steel Power Inlets



- Locking type, 2 pole, 3 wire, grounding
- 316 stainless steel
- Combines the usability of "Easy Lock" cordset attachment with "Easy Lock" cap closure
- Cap holds open with the "Soft Touch" design for easy insertion of power cable and snaps down with light pressure
- Lock Locators are cast and molded into the cap for simple, reliable, "thread-free" closure
- The "Easy Lock" inlet will also accept threaded cord sets

MAR 6371EL 50A 125V, 2 Pole 3 wire
MAR 6371EL-B With rear safety enclosure



- Same features as above but a 3 pole, 4 wire unit

MAR 6373EL 50A 125/250V, 3 Pole 4 wire
MAR 6373EL-B With rear safety enclosure

Parts:
MAR 6373ELMB 6373EL replacement interior

Marinco 50A 125/250V Power Inlet



- Made from glass filled polyester
- Easy lock system, watertight cap, rear safety enclosure with strain relief and stainless steel trim
- Locking type 3-pole/4-wire

MAR 6353EL-B 50A 125/250V

Parts:
MAR 6353ELCB Replacement Cap & Bezel For 50A. 125/250V

Marinco 50A Weatherproof Cover



- Yellow Lexan with lifting lid
- Use with 6369CR and 6370CR

MAR 7788CR

Marinco 50A Receptacles



- Single outlet
- Black glass reinforced nylon

MAR 6370CR 50A 125V, 2-pole 3-wire
MAR 6369CR 50A 125/250V, 3-pole 4-wire

6370CR

Marinco 50A Sealing Collar & Rings



510R

- Replacement sealing collar with black Lexan threaded ring

MAR 510R



500R

- Threaded Ring. Use with 50A systems

MAR 500R

Marinco 50A Male Plugs



- Male, yellow, all-nylon construction with strain relief system
- Stainless steel plug sleeve offers strength and protection, and the nylon shell eliminates exposed metal parts

MAR 6361CRN 50A 125V

- Same features as above in a 50A 125/250V configuration

MAR 6365CRN 50A 125/250V

Marinco 50A Female Connectors



- Female, yellow, all-nylon construction with strain relief system
- "Permalock" lug terminals
- Longer, stronger contacts inside the connector body assure tighter fitting contact points

MAR 6360CRN 50A 125V

- Same features as above but a 50A 125/250V configuration

MAR 6364CRN 50A 125/250V

Marinco 50A Cover



- Short, yellow Marine Guard II with polycarbonate ring
- Use with 6360CRN and 6364CR

MAR 7715CRN

Marinco 50A Cover



- Long, yellow marine Guard II
- Use with 6361CR and 6365CR

MAR 7717N

Marinco 100A 125/250V 3 Pole 4 Wire

Yellow amaplast watertight plug has gasketed locking ring to mate with the M4100R12 receptacle. U.L. and CSA standards.

MAR M-4100-P12



Greyamaplast dock side receptacle has gasketed spring loaded cover providing a AN IP67 watertight rating when tightened.

- Female

MAR M4100R12



Grey amaplast shore power inlet has gasketed spring loaded cover providing a AN IP67 watertight rating when tightened.

- Male

MAR M-4100-B12R



Marinco 100A 125/208V 4 Pole 5 Wire

Grey AMAPLAST dockside receptacle has gasketed spring loaded cover providing an IP67 watertight rating when tightened.

MAR M5100R9



Camco Powergrip Dogbones

NEW

- 12" adapter cords with threaded locking rings to provide a weatherproof connection
- Durable, long-lasting STW cord
- Rated for 125V

CAM 55616	30A male - 15A female
CAM 55625	50A male - 30A female



NEW



Camco Powergrip Y-Adapters

- Easily plug two connections into a single dockside service
- Adapter is coated with a heavy duty flame-retardant and heat-resistant PVC sheath
- Locking rings on each connector add an extra layer of moisture protection

CAM 55618	30A male - 2x 30A female
CAM 55628	50A male - 2x 30A female

Camco Powergrip Cords

NEW

- Extremely flexible cord coated with a heavy duty flame-retardant, heat-resistant PVC sheath
- Threaded locking ring creates a weatherproof connection
- Includes an adjustable cord organizer and carrying strap handle for simple toting and storage

30 Amp

- Rated for 125V / 3750W

CAM 55611	25'
CAM 55613	50'



50 Amp

- Rated for 125V/250V, 12500W

CAM 55621	25'
CAM 55623	50'

TECH tip™

50A Devices Explained

There are two categories of 50A devices: 50A 125V (50A 3-wire) and 50A 125/250V (50A 4-wire). The 4-wire devices have two "hot" legs, each carrying 50A 125V. These two categories are not interchangeable. A 3-wire plug must never be altered to insert into a 4-wire connector or receptacle.





ProMariner Universal AC Plug Holder

- Converts plug holder to an AC inlet
- No cutting, stripping or rewiring of AC power cord
- Watertight and UV resistant cover

PRO 51300

Marinco Shore Power Clips



- Fits 30A cord sets securely
- Can be used on tube or wire rails
- UV stable, practically unbreakable clips

MAR CLIP-01 6/pkg

Dock Edge Shore Power Clips



- Secure electrical shore power cords in high traffic areas
- Easy to install and use
- Designed to hold a shore power cord in its low profile "toe-friendly" shape
- Four pcs/bag

DOC 91-200-F Yellow, for 30A cord
DOC 91-205-F Yellow, for 50A cord

► *Also See* Glendenning pg 02-078

Marinco 15A Marine Grade Extension Cords



- Fully molded ends
- 12/3 marine grade SJTOW cable
- ABYC standard for damp locations, oil resistance and hard usage
- ETL certified to UL standards

MAR 151225 25'
MAR 151250 50'



Marinco 15A Marine Grade Locking Extension Cords

- Marine-grade 14/3 SJTOW cable and a universal slide button lock on the female end for protection against cable disconnection
- The lighted female end provides visual power indication

MAR 150025 25'
MAR 150050 50'

Marinco Electrical FD Box



- Yellow fibreglass with two 1" KO holes
- Accepts 15A, 20A, 30A, & 50A receptacles and 7420CR & 7788CR weatherproof covers

MAR 6084CR

Marinco Switch & Outlet Box



- Plastic switch outlet box
- Accepts 15A, 20A& 30A receptacles and telephone and coaxial connectors

MAR 6079

Marinco Stainless Steel Weatherproof Covers



- Fits 5262 CRR dual receptacle

MAR 7879CR

- Fits GFCI duplex receptacles

MAR 7879CR-FI

Marinco Breaker Inlet Cover



- Fits C series double pole breakers
- Includes cap & bezel and breaker plate

MAR 3050BI

Scanstrut Ventura Series TV Aerial Connection

NEW



Dependable, simple, and hassle-free outdoor TV connection.

- Marine grade 316 stainless steel and built-in gasket
- Nickel-plated brass connector
- IP68 & IP69K (with lid closed) waterproofing and UV resistance for all weather reliability
- Fixed dual FType coaxial connection ensures zero signal loss, even with repeated use
- 90° holding bump feature
- Spring loaded lid
- Cutout: 1.5"
- 75 ohm
- 19.69" cable length
- Thread size 3/8"-32 UNEF
- W: 2.37" x H: 2.68"

SCA SC-V-TV1

Ancor Battery Terminals



- Tinned brass terminals

Part #	Sold	Type	Stud Size	Qty
ANC 260010	Bulk	Negative	5/16"	ea.
ANC 260012	Bulk	Positive	3/8"	ea.
ANC 260322	Packaged	Neg/Pos	5/16" & 3/8"	1/1

Ancor Lead Battery Terminals



Part #	Sold	Type	Stud	Qty
ANC 260100	Bulk	Negative	5/16"	ea.
ANC 260200	Bulk	Positive	3/8"	ea.
ANC 260325	Packaged	Neg/Pos	5/16" & 3/8"	1/1

FTZ Brass Battery Terminals



FTZ 17128 (10/pkg) Negative 5/16" w/nut
FTZ 17129 (10/pkg) Positive 3/8" w/nut

FTZ Lead Battery Terminals



- Converts standard battery post terminals to a marine stud connector

FTZ 17138 (10/pkg) Negative 5/16" w/nut
FTZ 17139 (10/pkg) Positive 3/8" w/nut

Pico Battery Terminals

- Each battery terminal has a nut and bolt giving tight connections to battery post

Universal Terminals



- Install quickly
- Antimonial lead, resists corrosion

PIC 880-L 8-1/0, each
PIC 880-PK 8-1/0, 5/pkg

Universal Military Style Terminals



- Long bolt accommodates additional power connections

PIC 881N-11 Neg post, each
PIC 881P-11 Pos post, each

Lead Marine Terminals



PIC 898N-BP 5/16" Neg post, each
PIC 899P-BP 3/8" Pos post, each

Brass Terminals



- Clamp type wing nut
- Terminal converts standard post battery to marine or other special uses
- Lead plated brass

PIC 889N-11 5/16" Neg post, each
PIC 889P-11 3/8" Pos post, each

Sea-Dog Battery Terminal



- Die cast lead wing nut style terminals
- One positive and one negative post

SED 415210-1

FTZ Eco-Max Battery Terminals



- Patent pending bimetal design
- Exceeds SAE conductivity standards
- Pure tubular copper barrel permits easier crimping and provides a copper to copper connection with the cable
- 10 per package

Straights

Part #	Size	Polarity	Tool Die
FTZ 18128	4	Universal	Grey J-H
FTZ 18143	1-2	Negative	Pink H-H
FTZ 18144	1-2	Positive	Pink H-H
FTZ 18163	1/0	Negative	Black E-A
FTZ 18164	1/0	Positive	Black E-A
FTZ 18173	2/0	Negative	Orange A-C
FTZ 18174	2/0	Positive	Orange A-C
FTZ 18183	3/0	Negative	Purple A-B
FTZ 18184	3/0	Positive	Purple A-B
FTZ 18193	4/0	Negative	Yellow A-A
FTZ 18194	4/0	Positive	Yellow A-A

Pico Covered & Releasable Battery Terminals



- Quick release battery terminal
- One positive and one negative post

PIC 897-12

Blue Sea Systems Battery Mount Bus Bar



- Maximum voltage: 32V
- Continuous rating: 100A
- Bus material: Tin-plated copper
- Mounting hole: Clearance for 3/8 [M10] stud
- Screw terminal type: #8-32 Screws with captive star lock washer

BSS 2340

Blue Sea Systems Battery Mount Fuse Box



- Easy to install 4 ATO/ATC fused circuits
- Mounts on the battery terminal stud
- Screw terminals for securing wires
- Four nylon insulated ring terminals included
- Insulating cover included
- Accepts Small Format circuit labels
- Includes 1 fuse
- Maximum amperage: 100A per block, 30A per circuit
- Mounting: Clearance for 3/8" [M10] stud
- Screw terminal: #8-32 Screws with captive star lock washer

BSS 5023

Marinco Multi-Connection Battery Terminal



- Eliminates interference with electronics by connecting directly to the battery
- No tools needed
- Includes quick-connect terminals
- Terminate up to four electronic instruments on each set of terminals

MAR 12VTR

Blue Sea Systems Battery Mount Fuse Kit



- Mounts on the battery terminal stud
- #8-32 screw terminals for securing wires
- Nylon insulated ring terminals included for each screw terminal
- Accepts small format circuit labels
- Insulating cover meets ABYC/USCG insulation requirements
- Ignition Protected–meets ISO 8846 and SAE J1171 for use in a gasoline engine compartment
- Includes a 4-circuit negative busbar
- Includes write on labels
- Includes four 16-14 AWG and four 12-10 AWG Nylon insulated ring terminals



BSS 5024

Blue Sea Systems Cable Caps



- For batteries with integral marine terminals
- For single cable only
- Rotating tops allow cable leads at any angle

Part #	Gauge	Opening	Colour
BSS 4001	4, 2, 1	1/2"	Red/Black



Standard for use with automotive batteries with add on marine terminals.

Part #	Gauge	Opening	Colour
BSS 4005	4, 2, 1	1/2"	Red/Black
BSS 4006	1/0, 2/0	5/8"	Red/Black

Blue Sea Systems Cable Caps

- Designed to fit standard automotive posts
- Cable sizes 1/0 & 2/0
- Pair, black & red



BSS 4016 4, 2, 1 ga.
BSS 4017 1/0 - 2/0

Blue Sea Stud Mount Insulating Boot



- Press-fit design for all 5/16" & 3/8" posts & studs
- For use with insulated ring terminals and lugs only
- Red, 2/pk

BSS 4000

Blue Sea Systems Cable Cap Insulators



- Cable cap stud insulators have large terminal openings to fit over marine ring terminals
- Molded PVC is elastic enough to enable standard cable caps to be installed after terminals have been crimped on the cables

Part #	Cable Size	Pkg. Qty.	Colour
BSS 4008	18-10	3	Red
BSS 4009	18-10	3	Black
BSS 4010	8-4	2	Red
BSS 4011	8-4	2	Black
BSS 4012	2-2/0	1	Red
BSS 4013	2-2/0	1	Black
BSS 4014	3/0-4/0	1	Red
BSS 4015	3/0-4/0	1	Black

Ancor Battery Terminal Boots



- Wing nut style covers
- For wire sizes 4 & 2
- Pair

ANC 260350

Sea-Dog Battery Terminal Covers



Satisfies U.S. Coast Guard requirements and American Boat and Yacht Council recommendations for prevention of accidental grounding of battery terminals. Will fit most marine batteries as well as automotive batteries using add on marine terminals.

- Pairs
- H: 1-5/8" x W: 1-11/16" x L: 2-7/8"

SED 415110-1 1/2" opening, fits gauges 4, 2, 1
SED 415115-1 5/8" opening, fits gauges 1/0, 2/0

Sure Power Terminal Boot Covers



- Maximum stud size: 5/16"
- Fits: 6 - 12 gauge wire
- Red

SUR 002-B Each



Vertex Terminal Boots

- Protect terminal connections from accidental shorts
- Complies with ABYC & USCG

Part #	Wire Size (AWG)	Colour	Qty
VER 81513	8-4	Black	2
VER 81514	8-4	Red	2
VER 81515	8-4	Yellow	2
VER 81516	8-4	Black	50
VER 81517	8-4	Red	50
VER 81518	8-4	Yellow	50
VER 81519	8-4	Black & Red	1/1
VER 81520	8-4	Red & Yellow	1/1
VER 81521	2-2/0	Black	1
VER 81522	2-2/0	Red	1
VER 81523	2-2/0	Yellow	1
VER 81524	2-2/0	Black	25
VER 81525	2-2/0	Red	25
VER 81526	2-2/0	Yellow	25
VER 81527	2-2/0	Black & Red	1/1
VER 81528	2-2/0	Red & Yellow	1/1
VER 81529	3/0-4/0	Black	1
VER 81530	3/0-4/0	Red	1
VER 81531	3/0-4/0	Yellow	1
VER 81532	3/0-4/0	Black	25
VER 81533	3/0-4/0	Red	25
VER 81534	3/0-4/0	Yellow	25
VER 81535	3/0-4/0	Black & Red	1/1
VER 81536	3/0-4/0	Red & Yellow	1/1

Ancor Battery Lugs



- Pure copper for maximum current flow
- 100% tinned for corrosion resistance
- Seamless barrel for maximum strength
- Closed end to seal out moisture
- Funnel entry for easy wire insertion

Part #	Gauge	Screw Size	Qty/Pkg
ANC 252233	8	10	2
ANC 242233	8	10	25
ANC 252234	8	1/4"	2
ANC 242234	8	1/4"	25
ANC 252235	8	5/16"	2
ANC 242235	8	5/16"	25
ANC 252236	8	3/8"	2
ANC 242236	8	3/8"	25
ANC 242237	8	1/2"	10
ANC 252243	6	10	2
ANC 242243	6	10	25
ANC 252244	6	1/4"	2
ANC 242244	6	1/4"	25
ANC 252245	6	5/16"	2
ANC 242245	6	5/16"	25

Ancor Battery Lugs, continued

Part #	Gauge	Screw Size	Qty/Pkg
ANC 252246	6	3/8"	2
ANC 242246	6	3/8"	25
ANC 252241 †	6	5/16" & 3/8"	1/1
ANC 252253	4	10	2
ANC 242253	4	10	25
ANC 252254	4	1/4"	2
ANC 242254	4	1/4"	25
ANC 252255	4	5/16"	2
ANC 242255	4	5/16"	25
ANC 252256	4	3/8"	2
ANC 242256	4	3/8"	25
ANC 252251 †	4	5/16" & 3/8"	1/1
ANC 252257	4	1/2"	2
ANC 242257	4	1/2"	10
ANC 252264	2	1/4"	2
ANC 242264	2	1/4"	25
ANC 252265	2	5/16"	2
ANC 242265	2	5/16"	25
ANC 252266	2	3/8"	2
ANC 242266	2	3/8"	25
ANC 252267	2	1/2"	2
ANC 252261 †	2	5/16" & 3/8"	1/1
ANC 252274	1	1/4"	2
ANC 252275	1	5/16"	2
ANC 242275	1	5/16"	25
ANC 252276	1	3/8"	2
ANC 242276	1	3/8"	25
ANC 252285	1/0	5/16"	2
ANC 242285	1/0	5/16"	25
ANC 252286	1/0	3/8"	2
ANC 242286	1/0	3/8"	25
ANC 252295	2/0	5/16"	2
ANC 242295	2/0	5/16"	25
ANC 252296	2/0	3/8"	2
ANC 242296	2/0	3/8"	25
ANC 252297	2/0	1/2"	2
ANC 242297	2/0	1/2"	10
ANC 242725	4/0	5/16"	10
ANC 242726	4/0	3/8"	10
ANC 252726	4/0	3/8"	2
ANC 244726	4/0	3/8"	100
ANC 252727	4/0	1/2"	2
ANC 252725	4/0	5/16"	2

† Combo Packs

► *Also See* Electrical Tools pg 02-107 to 111

Vertex Heavy Duty Lugs

- Tinned copper
- Flared barrel entry



Part #	Gauge	Stud	Qty/Pkg
VER 82086	8	#10	2
VER 82087	8	#10	10
VER 82088	8	#10	25
VER 82090	8	#10	100
VER 81796	8	1/4"	2
VER 81920	8	1/4"	10
VER 81797	8	1/4"	25
VER 81799	8	1/4"	100
VER 81800	8	5/16"	2
VER 81921	8	5/16"	10
VER 81801	8	5/16"	25
VER 81803	8	5/16"	100
VER 81804	8	3/8"	2
VER 81922	8	3/8"	10
VER 81805	8	3/8"	25
VER 81807	8	3/8"	100
VER 82150	8	1/2"	2
VER 82151	8	1/2"	10
VER 82152	8	1/2"	25
VER 82154	8	1/2"	100
VER 82091	6	#10	2
VER 82092	6	#10	10
VER 82093	6	#10	25
VER 82095	6	#10	100
VER 81808	6	1/4"	2
VER 81923	6	1/4"	10
VER 81809	6	1/4"	25
VER 81811	6	1/4"	100
VER 81812	6	5/16"	2
VER 81924	6	5/16"	10
VER 81813	6	5/16"	25
VER 81815	6	5/16"	100
VER 81816	6	3/8"	2
VER 81925	6	3/8"	10
VER 81817	6	3/8"	25
VER 81819	6	3/8"	100
VER 82155	6	1/2"	2
VER 82156	6	1/2"	10
VER 82157	6	1/2"	25
VER 82159	6	1/2"	100
VER 82160	4	#10	2
VER 82161	4	#10	10
VER 82162	4	#10	25
VER 82164	4	#10	100
VER 82165	4	1/4"	2
VER 82166	4	1/4"	10
VER 82167	4	1/4"	25
VER 82169	4	1/4"	100
VER 81269	4	5/16"	2
VER 81927	4	5/16"	10
VER 81270	4	5/16"	25
VER 81272	4	5/16"	100
VER 81273	4	3/8"	2
VER 81928	4	3/8"	10
VER 81274	4	3/8"	25
VER 81276	4	3/8"	100
VER 82170	4	1/2"	2
VER 82171	4	1/2"	10
VER 82172	4	1/2"	25
VER 82174	4	1/2"	100
VER 82175	2	1/4"	2
VER 82176	2	1/4"	10
VER 82177	2	1/4"	25
VER 82179	2	1/4"	100
VER 81277	2	5/16"	2
VER 81930	2	5/16"	10
VER 81278	2	5/16"	25
VER 81280	2	5/16"	100
VER 81281	2	3/8"	2
VER 81931	2	3/8"	10
VER 81282	2	3/8"	25
VER 81284	2	3/8"	100
VER 82252	2	1/2"	2
VER 82253	2	1/2"	10
VER 82256	2	1/2"	100
VER 81285	1	5/16"	2
VER 81933	1	5/16"	10
VER 81286	1	5/16"	25
VER 81288	1	5/16"	100
VER 81289	1	3/8"	2
VER 81934	1	3/8"	10
VER 81290	1	3/8"	25
VER 81292	1	3/8"	100
VER 82185	1/0	1/4"	2
VER 82186	1/0	1/4"	10
VER 82187	1/0	1/4"	25
VER 82189	1/0	1/4"	100
VER 81293	1/0	5/16"	2
VER 81936	1/0	5/16"	10
VER 81294	1/0	5/16"	25
VER 81296	1/0	5/16"	100
VER 81297	1/0	3/8"	2
VER 81937	1/0	3/8"	10
VER 81298	1/0	3/8"	25
VER 81300	1/0	3/8"	100
VER 82285	1/0	1/2"	2
VER 82286	1/0	1/2"	10
VER 82287	1/0	1/2"	25
VER 82289	1/0	1/2"	100
VER 82190	2/0	1/4"	2
VER 82191	2/0	1/4"	10
VER 82192	2/0	1/4"	25
VER 82194	2/0	1/4"	100
VER 81301	2/0	5/16"	2
VER 81939	2/0	5/16"	10
VER 81302	2/0	5/16"	25
VER 81304	2/0	5/16"	100
VER 81305	2/0	3/8"	2
VER 81940	2/0	3/8"	10
VER 81306	2/0	3/8"	25
VER 81308	2/0	3/8"	100
VER 82195	2/0	1/2"	2
VER 82196	2/0	1/2"	10
VER 82197	2/0	1/2"	25
VER 82199	2/0	1/2"	100
VER 82205	3/0	5/16"	2
VER 82206	3/0	5/16"	10
VER 82207	3/0	5/16"	25
VER 82210	3/0	3/8"	2
VER 82211	3/0	3/8"	10
VER 82212	3/0	3/8"	25
VER 82220	4/0	1/4"	2
VER 82221	4/0	1/4"	10
VER 82222	4/0	1/4"	25
VER 81309	4/0	5/16"	2
VER 81947	4/0	5/16"	10
VER 81309	4/0	5/16"	2
VER 81310	4/0	5/16"	25
VER 81313	4/0	3/8"	2
VER 81948	4/0	3/8"	10
VER 81314	4/0	3/8"	25
VER 82225	4/0	1/2"	2
VER 82226	4/0	1/2"	10
VER 82227	4/0	1/2"	25

Ancor 90° Tinned Copper Lugs



- Heavy duty annealed tinned copper, providing for maximum current flow and corrosion resistance
- Seamless barrel for maximum strength
- Closed end to seal out moisture
- 90° bend for ease of wire routing

Part #	Gauge	Stud Size	Qty/Pkg
ANC 262255	4	5/16"	2
ANC 262256	4	3/8"	2
ANC 262265	2	5/16"	2
ANC 262266	2	3/8"	2
ANC 262285	1/0	5/16"	2
ANC 262286	1/0	3/8"	2
ANC 262295	2/0	5/16"	2
ANC 262296	2/0	3/8"	2
ANC 262725	4/0	5/16"	2
ANC 262726	4/0	3/8"	2

FTZ Heavy Duty Starter Lugs



- Colour coded
- Seamless copper pad
- Tin plated
- 10/pkg

Part #	Lug Gauge	Stud
FTZ 91705	8	1/4"
FTZ 91706	8	5/16"
FTZ 91707	8	3/8"
FTZ 91709	8	1/2"
FTZ 91715	6	1/4"
FTZ 91716	6	5/16"
FTZ 91717	6	3/8"
FTZ 91719	6	1/2"
FTZ 91725	4	1/4"
FTZ 91726	4	5/16"
FTZ 91727	4	3/8"
FTZ 91729	4	1/2"
FTZ 91745	1-2	1/4"
FTZ 91746	1-2	5/16"
FTZ 91747	1-2	3/8"
FTZ 91749	1-2	1/2"
FTZ 91756	1/0	5/16"
FTZ 91757	1/0	3/8"
FTZ 91759	1/0	1/2"
FTZ 91766	2/0	5/16"
FTZ 91767	2/0	3/8"
FTZ 91769	2/0	1/2"
FTZ 91776	3/0	5/16"
FTZ 91779	3/0	1/2"
FTZ 91786	4/0	5/16"
FTZ 91787	4/0	3/8"
FTZ 91789	4/0	1/2"

FTZ Starter Lugs



- Seamless copper pad
- Tin plated
- 10/pkg

Part #	Lug Gauge	Stud
FTZ 91004	8	#10
FTZ 91005	8	1/4"
FTZ 91006	8	5/16"
FTZ 91007	8	3/8"
FTZ 91009	8	1/2"
FTZ 91014	6	#10
FTZ 91015	6	1/4"
FTZ 91016	6	5/16"
FTZ 91017	6	3/8"
FTZ 91019	6	1/2"
FTZ 91024	4	#10"
FTZ 91025	4	1/4"
FTZ 91026	4	5/16"
FTZ 91027	4	3/8"
FTZ 91029	4	1/2"
FTZ 91035	2	1/4"
FTZ 91036	2	5/16"
FTZ 91037	2	3/8"
FTZ 91039	2	1/2"
FTZ 91045	1	1/4"
FTZ 91046	1	5/16"
FTZ 91047	1	3/8"
FTZ 91049	1	1/2"
FTZ 91056	1/0	5/16"
FTZ 91057	1/0	3/8"
FTZ 91059	1/0	1/2"
FTZ 91065	2/0	1/4"
FTZ 91066	2/0	5/16"
FTZ 91067	2/0	3/8"
FTZ 91069	2/0	1/2"
FTZ 91076	3/0	5/16"
FTZ 91077	3/0	3/8"
FTZ 91079	3/0	1/2"
FTZ 91085	4/0	1/4"
FTZ 91086	4/0	5/16"
FTZ 91087	4/0	3/8"
FTZ 91089	4/0	1/2"

► *Also See* Electrical Tools pg 02-107 to 111

Ancor Lug Kit



- Kit with 100 pieces of tinned copper lugs

Includes:

- (10) 8 AWG, 5/16", (10) 8 AWG, 3/8"
- (10) 6 AWG, 5/16", (10) 6 AWG, 3/8"
- (10) 4 AWG, 5/16", (10) 4 AWG, 3/8"
- (10) 2 AWG, 5/16", (10) 2 AWG, 3/8"
- (5) 1/0 AWG, 5/16", (5) 1/0 AWG, 3/8"
- (5) 2/0 AWG, 5/16", (5) 2/0 AWG, 3/8"

ANC 255101

Pico Tubular Lug Ring Assortment Kit

- 4 each of 8 to 2/0 gauge with #10 to 1/2" ring sizes
- Tinned copper



- (4) 8 AWG #10
- (4) 8 AWG 1/4"
- (4) 8 AWG 5/16"
- (4) 8 AWG 3/8"
- (4) 6 AWG1/4"
- (4) 6 AWG 5/16"
- (4) 6 AWG 3/8"
- (4) 4 AWG1/4"
- (4) 4 AWG 5/16"
- (4) 4 AWG 3/8"
- (4) 2 AWG1/4"
- (4) 2 AWG 5/16"
- (4) 2 AWG 3/8"
- (4) 1 AWG 3/8"
- (4) 1/0 AWG 5/16"
- (4) 1/0 AWG 3/8"
- (4) 2/0 AWG 3/8"
- (4) 2/0 AWG 1/2"

PIC 31801-91 72 pcs

Pico Modular Terminals and Housings

Connectors offer optimal conductivity. Contacts have flared barrel openings for easy wire entry. Housings are available in several different colours to avoid mating of different voltages. Impact and vibration resistant.

- Terminals are silver plated copper
- Housings made of polycarbonate.

6 or 8 AWG Modular Contacts



- Silver plated copper

PIC 3251-12 8 gauge, 70A, 2/pkg
PIC 3252-12 6 gauge, 95A, 2/pkg

50A Series Modular Housings



- Polycarbonate

PIC 3261-11 Red, each
PIC 3262-11 Yellow, each

Housing & Contacts Combo Packs



- 8 AWG, rated 70A

PIC 32512-91 1 set

- 6 AWG, rated 95A

PIC 32522-91 1 set

Modular Connector Caps - 50A



- Made of tough, high temperature PVC

PIC 3290-11

Ancor Copper Butt Connectors



- 100% tinned copper
- 2/pkg

ANC 252130	8 gauge
ANC 252140	6 gauge
ANC 252150	4 gauge
ANC 252160	2 gauge
ANC 252170	1 gauge
ANC 252180	1/0 gauge
ANC 252190	2/0 gauge

Pico Solid Barrel Butt Connectors

- Solid copper tubular stock with electro-tin plating
- Rated for 600 volts

Part #	Gauge	Qty/Pkg
PIC 4000-PK	8	25
PIC 4000-PR	8	2
PIC 4100-PR	6	2
PIC 4200-PK	4	10
PIC 4300-PK	2	10
PIC 4400-PK	1/0	10
PIC 4600-PK	3/0	5
PIC 4700-PK	4/0	5



Pico Butt Connectors

- Non-insulated



Part #	Gauge	Qty.
Butted Seam		
PIC 2300-CS	22-18	100
PIC 2400-CS	16-14	100
PIC 2500-CS	12-10	100
Brazed Seam		
PIC 2600-CS	22-18	100
PIC 2700-CS	16-14	100

Ancor Flanged Spades



- Nylon insulated with insulation grip

Part #	Gauge	Screw Size	Qty/Pkg
ANC 210302	22-18	8	25
ANC 230303	22-18	10	6
ANC 230312	16-14	8	6
ANC 210312	16-14	8	25
ANC 220312	16-14	8	100
ANC 220313	16-14	10	100
ANC 230313	16-14	10	6
ANC 210322	12-10	8	25
ANC 230322	12-10	8	5
ANC 230323	12-10	10	5
ANC 210323	12-10	10	25
ANC 220323	12-10	10	100

Ancor Ring Terminals



- Nylon insulated with insulation grip (funnel entry)

Part #	Gauge	Screw Size	Qty/Pkg
ANC 230201	22-18	6	6
ANC 230202	22-18	8	6
ANC 210202	22-18	8	25
ANC 220202	22-18	8	100
ANC 230203	22-18	10	6
ANC 210203	22-18	10	25
ANC 220203	22-18	10	100
ANC 230205	22-18	5/16"	5
ANC 230206	22-18	3/8"	5
ANC 230211	16-14	6	6
ANC 230212	16-14	8	6
ANC 210212	16-14	8	25
ANC 220212	16-14	8	100
ANC 230213	16-14	10	6
ANC 210213	16-14	10	25
ANC 220213	16-14	10	100
ANC 222213	16-14	10	500
ANC 230214	16-14	1/4"	5
ANC 210214	16-14	1/4"	25
ANC 220214	16-14	1/4"	100
ANC 230215	16-14	5/16"	5
ANC 210215	16-14	5/16"	25
ANC 220215	16-14	5/16"	100
ANC 230216	16-14	3/8"	5
ANC 220216	16-14	3/8"	100
ANC 230221	12-10	6	5
ANC 230222	12-10	8	5
ANC 210222	12-10	8	25
ANC 220222	12-10	8	100
ANC 230223	12-10	10	5
ANC 210223	12-10	10	25
ANC 220223	12-10	10	100
ANC 230224	12-10	1/4"	4
ANC 210224	12-10	1/4"	25
ANC 220224	12-10	1/4"	100
ANC 230225	12-10	5/16"	4
ANC 210225	12-10	5/16"	25
ANC 220225	12-10	5/16"	100
ANC 230226	12-10	3/8"	4
ANC 210226	12-10	3/8"	25
ANC 220226	12-10	3/8"	100
ANC 230227	12-10	1/2"	3
ANC 230233	8	10	2
ANC 210233	8	10	25
ANC 230234	8	1/4"	2
ANC 210234	8	1/4"	25
ANC 230235	8	5/16"	2
ANC 230236	8	3/8"	2

► *Also See* Heatshrink Terminals pg 02-100 to 104

Ancor Disconnects



- Nylon terminals are UV, diesel and oil resistant
- Electrolytic copper, tin plated
- Additional brass sleeve provides funnel entry
- UL listed
- .250 tab size

Part #	Gauge	Type	Qty/Pkg
ANC 231408	22-18	Female	4
ANC 231409	22-18	Male	4
ANC 230818	16-14	Female	5
ANC 210818	16-14	Female	25
ANC 210819	16-14	Male	25
ANC 230819	16-14	Male	5
ANC 230828	12-10	Female	4
ANC 210828	12-10	Female	25
ANC 220828	12-10	Female	100
ANC 210829	12-10	Male	25
ANC 230829	12-10	Male	4

Ancor Nylon Flag Disconnects



- Nylon insulated with insulation grip
- .250 tab size

Part #	Gauge	Type	Qty/Pkg
ANC 211601	22-18	Female	25
ANC 211611	16-14	Female	25
ANC 211621	12-10	Female	25

Ancor Disconnects



- Fully insulated
- Funnel entry
- .250 tab size

Part #	Gauge	Type	Qty/Pkg
ANC 221408	22-18	Female	100
ANC 221409 **	22-18	Male	100
ANC 231418	16-14	Female	4
ANC 211418	16-14	Female	25
ANC 221418	16-14	Female	100
ANC 231419	16-14	Male	4
ANC 211419	16-14	Male	25
ANC 221419 **	16-14	Male	100
ANC 231428	12-10	Female	3
ANC 211428	12-10	Female	25
ANC 221428	12-10	Female	100
ANC 231429	12-10	Male	3
ANC 211429	12-10	Male	25
ANC 221429 **	12-10	Male	100

** While Stock Lasts

Ancor Butt Connectors - Single Crimp

- Nylon terminals are UV, diesel and oil resistant
- Electrolytic copper, tin plated
- UL listed. Made in the USA
- Seamless construction eliminates splitting
- Single crimp



Part #	Gauge	Qty/Pkg
ANC 230100	22-18	7
ANC 210100	22-18	25
ANC 220100	22-18	100
ANC 230110	16-14	7
ANC 210110	16-14	25
ANC 220110	16-14	100
ANC 230120	12-10	5
ANC 210120	12-10	25
ANC 220120	12-10	100

Ancor Butt Connectors - Double Crimp

- Nylon with brass sleeves provide funnel entry for easy installation
- Double crimp
- Deep serrations in barrel for best grip



Part #	Gauge	Qty/Pkg
ANC 220161	22-18	100
ANC 210161	22-18	25
ANC 220162	16-14	100
ANC 210162	16-14	25
ANC 210163	12-10	25
ANC 220163	12-10	100

Ancor Vinyl Butt Connectors

- For 8 gauge wire
- Tin plated copper
- U.L. listed
- Serrations in barrel grip exceed U.L. specifications



ANC 210130 25/pkg
ANC 230130 2/pkg

Ancor Vinyl Step-Down Butt Connectors

- Vinyl insulated
- Join a pair of connectors to a third, all of the same size or two conductors of different sizes
- The smaller end is banded with the colour code of that conductor



Part #	Gauge	Qty/Pkg
ANC 230164	16/14-22/18	3
ANC 230165	12/10 -16/14	3

Pico Locking Spades

- Vinyl flare insulated



Part #	Gauge	Colour	Size	Qty
PIC 1828-CS	16-14	Blue	#8	100

Pico Flanged Spades

- Vinyl flared insulated



Part #	Gauge	Colour	Stud Size	Qty/Pkg
PIC 1733-CS	22-18	Red	#6	100
PIC 1733-15	22-18	Red	#6	50
PIC 1733-BP	22-18	Red	#6	7
PIC 1734-15	22-18	Red	#8	50
PIC 1734-BP	22-18	Red	#8	7
PIC 1735-15	22-18	Red	#10	50
PIC 1735-BP	22-18	Red	#10	7
PIC 1833-CS	16-14	Blue	#6	100
PIC 1833-BP	16-14	Blue	#6	7
PIC 1834-15	16-14	Blue	#6	50
PIC 1834-BP	16-14	Blue	#8	7
PIC 1834-CS	16-14	Blue	#8	100
PIC 1835-15	16-14	Blue	#8	50
PIC 1835-BP	16-14	Blue	#10	7
PIC 1933-13	12-10	Yellow	#6	5
PIC 1934-15	12-10	Yellow	#6	50
PIC 1934-13	12-10	Yellow	#8	5
PIC 1935-15	12-10	Yellow	#8	50
PIC 1935-16	12-10	Yellow	#10	100
PIC 1935-13	12-10	Yellow	#10	5

Pico Spades

- Vinyl flared insulated



Part #	Gauge	Colour	Stud Size	Qty/Pkg
PIC 1723-BP	22-18	Red	#6	7
PIC 1724-BP	22-18	Red	#8	7
PIC 1725-15	22-18	Red	#10	50
PIC 1725-BP	22-18	Red	#10	7
PIC 1823-CS	16-14	Blue	#6	100
PIC 1823-BP	16-14	Blue	#6	7
PIC 1824-CS	16-14	Blue	#8	100
PIC 1824-BP	16-14	Blue	#8	7
PIC 1825-CS	16-14	Blue	#10	100
PIC 1825-15	16-14	Blue	#10	50
PIC 1825-BP	16-14	Blue	#10	7
PIC 1924-CP	12-10	Yellow	#8	100
PIC 1924-BP	12-10	Yellow	#8	5
PIC 1925-BP	12-10	Yellow	#10	5

Pico Rings

- Non-insulated



Part #	Gauge	Seam	Stud Size	Qty/Pkg
PIC 2405-CS	16-14	Butted	#10	100
PIC 2406-CS	16-14	Butted	1/4"	100
PIC 2705-CS	16-14	Brazed	#10	100
PIC 2805-16	12-10	Brazed	#10	100

Pico Rings



- Vinyl flared insulated

Part #	Gauge	Colour	Stud Size	Qty/Pkg
PIC 1703-CS	22-18	Red	#6	100
PIC 1703-15	22-18	Red	#6	50
PIC 1703-BP	22-18	Red	#6	9
PIC 1704-15	22-18	Red	#8	50
PIC 1704-BP	22-18	Red	#8	9
PIC 1705-CS	22-18	Red	#10	100
PIC 1705-15	22-18	Red	#10	50
PIC 1705-BP	22-18	Red	#10	9
PIC 1706-CS	22-18	Red	1/4"	100
PIC 1706-15	22-18	Red	1/4"	50
PIC 1706-BP	22-18	Red	1/4"	7
PIC 1708-15	22-18	Red	5/16"	50
PIC 1708-BP	22-18	Red	5/16"	7
PIC 1709-15	22-18	Red	3/8"	50
PIC 1709-BP	22-18	Red	3/8"	7
PIC 1803-CS	16-14	Blue	#6	100
PIC 1803-15	16-14	Blue	#6	50
PIC 1803-BP	16-14	Blue	#6	9
PIC 1804-CS	16-14	Blue	#8	100
PIC 1804-15	16-14	Blue	#8	50
PIC 1804-BP	16-14	Blue	#8	9
PIC 1805-CS	16-14	Blue	#10	100
PIC 1805-15	16-14	Blue	#10	50
PIC 1805-BP	16-14	Blue	#10	9
PIC 1806-CP	16-14	Blue	1/4"	100
PIC 1806-15	16-14	Blue	1/4"	50
PIC 1806-BP	16-14	Blue	1/4"	7
PIC 1808-CP	16-14	Blue	5/16"	100
PIC 1808-15	16-14	Blue	5/16"	50
PIC 1808-BP	16-14	Blue	5/16"	7
PIC 1809-CP	16-14	Blue	3/8"	100
PIC 1809-15	16-14	Blue	3/8"	50
PIC 1809-BP	16-14	Blue	3/8"	7
PIC 1903-CP	12-10	Yellow	#6	100
PIC 1903-BP	12-10	Yellow	#6	7
PIC 1904-CP	12-10	Yellow	#8	100
PIC 1904-15	12-10	Yellow	#8	50
PIC 1904-BP	12-10	Yellow	#8	7
PIC 1905-CP	12-10	Yellow	#10	100
PIC 1905-15	12-10	Yellow	#10	50
PIC 1905-BP	12-10	Yellow	#10	7
PIC 1906-CP	12-10	Yellow	1/4"	100
PIC 1906-15	12-10	Yellow	1/4"	50
PIC 1906-BP	12-10	Yellow	1/4"	5

Pico Rings, continued



- Vinyl flared insulated

Part #	Gauge	Colour	Stud Size	Qty/Pkg
PIC 1908-CP	12-10	Yellow	5/16"	100
PIC 1908-15	12-10	Yellow	5/16"	50
PIC 1908-BP	12-10	Yellow	5/16"	5
PIC 1909-CP	12-10	Yellow	3/8"	100
PIC 1909-15	12-10	Yellow	3/8"	50
PIC 1909-BP	12-10	Yellow	3/8"	5
PIC 1913-15	12-10	Yellow	1/2"	50
PIC 1913-16	12-10	Yellow	1/2"	100
PIC 1913-BP	12-10	Yellow	1/2"	4

Pico Quick Connects



1594



1595

Brass .250 double male tabs with single female receptacle.

PIC 1594-BP	5/pkg
PIC 1594-CS	100/pkg
PIC 1595-BP	3/pkg
PIC 1595-CS	100/pkg

Pico Volkswagen Quick Connect Splitter



- Splits 1-male tab into 2
- Brass .250 double male tabs with single female receptacle

PIC 1591-BP 5/pkg

Pico Quick Connect



- Non-insulated, butted seam

Part #	Gauge	Qty.	Type	Width
PIC 2455-CS	16-14	100	Female	.250

Pico Piggyback Connects



Vinyl insulated piggyback slip-on with .250 male tab and female receptacle.

PIC 1760-BP	22-18, 5/pkg
PIC 1860-BP	16-14, 5/pkg
PIC 1860-CS	16-14, 100/pkg
PIC 1960-BP	12-10, 5/pkg

Pico Quick Connects 16-14



- Vinyl flare insulated, butted seam

Part #	Gauge	Colour	Qty.	Type	Width
PIC 1849-CS	16-14	Blue	100	Female	.110
PIC 1850-CS	16-14	Blue	100	Male	.110
PIC 1851-CS	16-14	Blue	100	Female	.187
PIC 1851-15	16-14	Blue	50	Female	.187
PIC 1851-BP	16-14	Blue	9	Female	.187
PIC 1853-BP	16-14	Blue	9	Female	.205
PIC 1855-CS	16-14	Blue	100	Female	.250
PIC 1855-15	16-14	Blue	50	Female	.250
PIC 1855-BP	16-14	Blue	9	Female	.250
PIC 1856-CS	16-14	Blue	100	Male	.250
PIC 1856-15	16-14	Blue	50	Male	.250
PIC 1856-BP	16-14	Blue	9	Male	.250

Pico Quick Connects 22-18



- Vinyl flare insulated, butted seam

Part #	Gauge	Colour	Qty.	Type	Width
PIC 1749-BP	22-18	Red	9	Female	.110
PIC 1750-BP	22-18	Red	9	Male	.110
PIC 1750-CS	22-18	Red	100	Male	.110
PIC 1751-BP	22-18	Red	9	Female	.187
PIC 1755-CS	22-18	Red	100	Female	.250
PIC 1755-15	22-18	Red	50	Female	.250
PIC 1755-BP	22-18	Red	9	Female	.250
PIC 1756-BP	22-18	Red	9	Male	.250

Pico Quick Connects 12-10



- Vinyl flare insulated, butted seam

Part #	Gauge	Colour	Qty.	Type	Width
PIC 1955-CP	12-10	Yellow	100	Female	.250
PIC 1955-15	12-10	Yellow	50	Female	.250
PIC 1955-BP	12-10	Yellow	6	Female	.250
PIC 1956-15	12-10	Yellow	50	Male	.250
PIC 1956-CP	12-10	Yellow	100	Male	.250
PIC 1956-BP	12-10	Yellow	6	Male	.250

Pico Nylon Insulated Single Bump Quick Connects



- Butt seamed brass
- Width: .250

Part #	Type	Gauge	Colour	Qty/Pkg
PIC 2065-16	Female	22-18	Red	100
PIC 2165-16	Female	16-14	Blue	100
PIC 2265-16	Female	12-10	Yellow	100

Pico Insulated Flared Quick Connects



- Vinyl insulated

Part #	Type	Gauge	Colour	Qty/Pkg.
PIC 1764-BP	Male	22-18	Red	3
PIC 1765-BP	Female	22-18	Red	3
PIC 1864-CP	Male	16-14	Blue	100
PIC 1864-BP	Male	16-14	Blue	3
PIC 1865-CP	Female	16-14	Blue	100
PIC 1865-BP	Female	16-14	Blue	3
PIC 1964-BP	Male	12-10	Yellow	3
PIC 1965-BP	Female	12-10	Yellow	3
PIC 1965-16	Female	12-10	Yellow	100

Pico Connector Combo Pack



- Contains 6 ea. 22-10 AWG quick connects
- Used for radios, tape decks, horns, driving lights or any non-permanent electrical hook-up

PIC 1881-BP

Pico Bullet Connectors & Receptacles



- Vinyl flared insulated

Part #	Type	Qty/Pkg.	Dia.	Wire
PIC 1758-BP	Bullet	6	.157	22-18
PIC 1858-BP	Bullet	7	.157	16-14
PIC 1858-15	Bullet	50	.157	16-14
PIC 1858-CS	Bullet	100	.157	16-14
PIC 1859-BP	Bullet	6	.180	16-14
PIC 1859-15	Bullet	50	.180	16-14
PIC 1268-BP	Receptacle	6	.157	16-14
PIC 1268-CP	Receptacle	100	.157	16-14

Pico Pin Connectors



- Vinyl flared insulated

PIC 1769-15 22-18, 50/pkg
PIC 1869-CS 16-14, 100/pkg
PIC 1969-16 12-10, 100/pkg

Pico Connector Combo Pack



- Vinyl insulated, 16-14 guage
- One snap receptacle and one bullet, Blue
- 3 complete units per package

PIC 1885-BP

Pico Closed End Connectors



- Pigtail splice connectors
- Tin plated copper with a clear nylon insulation cap
- Terminates groups of 2-4 wires

Part #	Gauge	Colour	Qty.
PIC 1166-BP	22-18	Red	9
PIC 1166-CS	22-18	Red	100
PIC 1266-BP	16-14	Blue	9
PIC 1266-15	16-14	Blue	50
PIC 1266-CS	16-14	Blue	100
PIC 1366-BP	12-10	Yellow	6
PIC 1366-36	12-10	Yellow	100
PIC 4066-PR	8	Clear	2
PIC 4066-C	8	Clear	100

Pico 4-Way Connectors



- Vinyl flared insulated connector

PIC 1721-13 22-18 gauge, 2/pkg
PIC 1821-BP 16-14 gauge, 2/pkg
PIC 1921-13 12-10 gauge, 2/pkg

Pico 3-Way Connectors



- Vinyl flared insulated

Part #	Gauge	Colour	Qty/Pkg
PIC 1720-BP	22-18	Red	2
PIC 1820-BP	16-14	Blue	2
PIC 1920-BP	12-10	Yellow	2

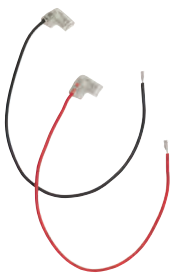
Pico Butt Connectors



- Vinyl insulated

Part #	Gauge	Colour	Qty/Pkg
PIC 1700-CS	22-18	Red	100
PIC 1700-15	22-18	Red	50
PIC 1700-BP	22-18	Red	10
PIC 1800-CP	16-14	Blue	100
PIC 1800-15	16-14	Blue	50
PIC 1800-BP	16-14	Blue	10
PIC 1900-CP	12-10	Yellow	100
PIC 1900-15	12-10	Yellow	50
PIC 1900-BP	12-10	Yellow	5
PIC 1880-BP	Contains 8 assorted butt connectors		

Sea-Dog
Right Angle Push-On Spade Connects



- Tin plated copper/injection molded nylon
- Contains one red and one black
- 12" lead with right angle
- .250" push-on connector and one .250" male spade connector.

SED 429324-1 ** 14 ga
SED 429326-1 ** 16 ga
** While Stock Lasts

Vertex
Nylon Insulated Ring Terminals



- Double crimp

Part #	Size (AWG)	Screw Size	Qty/Pkg
VER 81771	22-18	#8	100
VER 81108	22-18	#10	100
VER 81112	22-18	1/4"	100
VER 81775	16-14	#8	100
VER 81120	16-14	#10	100
VER 81128	16-14	5/16"	100
VER 81779	16-14	3/8"	100
VER 81783	12-10	#8	100
VER 81135	12-10	#10	50
VER 81136	12-10	#10	100
VER 81140	12-10	1/4"	100
VER 81144	12-10	5/16"	100
VER 81148	12-10	3/8"	100

Vertex
Nylon Flanged Spades



Part #	Size (AWG)	Screw Size	Qty/Pkg
VER 81222	22-18	#8	25
VER 81224	22-18	#8	100
VER 81226	22-18	#10	25
VER 81228	22-18	#10	100
VER 81232	16-14	#8	100
VER 81234	16-14	#10	25
VER 81236	16-14	#10	100
VER 81238	12-10	#8	25
VER 81240	12-10	#8	100
VER 81242	12-10	#10	25
VER 81244	12-10	#10	100

► *Also See* Heatshrink Connectors pg 02-100 to 104

► *Also See* Electrical Tools pg 02-107 to 111

Vertex Nylon Fully Insulated Disconnects

Part #	Size (AWG)	Type	Qty/Pkg
VER 81246	22-18	Male	25
VER 81247	22-18	Male	50
VER 81248	22-18	Male	100
VER 81250	16-14	Male	25
VER 81251	16-14	Male	50
VER 81252	16-14	Male	100
VER 81254	12-10	Male	25
VER 81255	12-10	Male	50
VER 81256	12-10	Male	100
VER 81258	22-18	Female	25
VER 81259	22-18	Female	50
VER 81260	22-18	Female	100
VER 81261	16-14	Female	4
VER 81262	16-14	Female	25
VER 81263	16-14	Female	50
VER 81264	16-14	Female	100
VER 81266	12-10	Female	25
VER 81267	12-10	Female	50
VER 81268	12-10	Female	100



Vertex Nylon Insulated Butt Splice Connectors

Part #	Gauge (AWG)	Qty/Pkg
VER 81593	22-18	7
VER 81198	22-18	25
VER 81200	22-18	100
VER 81597	16-14	7
VER 81202	16-14	25
VER 81204	16-14	100
VER 81205	12-10	5
VER 81206	12-10	25
VER 81208	12-10	100



Ancor Nylon Terminal Kit

- Nylon connector and terminal kit

Butt Connectors:
- (40) 22-18 AWG
- (75) 16-14 AWG
- (40) 12-10 AWG

Ring Terminals:
- (25) 22-18 AWG #8
- (25) 16-14 AWG #8
- (50) 16-14 AWG #10
- (25) 12-10 AWG #8
- (25) 12-10 AWG #10

Disconnects:
- (50) 16-14 AWG fully insulated female
- (30) 16-14 AWG fully insulated male
- (25) 16-14 AWG female
- (30) 16-14 AWG male

ANC 250101 440 pcs



Ancor Connector Kit



Adhesive lined heat shrink butt connectors can be used as a step-down from one gauge size to another or as a multi-wire connector for one gauge size wire. These connectors offer a sealed alternative for products such as a quick-tap or 3-way connector in areas where corrosion is a concern.
- 4:1 shrink ratio tubing to ensure a watertight seal between wires
- Flared barrel with uniform copper wall ensures an easy and proper mechanical crimp
- Crimp indicator on barrel for placement of installation tool
- Clear heat shrink tubing ensures crimp accuracy
- Coloured stripes on the barrel indicate which crimp die to use, regardless of application
- Reusable jar is clear for easy identification of the terminals and has a flip lid for ease of use

Multi-pack butt connectors contains:
- (5) 24-22/24-18 AWG
- (10) 22-18/16-14 AWG
- (10) 16-14/12-10 AWG
- (5) 12-10/8 AWG

ANC 320000

Ancor Compartment Kit Rack



- Metal rack holds 5 Ancor or similar terminal kits.
- H: 11.25" x W: 11.5" x D: 7.5"

ANC P33407

Pico Terminal Kit

Contains an assortment of Pico's most popular vinyl terminals in a large plastic case.



Butt Connectors:
- (15) 22-18 AWG
- (15) 16-14 AWG
- (10) 12-10 AWG

Ring Terminals:
- (10) 16-14 AWG #10
- (10) 16-14 AWG 1/4"

Spade Terminals:
- (10) 16-14 AWG #10

Quick Connects:
- (15) 16-14 AWG male
- (15) 16-14 AWG female

PIC 6T-E 100 pcs

Pico Weather Pack Assortment Kit

Weather Pack is an environmentally sealed connection system that will withstand exposure to extreme temperatures, moisture, harsh engine compartment fluids and chemical with unfaltering performance.



- Amp 20A
- Housing: Polyamide (nylon)
- Seal: Silicone
- Terminal: Tin plated brass

PIC 31503-91 93 pcs

Pico Terminal Kit



Contains an assortment of Pico's most popular vinyl terminals and 22-10 crimp tool (#350) in a large plastic case.

Butt Connectors:
- (14) 22-18 AWG
- (14) 16-14 AWG
- (13) 12-10 AWG

Ring Terminals:
- (14) 22-18 AWG #10
- (17) 16-14 AWG #10
- (17) 16-14 AWG #8
- (17) 16-14 AWG #6
- (13) 12-10 AWG #10
- (13) 12-10 AWG 1/4"
- (7) 12-10 AWG 3/8"

Quick Connects .250:
- (17) 16-14 AWG male
- (17) 16-14 AWG female

Tap Connector:
- (5) 18-14 AWG

Spade Terminals:
- (17) 16-14 AWG #10

PIC 31501-91 196 pcs

Pico Terminal Kit



Contains an assortment of Pico's most popular vinyl terminals in a large plastic case.

Butt Connectors:
- (20) 22-18 AWG
- (20) 16-14 AWG
- (20) 12-10 AWG

Ring Terminals:
- (20) 16-14 AWG #8
- (20) 16-14 AWG #10
- (20) 16-14 AWG 1/4"
- (20) 16-14 AWG 5/16"
- (20) 12-10 AWG #10
- (20) 12-10 AWG 1/4"
- (20) 12-10 AWG 5/16"
- (20) 12-10 AWG 3/8"

Insulated Quick Connects:
- (20) 16-14 AWG male
- (20) 16-14 AWG female

Quick Connects:
- (20) 22-18 AWG male
- (20) 16-14 AWG male
- (20) 12-10 AWG male
- (20) 22-18 AWG female
- (20) 16-14 AWG female
- (20) 12-10 AWG female

Bullets:
- (20) 16-14 AWG male
- (20) 16-14 AWG female

Tap Connector:
- (15) 18-14 AWG

PIC 31803-91 435 pcs

Pico Terminal Kit



Contains an assortment of Pico's most popular vinyl terminals in a large plastic case.

Butt Connectors:
- (5) 22-18 AWG
- (5) 16-14 AWG
- (4) 12-10 AWG

Ring Terminals:
- (5) 22-18 AWG #6
- (5) 16-14 AWG #6
- (5) 16-14 AWG #10
- (4) 12-10 AWG #10
- (4) 16-14 AWG 1/4"
- (4) 12-10 AWG 5/16"

Spade Terminals:
- (5) 22-18 AWG #10
- (5) 16-14 AWG #10

Quick Connects 250:
- (5) 22-18 AWG male
- (5) 16-14 AWG male
- (2) 12-10 AWG male
- (5) 22-18 AWG female
- (5) 16-14 AWG female
- (2) 12-10 AWG female

Bullets:
- (2) 16-14 AWG male
- (1) 12-10 AWG male
- (2) 16-14 AWG female
- (1) 12-10 AWG female

PIC 6B-E 81 pcs

► *Also See* Electrical Tools pg 02-107 to 111

Pico Wire Nuts



- Molded of pliable flame retardant thermoplastic
- Fully seated square wire spring forms its own threads to draw the connector onto wire
- Connectors tighten all the way, without ratcheting, to indicate splices are complete

Part #	Colour	Pkg/ Qty	Gauge
PIC 1602-BP	Blue	12	3 x 16 ga or 2 x 22 ga
PIC 1603-BP	Orange	10	4 x 16 ga or 1 x 20 ga
PIC 1603-15	Orange	50	4 x 16 ga or 1 x 20 ga
PIC 1604-BP	Yellow	8	1 x 10 ga or 2 x 14 ga
PIC 1604-15	Yellow	50	1 x 10 ga or 2 x 14 ga
PIC 1605-BP	Red	3	3 x 10 ga or 2 x 12 ga

Pico Dual Tap In Splice



- Makes tap in line or pigtail connections without cutting or stripping wires
- Brown
- Tap-in: AWG 18-14
- Hot-line: AWG 12-10

PIC 1561-BP 2/pkg

Pico Tap In Splice



- Makes tap in line or pigtail connections without cutting or stripping wires
- AWG 18-14
- Blue

PIC 1560-BP 5/pkg
PIC 1560-C 100/pkg

Ancor Specialty Connectors

Part #	Gauge	Qty/Pkg
Double Male-Female Adapter (.250 tab)		
ANC 230613	-	5
Multi-Stack Connector (.250 tab)		
ANC 230612	16-14	3
ANC 220612	16-14	100
Snap Plugs - Male		
ANC 230718	16-14	4
ANC 210718	16-14	25
ANC 230708	22-18	4
Snap Plugs - Female		
ANC 230719	16-14	4
ANC 210719	16-14	25
ANC 220719	16-14	100
ANC 230709	22-18	4



230613



230612



230708



230709

Pico DT Series Deutsch Connectors

- Amp: 13A
- Contact size: 16
- Gauge: 20-14 AWG
- Material: Thermoplastic & silicone seal
- Wedgelock included: Yes



2-Way

PIC 7990-11	Female, each
PIC 7990-34	Female, 10/pkg
PIC 7991-11	Male, each
PIC 7991-34	Male, 10/pkg



3-Way

PIC 7992-11	Female, each
PIC 7992-34	Female, 10/pkg
PIC 7993-11	Male, each
PIC 7993-34	Male, 10/pkg



4-Way

PIC 7994-11	Female, each
PIC 7994-34	Female, 10/pkg
PIC 7995-11	Male, each
PIC 7995-34	Male, 10/pkg



6-Way

PIC 7996-11	Female, each
PIC 7996-34	Female, 10/pkg
PIC 7997-11	Male, each
PIC 7997-34	Male, 10/pkg



8-Way

PIC 7998-11	Female, each
PIC 7998-34	Female, 10/pkg
PIC 7999-11	Male, each
PIC 7999-34	Male, 10/pkg



12-Way

PIC 8000-11	Female, each
PIC 8001-11	Male, each

Pico Solid Barrel DT Series Pin Connectors

- Contact size: 16
- Amp: 13A
- Crimp tensile strength: 25 lbs
- Material: Nickel plated - copper alloy
- Recommended crimp tool: PIC 7903


7962-14


7963-14

PIC 7962-14	20-16 Female, 10/pkg
PIC 7962-16	20-16 Female, 100/pkg
PIC 7963-14	20-16 Male, 10/pkg
PIC 7963-16	20-16 Male, 100/pkg
PIC 7964-14	16-14 Female, 10/pkg
PIC 7964-16	16-14 Female, 100/pkg
PIC 7965-14	16-14 Male, 10/pkg
PIC 7965-16	16-14 Male, 100/pkg

Pico Open Barrel DT Series Pin Connectors

- Contact size: 16
- Amp: 13A
- Crimp tensile strength: 25 lbs
- Material: Nickel plated - copper alloy


7966-14


7967-14

PIC 7966-14	18-16 Female, 10/pkg
PIC 7966-16	18-16 Female, 100/pkg
PIC 7967-14	18-16 Male, 10/pkg
PIC 7967-16	18-16 Male, 100/pkg
PIC 7968-14	16-14 Female, 10/pkg
PIC 7968-16	16-14 Female, 100/pkg
PIC 7969-14	16-14 Male, 10/pkg
PIC 7969-16	16-14 Male, 100/pkg

Pico DTP Series Deutsch Connectors

- Amp: 25A
- Contact size: 12
- Contact type: Open barrel, solid barrel
- Gauge: 14-10 AWG
- Material: Thermoplastic & silicone seal
- Wedgelock included: Yes


7980-11


7981-11


7982-11


7983-11

2-Way

PIC 7980-11	Male, each
PIC 7980-34	Male, 10/pk
PIC 7981-11	Female, each
PIC 7981-34	Female, 10/pk

4-Way

PIC 7982-11	Male, each
PIC 7983-11	Female, each

Pico DTP Series Pin Connectors

- Contact size: 12
- Amp: 25A
- Crimp tensile strength: 30 lbs
- Material: Nickel plated - copper alloy


7954-14


7955-14


7960-14

PIC 7954-14	Open barrel, 12-10 Female (10)
PIC 7954-36	Open barrel, 12-10 Female (100)
PIC 7955-14	Open barrel, 12-10 Male (10)
PIC 7955-36	Open barrel, 12-10 Male (100)
PIC 7960-14	Solid barrel, 14-12 Female (10)
PIC 7961-14	Solid barrel, 14-12 Male (10)

Pico Deutsch Contact Removal Tools


7902-11

PIC 7902-11	24-20 AWG
PIC 7905-11	18-16 AWG
PIC 7906-11	16-14 AWG

► *Also See* Deutsch Crimping Tool pg 02-110

Pico Deutsch DT Connector Kit



- Make on the spot repairs to OE harnesses
- Eliminates replacing entire wire harness

Solid Pin Connectors:
- (5) 20-16 AWG female
- (5) 16-14 AWG female
- (5) 20-16 AWG male
- (5) 16-14 AWG male

Open Pin Connectors:
- (5) 18-16 AWG female
- (5) 16-14 AWG female
- (5) 18-16 AWG male
- (5) 16-14 AWG male

2-Way Deutsch Connectors:
- (2) Female
- (2) Male

3-Way Deutsch Connectors:
- (2) Female
- (2) Male

4-Way Deutsch Connectors:
- (2) Female
- (2) Male

6-Way Deutsch Connectors:
- (2) Female
- (2) Male

8-Way Deutsch Connectors:
- (1) Female
- (1) Male

PIC 31807-91 58 pcs

Accessories:

PIC 7903-11 Deutsch crimp tool

Pico Deutsch DT Connector Kit

Deutsch DT series connector assortment kit includes:
- 1 x #7903 Deutsch crimp tool

Solid Pin Connectors:
- (5) 16-20 AWG female
- (5) 16-14 AWG female
- (5) 16-20 AWG male
- (5) 16-14 AWG male



2-Way Deutsch Connectors:
- (2) Female
- (2) Male

3-Way Deutsch Connectors:
- (2) Female
- (2) Male

4-Way Deutsch Connectors:
- (2) Female
- (2) Male

6-Way Deutsch Connectors:
- (2) Female
- (2) Male

8-Way Deutsch Connectors:
- (1) Female
- (1) Male

PIC 31505-91 39 pcs

FTZ Clear Seal Butt Connectors



- Clear Seal proprietary tubing

FTZ 37130-P50 22-18g, 50/pkg
FTZ 37330-P50 16-14g, 50/pkg
FTZ 37430-P25 12-10g, 25/pkg
FTZ 37530-P25 8g, 25/pkg

FTZ Clear Seal Locking Forks



- Clear Seal proprietary tubing

FTZ 37344-P50 16-14g, 50/pkg
FTZ 37444-P25 12-10g, 25/pkg

FTZ Clear Seal Ring Terminals

The Clear Seal proprietary tubing features increased clarity, better abrasion resistance, greater tensile strength, 50% more dielectric strength and improved shrink times compared to competing nylon or polyolefin terminals.
- Seals out moisture causing corrosion
- 30% faster shrink times & 33% more tensile strength
- 99.9% ETP copper terminal
- 600 volts, 90°C



Part #	Gauge	Screw	Qty/Pkg
FTZ 37112-P50	22-18	6	50
FTZ 37113-P50	22-18	8	50
FTZ 37114-P50	22-18	10	50
FTZ 37115-P50	22-18	1/4"	50
FTZ 37116-P50	22-18	5/16"	50
FTZ 37117-P50	22-18	3/8"	50
FTZ 37312-P50	16-14	6	50
FTZ 37313-P50	16-14	8	50
FTZ 37314-P50	16-14	10	50
FTZ 37315-P50	16-14	1/4"	50
FTZ 37316-P50	16-14	5/16"	50
FTZ 37317-P50	16-14	3/8"	50
FTZ 37413-P25	12-10	8	25
FTZ 37414-P25	12-10	10	25
FTZ 37415-P25	12-10	1/4"	25
FTZ 37416-P25	12-10	5/16"	25
FTZ 37417-P25	12-10	3/8"	25
FTZ 37419-P25	12-10	1/2"	25
FTZ 37514-P25	8	10	25
FTZ 37515-P25	8	1/4"	25
FTZ 37516-P25	8	5/16"	25
FTZ 37517-P25	8	3/8"	25
FTZ 37519-P25	8	1/2"	25

FTZ Cool Seal Butt Connectors

A heat-less, solderless terminal, utilizing an anaerobic sealant technology that installs in a fraction of the time of comparable heat seal connectors. Simply strip the wire and crimp, activating the sealant. The sealant prevents the ingress of moisture and air, the nylon insulation provides maximum abrasion and puncture resistance.
- Seals out moisture causing corrosion
- Improved productivity
- No heat tools required
- Nylon insulation
- 99.9% Etp copper terminal



FTZ 33130-P100 22-18, 100/pkg
FTZ 33130-P25 22-18, 25/pkg
FTZ 33330-P100 16-14, 100/pkg
FTZ 33430-P100 12-10, 100/pkg

► *Also See* Heat Guns & Electrical Tools pg 02-107 to 111

FTZ Heat Shrink Step-Down Butt Connectors



- Seamless tubular splices
- Brazed seam terminals
- Polyolefin heat shrink tubing

FTZ 37333-P50	22-18 & 16-14, 50/pkg
FTZ 37433-P25	16-14 & 12-10, 25/pkg

FTZ Heat Shrink Butt Connectors



- Seamless tubular splices
- Brazed seam terminals
- Polyolefin heat shrink tubing

FTZ 31330-P25	16-14, 25/pkg
FTZ 31330-P50	16-14, 50/pkg
FTZ 31330-P500	16-14, 500/pkg

FTZ Heat Shrink Quick Disconnects



- Fully insulated single hump
- Brazed seam terminals
- Polyolefin heat shrink tubing
- -P50 = 50/pkg, -P25 = 25/pkg

FTZ 30186-P50	22-18g - .187", Male
FTZ 30188-P25	22-18g - .250", Male
FTZ 30196-P50	22-18g - .187", Female
FTZ 30198-P50	22-18g - .250", Female
FTZ 30386-P50	16-14g - .187", Male
FTZ 30388-P50	16-14g - .250", Male
FTZ 30396-P50	16-14g - .187", Female
FTZ 30398-P50	16-14g - .250", Female
FTZ 30488-P25	12-10g - .250", Male
FTZ 30498-P25	12-10g - .250", Female

FTZ Heat Shrink Bullets/Receptacles



- Polyolefin heat shrink tubing
- 50/pkg

FTZ 30178-P50	22-18g - .180", Female
FTZ 30179-P50	22-18g - .156", Female
FTZ 30378-P50	16-14g - .180", Female
FTZ 30379-P50	16-14g - .156", Female
FTZ 31168-P50	22-18g - .180", Male
FTZ 31169-P50	22-18g - .156", Male
FTZ 31369-P50	16-14g - .156", Male
FTZ 37368-P50	16-14g - .180", Male, Clear Seal tubing

► *Also See* Heat Guns & Electrical Tools pg 02-107 to 111

Ancor Heat Shrink Ring Terminals

- Heat activated adhesive lining that provides an impervious seal to salt water, oil, acids, and UV
- Tinned for corrosion resistance
- Pure copper & brazed seams



Part #	Gauge	Screw	Qty/Pkg
ANC 310203	22-18	8	3
ANC 310225	22-18	8	25
ANC 310299	22-18	8	100
ANC 310303	22-18	10	3
ANC 310325	22-18	10	25
ANC 310399	22-18	10	100
ANC 310403	22-18	1/4"	3
ANC 310499	22-18	1/4"	100
ANC 310503	22-18	5/16"	3
ANC 310603	22-18	3/8"	3
ANC 311203	16-14	8	3
ANC 311225	16-14	8	25
ANC 311299	16-14	8	100
ANC 311303	16-14	10	3
ANC 311325	16-14	10	25
ANC 311399	16-14	10	100
ANC 311403	16-14	1/4"	3
ANC 311425	16-14	1/4"	25
ANC 311503	16-14	5/16"	3
ANC 311525	16-14	5/16"	25
ANC 311599	16-14	5/16"	100
ANC 311603	16-14	3/8"	3
ANC 311625	16-14	3/8"	25
ANC 311699	16-14	3/8"	100
ANC 312203	12-10	8	3
ANC 312225	12-10	8	25
ANC 312299	12-10	8	100
ANC 312303	12-10	10	3
ANC 312325	12-10	10	25
ANC 312399	12-10	10	100
ANC 312403	12-10	1/4"	3
ANC 312425	12-10	1/4"	25
ANC 312499	12-10	1/4"	100
ANC 312503	12-10	5/16"	3
ANC 312525	12-10	5/16"	25
ANC 312599	12-10	5/16"	100
ANC 312603	12-10	3/8"	3
ANC 312625	12-10	3/8"	25
ANC 312699	12-10	3/8"	100
ANC 321303	8	#10	3
ANC 321325	8	#10	25
ANC 321403	8	1/4"	3
ANC 321425	8	1/4"	25
ANC 321503	8	5/16"	3
ANC 321525	8	5/16"	25
ANC 321603	8	3/8"	3
ANC 321625	8	3/8"	25
ANC 321703	8	1/2"	3
ANC 321725	8	1/2"	25

Ancor
Adhesive Lined Heat Shrink Disconnects

Part #	Gauge	Type	Qty/Pkg
ANC 316803	22-18	Female	3
ANC 316825	22-18	Female	25
ANC 316899	22-18	Female	100
ANC 317803	16-14	Female	3
ANC 317825	16-14	Female	25
ANC 317899	16-14	Female	100
ANC 320803	12-10	Female	3
ANC 320825	12-10	Female	25
ANC 320899	12-10	Female	100
ANC 316903	22-18	Male	3
ANC 316925	22-18	Male	25
ANC 317903	16-14	Male	3
ANC 317925	16-14	Male	25
ANC 317999	16-14	Male	100
ANC 320903	12-10	Male	3
ANC 320925	12-10	Male	25
ANC 320999	12-10	Male	100



Ancor Adhesive Lined Heat Shrink Snap Plugs

- For extra protection against moisture or salt

Part #	Gauge	Type	Qty/Pkg
ANC 318803	22-18	Female	3
ANC 318903	22-18	Male	3
ANC 319803	16-14	Female	3
ANC 319825	16-14	Female	25
ANC 319903	16-14	Male	3
ANC 319925	16-14	Male	25



Ancor Heat Shrink Flanged Spade Terminals

- Heat activated adhesive lining that provides an impervious seal to salt water, oil, acids, and UV
- Operating temperature -40° C to 110° C
- Tinned for corrosion resistance
- Pure copper & brazed seams



Part #	Gauge	Screw	Qty/Pkg
ANC 314225	16-14	8	25
ANC 314399	16-14	10	100
ANC 315203	12-10	8	3
ANC 315399	12-10	10	100

Ancor Heat Shrink Step-Down Butt Connectors

- 4:1 shrink ratio
- Flared barrel with uniform copper wall
- Clear heat shrink tubing with crimp indicator and coloured stripes on barrel



ANC 320203 16-14 & 12-10, 3/pkg
ANC 320303 12-10 & 8, 3/pkg

► *Also See* Heat Guns & Electrical Tools pg 02-107 to 111

Ancor Heat Shrink Butt Connectors

Part #	Gauge	Qty/Pkg
ANC 309003	22-18	3
ANC 309025	22-18	25
ANC 309099	22-18	100
ANC 309002	22-18	500
ANC 309103	16-14	3
ANC 309125	16-14	25
ANC 309199	16-14	100
ANC 309101	16-14	250
ANC 309102	16-14	500
ANC 309203	12-10	3
ANC 309225	12-10	25
ANC 309299	12-10	100
ANC 309202	12-10	500
ANC 309303	8	3
ANC 309325	8	25



Ancor Adhesive Lined Heat Shrink Butt Connector Packs

- Heat activated adhesive built into the sleeve of the heat shrink tubing
- Shrinks to form a water tight seal and ultimate vibration and strain relief
- Tinned for corrosion resistance
- Pure copper for maximum current flow
- Brazed seam for maximum strength
- UL listed and CSA recognized



309000

ANC 309000 250 pcs

- Reusable jar is clear for easy identification of the terminals and has a flip lid for ease of use
- (50) 22-18, (150) 16-14, (50) 12-10 AWG

ANC 220011 75 pcs

- Reusable case contains six compartments for storage of terminals, fasteners or any other small item
- Compact size (6.625L" x 3.125"W x 1.375"D) fits easily in most storage areas



220011

Ancor Heat Shrink Terminal Kit

- Heat shrink terminal & connector kit

Butt Connectors:
- (10) 22-18 AWG
- (20) 16-14 AWG
- (10) 12-10 AWG

Ring Terminals:
- (15) 22-18 AWG #10
- (15) 16-14 AWG #8
- (15) 16-14 AWG #10
- (15) 16-14 AWG 1/4"
- (10) 12-10 AWG #10
- (10) 12-10 AWG 1/4"
- (10) 12-10 AWG 3/8"

Disconnects:
- (20) 16-14 AWG female
- (10) 16-14 AWG male



ANC 320101 160 pcs

Vertex Heat Shrink Ring Terminals



Part #	Size (AWG)	Screw Size	Qty/Pkg
VER 81149	22-18	#8	3
VER 81150	22-18	#8	25
VER 81152	22-18	#8	100
VER 81153	22-18	#10	3
VER 81154	22-18	#10	25
VER 81156	22-18	#10	100
VER 81157	22-18	1/4"	3
VER 81161	16-14	#8	3
VER 81162	16-14	#8	25
VER 81164	16-14	#8	100
VER 81165	16-14	#10	3
VER 81166	16-14	#10	25
VER 81168	16-14	#10	100
VER 81169	16-14	1/4"	3
VER 81170	16-14	1/4"	25
VER 81172	16-14	1/4"	100
VER 81174	16-14	5/16"	25
VER 81176	16-14	5/16"	100
VER 81733	16-14	3/8"	25
VER 81735	16-14	3/8"	100
VER 81178	12-10	#8	25
VER 81180	12-10	#8	100
VER 81181	12-10	#10	3
VER 81182	12-10	#10	25
VER 81184	12-10	#10	100
VER 81185	12-10	1/4"	3
VER 81186	12-10	1/4"	25
VER 81188	12-10	1/4"	100
VER 81189	12-10	5/16"	3
VER 81190	12-10	5/16"	25
VER 81192	12-10	5/16"	100
VER 81193	12-10	3/8"	3
VER 81194	12-10	3/8"	25
VER 81196	12-10	3/8"	100

Vertex Heat Shrink Step Down Butt Splice Connectors



Part #	Size (AWG)	Qty
VER 81477	16-14 to 22-18	3
VER 81478	16-14 to 22-18	25
VER 81479	16-14 to 22-18	50
VER 81480	16-14 to 22-18	100
VER 81481	12-10 to 16-14	3
VER 81483	12-10 to 16-14	50
VER 81484	12-10 to 16-14	100
VER 81485	8 to 12-10	3
VER 81486	8 to 12-10	25
VER 81487	8 to 12-10	50
VER 81488	8 to 12-10	100

Vertex Heat Shrink Fully Insulated Disconnects



Part #	Size (AWG)	Type	Qty
VER 81489	22-18	Male	3
VER 81490	22-18	Male	25
VER 81491	22-18	Male	50
VER 81492	22-18	Male	100
VER 81493	16-14	Male	3
VER 81494	16-14	Male	25
VER 81495	16-14	Male	50
VER 81496	16-14	Male	100
VER 81497	12-10	Male	2
VER 81498	12-10	Male	25
VER 81499	12-10	Male	50
VER 81500	12-10	Male	100
VER 81501	22-18	Female	3
VER 81502	22-18	Female	25
VER 81503	22-18	Female	50
VER 81504	22-18	Female	100
VER 81505	16-14	Female	3
VER 81506	16-14	Female	25
VER 81507	16-14	Female	50
VER 81508	16-14	Female	100
VER 81509	12-10	Female	2
VER 81510	12-10	Female	25
VER 81511	12-10	Female	50
VER 81512	12-10	Female	100

Vertex Heat Shrink Butt Splice Connectors



Part #	Size (AWG)	Qty/Pkg
VER 81209	22-18	3
VER 81210	22-18	25
VER 81211	22-18	50
VER 81212	22-18	100
VER 81213	16-14	3
VER 81214	16-14	25
VER 81215	16-14	50
VER 81216	16-14	100
VER 81217	12-10	3
VER 81218	12-10	25
VER 81219	12-10	50
VER 81220	12-10	100
VER 81916	8	3
VER 81917	8	25
VER 81918	8	50
VER 81919	8	100

Ancor Heat Shrink Flag Disconnects



- 90° angle simplifies wire routing and connections
- .250 tab size

Part #	Gauge	Type	Qty/Pkg
ANC 356825	22-18	Female	25
ANC 357825	16-14	Female	25

Pico Heat Shrink Heatless Solderless Sealed Butt Connectors



Utilizes revolutionary anaerobic sealant technology that installs in a fraction of the time of comparable heat seal connectors. Simply strip the wire and crimp, activating the sealant to create an environmentally sealed connection. The innovative new sealant prevents the ingress of moisture & air.

PIC 1120-14 22-18, 5/pkg
PIC 1220-14 16-14, 5/pkg
PIC 1320-14 12-10, 5/pkg

Pico Heat Shrink Crimp Solder Seal Butt Connectors



Crimped for mechanical reliability. Soldered for superior strength and conductivity. Sealed for maximum durability. Meets or exceeds the most stringent OEM standards

PIC 3500-CS 18-20, 25/pkg
PIC 3600-CS 16-14, 25/pkg
PIC 3700-CS 12-10, 25/pkg

Pico Heat Shrink Ring Connector



- Heat shrink tubing for a weatherproof seal
- Clear tubing allows visual inspection

Part #	Gauge	Stud	Package
PIC 6009-BP	12-10	3/8	5

Pico Solder-Shrink Ring Connectors



- Translucent, adhesive lined polyolefin tubing allows visual inspection, prevents wire corrosion and provides a waterproof seal
- Easy installation with pre-measured solder
- A soldered electrical connection provides superior current flow and tensile strength

PIC 6804-15 16-14 #8, 25/pkg
PIC 6805-15 16-14 #10, 25/pkg
PIC 6809-15 16-14 3/8", 25/pkg
PIC 6905-15 12-10 #10, 25/pkg
PIC 6909-15 12-10 3/8", 25/pkg

Pico Heat Shrink Connectors

- Butt connectors with heat shrink tubing on each end for a weatherproof seal
- Long copper barrel ensures good electrical contact
- Clear tubing allows visual inspection

Part #	Gauge	Colour	Qty/Pkg
PIC 1000-15	24-22	Clear	25
PIC 1000-16	24-22	Clear	100
PIC 5800-BP	22-18	Red	5
PIC 5800-C	22-18	Red	100
PIC 5900-BP	16-14	Blue	5
PIC 6000-BP	12-10	Yellow	5
PIC 6000-C	12-10	Yellow	100



Ancor Heat Shrink Tubing Kits



- Assorted size packs
- Dia: 3/16" - 1/2"
- 8/pkg

ANC 301503 3"
ANC 301506 6"

Ancor Heavy Wall Heat Shrink Tubing



- For 8-2/0 wire
- Shrinks to 1/4" (3:1 ratio)
- Adhesive lined
- Battery cable tubing

Part #	Dia.	Length	Colour	Qty/Pkg
ANC 326202	3/4"	3"	Black/Red	1/1
ANC 326103	3/4"	3"	Black	1
ANC 326148	3/4"	48"	Black	1
ANC 326603	3/4"	3"	Red	3
ANC 326648	3/4"	48"	Red	1

FTZ Dual Wall Heat Shrink Tubing



- Yellow, green, or clear polyolefin
- Shrink ratio: 3:1

FTZ 29006Y-48 1/4" x 4'. yellow
FTZ 29008Y-48 3/8" x 4', yellow
FTZ 29008G-48 3/8" x 4', green
FTZ 29009Y-48 1/2" x 4', yellow
FTZ 29009G-48 1/2" x 4', green
FTZ 29009R-48 1/2" x 4', red
FTZ 29010Y-48 3/4" x 4', yellow
FTZ 29011Y-48 1" x 4', yellow
FTZ 29011R-48 1" x 4', red

Adhesive Lined Tubing Specifications (3:1 ratio)		
Size	Shrinks to	Wire Range (AWG)
1/8" (3.2mm)	1/32" (0.8 mm)	<18 (< 0.8 mm2)
3/16" (4.8mm)	1/16" (1.6 mm)	20 - 12 (0.5-3 mm2)
1/4" (6.4mm)	5/64" (2 mm)	16 - 10 (1-5 mm2)
3/8" (9.5mm)	1/8" (3.2 mm)	12 - 8 (3-8 mm2)
1/2" (12.7mm)	5/32" (4 mm)	8 - 4 (8-19 mm2)
3/4" (19mm)	1/4" (6.4 mm)	8 - 2/0 (13-62 mm2)
1" (25.4mm)	5/16" (7.9 mm)	2 - 4/0 (32-103 mm2)

Ancor Heat Shrink



- Cross linked polyolefin tubing with a heat activated adhesive linking (ALT)
- Impervious seal to salt water, oil, acids, and sunlight as well as providing strain relief
- Shrink Ratio: 3:1

Part #	Dia.	Length	Colour	Qty/Pkg
ANC 301103	1/8	3"	Black	3
ANC 301106	1/8	6"	Black	10
ANC 301148	1/8	48"	Black	1
ANC 302103	3/16	3"	Black	3
ANC 302106	3/16	6"	Black	10
ANC 302148	3/16	48"	Black	1
ANC 303103	1/4	3"	Black	3
ANC 303106	1/4	6"	Black	10
ANC 303124	1/4	12"	Black	10
ANC 303148	1/4	48"	Black	1
ANC 303648	1/4	48"	Red	1
ANC 304103	3/8	3"	Black	3
ANC 304148	3/8	48"	Black	1
ANC 304603	3/8	3"	Red	3
ANC 304648	3/8	48"	Red	1
ANC 304503	3/8	3"	Blue/G/R/W/Y	5
ANC 305103	1/2	3"	Black	3
ANC 305106	1/2	6"	Black	5
ANC 305148	1/2	48"	Black	1
ANC 305648	1/2	48"	Red	1
ANC 306103	3/4	3"	Black	3
ANC 306603	3/4	3"	Red	3
ANC 306148	3/4	48"	Black	1
ANC 306602	3/4	3"	Red/Black	1/1
ANC 306648	3/4	48"	Red	1
ANC 307148	1	48"	Black	1
ANC 307648	1	48"	Red	1

Vertex
Semi-Rigid Adhesive Lined Heat Shrink



- Red
- Length: 6"
- 6 per package

VER 82312	20-18
VER 82313	16-14
VER 82314	12-10

Vertex
Dual Wall Adhesive Lined Heat Shrink



- Co-extrusion of polyolefin and hot-melt adhesive
- Operating Temp: -45°C ~125°C
- Shrink Ratio: 3:1

Part #	Size	Colour	Qty
VER 81449	1/8" x 6"	Black	6
VER 81450	1/8" x 6"	Red	6
VER 81451	1/8" x 48"	Black	1
VER 81452	1/8" x 48"	Red	1
VER 81453	3/16" x 6"	Black	6
VER 81454	3/16" x 6"	Red	6
VER 81455	3/16" x 48"	Black	1
VER 81456	3/16" x 48"	Red	1
VER 81457	1/4" x 6"	Black	6
VER 81458	1/4" x 6"	Red	6
VER 81951	1/4" x 6"	Yellow	6
VER 81459	1/4" x 48"	Black	1
VER 81460	1/4" x 48"	Red	1
VER 81952	1/4" x 48"	Yellow	1
VER 81461	3/8" x 6"	Black	6
VER 81462	3/8" x 6"	Red	6
VER 81953	3/8" x 6"	Yellow	6
VER 81463	3/8" x 48"	Black	1
VER 81954	3/8" x 48"	Yellow	1
VER 81464	3/8" x 48"	Red	1
VER 81465	1/2" x 6"	Black	6
VER 81466	1/2" x 6"	Red	6
VER 81955	1/2" x 6"	Yellow	6
VER 81467	1/2" x 48"	Black	1
VER 81956	1/2" x 48"	Yellow	1
VER 81468	1/2" x 48"	Red	1
VER 81469	3/4" x 6"	Black	6
VER 81470	3/4" x 6"	Red	6
VER 81957	3/4" x 6"	Yellow	6
VER 81471	3/4" x 48"	Black	1
VER 81472	3/4" x 48"	Red	1
VER 81958	3/4" x 48"	Yellow	1
VER 81473	1" x 6"	Black	6
VER 81474	1" x 6"	Red	6
VER 81959	1" x 6"	Yellow	6
VER 81475	1" x 48"	Black	1
VER 81476	1" x 48"	Red	1
VER 81960	1" x 48"	Yellow	1
VER 82076	1-1/4" x 6"	Black	6
VER 82077	1-1/4" x 48"	Black	1
VER 82078	1-1/2" x 6"	Black	6
VER 82079	1-1/2" x 48"	Black	1

Pico Heat Shrink Tubing

- Flexible, flame retardant, general purpose, polyolefin
- Outer wall shrinks while inner wall melts into voids
- Moisture proof upon cooling
- Heat required is 90°C (194°F)
- Tubing is measured by its inside diameter before shrinking
- 2 to 1 shrink ratio



Part #	Size	Packs
Black		
PIC 8330-15	3/16" x 2"	25
PIC 8331-13	1/4" x 2"	6
PIC 8331-15	1/4" x 2"	25
PIC 8332-15	3/8" x 2"	25
PIC 8333-15	1/2" x 2"	25
PIC 8334-15	3/4" x 2"	25
PIC 8336-41	1-1/4" x 4'	1
Red		
PIC 8320-5-15	3/16" x 2"	25
PIC 8321-5-15	1/4" x 2"	25
PIC 8322-5-15	3/8" x 2"	25
PIC 8333-5-15	1/2" x 2"	25
PIC 8334-5-15	3/4" x 2"	25
Clear		
PIC 8323C-E	1/2" x 4'	1

Assortment Packs	
PIC 8250-K	1 Red & 1 Black for 3/8", 1/4", and 3/16"
PIC 8251-K	1 Red & 1 Black for 1", 3/4", and 1/2"

Shrinktek Dual Wall Heat Shrink Tubing

- Dual wall adhesive, rigid polyolefin shrink tubing
- Outer wall shrinks while inner wall melts into voids
- Moisture proof upon cooling
- Shrink temperature is 100°C
- Tubing is measured by its inside diameter before shrinking
- Sold in 4' lengths
- Shrink Ratio: 3:1



SHR SPDW-1/8R	Red	1/8" x 4'
SHR SPDW-3/16R	Red	3/16" x 4'
SHR SPDW-1/4R	Red	1/4" x 4'
SHR SPDW-3/8R	Red	3/8" x 4'
SHR SPDW-1/2R	Red	1/2" x 4'
SHR SPDW-3/4R	Red	3/4" x 4'
SHR SPDW-1R	Red	1" x 4'
SHR SPDW-1/8B	Black	1/8" x 4'
SHR SPDW-3/16B	Black	3/16" x 4'
SHR SPDW-1/4B	Black	1/4" x 4'
SHR SPDW-3/8B	Black	3/8" x 4'
SHR SPDW-1/2B	Black	1/2" x 4'
SHR SPDW-3/4B	Black	3/4" x 4'
SHR SPDW-1B	Black	1" x 4'

Ancor Heat Shrink Kit

- 47 pieces of adhesive lined heat shrink tubing

Black
- (10) 3/16" x 6"
- (10) 1/4" x 6"
- (10) 3/8" x 6"
- (5) 1/2" x 6"
- (3) 3/4" x 3"
- (3) 1" x 3"

Red
- (3) 3/4" x 3"
- (3) 1" x 3"



ANC 330101

Pico Shrink Tube Assortment Kit

- Adhesive lined polyolefin, heat shrinkable tubing

Black & Red (each)
- (5) 3/16" x 6"
- (4) 1/4" x 6"
- (2) 3/8" x 6"
- (2) 1/2" x 6"
- (1) 3/4" x 6"
- (1) 1" x 6"



PIC 30603-91 30 pcs

Ancor Write-On Heat Shrink I.D. Tubing



- White in colour
- Permanent Identification sleeves
- Can be fed through most printers
- Once activated by heat the markings, typed or ball-point, become permanent

Please note, this product does not have Ancor's adhesive lining.
- 10/pkg

ANC 300145 1/4" dia. x 3"

Pico Wire Marker Tape



- Aggressive adhesive
- Flexible polyester film backing
- .215" x 11'

PIC 7087-0-11	#0
PIC 7087-1-11	#1
PIC 7087-2-11	#2
PIC 7087-3-11	#3
PIC 7087-4-11	#4
PIC 7087-5-11	#5
PIC 7087-6-11	#6
PIC 7087-7-11	#7
PIC 7087-8-11	#8
PIC 7087-9-11	#9

Ancor Heat Gun



- Two settings-Low: 572°F, 10 CFM & High: 1,000°F, 17 CFM
- 6.5' cord,
- 120 VAC
- Great for heat shrink tubing and connectors, stripping paint and more
- Lightweight, under two pounds
- Stands on end for hands free operation
- Includes three nozzles and carrying case

ANC 703023

FTZ Heat Gun



- 120V-60Hz
- 1500W
- Settings: 1: 650°F, 2: 900°F
- Air flow: 1: 250 lpm, 2: 550 lpm
- Includes a reflector cone, cone nozzle, fishtale nozzle, and glass protector nozzle

FTZ 94510

Pico Heat Gun



- Temperature (High): 1100°F (590°C)
- Temperature (Low): 250°F (120°C)
- Double insulated to minimize electrical risk
- High impact corrosion and heat resistant polymers housing
- Amp: 10A
- Length: 6 ft. Cord (1.8 m)
- 120 VAC
- Wattage: 1200W

PIC 8245-E

Ancor Butane Micro Therm Heat Gun



- Flame temp. up to 650°C (1300°F)
- Features Piezo electronic ignition system
- Provides flame less heat and powered by a refillable butane cell
- Wind resistant flame & waterproof ignition
- Overall height: 4-1/2"

ANC 702027

Ancor Butane Torch



- 1300° C fine concentrated flame
- Refillable butane cartridge
- Wind resistant burner and waterproof electronic ignition
- Overall height: 4-1/2"

ANC 703024

Ancor Butane Torch

NEW



- 1300°C pin point blue flame
- Automatic ignition system
- Multi-functional use

ANC 704060

FTZ Butane Torch



- 2400°F pinpoint blue flame
- Piezo waterproof /windproof ignition
- Convenient twist flame adjustment
- Refillable translucent fuel tank
- L: 1.4" x W: 0.8"x H: 2.8"
- Weight (with fuel) 1.62 oz
- Up to 25 minutes of run time on each filling

FTZ 94900

Pico Butane Pro Torch

Use as a torch, soldering iron, hot air blower or shrink tube tool.
Includes:



- Base stand
- Soldering tip
- Torch sleeve
- Hot air blower sleeve
- Shrink tube deflector

PIC 8257-31

Ancor Mini Fish Tape



- 15 ft. low-memory tape
- Ideal for non-conduit situations

ANC 703112

Ancor 7 Pc Insulated Screwdriver Set

Set includes convenient storage/carrying case and:



- (1) 1/8" x 3" Slotted
- (1) 7/32" x 5" Slotted
- (1) 1/4" x 6" Slotted
- (1) #0 x 3" Phillips
- (1) #1 x 3" Phillips
- (1) #2 x 4" Phillips
- (1) Test Probe
- Insulated to 1000V

ANC 711000

Megapro Insulated Driver Kit

NEW

- Driver is VDE certified for safe usage up to 1000V
- Slim bits for access to recessed screws
- Locking collar secures bits in shaft
- Maximum torque rating of 6.5 NM
- Voltage tester rated for CAT III at 1000V, and adjustable sensitivity detects as low as 12V

Includes:



- (1) 3" single-ended Phillips 1
- (1) 3" single-ended Phillips 2
- (1) 3" single-ended square 2
- (1) 3" single-ended flat 2.5
- (1) 3" single-ended flat 4
- (1) 3" single-ended flat 5.5

MTP 6KIT-VDE

► *Also See* Tools pg 18-018 to 019

Ancor Battery/Test Clips



- Fully insulated 10A
- Set of two
- 3.251" overall length

ANC 260505 Red/Black

Pico Battery/Test Clips



- Fully insulated 50A. copper plated
- 3" overall length
- Sold by each

PIC 840-11 Red
PIC 841-11 Black

Pico Test Clips



- Cadmium plated steel
- Interlocking jaws

Part #	Amp. Cap	Length	Jaw Opening
PIC 836-BP	25	2-7/8"	3/4"
PIC 837-E	50	4"	1-1/16"

Pico Insulated Alligator Clips



- Takes up to a 10 gauge wire
- Cadmium plated steel
- Insulated 3/8" jaw with meshing teeth
- Wire mounting screw

PIC 1573-PK 25/pkg

Pico Alligator Clips



- Takes up to a 10 gauge wire
- Cadmium plated steel
- 3/8" jaw with meshing teeth
- Wire mounting screw

PIC 1588-BP 2/pkg
PIC 1588-PK 25/pkg

Sea-Dog Alligator Clips



- Chrome plated steel
- Includes one positive and one negative
- 10A max

SED 426470-1

Sea-Dog Battery/Test Clips



- Stamped copper plated steel
- Fully insulated 10A
- 3" overall length

SED 426460-1 Red/Black

Sierra Fuse Test Kit



- Maximum conductivity and durability
- Molded for easy Insertion and removal
- Easy access Connector Tabs fit: 1/4 inch quick connects, alligator clips, Jumper leads, multimeter test leads

SIE 18-9907



Sierra Fault Finder Kit

A specially designed tool for tracking and tracing short and open circuits, broken wires and current leaks on any electrical circuit with voltages from 6 to 42 volt DC. The automatic open/short detection, adjustable sensitivity and flexible antenna probe enables the technician to troubleshoot a complete array of common electrical problems without having to untie wire harnesses or remove panels.

- 8" flexible probe reaches in congested places
- Adjustable sensitivity
- Transmitter and receiver LEDs signal open or short circuit conditions
- Auto polarity transmitter that leads with 5A alligator clips
- Includes cordless circuit tester, fuse socket test connectors and a hard shell carrying case

SIE 18-9904

Ancor True RMS 12 Function Digital Meter



- Auto ranging capability allows meter to automatically determine the resolution based on the application
- Easy to read backlit OLED screen
- Accurate readings for both pure and modified sine wave electical circuits
- Zeroing function
- Continuity, diode test, and non-contact voltage testing capabilities
- Includes carry case
- Uses 3x AAA batteries (not included)

ANC 703079 *
* Special Order

Blue Sea Systems Mini Clamp Multimeter



- Clamp allows measurement of AC and DC current in wires without disturbing the circuits or contacting live terminals
- Auto range simplifies operation: 0.01-400A, 0.001-600 Volts
- Auto power-off selection - power turns off automatically after 10 minutes of non-use
- True RMS - required for accurate measurement of inverter output
- Large digital display makes reading measurements easy
- Data hold - press "HOLD" button during measurement to lock reading value
- Test leads included with meter
- Includes 2x AAA batteries

BSS 8110

Ancor Multi Purpose Crimp Tool



- Precision ground cutter and stripping stations
- Strips wire from 24 AWG to 10 AWG (0.5 to 2.6mm)
- Length: 6.6"

ANC 702008

Ancor Multi Purpose Crimp Tool



- Precision ground cutters and stripping station
- Capacity: Crimps 22 AWG to 10 AWG/0.3 to 5mm solid and stranded wires
- Cuts (4) 40/2mm, (6) 32/4mm, (8) 32/4.8mm, (10) 32/6.4mm and 10-24/6.4mm bolts
- Length: 8.6"

ANC 702007

Ancor Multi Purpose Crimp Tool



- Crimps, strips, and cuts
- Rugged steel stripping jaws adjust automatically for wire from AWG 26-10
- Snap-Action stripping engineered for continuous use by the professional electrician

ANC 702033

Ancor Ratcheting Crimp Tool



- 22-10 AWG nylon insulated terminals
- Compound action for operator ease
- Adjustment mechanism allows for wear
- Will not release until proper crimp is made
- Crimps insulated double crimp terminals
- Removable dies for different applications

ANC 703030

Ancor Ratcheting Crimp Tool

- Single crimp ratchet tool crimps 22-8 AWG heat shrink, vinyl and nylon insulated terminals and connectors
- Must be fully closed before tool allows itself to open ensuring a proper crimp
- Includes lever to release jaws mid-cycle in the event of an incorrectly placed terminal
- Ratcheting operation with ergonomic handle to prevent hand fatigue
- 4 colour-coded cavities for different wire sizes
- Length: 10.25" (260mm)
- Weight: 1.3 lb. (0.6kg)



ANC 703010

Accessories:

ANC 703041	Flag terminal die set, 22-18 & 16-14 AWG
ANC 703042	Flag terminal die set, 12-10 AWG



Ancor Lug Crimper

- Crimps 6 - 1/0 AWG lugs and terminals
- Uses revolving dies to create a hex style crimp for proper installation per ABYC
- Length: 15.4"

ANC 703050

FTZ Multi-Purpose Crimp Tool



- 26-10 AWG insulated terminals
- 22-10 AWG non-insulated terminals
- 7-8mm ignition terminals
- 'F' type auto terminals
- Scissor type, up front anvil type wire cutters
- 26-10 AWG stranded wire and 18-8 AWG solid wire stripper
- Bolt cutter fort five common sizes 4-40, 6-32, 8-32, 10-24, 10-32
- Dual wire looping slots
- Made of heat treated steel with cushion grip handles
- Weight: 7 oz

FTZ 94145

FTZ Controlled Cycle Crimp Tool



A controlled cycle ratchet crimp tool is specifically designed and manufactured for Crimp 'N Seal heat shrink terminals and splices.

- Heat shrink terminals 22-10 AWG
- Precision dies colour-coded to industry standards
- UL listed and CSA Certified with CNS terminals and splices
- Ratchet mechanism ensures a proper crimp each time by not releasing until cycle is complete
- Compound action delivers maximum crimp force
- Cushion grip handles

FTZ 94130

FTZ Crimp Heavy Duty Crimp Tool



- 6 Ga – 250 MCM (4/0 AWG) range
- Diamond-shaped crimp completely compresses cable to form solid mass assuring low resistance connection
- Compound action exerts five tons of force
- Built-in dies: no detached dies to purchase or lose
- Rotating dies quickly adjust setting to accommodate various terminals and lugs
- Length 25"
- Weight 5.9 lbs

FTZ 94284	Tool

Parts:

FTZ 94403	Left die
FTZ 94404	Right die

Pico Terminal Crimp Tool



- Makes precision "F" crimps
- 24-14 AWG open barrel terminals

PIC 187-11

Pico Economy Multi Purpose Crimp Tool



- Economical tool with flat black finish
- For crimping non-insulated terminals
- Cuts and strips 22-10 AWG wire
- Length: 7-1/2"

PIC 100-11

Pico Cut/Strip/Crimp Tools



- Cushion grip
- Cuts bolts 4/40, 5/40, 6/32, 8/32, 10/24, 10/32
- Crimps most terminals, insulated and non-insulated
- Cuts and strips 22-10 AWG wire
- Crimps ignition wires also

PIC 300-11 7-3/4"
PIC 350-11 9-1/4"

Pico Deutch Crimp Tool



- Contact size: 12, 16
- Contact type: Solid barrel
- Crimp indent: 4
- Gauge: 20-14 AWG
- Ratchet: Yes

PIC 7903-11

Pico Ratchet Style Heavy Duty Crimp Tool



- Lugs and terminals
- 12-4 AWG
- Overall length: 14"

PIC 335-31

Sea-Dog Heat Shrink Terminal Crimper Tool



- Crimps 22-10 gauge heat shrink terminals

SED 429920-1

Sea-Dog Wire Stripper and Crimper Tool



- Strips, crimps, and cuts 24-10 gauge wire
- Constructed of powder coated steel
- L: 8" x H: 4"

SED 429940-1

Sea-Dog Wire Stripper/Cutter

NEW



- Self-adjusting wire stripper and cutter in one
- 24 - 10 gauge
- Powder coated steel
- L: 6-3/4" x W: 3-3/8"

SED 429930-1

Sea-Dog Wire Cutter

NEW



- Cuts up to 8 gauge wire
- Powder coated steel
- L: 9-5/16" x W: 2-11/16"

SED 429931-1

Sea-Dog Wire Cutter

NEW



- Heavy duty, cuts up to 4/0 gauge wire
- Powder coated steel
- L: 14" x W: 3-1/8"

SED 429933-1

Pico Wire Stripper



- Pocket size wire stripper
- Strips 20-10 AWG wire
- Length: 6"

PIC 450-11







Ancor Wire Stripper

- Compact automatic wire stripper - 20-10 AWG
- Compact design perfect for use in tight spaces
- Strips without damage or marking of conductors
- Strips and cuts wire from 20 AWG to 10 AWG
- Length: 6.3"

ANC 702031

Ancor Automatic Wire Stripper



- Strips and cuts wire from 24-12 AWG
- Adjustable strip length 3/8" to 1/2"
- Fibreglass reinforced polyamide
- Automatically adjusts to different wire sizes
- Slim jaw for easy access

ANC 702030





Ancor Wire Stripper

- Universal wire stripper - 20-4/0 AWG
- Two different cutting methods to cut either small gauge wire or large gauge battery cable
- Wire stripping from 20 AWG to 10 AWG
- Battery cable stripping from 8 AWG to 4/0 AWG
- Length: 5.7"

ANC 702032

FTZ Rotary Cable Stripper



- 8 AWG-4/0 wire range
- Adjustable blade height to match insulation thickness of cable
- Included replacement blades extends life of tool

FTZ 94040

Pico Wire Stripper



- Self-adjusting automatic wire stripper
- Steel stripping jaws adjust automatically for wire from AWG 24-10
- Crimps insulated and non-insulated terminals

PIC 455-11

Ancor HD Cable Cutter



This heavy duty cable cutter has steel forged blades that easily cut up to 350MCM (2 sizes larger than 4/0 AWG) copper wire and cable.

- Strong fibreglass handles with thermoplastic rubber grips for comfort and slip resistance
- Length: 17.5" (444mm)

ANC 703006

Ancor Compact Cable Cutter



This wire and cable cutter has steel forged blades easily cut 22 AWG to 2/0 AWG copper wire and cable.

- Contoured cushion grips
- Length: 9.25" (235mm)

ANC 703005

FTZ Cable Cutter



- Cuts up to 350 MCM (6/0 AWG) copper or aluminum cable
- 16" handles provides leverage and control
- Heat treated blades maintain sharpness

FTZ 94014

FTZ Compact Cable Cutter



- Cuts up to 2/0 copper or aluminum cable
- 7.5" overall length
- Heat treated blades maintain sharpness longer
- Narrow head design for working in tight spaces

FTZ 94012

Pico Cable Cutter



- Will efficiently cut 20 AWG primary wire through 3/0 copper cable
- Made of high quality hardened steel with cushion grip handles
- Length: 8-1/2"

PIC 650-11

Pico Heavy Duty Crimp/Cutter Tool



- Insulated, non-insulated
- 22-10 AWG
- Length: 9-3/4"

PIC 365-11

Pico Weather Pack Extractor & Picks



Contains one extractor, one narrow pick (0.05") and one wide pick (0.09"). Releases and extracts GM, Ford, Chrysler OEM terminals.

PIC 200-31

► *Also See* Tools pg 18-018 to 019

Newmar Electrical Enclosures



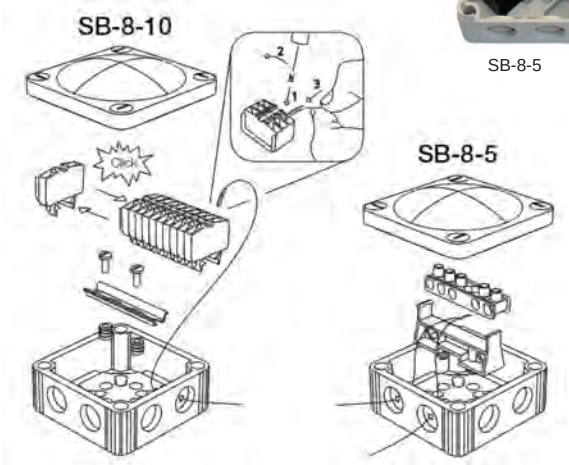
These enclosures provide protective cases for wire connectors, terminal blocks, relays, solenoids, fuses, etc. Corrosion-resistant polycarbonate cases with deep cavity design. In addition, instruments, switches and panels can be surface mounted to the cover. The enclosures have gasketed covers with captured non-corrosive securing screws and offer various levels of water resistant integrity per installer option, depending on type of cable entry used. Waterproof entries provide IP68 protection while the splash-proof entries are rated at IP54. Two Splash-proof entries are (model SPF-1) included with the enclosures. Enclosure mounting points are located in the bottom of the box and caps for waterproof sealing of the mounting holes are provided. Knockouts are positioned on all four sides of the enclosures.

Part #	Size L x W x D	Knockouts
NEW EX-373	7.09" x 3.7" x 3.19"	14 ea. PG-16
NEW EX-474	7.09" x 4.33" x 4.37"	16 ea. PG-16, 4 ea. PG-21, 2 ea. PG-29
NEW EX-1074	7.09" x 10" x 4.37"	24 ea. PG-16, 8 ea. PG-21, 4 ea. PG-29



SB-8-10

SB-8-5



Scanstrut Junction Boxes

Scanstrut junction boxes are perfect for installations if you need to create a waterproof connection for multiple electrical cables, suitable for areas such as lockers, Lazarette's and Tender Bays, the heavy duty junction box manufactured from marine grade polypropylene.

- Cables push fit into the terminals
- Supplied with self-tapping screws for installation
- L: 3.35" x W: 3.35" x H: 2"

SCA SB-8-5 5 screw down terminals

- Depending on the number of terminations required the terminal blocks can be individually fitted or blocked together

SCA SB-8-10 10 modular terminations

Ancor Wire Seals



- Provide low cost watertight cable entries into panels and junction boxes
- Round or flat cable
- U.L. and CSA approved
- Resistant to salt water, acids, alcohol, ether, esters, etc.

Part #	Cable Type	Cable Range (AWG)	Min/ Max	Clear Hole	NPT Size
ANC 764998	Round	18-10	.08-.24"	.68"	3/8"
ANC 765000	Round	10-2	.20-.47"	.83"	1/2"
ANC 765002	Round Flat	4-1 14/3-10/2	.24-.55"	.83"	1/2"
ANC 765004	Round	1-3/0	.51-71"	1.05"	3/4"
ANC 765006	Round	4/0	.71"-.98"	1.35"	1"

Newmar Waterproof Fittings



For complete waterproof assembly (IP68) use these compression fittings. Retaining nut secures fitting to enclosures, compression hub creates waterproof seal around wires. Various sizes are available in a wide range of cable diameters.

Part #	Cable Range	Mounting Hole
NEW WPF-1	.2"-.47"	1"
NEW WPF-2	.35"-.71"	1.25"
NEW WPF-3	.55"-98"	1.5"

Pico Weather Packs



Use the #162 with #154 to provide a secured weather seal for 16-14 gauge wires.

PIC 154-C Tin plated holder
PIC 162-C Silicone rubber seal

Scanstrut Cable Gland



- Designed to fit the new fit and forget Junction Boxes (above)
- Manufactured from a glass reinforced plastic
- IP67 tested and approved
- Accepts cables from 4 mm - 12 mm

SCA SB-2G 2/pkg

Scanstrut Bulkhead Wire Seals



- Moulded in high strength nylon with an over moulded internal seal
- IP67 waterproof cable routing
- One sided installation
- Fit to any bulkhead, from 10 mm to 35 mm

Part #	# of Cables	Diameter
SCA TBH-4	4	2.5"
SCA TBH-10	10	2.8"

T-H Marine CeaCap Bulkhead Pass Thru Fittings



- Creates watertight seal for thru-hull cables, tubing, or wires
- Great for transducer cables
- Turn down washer included

THM TH-CC-1-DP	1-1/4" flange, 3/4" cut out, 1/4" slot, black
THM TH-CC-2-DP	1-1/4" flange, 3/4" cut out, 1/4" slot, white
THM TH-CCL-1-DP	1-1/2" flange, 1" hole, 9/32" slot, black
THM TH-CCL-2-DP	1-1/2" flange, 1" hole, 9/32" slot, white

Vertex Cable Glands



- For round cable applications
- Nylon construction and NPT thread

VER 82025	18-10 AWG, 1/4"
VER 82026	10-4 AWG, 3/8"
VER 82027	4-1 AWG, 1/2"
VER 82028	1-3/0 AWG, 3/4"
VER 82029	4/0 AWG, 1"
VER 82030	4/0 AWG & up, 1-1/4"

Blue Sea Systems Side Entry Cable Clams



Provides a waterproof side entry for antenna cables without requiring removal of the factory installed connector.

- Simple one-piece design for easy side mount installations
- Low profile, contoured edge reduces the risk of tangling lines
- #1007100 includes a polished stainless steel dress cap, which conceals mounting hardware, matches other deck hardware and offers protection from UV
- Includes all fasteners
- Max. cable diameter: .28"



BSS 1007	
BSS 1007100	With stainless cap

Blue Sea Systems Cable Clams

Cable Clams allow a waterproof through deck installation of LORAN, GPS and other cables. Cable Clams fit any size cable and are easily installed through the use of a seal that can be easily drilled, slit, slipped over the cable and then compressed inside the Cable Clam. The cable can be quickly removed and the deck ring sealed with the waterproof screw plug.



- Available with a polished stainless steel dress cap, which conceals mounting hardware, matches other deck hardware and offers protection from UV

Standard Part #	Stainless Part #	Max. Cable	Outside Diameter	Height
BSS 1001	**BSS 1001100**	.31"	1-3/4"	7/8"
BSS 1002	**BSS 1002100**	.44"	2"	7/8"
BSS 1003	**BSS 1003100**	.56"	2-1/2"	1-3/16"

Scanstrut Cable Seals

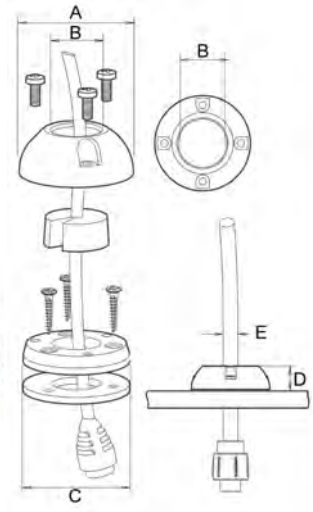
The only guaranteed and proven watertight installation for your antenna and navlight cables!
The range provides waterproof cable routing and is produced in high impact plastic and 316 stainless steel with options for 2mm to 40mm connectors, making it ideal for almost every installation.

- All models have been IPX6 and IPX7 tested and approved
- Captive nuts make for easy assembly
- Tapered bung forms watertight seal
- All units are supplied with a closed-cell base seal
- Includes a solid core plug and pre-drilled options
- Split-seal option does not require connector removal during install



DS16-P DS30-S

P = Plastic, grey
P-BLK = Plastic, black
S = Stainless steel



Part #	A	B	C	D	E
SCA DS6-P	1.18"	.24"	1.06"	.67"	.08 - .24"
SCA DS6-P-BLK					
SCA DS16-P	1.53"	.63"	1.44"	.75"	.08 - .31"
SCA DS16-P-BLK					
SCA DS16-S					
SCA DS21A-P	1.93"	.83"	1.8"	.81"	.17 - .31"
SCA DS21A-P-BLK					
SCA DS21A-S					
SCA DS21B-P	1.93"	.83"	1.8"	.81"	.35 - .55"
SCA DS21B-P-BLK					
SCA DS21B-S					
SCA DS30-P	2.32"	1.18"	2.2"	.81"	.35 - .55"
SCA DS30-P-BLK					
SCA DS30-S					
SCA DS40-P	2.72"	1.57"	2.6"	.85"	.4 - .59"
SCA DS40-P-BLK					
SCA DS40-S					

► *Also See* Scanstrut Electronics Mounting pg 03-099 to 100

Scanstrut Low Profile Cable Seals

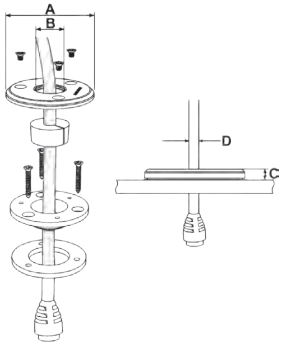
- Slimline design with a reduced overall mounting height of 73% in comparison to previous DS cable seals
- Designed for .08" - .35" cables (2mm - 8 mm)
- IP68 tested and approved
- Captive nuts make for easy assembly
- Tapered bung forms 100% watertight seal
- All units are supplied with a closed-cell base seal
- Includes both pre-drilled and blank bungs
- UV resistant
- Constructed of marine-grade aluminum or 316 stainless steel
- No messy sealant required, ensuring tidy finish
- No need to remove cable connector during installation, due to split-seal option



DS-LP-16-S



DS-LP-30-BLK



BLK = Aluminum, black
S = Stainless steel

Part #	A	B	C	D min	D max
SCA DS-LP-16-BLK	1.96"	.63"	.2"	.08"	.31"
SCA DS-LP-16-S					
SCA DS-LP-21A-BLK	2.39"	.83"	.26"	.16"	.35"
SCA DS-LP-21A-S					
SCA DS-LP-21B-BLK	2.39"	.83"	.26"	.35"	.55"
SCA DS-LP-21B-S					
SCA DS-LP-30-BLK	2.98"	1.18"	.26"	.35"	.55"
SCA DS-LP-30-S					

Scanstrut Starlink Compatible Cable Seals

NEW





- Watertight installation - tapered bung is supplied with a closed base seal for an IP68 rating
- Dome shaped profile provides a stronger, impact resistant design with additional water shield
- UV stable, marine grade materials
- Includes both pre-drilled and blank bungs

DS16

- Fits cables from .16" - .24", and connectors up to .63"
- Compatible with Starlink Standard/Standard (Gen 3), Enterprise/Enterprise (Gen 3), and Mini
- H: .75" x Dia: 1.18"

SCA DS16-SL Grey
SCA DS16-SL-BLK Black

DS30





- Fits .34" cable, and connector up to 1.18"
- Compatible with Starlink High Performance/ Performance (Gen 1), and Flat High Performance/Performance (Gen 2)
- H: .81" x Dia: 2.32"

SCA DS30-SL Grey
SCA DS30-SL-BLK Black

Scanstrut Cable Seals





- Watertight installation for your antenna and navlight cables
- Tapered bung forms watertight seal
- Closed-cell base seal - 100% waterproof
- IPX6 and IPX7 tested and approved
- Wire sizes: .24" - .39"
- 4mm fasteners
- L: 3.05" x W: 1.75" x H: 1.06"

SCA DS-H10 Grey
SCA DS-H10-BLK Black

Scanstrut Cable Seals

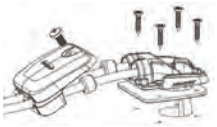




- Watertight installation for your antenna and navlight cables
- Tapered bung forms watertight seal
- Closed-cell base seal - 100% waterproof
- IPX6 and IPX7 tested and approved
- Wire sizes: .08" - .24"
- 4mm fasteners
- L: 1.81" x W: 1.12" x H: .79"

SCA DS-H6 Grey
SCA DS-H6-BLK Black

Scanstrut Double Entry Cable Seals

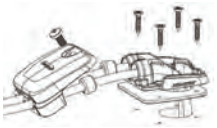




- Designed to simplify routing of solar panel installations
- Install 2 cables - 5mm and 6mm in any combination
- IP68 watertight seal
- Made of UV-stable, hard-wearing, marine-grade black high impact plastic with waterproof 3M gasket
- L: 2-1/2" x W: 2-1/8" x H: 15/16"

SCA DS-HD6 Grey
SCA DS-HD6-BLK Black

Scanstrut Double Entry Cable Seal





- Designed to simplify routing for roof top lights and electronics
- Install 2 cables - from 6 to 10 mm
- IP68 watertight seal
- Made of UV-stable, marine-grade black high impact plastic with waterproof 3M gasket
- L: 2.95" x W: 2.61" x H: 1.12"

SCA DS-HD10-BLK

Scanstrut Horizontal Cable Seal



- Designed for installation of large electronics, solar, and light cables
- Fits one to four cables of varying sizes up to .59" (15mm)
- Self-drill, easy installation with captive nuts and needing no messy sealant on the bung
- Constructed of marine-grade glass filled nylon
- UV stable and hard-wearing
- IP68
- L: 3.84" x W: 4.51" x H: 1.4"

SCA DS-H-MULTI-BLK

Scanstrut Multi Cable Seals



- Designed to fit multiple cables up to 15mm dia
- Supplied with undrilled seal
- IP68
- Wire sizes: up to 15 mm

Marine Grade Machined Aluminum:

- L: 3.9" x W: 1.8" x H: .7"

SCA DS-MULTI



High-Impact Plastic:



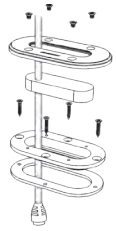
- L: 4.13" x W: 2.11" x H: .91"

SCA DS-MULTI-P-BLK

Scanstrut Low Profile Multi Cable Seals



- Slimline design with a reduced overall mounting height compared to previous DS-MULTI cable seals
- Designed to fit multiple cables up to .59" (15 mm)
- IP68 tested and approved
- Captive nuts make for easy assembly
- Tapered bung forms secure seal
- All units are supplied with a closed-cell base seal
- Supplied with blank bung
- UV resistant
- Constructed of marine-grade aluminum or 316 stainless steel
- No messy sealant required, ensuring tidy finish
- L: 4.49" x W: 2.46" x H: .26"



SCA DS-LP-MULTI-BLK	Aluminum, black
SCA DS-LP-MULTI-S	Stainless steel



Seaview Retrofit Cable Seals



Watertight installation for your currently installed cables.

- No need to re-run cables: can be installed with cable in place
- Waterproof pass-through for antenna, transducer, lights, power, and other cables
- Undrilled tapered watertight rubber seal and base gasket
- IPX6 and IPX7 rating
- Low profile design for a strong, impact-resistant and clean installation with no sharp edges
- Each cable seal comes with 4 brass drill tubes and all hardware for installation
- Paintable grey plastic
- Will work with more than one cable as long as each cable has its own hole, and there is at least .125" of rubber around each hole

SVW CG20PG2	Up to 13.5mm
SVW CG30PG2	Up to 27.5mm

Seaview Horizontal Cable Seals

NEW



CG2090W

- Horizontal cable entry is perfect for rooftop electronics
- Plastic housing is strong and impact resistant
- Tapered rubber bung forms a watertight seal and is supplied with drill tubes, allowing you to drill your own custom diameter seal, and is supplied with a thick rubber base gasket
- IPX6/IPX8
- Will work with more than one cable as long as each cable has its own hole, and there is at least .125" of rubber around each hole



CGM90

SVW CG2090	Black, Up to 13.5 mm (.53")
SVW CG2090W	White, Up to 13.5 mm (.53")
SVW CGM90	Black, Up to 6.35 mm (.25"), Multiple cables
SVW CGM90W	White, Up to 6.35 mm (.25"), Multiple cables

Seaview Cable Seals

Waterproof cable routing that fit a wide range of cables and connectors.

- Split seal design eliminates the need to remove cable connectors during installation
- Tapered rubber seal and base gasket form a watertight installation
- IPX6 and IPX7 rating
- Low profile design for a strong, impact-resistant and clean installation with no sharp edges
- Each cable seal comes with 4 brass drill tubes and all hardware for installation
- Will work with more than one cable as long as each cable has its own hole, and there is at least .125" of rubber around each hole

Round:

SVW CG20PG	to 13.5 mm - Grey Plastic
SVW CG20SB	to 13.5 mm - Black S/S
SVW CG20SS	to 13.5 mm - Polished S/S
SVW CG20SW	to 13.5 mm - White S/S
SVW CG30PG	to 27.5 mm - Grey Plastic
SVW CG30SB	to 27.5 mm - Black S/S
SVW CG30SS	to 27.5 mm - Polished S/S
SVW CG30SW	to 27.5 mm - White S/S



CG20SW



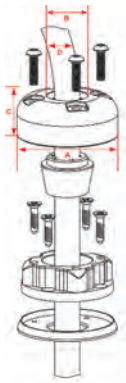
CG30SS

Rectangular:

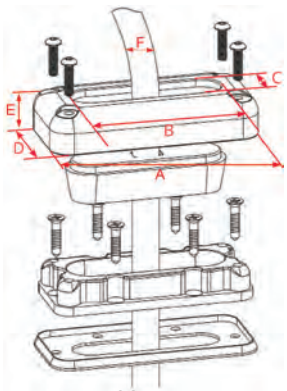
SVW CGM17PG	to 10.6 mm - Grey Plastic
SVW CGM17SB	to 10.6 mm - Black S/S
SVW CGM17SS	to 10.6 mm - Polished S/S
SVW CGM17SW	to 10.6 mm - White S/S



CGM17SB



CG20
CG30

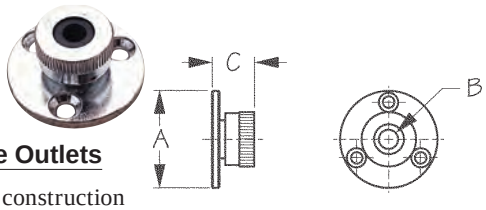


CGM17

Seal Style	A	B	C	D	E	F
CG20	2"	.81"	.813"	.53"	-	-
CG30	2.53"	1.38"	.813"	1.08"	-	-
CGM17	4"	2.875"	.67"	1.88"	.8"	.5"

Max cable diameter CG20/CG30 = D
Max cable diameter CGM17 = F

► *Also See* Seaview Electronics Mounting pg 03-096 to 099



Sea-Dog Cable Outlets

- Chromed brass construction
- Rubber O-Ring provides waterproof seal

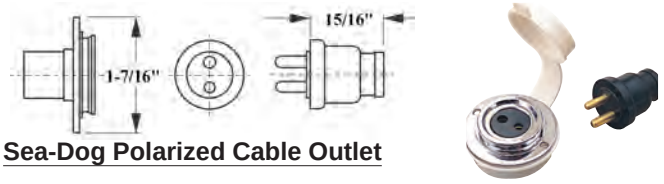
Part #	A	B	C	Cable	Fastener
SED 426040-1	1-1/4"	1/4"	5/8"	RG58	#5 FH
SED 426042-1	1-1/4"	5/16"	5/8"	RG5X	#5 FH
SED 426051-1	1-1/2"	3/8"	11/16"	RG5U	#6 FH

Shakespeare Cable Outlet



- Chromed brass cable outlet with internal rubber grommet grips cable & keeps water out
- For RG-8/AU, 8X, 58, 59, 213 and Shakespeare Lo-Max coax cables
- For RG-8AU, RG-8X, RG-58, RG-59, RG-213 coax cables
- Overall diameter: 1-1/4"
- Wire sizes: 1/4" to 3/8"

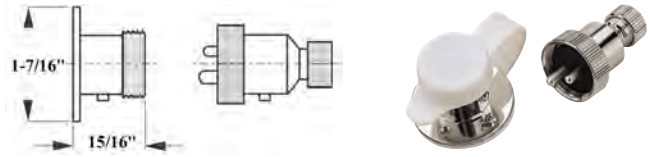
SHA 4184



Sea-Dog Polarized Cable Outlet

- Chrome plated machined brass
- Waterproof cover for base when plug is removed
- 12/24VDC, 2 pin, 3A
- Molded bakelite and neoprene plug
- Use #4 FH fasteners

SED 426142-1 Complete
SED 426144-1 Plug only



Sea-Dog Electrical Deck Connectors

- Chrome plated brass
- Polarized thread on plug makes positive connection
- Watertight gland on plug
- Threaded cap for base when plug is removed
- 12/24VDC
- Use #6 RH fasteners

SED 426262-1 2 pin, 3A
SED 426263-1 3 pin, 4A
SED 426264-1 4 pin, 5A

Sea-Dog Polarized Connector



- 2 wire. 16 gauge. 12" wire loop

SED 426880-1

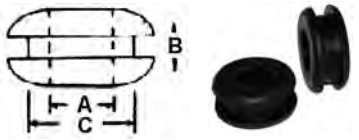
Perko Watertight Deck Connectors



- Polarized double contact connector.
- 15A at 12, 24 or 32V
- Waterproof cover for base when plug is removed
- Use #6 F.H. fasteners
- Dia: 1-5/8". Height: 1-3/16"

PER 1189-DP-CHR Chrome brass
Parts:
PER 1189-DP-99A Spare connector and cover

Pico Grommets



- Flexible, oil resistant vinyl grommet
- Guards against wires being cut or frayed by sharp edges
- Choosing the correct inside and groove dimensions, a weather tight seal can be made

Part #	A	B	C	Qty/pkg
PIC 6116-BP	3/16"	1/16"	5/16"	7
PIC 6117-BP	1/4"	1/16"	3/8"	6
PIC 6118-BP	5/16"	1/16"	7/16"	5
PIC 6119-BP	3/8"	1/16"	1/2"	5
PIC 6120-BP	1/2"	1/16"	5/8"	3
PIC 6124-BP	3/4"	1/8"	1-1/16"	1
PIC 6125-BP	1/2"	1/4"	13/16"	1

Ancor Grommets



- Provide instant abrasion resistance to wires passing through panel holes
- Flexible black vinyl makes installation simple

45 Piece Kit

- (10 each of 1/4", 5/16", and 3/8", 5 each of 1/2", 11/16", and 3/4")

ANC 750000

Part #	Hole	Inside Dia	Panel Width	Qty
ANC 760375	3/8"	1/4"	3/32"	5/pkg
ANC 760500	1/2"	3/8"	1/16"	5/pkg

T-H Marine Decorative Wire Cover



A black cover to provide a finished look for wiring passing through holes.

- Covers holes up to 1-1/4"
- Comes with mounting screws
- 2" x 1-1/2"

THM DWC-1-DP 2/pkg

Sea-Dog Wire Cover



- Injected molded black ABS cover
- Cover holes up to 1-1/4" in diameter
- Accepts wire up to 3/16"
- 2" x 1-1/2"

SED 426090-1

Sea-Dog Cigarette Lighter/Light



Combination chart light and cigarette lighter with the slide of a switch.

- 12V
- 304 stainless steel
- 1-1/8" mounting hole
- Uses # 8 RH fasteners

SED 426352-1

Sea-Dog Polarized Electrical Connectors



- Machined brass/injection molded thermoplastic
- 12/24VDC 4 pin, 5A
- 2-1/16 x Dia 1-7/8"
- Use #5 FH fasteners

SED 426234	Bulk
SED 426234-1	Packaged

Cole Hersee Electrical Connectors



- Moisture repellent molded insular, 2-pole bodies with round body rubber caps
- Corrosion resistant
- Polarized with circuit identification
- Brass contacts

COH M-121	Boxed
COH M-121-BP	Blister packaged

Sea-Dog Polarized Connectors



- 12/24VDC, 14 ga wire max
- Brass pins, molded neoprene & bakelite housing
- Male and female ends

SED 426162-1	2 pin, 3A
SED 426163-1	3 pin, 4A
SED 426164-1	4 pin, 5A

Sierra Molded Connector



- Polarized 4 pin connector
- Molded ABS interior
- Protected by sealing caps

SIE TC43624

Blue Sea Systems 12V Plug and Socket Sets



- Plug features an"ON" indicating LED, moisture proof sealing ring, strain relief, and a built-in 10A fuse
- Socket features a watertight cap and interlocks with the plug
- Large contact surfaces for good electrical connection
- Twist lock system-plug locks securely into socket
- Internal strain relief and cord seal
- Nickel plated copper alloy used for all current carrying components
- Front panel, rear panel, or surface mount
- Max. 15V



BSS 1015	12 volt plug & dash socket kit
BSS 1010	12 volt plug only (max. amps 15 DC)
BSS 1011	12 volt dash socket only, Black (max. amps 10 DC)
BSS 1011200	12 volt dash socket only, White

12V Plug w/Single Socket



Includes all the features of the plug & socket system above

- Heavy duty 18 gauge wire
- Cord reaches up to 6 feet

BSS 1012

Mounting Bracket For 1011 Socket



- Designed to withstand the rigours of wet environments and constant vibration
- Large contact surfaces for good connection
- Twist lock system locks plug securely into socket
- Internal strain relief and cord seal
- Nickel plated copper alloy used for all current carrying components
- Front panel, rear panel, or surface mount

BSS 1014

Marinco 70A Trolling Motor Plug & Receptacle



- 70A continuous rating
- Universal design for 2 or 3-wire configuration 12V, 24V, 12/24V, 24/36V, 36V or 48V systems
- Floating pin design for maximum connectivity and durability
- Corrosion resistant, plated brass electrical components
- Receptacle contains watertight sealing cap
- Plug contains Integrated strain relief and keyed design with thumbprint locator
- Accepts up to 6 AWG wire

MAR 12VCPS3

Marinco SeaLink 12V Receptacle



- Watertight sealing cap
- Easy to install, with supplied mounting plate for front panel installation, or locking ring for rear access installation
- Compatible with standard 12V plugs
- Max rating is 15A
- Mounting plate dimesions: 1.68"H x 2.34"W
- Requires 1.12" cutout mounting hole

MAR 12VRC Black

Marinco SeaLink 12V Plug



- Moisture proof sealing ring
- LED power indicator light
- Interchangeable 10A fuse
- Internal strain relief and cord seal
- Compatible with standard 12V receptacles
- Max rating is 10A

MAR 12VPG Packaged

Marinco SeaLink 12V Receptacle & Plug

- 12VRC and 12VPG packaged together

MAR 12VPK

SeaLink Accessories



- 12V extension cord with 18 gauge wire
- Watertight cap, LED indicator
- Built-in 10A fuse
- Extends a full 6'

MAR 12VXT Single



- 2" wide x 2-1/2" high

MAR 12BKT Under dash bracket

Marinco Connect Pro 3-Wire Receptacles



Receptacle

- Universal design for 2 or 3-wire configuration 12, 24, 12/24, 24/36 or 36 volt systems
- Watertight sealing cap
- Corrosion resistant, plated brass electrical components
- Drain holes keep water away from electrical components
- Perma-Lock screw terminals will not loosen under extreme hull vibration
- Standard 1-1/8" diameter mounting hole
- Easy to install, with supplied mounting plate for front panel installation, or locking ring for rear access installation
- Accepts 10 and 8 gauge wire



3 Connect Pro Plug

- O-ring seal for waterproof connections
- Weather resistant plug cover
- Corrosion resistant, plated brass electrical components
- Accepts 16 to 8 gauge wire
- Ergonomic contoured grip for easy hook-up and ground blade alignment

MAR 12VBP Connect Pro Plug
MAR 12VBR Connect Pro Receptacle
MAR 12VCP Connect Pro Plug & Receptacle

Marinco 4-Wire Trolling/Charging System



The 4-wire Trolling/Charging System eliminates the need for a charge/run switch. Install the receptacle on the boat, mount the black trolling motor plug on the trolling motor, and the red charger plug on the leads of the battery charger. Simply plug in the black plug to troll, or plug in the red plug to charge.

MAR 2018BR-MB Cover & 2018BR receptacle

MAR 2018BP-12 Charger plug (red, male)
MAR 2018BP-24 Trolling motor plug (black, male)

Marinco ConnectCharge Inlet



- Use with Marinco/Guest battery chargers equipped with ConnectCharge plugs.
- Mount to dash from rear with threaded locking ring or from the front with three screws through the face plate
- Universal mount

MAR 150CCI

Marinco Receptacle



- Receptacle only for cigar lighter plugs
- Stainless steel
- Comes with a protective cap
- 12V
- Uses #10 R.H. screws
- Requires a 1-1/8" mounting fastener
- Flange diameter 1-1/2" x 2-1/16"

MAR 20036

Marinco 15A 125V On-Board Charger Inlets

Plug in receptacle for your household extension cord to feed the battery charger on your boat.



- Low profile cap
- Perma-Lock terminals
- Colour coded wire entrance holes
- UV resistant housing and cap
- U.L. listed
- 1.87" cutout, 2.5" OD

MAR 150BBI Black
MAR 150BBIW White

Scanstrut Power Socket



- UV resistant with internal anti-corrosion coating
- Includes front-fit bezel kit
- Red LED running light
- Input 12V; 150W max power
- IPX4 with cover closed
- Cutout: 1-1/4",
- 1.65" x 1.73" (2.68" x 2.01" with bezel)

SCA SC-12V-F1

Sea-Dog Sockets



- 12VDC
- 16A maximum
- 304 Stainless steel mounting plate
- 1-1/8" mounting hole
- Uses #8 R.H. fasteners

SED 426013-1 Chrome steel socket & cap
SED 426053-1 Stainless steel socket & cap

Scanstrut Ventura Series Dual 125V 20A AC Outlet

NEW



Designed for outdoor reliability, this dual outlet delivers instant mains power outside your RV.

- Marine grade 316 stainless steel hardware with durable matte black plastics and built-in gaskets
- Includes commercial grade receptacle
- Built-in strain relief
- Compatible with flat and round cables (12AWG triplex recommended; copper cable must be used for installation)
- IP68 & IP69K (with lid closed) waterproofing and UV resistance
- 125V, 20A
- W: 4.34" x H: 2.73"

SCA SC-V-P1

Scanstrut Ventura Series 12V Power Outlet

NEW



- Compact, rugged design
- Marine grade 316 stainless steel components and built-in gasket
- IP68 & IP69K (with lid closed) waterproofing and UV resistance for all weather reliability
- Spring loaded lid with click-to-close design
- Cutout: 1.25"
- 12V, 10A
- Output power: 150W max
- W: 2.37" x H: 2.68"

SCA SC-V-DC1

Sea-Dog Toggle Switch / Power Socket Panel



- Injection molded ABS/polycarbonate
- Switches rated @ 15A/12V
- Blue LED indicator lights
- Blue LED lighted 12V power socket
- ATC fuse holders and decal sheet
- Rated IP66
- H: 4" x W: 4-5/16"
- Cutout: 3-3/8" x 3-3/8"

SED 424623-1	3-toggle
SED 424627-1	5-toggle

Sea-Dog Water Resistant Toggle Switch Panel with Power Socket



- Injection molded ABS
- Includes five switches rated @ 15A/12V and one 12V power socket
- Inline fuse holders and decal sheet included
- H: 3-3/4" x W: 4-1/4"
- Cutout: 3-3/8" x 3-3/8"

SED 424605-1

Sea-Dog Power Socket and Plugs



- 12VDC, 16A max.
- All-black plastic with weather tight black cap
- 1-1/8" cutout
- Face plate: 1-1/4" x 2-1/4"
- Use #6 fasteners

SED 426112-1	Complete
SED 426113-1	Socket & cap only
SED 426114-1	Male plug only
SED 426119-1	Cap only

Vertex Power Socket



- 9-36VDC, 20A cigarette lighter power socket
- Panel mount
- Flame retardant, glass fibre-reinforced nylon enclosre
- 0.250" quick connect terminals

VER 82328

Sea-Dog Deluxe Power Sockets



- 12V
- Stamped brass, injection moulded nylon and ABS
- LED light indicates when powered
- Max. rating is 12 Volts, 16A
- Comes with a 3A fuse
- 1-1/8" cutout
- 1-7/16" dia. face plate

SED 426115	Socket & cap, bulk
SED 426115-1	Socket & cap
SED 426116-1	Complete

Sea-Dog Deluxe Power Socket



- 12V; 16A
- 1-1/8" cutout hole
- Stamped brass/injection molded nylon & ABS

SED 426120-1

Sea-Dog Power Socket w/Battery Clips



- Use 12V devices on small boats without built-in power socket
- Length: 6'

SED 426450-1

Sea-Dog Power Socket



- Stamped brass/injection molded nylon & ABS
- Cutout: 1-1/8"
- 2 blue LEDs light up the interior
- Input 12-24V
- 16A. IP65 rating

SED 426127-1

Sea-Dog SAE Power Socket



- SAE type, two-prong plug and socket polarized electrical connector set
- Great for solar panels and battery maintaining
- 12-24V; Max 20A @ 12V
- 14 ga duplex wire
- 3/4" cutout hole
- Use #10 RH fasteners

SED 426950-1

Blue Sea Systems Water-Resistant Accessory Panels

- Easy to install accessory panels include a 15A circuit breaker switch and pre-wired harness
- Panels offer customizable 12V charging and monitoring options
- Pre-wired harness included in all panels for easy installation
- Silicon breaker boots and gasket protects against water ingress
- Illuminated Carling Technologies 15A circuit breaker switch allows the ability to shut off panel preventing parasitic draw
- Polycarbonate/ABS panel face is UV-stabilized, flame retardant, and will not corrode
- 12V DC only



- 12V Socket
- 2.1A Dual USB Charger

BSS 4363 2.25" x 4.94" x 2.53"



- 2 x Blank Apertures

BSS 4364 2.25" x 4.94"



- 12V Socket
- 2 x 2.1A Dual USB Chargers

BSS 4365 2.25" x 6.61" x 2.53"



- 12V Socket
- Dual USB Charger
- Mini Voltmeter

BSS 4366 2.25" x 6.61" x 2.75"



- 12V Socket
- 2 x 2.1A Dual USB Chargers
- Mini Voltmeter

BSS 4368 2.25" x 8.29" x 2.75"

Marinco SeaLink Dual USB and 12V Receptacle



- 12V input
- Dual USB has 5V, 2.1A total output
- Blue LED power indicator light for USB
- Receptacle has 12V output, rated up to 20A
- Water resistant covers protect against dust and water
- Insulated terminals included

MAR 12VCOMBO

Scanstrut Flip Pro Multi Dual USB-C and 12V Receptacle



- Fast charge (60W max with 24V system) up to 2 devices at a time
- Includes a front-fit bezel kit
- Spring-loaded caps remain tightly closed when not in use; IPX4 when closed
- UV-resistant, with 316 s/s hinge and spring
- 120 – 150W max power 12V system only
- Input voltage: 10-32V USB (6A max); 10-15V socket (10A max), Standby draw: .01W
- Recommended fuse: 10A
- L: 3.15" (4.22" w/bezel) x W: 1.73" (2.01" w/bezel)

SCA SC-MULTI-F1

Sea-Dog Mini Power Box



- Controlled with a 50A battery switch and monitored with an LED voltmeter
- Switch has a removable knob for extra security
- Onboard internal fuse block
- Power box has two power sockets, two Anderson outputs, one USB-C, and four USB-A 2.4A ports
- Includes Anderson battery plug with terminals and four #8 FH mounting fasteners
- 12/24V, 50A
- L: 6-1/4" x W: 5-9/16" x H: 3-1/8"

SED 422737-3

Sea-Dog Toggle Switch / USB Panel



- Injection molded ABS/polycarbonate
- Includes five switches rated @ 15A/12V
- Blue LED indicator lights and double USB power socket
- ATC fuse holders and decal sheet
- USB power socket output is 4.8A, 2.4A per side
- Rated IP66
- H: 4" x W: 4-5/16"
- Cutout: 3-3/8" x 3-3/8"

SED 424617-1

Sea-Dog Power Socket / USB Panel



- Injection molded nylon
- Blue LED lighted double USB power socket
- Power socket is rated at a maximum of 12V/16A
- 16A breaker switch
- Input 12V–24V
- USB power socket output is 4.8A, 2.4A per side
- H: 2" x W: 4-1/4"

SED 426506-1

Sea-Dog Double USB & Power Socket Panel

Double USB input 12V-24V, Output DC 5V/2.1A – enough to charge iPhones, iPads and almost all other devices.



- Power Socket rated at 12 volts, 16A
- Includes screws and connectors
- Injection molded nylon
- W: 3-1/2" D: 1-5/8"

SED 426505-1

Parts:

SED 426501 Panel only

Vertex Dual USB and 12V Receptacle



- Flush mount 2-gang panel
- LED power indication
- 5V, 4.8A USB (2.4A each port)
- Compatible with popular dual sockets, for flexible customization
- UV-stabilized, flame retardant, glass fibre-reinforced material

VER 82330

Blue Sea Systems
Fast Charge 4.8A Dual USB Chargers



Intelligent device recognition maximizes charge rate for phones, tablets, or other mobile devices

- Charges at the speed required by specific devices
- Internal filtering for reduced electronic interference
- Conformal coated circuit board
- Protective dust cap keeps debris and moisture out
- .250" quick connects
- Thermal overload protection: Yes
- Reverse polarity protection: Yes
- Input voltage: 9V–32V
- Output voltage: 5V ±5%
- Maximum output current: 4.8A (total)
- Cutout: 1039: 1.45" × 0.83" / 1045: 1-1/8" diameter
- Regulatory: RoHS, E Certified

1039



1045

BSS 1039 Rocker switch, .mounts in contura switch aperture
BSS 1045 Round, mounts in 1-1/8" hole

Accessories:



BSS 1035 Spring-hinge cover for 1039
BSS 1036 Spring-hinge cover only for 1045

Blue Sea Systems
Dual USB Port Chargers





- Dual USB 2.0 charger socket with watertight cap
- Output Voltage: 5V +/- 5%
- Max. Output Current: 2.1A
- Cut Out Dimensions: 1-1/8" Dia

BSS 1016 12VDC, Black
BSS 1016200 12VDC, White

Marinco SeaLink
Deluxe Dual USB Receptacle



- Dual USB ports with blue LED indicator light
- 12 to 24V input
- 5V, 2.1A total output
- Insulated terminals included
- Water resistant cover protects against dust and water

MAR 12VDUSB

Sea-Dog
Dual USB Power Rocker Switch



- Injected molded nylon
- Charges two devices simultaneously
- Fits any 13/16" x 1-7/16" rocker switch hole
- Blue LED illumination
- Input 12–24V
- Total output 5V/4.2A load splits between two sides as needed
- Protective dust cap extends the life of the charger
- IP65 rating

SED 426520-1

Sea-Dog Dual USB Power



- Injection molded nylon
- Charges two devices simultaneously
- Blue LED illumination
- Input 12V-24V
- Total output 5V/4.2A; load splits between two sides as needed
- Protective dust cap extends the life of the charger
- IP65 rating
- Cutout: 1-1/8"

SED 426515-1

Sea-Dog
Dual USB Power Socket



- Aluminum/Injection molded nylon
- Charges two devices simultaneously
- Protective dust cap
- Input 9-32V
- Total output 5V/4.8A load splits 2.4A per side as needed
- IP 65 rating
- Terminal spade contacts
- Installs in 1-1/8" hole
- Also fits Sea-Dog Power Socket Shell (#426100) and Mounting Bracket (#426105)
- Dia: 1-7/16" x Depth: 1-1/2"

SED 426504-1 Red anodized

► *Also See* Sea-Dog USB Chargers/Volt Meters pg 03-103 to 104

Vertex Dual USB-A/-C Charger



- Dual USB port fast charges iPhone or Android from 0% to 50% within 30 minutes.
- Cigarette lighter power socket type
- Type A port – 5V, 2.4A
- Type C port – PD (Power Delivery) 45W, compatible with the latest PD devices
- 12/24V

VER 82609

Marinco SeaLink
Dual USB & USB-C Socket



- Delivers up to 45W of total output
- Weather resistant cover protects against water and dust ingress (IP45 with cover closed)
- Short circuit and reverse polarity protection
- LED power indication
- Mounts in standard 1-1/8" hole
- Output using single port only: 5V, 3A
- Output using both ports: 5V, 2.4A per output
- 12/24V

MAR 12VDUSBAC

Scanstrut
Flip Pro Dual USB & USB-C Sockets



- For use with either 12V or 24V input; includes 1 ea USB-A and USB-C charging ports
- IPX4 waterproof with cover closed
- Will charge at 36W on 12V, or up to 60W on 24V system
- Designed to effortlessly charge both an iPad Pro and iPhone at the same time
- Spring-loaded cap
- Constructed from premium marine-grade materials, UV-resistant, and internal anti-corrosion protective coating
- Easy install, using standard 1-1/8" USB mounting hole
- Output: Type C: 3A, Type A: 1.5/3A
- Input max 6A; 0.01W standby power draw
- Min. to Max. Panel Thickness: 0.11" - 1"



SC-USB-F2

SCA SC-USB-F1
SCA SC-USB-F2 With front bezel

Scanstrut ROKK Charge Pro Dual USB & USB-C Socket



- Ideal for charging laptops, and will also easily charge an iPad Pro and iPhone at the same time
- Unique design charges up to 36W on 12V systems (USB-A and USB -C), and 60W on 24V systems (USB-C)
- Waterproof with 1, 2 and even no cables plugged in
- IPX6 waterproof with cover closed
- Universal fit for any USB-A or USB-C connectors
- Anti-corrosion coating on circuit board
- UV resistant
- 316 stainless hinge and spring
- 1-1/8" mounting hole
- H: 3.7" x W: 1.53"



SCA SC-USB-03

Scanstrut TILE Series USB & USB-C Sockets



SC-TILE-10

- Sleek, low-profile, high-performance charging sockets designed specifically for marine interiors
- Will charge at 36W on 12V, or up to 60W on 24V
- Charge up to 2 devices at a time
- Available with bezels in matte black, or 316 brushed stainless steel
- Conformal coated electronics are protected against moisture; however, units are for interior use only
- Output: Type C: 3A, Type A: 3A
- Input max 6A; 0.01W standby power draw
- 12/24V
- Cutout: 1.14"; Min. panel thickness: 0.12"; Depth 2.62"
- Face: Black 1.69" sq., Stainless 1.59" sq.

SCA SC-TILE-10	USB-A & C, Black
SCA SC-TILE-11	USB-A & C, Stainless
SCA SC-TILE-20	2x USB-C, Black
SCA SC-TILE-21	2x USB-C, Stainless



SC-TILE-21

Sea-Dog USB & USB-C Power Socket



- USB and USB-C socket charges two devices simultaneously
- Blue LED display
- Injection molded nylon
- Protective dust cap
- Installs in 1-1/8" hole
- Input 8-32VDC, total output 4.8A load is split 2.4A per side
- IP65 rating, CE and RoHS compliant
- Dia: 1-7/16" x Depth: 1-1/2"

SED 426516-1

Sea-Dog USB & USB-C Power Rocker Switch



- USB and USB-C rocker switch style power socket, charges two devices simultaneously
- Blue LED display
- Injection molded nylon
- Input 8-32V; total output 4.8A is split 2.A per side
- Protective dust cap
- Fits into any 13/16" x 1-7/16" rocker switch hole
- IP65 rating, CE and RoHS compliant

SED 426521-1

Scanstrut Ventura Series Dual USB-C Socket

NEW

The Ventura Series Dual USB-C socket offers reliable, seamless power in any outdoor environment.

- Marine grade 316 stainless steel components with built-in gasket
- IP68 & IP69K (with lid closed) waterproofing and UV resistance for all weather reliability
- 90° holding bump feature
- Spring loaded lid
- Cutout: 1.25"
- 12/24V, 6A
- Output: 3A
- W: 2.37" x H: 2.68"



SCA SC-V-USB-01

Sea-Dog Dual USB-C Power Socket

- Dual USB-C power socket charges two devices simultaneously
- Blue LED display
- Injection molded nylon
- Input 8-32V, total output 8A is split 4A per side
- Protective dust cap
- Installs in 1-1/8" hole
- IP65 rating, CE and RoHS compliant
- Dia: 1-7/16" x Depth: 2-1/4"



SED 426522-1

Sea-Dog USB 3.0 & USB-C Power Socket

- USB 3.0 (Quick Charge) and USB-C (PD) socket charges two devices simultaneously
- Total output 6A; 3A per side when split
- Protective dust cap covers ports when not in use
- Installs in 1-1/8" hole
- Input: 8-32V
- IP65 rating, CE and RoHS compliant
- Dia: 1-7/16" x 1-1/2"



SED 426510-1

Sea-Dog USB 3.0 & USB-C Power Sockets

- USB 3.0 (Quick Charge) and USB-C (PD) socket charges two devices simultaneously
- Total output 6A; 3A per side when split
- Protective dust cap covers ports when not in use
- Installation requires drilling 3/16" hole for wire
- Input 8-32V
- IP65 rating, CE and RoHS compliant
- Dia: 1-7/16" x 1-1/2"



SED 426531-1	Square, 1-15/16" x D: 3/4"
SED 426535-1	Oval, L: 2-3/8" x H: 1-15/16" x D: 3/4"

Sea-Dog USB 3.0 & USB-C Power Socket with Voltmeter



- USB 3.0 (Quick Charge) and USB-C (PD) socket charges two devices simultaneously
- Total output 6A; 3A per side when split
- LED screen displays voltage status up to 14.6V
- Protective dust cap covers ports when not in use
- Installs in 1-1/8" hole
- Input: 8-32V
- IP65 rating, RoHS compliant
- Dia: 1-7/16" x 1-1/2"

SED 426511-1

Ancor Cable Ties



- Made from pure nylon
- Impervious to salt, chemical solvents, and acids

Part #	L	Colour	Dia. to	Tensile lbs	Qty
ANC 199200	4"	Natural	13/16"	18	25
ANC 199202	4"	Black	13/16"	18	25
ANC 199246	6"	Natural	1-3/8"	30	25
ANC 199248	6"	Black	1-3/8"	30	25
ANC 199204	8"	Natural	2-3/16"	75	25
ANC 199206	8"	Black	2-3/16"	75	25
ANC 199208	11"	Natural	3"	75	25
ANC 199210	11"	Black	3"	75	25
ANC 199212	14"	Natural	4"	75	25
ANC 199214	14"	Black	4"	75	25
ANC 199259	15"	Black	4"	120	25

FTZ Cable Ties



- Nylon construction in natural or UV black
- 100/pkg

Part #	L	Colour	W	Tensile lbs
FTZ 93110	4"	Natural	.10"	18
FTZ 93210	4"	Black	.10"	18
FTZ 93120	5.7"	Natural	.14"	40
FTZ 93220	5.7"	Black	.14"	40
FTZ 93130	8"	Natural	.19"	50
FTZ 93230	8"	Black	.19"	50
FTZ 93150	11.8"	Natural	.19"	50
FTZ 93250	11.8"	Black	.19"	50
FTZ 93160	14.6"	Natural	.19"	50
FTZ 93260	14.6"	Black	.19"	50
FTZ 93270	14.5"	Black	.30"	120

Vertex Cable Ties



- Nylon construction
- Operating temp: up to 85°C
- 100/pkg

Part #	L	Colour	Tensile lbs
VER 81318	4"	Black	18
VER 81322	4"	Black	40
VER 81330	6"	Black	40
VER 81338	8"	Black	50
VER 81342	11"	Black	50
VER 81789	11"	Black	120
VER 81346	14"	Black	50
VER 81350	15"	Black	120

Pico Fluorescent Standard Cable Ties



- Length: 7.5". Width: .190"
- Loop tensile strength: 50 lbs
- Packs of 25

PIC 7066N3-PK Neon green
PIC 7066N4-PK Neon orange
PIC 7066N7-PK Neon yellow
PIC 7066N9-PK Neon pink

Pico Cable Ties



- Pico standard cable ties
- U.V. resistant nylon
- CSA Approved
- Temp Rating: -40°F to 185°F

White

Part #	L	W	Tensile lbs	Qty
PIC 7063-C	4"	.085"	18 lbs	100
PIC 7063-PK	4"	.085"	18 lbs	25
PIC 7065-C	5.8"	.135"	30 lbs	100
PIC 7065-PK	5.8"	.135"	30 lbs	25
PIC 7065-M	5.8"	.135"	30 lbs	1000
PIC 7066-C	7.6"	.190"	50 lbs	100
PIC 7066-PK	7.6"	.190"	50 lbs	25
PIC 7066-M	7.6"	.190"	50 lbs	1000
PIC 7066L-PK	8"	.115"	40 lbs	25
PIC 7066L-C	8"	.115"	40 lbs	100
PIC 7067-C	11.1"	.190"	50 lbs	100
PIC 7067-PK	11.1"	.190"	50 lbs	25
PIC 7068-C	14.6"	.190"	50 lbs	100
PIC 7068-PK	14.6"	.190"	50 lbs	25

Black

Part #	L	W	Tensile lbs	Qty
PIC 7063-0-PK	4"	.085"	18 lbs	25
PIC 7063-0-C	4"	.085"	18 lbs	100
PIC 7065-0-PK	5.8"	.135"	30 lbs	25
PIC 7065-0-C	5.8"	.135"	30 lbs	100
PIC 7066-0-PK	7.6"	.190"	50 lbs	25
PIC 7066-0-C	7.6"	.190"	50 lbs	100
PIC 7066-0-M	7.6"	.190"	50 lbs	1000
PIC 7066L-0-C	8"	.115"	40 lbs	100
PIC 7066L-0-PK	8"	.115"	40 lbs	25
PIC 7067-0-PK	11.1"	.190"	50 lbs	25
PIC 7067-0-C	11.1"	.190"	50 lbs	100
PIC 7067-0-M	11.1"	.190"	50 lbs	1000
PIC 7068-0-PK	14.6"	.178"	50 lbs	25
PIC 7068-0-C	14.6"	.178"	50 lbs	100
PIC 7068-0-M	14.6"	.190"	50 lbs	1000

Natural

Part #	L	W	Tensile lbs	Qty
PIC 7069-PK	25.2"	.310	120 lbs	25

Pico Heavy Duty Cable Ties



Part #	L	W	Tensile lbs	Qty
White				
PIC 7068HD-C	15"	.310"	120 lbs	100
PIC 7068HD-PK	15"	.310"	120 lbs	25
Black				
PIC 7068HD-0-C	15"	.310"	120 lbs	100

Ancor Self Cutting Cable Ties

- Integrated self-cutting blade, provides a quick, flush cut
- Made from pure nylon
- 50 lb tensile strength



Part #	L	Colour	Qty
ANC 199334 **	4"	Natural	500
ANC 199336	4"	Black	50
ANC 199337	4"	Black	500
ANC 199339 **	6"	Natural	50
ANC 199340 **	6"	Natural	500
ANC 199342	6"	Black	50
ANC 199343	6"	Black	500
ANC 199274 **	8"	Natural	20
ANC 199275 **	8"	Natural	50
ANC 199276	8"	Black	20
ANC 199277	8"	Black	50
ANC 199264	8"	Black	500
ANC 199278 **	11"	Natural	20
ANC 199279 **	11"	Natural	50
ANC 199280 **	11"	Black	20
ANC 199281	11"	Black	50
ANC 199265	11"	Black	500
ANC 199282 **	14"	Natural	20
ANC 199283 **	14"	Natural	50
ANC 199284	14"	Black	20
ANC 199285	14"	Black	50
ANC 199266	14"	Black	500

** While Stock Lasts

Ancor HD Self-Cutting Cable Ties

- Made from pure nylon
- Simply lock and twist to finish the job
- Integrated stainless steel blade leaves a clean flush cut
- 120 lb tensile strength



Part #	L	Colour	Qty
ANC 199318 **	15"	Black	20
ANC 199320 **	15"	Natural	20
ANC 199321 **	15"	Natural	100
ANC 199322 **	17"	Black	10
ANC 199323 **	17"	Natural	10

** While Stock Lasts

Ancor Cable Tie Assortment Pack



- Black, blue, green, red, white, yellow
- Length: 8"
- 24 pieces

ANC 199224

Sea-Dog Cable Tie - Mixed Kit



Black UV stabilized nylon In 4", 5-5/8", 8-1/2" and 10-1/2" sizes. Contains 25 of each.

SED 427290-1

Ancor Self-Cutting Mounting Cable Ties



- Made from pure nylon
- Simply lock and twist to finish the job, with no need for additional tools
- Integrated stainless steel blade leaves a clean flush cut
- 50 lb tensile strength

Part #	L	Colour	Qty
ANC 199300 **	8"	Black	20
ANC 199302 **	8"	Black	500
ANC 199309 **	8"	Natural	20
ANC 199310 **	8"	Natural	50
ANC 199303 **	11"	Black	20
ANC 199304 **	11"	Black	50
ANC 199312 **	11"	Natural	20
ANC 199313 **	11"	Natural	50
ANC 199306 **	14"	Black	20
ANC 199307 **	14"	Black	50
ANC 199315 **	14"	Natural	20
ANC 199316 **	14"	Natural	50

** While Stock Lasts

Ancor Mounting Cable Ties



- #10 fastener except, heavy duty uses 1/4"

Part #	L	Colour	Dia. to	Tensile lbs	Qty
ANC 199250	6"	Natural	1-3/8"	30	25
ANC 199252	6"	Black	1-3/8"	30	25
ANC 199226	8"	Natural	2"	50	25
ANC 199228	8"	Black	2"	50	25
ANC 199230	14"	Natural	4"	50	25
ANC 199257	14"	Black	4"	50	25
ANC 199258	14"	Black	4"	50	100

FTZ Mounting Head Cable Ties



- Nylon construction in natural or UV black
- 100/pkg

Part #	L	Colour	W	Tensile lbs
FTZ 93320	5.9"	Natural	.14"	40
FTZ 93420	5.9"	Black	.14"	40

Vertex Nylon Mounting Cable Ties



- Nylon construction
- Operating temp: up to 85°C
- 100/pkg

Part #	L	Colour	Tensile lbs
VER 81765	8"	Black	50
VER 81767	11"	Black	50

Pico Mounting Tab Cable Ties



White

Part #	L	W	Tensile lbs	Mount	Qty
PIC 7071-C	5.8"	.135"	30	# 8	100
PIC 7071-PK	5.8"	.135"	30	# 8	25
PIC 7072-C	8"	.190"	50	#10	100
PIC 7072-PK	8"	.190"	50	#10	25
PIC 7075-C	11.5"	.190"	50	#10	100
PIC 7075-PK	11.5"	.190"	50	#10	25
PIC 7076-C	14.5"	.190"	50	#10	100
PIC 7076-PK	14.5"	.190"	50.	#10	25
Heavy Duty					
PIC 7077-PK	15.7"	.310"	120	1/4"	25
PIC 7077K-36	15.7"	.310"	120	1/4"	100

Black

Part #	L	W	Tensile lbs	Mount	Qty
PIC 7071-0-C	5.8"	.135"	30	# 8	100
PIC 7071-0-PK	5.8"	.135"	30	# 8	25
PIC 7072-0-C	8"	.190"	50	#10	100
PIC 7072-0-PK	8"	.190"	50	#10	25
PIC 7075-0-PK	11.5"	.190"	50	#10	25
PIC 7075-0-C	11.5"	.190"	50	#10	100
PIC 7076-0-PK	14.5"	.190"	50.	#10	25
PIC 7077-0-PK	15.7"	.310"	120	1/4"	25

Pico Clamp Style Cable Ties



- Clamp tie has triangular shaped tabs extending beneath the head, allowing for optimal surface contact and complete circumferential compression to 360 degrees
- Recommended for soft rubber hose applications including fuel, water and air vacuum lines
- UV black cable ties are heat stabilized

PIC 7168-0-C 7.5" Black, 100/pkg

Ancor Low Profile/Hose Cable Ties





- Reduced head height and contour design conforms to the shape of the wire bundle or hose
- Round design and side tail entry creates a round shape optimal for hoses
- Trimmed tail retracts into cavity leaving a clean, low profile installation
- Tamper-proof pawl is inaccessible after installation
- 50 lb tensile strength
- 20/pkg

Part #	L	Colour
ANC 199324	8"	Black
ANC 199328	11"	Black

Pico Low Profile Cable Tie Clamps



- Reduced head height to standard ties
- Flexible head design for contoured wrapping

PIC 7176-PK 7.5" Natural, 25/pkg
PIC 7176-0-PK 7.5" Black, 25/pkg

Ancor Cable Tie Mounts



- Made from pure virgin nylon 6/6
- Impervious to salt, chemical solvents, and acids
- Screw mount

Part #	Screw Size	Qty/Pkg
ANC 199231	#8	25
ANC 199232	#8	100
ANC 199262	#10	25

Pico Cable Tie Mounts



- Fits Pico cable ties 7063 through 7079

Part #	Mount	Qty	Colour
PIC 7083-34	1/4"	25	Natural
PIC 7083-0-34	1/4"	25	Black
PIC 7083-0-36	1/4"	100	Black
PIC 7084-0-34	#6	25	Black
PIC 7084-0-36	#6	100	Black
PIC 7183-0-36	#8	100	Black
PIC 7183-0-39	#8	1000	Black
PIC 7183-6-34	#8	25	Natural
PIC 7183-6-36	#8	100	Natural
PIC 7183-6-39	#8	1000	Natural

Pico Adhesive Cable Tie Mounts



- Platform with pressure sensitive adhesive backing
- Use with adhesive and screw or adhesive only
- Accommodates cable ties from 4 directions

PIC 7081-C 100/pkg
PIC 7081-PK 25/pkg

Vertex Cable Tie Mounts

- UL approved nylon
- Maximum cable tie width 9mm saddle style, 10mm adhesive style
- Use #10 screws

Part #	Qty	Colour	Style
VER 81408	25	Black	Saddle
VER 81409	50	Black	Saddle
VER 81410	100	Black	Saddle
VER 81412	25	Natural	Saddle
VER 81413	50	Natural	Saddle
VER 81414	100	Natural	Saddle
VER 81416	25	Black	Adhesive
VER 81417	50	Black	Adhesive
VER 81418	100	Black	Adhesive
VER 81420	25	Natural	Adhesive
VER 81421	50	Natural	Adhesive
VER 81422	100	Natural	Adhesive



Saddle



Adhesive

Ancor Cable Nylon Clamps



- Made from nylon for maximum strength
- Resistant to solvents, acids and moisture
- Has unique screw hole to speed up installation
- Black is UV resistant and recommended for outdoor use

Part #	Dia.	Colour	Qty
ANC 401122	1/8"	Natural	25
ANC 401182	3/16"	Natural	25
ANC 401252	1/4"	Natural	25
ANC 401255	1/4"	Natural	100
ANC 402252	1/4"	Black	25
ANC 401312	5/16"	Natural	25
ANC 401372	3/8"	Natural	25
ANC 402372	3/8"	Black	25
ANC 401375	3/8"	Natural	100
ANC 401502	1/2"	Natural	25
ANC 402502	1/2"	Black	25
ANC 401622	5/8"	Natural	25
ANC 401752	3/4"	Natural	25
ANC 402752	3/4"	Black	25
ANC 401892	1"	Natural	25
ANC 401912	1-1/4"	Natural	25
ANC 401932	1-1/2"	Natural	25
ANC 400000	1/8"-1/2"	Assorted	54

Ancor Stainless Steel Insulated Clamps



- 304 Stainless steel for corrosion resistance
- Rubber insulators are temperature, water, fuel, oil, and acid resistant
- Temp rating -40°C to 149°C
- A.B.Y.C. approved

Part #	Dia.	Screw	Qty
ANC 403182	3/16"	8	10
ANC 403252	1/4"	8	10
ANC 403312	5/16"	8	10
ANC 403372	3/8"	8	10
ANC 403502	1/2"	10	10
ANC 403562	9/16"	10	10
ANC 403622	5/8"	10	10
ANC 403752	3/4"	10	10
ANC 403872	7/8"	10	10
ANC 403892	1"	10	10
ANC 403902	1-1/4"	10	10
ANC 404152	1-1/2"	10	10
ANC 404172	1-3/4"	10	10
ANC 404202	2"	10	10
ANC 404252	2-1/2"	10	10
ANC 404302	3"	10	10

Pico Rubber Insulated Clamps

- Flexible neoprene cushion holds lines firmly while protecting them from shock, abrasion and vibration
- Aluminum. 1/2" metal width
- 1/4" mount hole



Part #	Size	Qty
PIC 7314-BP	1/4"	2
PIC 7314-C	1/4"	100
PIC 7314-PK	1/4"	20
PIC 7315-BP	3/8"	2
PIC 7315-C	3/8"	100
PIC 7315-PK	3/8"	20
PIC 7316-BP	1/2"	2
PIC 7316-C	1/2"	100
PIC 7316-PK	1/2"	20
PIC 7317-C	5/8"	100
PIC 7317-PK	5/8"	20
PIC 7318-C	3/4"	100
PIC 7318-PK	3/4"	20
PIC 7318-12	3/4"	2
PIC 7319-C	7/8"	100
PIC 7319-PK	7/8"	17
PIC 7320-C	1"	100
PIC 7320-PK	1"	13
PIC 7321-C	1-1/8	100
PIC 7321-PK	1-1/8"	10
PIC 7322-C	1-1/4"	100
PIC 7322-PK	1-1/4"	10
PIC 7323-C	1-3/8"	100
PIC 7323-PK	1-3/8"	7
PIC 7324-C	1-1/2"	100
PIC 7324-PK	1-1/2"	5
PIC 7325-C	1-5/8"	100
PIC 7325-PK	1-5/8"	5
PIC 7326-C	1-3/4"	100
PIC 7326-PK	1-3/4"	5
PIC 7327-C	2"	100
PIC 7327-PK	2"	5
PIC 7328-C	2-1/2"	100
PIC 7328-PK	2-1/2"	3

Vertex Stainless Steel Cushion Clamps

- Stainless steel with rubber cushion
- Interior edges are radiused to protect cable insulation
- 10 per package

VER 81423	1/4"
VER 81425	5/16"
VER 81427	3/8"
VER 81429	1/2"
VER 81431	5/8"
VER 81433	3/4"
VER 82010	7/8"
VER 81435	1"
VER 81437	1-1/4"



Pico Light Duty Nylon Clamps



- Width: .375"
- Thickness: .050"
- Mounting Hole: .203"

Part #	Diameter		Qty.
	Max.	Min.	
PIC 7118LN-BP	1/8"	.115"	18
PIC 7119LN-BP	3/16"	.172"	15
PIC 7120LN-BP	1/4"	.234"	14
PIC 7121LN-BP	5/16"	.297"	14
PIC 7122LN-BP	3/8"	.359"	14
PIC 7123LN-BP	7/16"	.422"	14
PIC 7124LN-BP	1/2"	.484"	14

Pico Heavy Duty Nylon Clamps



- Width: .500"
- Thickness: .060"
- Mounting Hole: .203"

Part #	Diameter		Qty.
	Max.	Min.	
PIC 7118HN-C	1/8"	.115"	100
PIC 7119HN-C	3/16"	.172"	100
PIC 7120HN-C	1/4"	.234"	100
PIC 7121HN-C	5/16"	.297"	100
PIC 7122HN-C	3/8"	.359"	100
PIC 7123HN-C	7/16"	.422"	100
PIC 7124HN-C	1/2"	.484"	100
PIC 7125HN-C	9/16"	.547"	100
PIC 7126HN-C	5/8"	.609"	100
PIC 7126HN-BP	5/8"	.609"	6
PIC 7128HN-C	3/4"	.734"	100
PIC 7128HN-BP	3/4"	.734"	6
PIC 7129HN-C	7/8"	.859"	100
PIC 7129HN-BP	7/8"	.859"	5
PIC 7130HN-BP	1"	.984"	5
PIC 7130HN-C	1"	.984"	100

Ancor Spiral Wrap



- High-quality black spiral wrap
- UV stable

Part #	Dia	Length
ANC 452251	1/4"	10'
ANC 452381	3/8"	10'
ANC 452501	1/2"	10'
ANC 452505	1/2"	100'
ANC 452751	3/4"	10'

Ancor Split Loom



- Black loom protects wires against abrasion

Part #	Size	Length
ANC 453381	3/8"	10'
ANC 453501	1/2"	10'
ANC 453751	3/4"	10'

Pico Spiral Wrap



- Clear polyethylene expandable spiral cut wrap
- Retains its strength under repeated flexing/binding
- Ends can be secured with tie wraps
- 100' spools

PIC 5120-C 1/4"
PIC 5121-C 3/8"
PIC 5122-C 1/2"
PIC 5123-C * 3/4"

* Special Order - may have stock

Vertex Self Extinguishing Split Loom



- Rated UL 94-V2 (flame test)

VER 81741 1/4", 50' reel
VER 81742 1/4", 150' reel
VER 81743 1/4", 250' reel
VER 81745 3/8", 50' reel
VER 81746 3/8", 150' reel
VER 81747 3/8", 250' reel
VER 81749 1/2", 50' reel
VER 81750 1/2", 150' reel
VER 81751 1/2", 250' reel
VER 81753 5/8", 50' reel
VER 81754 5/8", 150' reel
VER 81755 5/8", 250' reel
VER 81757 3/4", 50' reel
VER 81759 1", 50' reel
VER 81761 1-1/4", 50' reel
VER 81763 1-1/2", 50' reel

Pico Convoluted Tubing

- Flexible black polyethylene tubing
- Excellent protection against abrasion and crushing
- Pre-split for easy insertion of wires, yet the split remains basically closed when the tubing is bent or twisted

PIC 5139-C 5/8" x 100'
PIC 5140-C 1/4" x 100'
PIC 5141-B 3/8" x 50'
PIC 5141-C 3/8" x 100'
PIC 5142-C 1/2" x 100'
PIC 5143-C 3/4" x 100'
PIC 5144-C 1" x 100'



Trident Marine Wire Harness Conduit Hose



- Split corrugated polypropylene
- For multi-wire harness, cable, & hose routing
- Fire retardant / self-extinguishing
- Meets UL 94 V-2 as per ABYC E-11.16.4.1.9
- Sold by the foot, 100' per box

TRI 128-2" 2"

Trident Marine Stern Flex Kit



- Polyethylene hose reverse threads into flange for complete protection of hoses, cables, and electric lines
- Moisture, dust, and UV-resistant
- Kit includes 3-1/2" threaded flange and 4' length of 2" dia. Stern-Flex #129 rigging hose

TRI TFK-4

Techflex Conduit Tubing

Techflex is a globally recognized specialist in the engineering and manufacture of the most advanced sleeving solutions and related products for the management and protection of wires, cables and hoses.

- Fast installation
- Long length capability
- Extreme flexibility
- Reduced volume
- Light weight
- Quick dissipation of moisture
- Unbeatable great looks

Techflex F6



- A unique split, 10 mil PET semi-rigid braided construction makes it the ideal solution for situations where ease of installation is of primary importance
- The lateral split (25% edge overlap) allows the tube to open up to accommodate a wide variety of bundling requirements, and the semi-rigid braid configuration simply closes around the entire installation without the need for any additional fasteners (velcro, tape, etc.)
- F6 will bend to a tight radius without distorting or splitting open and, unlike full rigid tubing, will not impair or affect the flexibility of harnesses
- Allows for the addition or removal of wires without disassembly

TFX F6N0.25BK	1/4" x 100'
TFX F6N0.25BK-200'	1/4" x 200'
TFX F6N0.38BK-150'	3/8" x 150'
TFX F6N0.50BK	1/2" x 75'
TFX F6N0.50BK-150'	1/2" x 150'
TFX F6N0.75BK	3/4" x 50'
TFX F6N1.00BK	1" x 50'
TFX F6N1.50BK	1-1/2" x 25'
TFX F6N2.00BK	2" x 25'
TFX F6N2.00BK-50	2" x 50'

Techflex Installation Tools

This simple tool makes installing long lengths of F6 sleeving a breeze. Just insert your bundle of wires into the shank of the tool and slide it along the split in the sleeving.



TFX INN0.25OR	1/4" sleeve
TFX INN0.50OR	1/2" sleeve
TFX INN0.75OR	3/4" sleeve
TFX INN1.00OR	1" sleeve
TFX INN1.50OR	1-1/2" sleeve



Techflex Heavy Wall (HW)



- HW is commonly used in industrial and marine applications where extreme abrasion protection is critical
- The durability of HW makes it ideal for protecting hoses and cables that have constant contact with rough and abrasive surfaces
- HW is the perfect solution for use on chains and cables to protect painted or laminated surfaces from scuffing and wear

TFX HWN0.38BK	3/16" - 3/4" x 50'
TFX HWN0.63BK	5/16" - 7/8" x 50'
TFX HWN1.00BK	1/2" - 1-1/2" x 50'
TFX HWN1.50BK	3/4" - 2" x 25'
TFX HWN2.00BK-25	1-1/2 - 3" x 25'
TFX HWN2.00BK	1-1/2 - 3" x 50'

Techflex FLEXO PET (PT)



- The unique braided construction and wide expandability allows quick and easy installation over large connectors and long runs
- PT is braided from 10 mil polyethylene terepthalate (PET) monofilament yarns
- The material has a wide operating temperature range, is resistant to chemical degradation, UV radiation, and abrasion
- The sleeving cuts easily and cleanly with a hot knife

TFX PTN0.25BK	1/8" - 7/16" x 100'
TFX PTN0.50BK	1/4" - 3/4" x 100'
TFX PTN0.75BK	1/2" - 1-1/4" x 100'
TFX PTN1.25BK	3/4" - 1-3/4" x 50'
TFX PTN1.50BK	1" - 2-1/8" x 50'
TFX PTN2.00BK	1-1/2 - 3-1/2" x 50'

Techflex Clean Cut



- Same specifications as the PET sleeving with the advantage of being able to cut the material with ordinary scissors and still maintain an extraordinarily fray-resistant end without the addition of chemical binders or adhesives
- Clean Cut's fray resistant properties allows frequent expansion of the cut end without unraveling
- When cut with a hot knife, Clean Cut produces a clean, smooth and virtually frayless end
- Clean Cut is braided for maximum coverage while still allowing enough expansion for easy installation

TFX CCP0.50BK	1/4"-3/4" x 100'
TFX CCP0.75BK	5/8"-1" x 75'
TFX CCP1.00BK	3/4"-1-3/16" x 50'
TFX CCP1.25BK	1"-1-1/2" x 50'
TFX CCP1.50BK	1-1/4"-2" x 50'

Techflex Display Rack

This display/dispenser rack allows easy control of sleeving inventories and provides a controlled system of neatly dispensing directly from the spools. Drop-in replacement for standard spools.

- Wall or counter mountable
- L: 23-1/2" x H: 6" x D: 10"

TFX DSN0.00BK



Shown with product (not included)

► *Also See* Hot Knife pg 14-011

Battery Rating Terminology

CCA (Cold Cranking Amperes) CCA is the most popular industry rating and is a measurement of the current a fully charged battery can deliver for 30 seconds and maintain a voltage of 7.2 volts (12 volt battery) at a temperature of -18°C. CCA's are important, but they are not the best measure for warmer climates. They are the ratings used by the battery industry to define a new battery's ability to start an engine in extremely cold temperatures.

MCA (Marine Cranking Amperes) Similar to CCA, MCA is a measurement of the current a fully charged battery can deliver for 30 seconds and maintain a voltage of 7.2 volts (12 volt battery) at a temperature of 0°C. It is a more relevant method for rating batteries in warmer or marine conditions where -18°C (Freezing) temperatures are rarely encountered. MCA ratings are 20 – 25% higher than CCA ratings.

CA (Cranking Amperes) Some manufacturers may rate the battery according to a CA (Cranking Amps) standard. This test is conducted at the same temperature as the MCA rating and should not be confused with CCA (Cold Cranking Amps). When comparing battery ratings it is important to compare like for like. Always ensure the CCA rating is compared against CCA, CA rating against CA and MCA rating against MCA.

RC (Reserve Capacity) RC refers to the length of time in minutes, that a battery at 25°C can deliver a current of 25 Amps until the voltage drops to 10.50V (12 volt battery). 25 Amps represents a typical electrical load on a car under normal running conditions. RC provides an indication of the time that a vehicle with a normal electrical load will run for if the charging system (alternator) fails.

Ah (Ampere-Hour) Ah rate refers to the battery's storage capacity and is the current a fully charged battery will deliver over a specific period before the voltage falls to 10.50V at 25°C. This capacity decreases as the rate of discharge increases. For example a battery rated at 120Ah @ 20hr will deliver 6 Amps for 20 hours. If the same battery was discharged at 20 Amps instead of 6 Amps, the battery would only last approximately 5 hours.

► *Note*

Charge voltage compensation for AGM batteries

The low internal resistance of the AGM battery allows for very high charge acceptance. These batteries also do not require the charge current to be artificially limited, as long as constant voltage (CV) charging is used. This characteristic helps the battery reach a very high (>85%) state of charge (SOC) in less than one hour. Modern, three step battery chargers accomplish this during the absorption phase of the charging process and downshift to a lower float voltage when the charging current decreases to 2 to 3 % of the battery's capacity.

A rudimentary shop type charger does not generally have these features and is not recommended for charging any AGM batteries.

LIFELINE ...the heart of your system®

Superior Construction
Aircraft class cell construction that are entirely built by hand with quality materials.

Rapid Recharge
Due to our low internal resistance, Lifeline Batteries can be charged up to 20% faster than conventional batteries.

Maintenance Free
With proper charging, Lifeline Batteries require no maintenance.

Solid Warranty
Lifeline Batteries offers one of the best warranties in the industry with our 5-year pro-rate and a one-year free replacement

Lifeline Premium Sealed Marine Batteries


GPL-4CT


GPL-6CT


GPL-24T


GPL-27T


GPL-31T


GPL-4D


GPL-8DL

The battery electrolyte is absorbed in a glass mat (AGM) separator in each cell. These cells have a pressure relief valve that is designed to keep positive pressure in each cell. These AGM marine batteries have every square inch of positive and negative plate material tightly packed and compressed with the AGM and supported by the walls of each cell. With this type of construction, Lifeline offers much lower internal resistance ... greater starting power (particularly in cold temperature) ... and a much higher degree of protection against shock and vibration than the old flooded type.


GPL-2700T


GPL-3100T

Part #	Series	Volts	CCA @ 0°F	MCA @ 32°F	Amp Hour Capacity C20	RC @ 25 Amps	Weight lbs	Dimensions L x W x H"
Marine Starting Batteries								
LLB GPL-2700T	27	12	745	900	95	-	63	12.03" x 6.6" x 9.25"
LLB GPL-3100T	31	12	810	1120	100	-	67	12.93" x 6.74" x 9.51"
Deep Cycle Batteries								
LLB GPL-24T	24	12	550	600	80	149	56	11.13" x 6.6" x 9.25"
LLB GPL-27T	27	12	575	715	100	186	65	13.09" x 6.77" x 9.25"
LLB GPL-31T	31	12	600	750	105	195	69	12.90" x 6.75" x 9.25"
LLB GPL-4DL	4D	12	1100	1360	210	390	135	20.75" x 8.71" x 10.09"
LLB GPL-8DL	8D	12	1350	1675	255	475	162	20.72" x 10.94" x 9.88"
LLB GPL-4CT	GC	6	750	925	220	492	66	10.27" x 7.12" x 11.54"
LLB GPL-6CT	GC Tall	6	925	1028	300	692	90	10.28" x 7.06" x 13.02"

Pow-R-Surge Marine Starting & Deep Cycle Batteries

NOTE: All dimensions include the lip for handles and height to top of posts

- Special design features ensure no-hassle performance
- Starting batteries contain a calcium lead alloy which maximizes starting power and provides extended off season storage periods
- Exclusive molded in dual terminals provide an easy connection with post or corrosion resistant stainless steel stud

D.G.



24M



DP24

Part #	Series	Volts	CCA @ 0°F	MCA @ 32°	Amp Hour Capacity C20	RC @ 25 Amps	Weight lbs	Dimensions L x W x H
Marine Starting Batteries *24 Series - 2 year warranty*								
POW 24M-5	24	12	550	675	35	90	37	10-3/4" x 6-3/4" x 9-3/8"
POW 24M-7	24	12	800	1000	60	130	45	10-3/4" x 6-3/4" x 9-3/8"
Dual Purpose Batteries *24, 27, & 31 Series - 12 month warranty*								
POW DP24	24	12	550	675	65	120	43.5	10-3/4" x 6-3/4" x 9-3/8"
POW DP27	27	12	650	800	80	150	51	12-1/2" x 6-3/4" x 9-3/8"
POW DP31DT	31	12	700	860	100	185	57	13" x 6-3/4" x 9-1/2"

Pow-R-Surge Commercial Duty Batteries

- Rugged vibration resistant construction



12 Month Warranty

D.G.

Part #	Series	Volts	CCA @ 0°F	MCA @32°F	Amp Hour Capacity C20	RC @ 25 Amps	Weight lbs	Dimensions L x W x H
POW 904D	4D	12	1050	1290	135	290	97	20-3/4" x 8-1/2" x 10-1/8"
POW 708D	8D	12	1100	1355	165	325	116	20-3/4" x 11" x 10"
POW 908DFT	8D	12	1425	1755	185	440	127	20-3/4" x 11" x 10"

Pow-R-Surge "Golf Cart" Deep Cycle Battery

- Rugged vibration resistant construction



12 Month Warranty

D.G.

Part #	Series	Volts	Amp Hour Capacity C20	RC @ 25 Amps	Weight lbs	Dimensions L x W x H
POW GC15	GC2	6	230	448	64	10-1/4" x 7-1/8" x 11-1/4"

Pow-R-Surge AGM Batteries

- Premium starting & cycling power - totally sealed, no gassing, no adding water & safer
- 2x cycle life extends performance and life
- Highly efficient recharging (30% faster than flooded)
- Delivers high performance under cold conditions
- Tightly compressed structure safeguards against intense vibration
- Spill proof construction protects vehicle and electronic equipment



3 Month Warranty

D.G.

Part #	Series	Volts	CCA @ 0°F	MCA @32°F	Amp Hour Capacity C20	RC @ 25 Amps	Weight lbs	Dimensions L x W x H
POW 8AGC2	GC2	6	680	900	190	380	68	10-1/4" x 7-1/8" x 10-7/8"

Part #	Series	Volts	CCA @0°F	MCA @32°F	Amp Hour Capacity C20	RC@ 25 Amps	Weight lbs	Dimensions L x W x H
POW 8A24M	24	12	525	735	79	145	52	10-7/8" x 6-3/4" x 9-7/8"
POW 8A27M	27	12	580	900	92	185	61.5	12-3/4" x 6-3/4" x 9-3/8"
POW 8A31DT	31	12	800	1000	105	210	67.5	13" x 6-3/4" x 9-3/8"
POW 8A4D *	4D	12	1110	1420	198	413	133.5	20-3/4" x 8-1/2" x 10"
POW 8A8D *	8D	12	1450	1800	245	517	163	20-3/4" x 11" x 10"

* Special Order

Victron Energy AGM Super Cycle Batteries



5 Year Warranty

With exceptional 100% depth of discharge (DoD) performance, the AGM Super Cycle battery has been tested to withstand at least three hundred 100% DoD cycles.

- The paste of the positive plates is less sensitive to softening, even in case of repeated 100% discharge of the battery, and new additives to the electrolyte reduce sulfation in case of deep discharge
- Additional advantage of the new chemistry is a slightly smaller size and less weight compared to Victron's usual standard deep cycle AGM batteries
- Lower internal resistance than Victron's standard deep cycle AGM batteries
- Recommended for applications where an occasional discharge to 100% DoD, or frequent discharge to 60-80% DoD is expected

Part #	Volts	CCA @0°F	MCA @32°F	Amp Hour Capacity C20	RC@ 25 Amps	Weight lbs	Dimensions L x W x H
VIC BAT412112081 **	12	550	690	125	220	72.8	13" x 6.73" x 8.43"
VIC BAT412117081 **	12	600	750	170	290	99.2	13.23" x 6.77" x 11.02"

** While Stock Lasts

Victron Energy AGM Super Cycle Batteries



5 Year Warranty

- Low self-discharge allows storage during long periods of time without recharge; the rate of self-discharge is less than 2% per month at 20°C (rate doubles for every increase in temperature by 10°C)
- Low internal resistance accepts very high charge and discharge rates
- High cyclic life capability; more than 500 cycles at 50% depth of discharge

Part #	Volts	CCA @0°F	MCA @32°F	Amp Hour Capacity C20	RC@ 25 Amps	Weight lbs	Dimensions L x W x H
VIC BAT412105164	12	1000	1250	115	200	77	15.37" x 4.33" x 11.53"
VIC BAT412151164	12	1500	1875	165	320	88	21.57" x 4.13" x 12.44"
VIC BAT412181164	12	1800	2250	200	400	132	21.49" x 4.92" x 12.71"

Victron Energy Deep Cycle AGM Batteries



5 Year Warranty

- Sealed VRLA (Valve Regulated Lead Acid) AGM batteries have a design life of 7-10 years at an average temperature of 20°C
- Very low internal resistance makes these batteries particularly suitable for high current discharge applications
- Low self-discharge allows storage during long periods of time without recharge; the rate of self-discharge is less than 2% per month at 20°C (rate doubles for every increase in temperature by 10°C)
- High cyclic life capability; 600 cycles at 50% discharge

Part #	Volts	CCA @0°F	MCA @32°F	Amp Hour Capacity C20	RC@ 25 Amps	Weight lbs	Dimensions L x W x H
VIC BAT412151084	12	600	750	165	220	103	19.09" x 6.77" x 9.45"
VIC BAT412124081	12	650	813	240	250	143	20.55" x 9.45" x 8.82"

Victron Energy Lithium NG LiFePO4 Batteries

NEW

Victron Energy's Lithium NG (Next Generation) lithium iron phosphate batteries incorporate significant enhancements. Able to be connected in series, parallel, or a combination of both to create battery banks for system voltages of 12V, 24V, or 48V. A maximum of 50 batteries can be used when configuring a bank with 12 or 24V batteries, while up to 25 batteries can be used with 48V batteries. This allows for a maximum energy storage capacity of 192 kWh with 12V batteries, up to 384 kWh with 24V batteries, and 128 kWh with 48V batteries.

- Batteries have an integrated balancing, temperature, and voltage control system (BTV) that must be connected to an external battery management system (BMS). The BTV monitors each individual battery cell, balances the cell voltages, and generates an alarm (BMS sold separately)
- BMS automatically manages all battery parameters and firmware updates. Monitoring and control can take place via VictronConnect, a GX communication centre, or the VRM Portal
- Low self-discharge rate is a maximum of 3% of the battery capacity per month
- IP65 protection
- Strap or bracket mounting make the installation easier, and ensure optimal securing against slipping and tipping

Part #	Volts	Peak Discharge Current	Nominal Capacity	Weight lbs	Dimensions L x W x H
VIC BAT512110620	12	200 A	100 Ah	19.84	7.76" x 6.3" x 9.25"
VIC BAT512115620	12	300 A	150 Ah	30.86	9.84" x 8.07" x 8.07"
VIC BAT512120620	12	400 A	200 Ah	41.89	13.43" x 6.3" x 9.25"
VIC BAT512130620	12	600 A	300 Ah	63.93	17.6" x 8.07" x 8.11"
VIC BAT524110620	24	200 A	100 Ah	41.89	13.43" x 6.3" x 9.25"
VIC BAT524120620	24	400 A	200 Ah	81.57	25.51" x 6.38" x 9.25"
VIC BAT524130620	24	600 A	300 Ah	114.64	33.11" x 8.07" x 8.11"
VIC BAT548110620 *	48	200 A	100 Ah	81.57	25.51" x 6.38" x 9.25"



* Special Order

Victron Energy smallBMS NG Battery Management System

NEW



All-in-one BMS for 12, 24, or 48V Victron Lithium NG batteries.

- Simple and cost effective alaternative to the VE.Bus BMS NG
- Includes Bluetooth Smart for wireless configuration, monitoring, and firmware updates via VictronConnect app
- Load disconnect, charge disconnect, and pre-alarm outputs
- Remote on/off terminal
- LED indicators: blue LED for Bluetooth status, and red LED for warnings and alarm errors
- Configurable discharge floor
- 8-70V
- Recommended fuse: .3A to 2.5A, dependent on connected devices
- IP20
- 4.17" x 1.65" x .91"

VIC BMS400100300

Victron Energy VE.Bus BMS NG Battery Management System

NEW



Designed to interface with and protect 12, 24, or 48V Victron Lithium NG batteries in systems that include a Victron VE.Bus interter or inverter/charger.

- Includes Bluetooth Smart for wireless configuration, monitoring, and firmware updates via VictronConnect app
- Load disconnect, charge disconnect, and pre-alarm outputs
- Remote on/off terminal
- LED indicators: blue LED for Bluetooth status, and red LED for warnings and alarm errors
- Communicates with VE.Bus products and remote devices such as GX devices, DMC panel, or a VE.Bus dongle
- Dedicated power output terminal for a GX device, and an auxiliary power input terminal
- 9-70V
- IP20
- .91" x 3.74" x 4.2"

VIC BMS300200300

RELiON Lithium Iron Phosphate Marine Batteries

RELiON's lithium iron phosphate batteries are a safer, super lightweight alternative to lead-acid. They offer ultra-fast charging and discharging, high efficiency, and longer life cycles - all with no maintenance.
All RELiON batteries use the safest and most stable components, including a LiFePO4 cathode and a built-in Battery Management System (BMS). The BMS ensures a long lifetime, safe handling, and high-accuracy State of Charge (SOC) calculations.



RB24V52

D.G.

Please refer to PDF document on our website or manufacturer directly for charging instructions.

Part #	Series	Volts	Peak Discharge Current	Nominal Capacity	RC @ 25 Amps	Weight lbs	Dimensions L x W x H"
REL RB80 **	27	12.8	160 A	80 Ah	192 min	24.9	12" x 6.6" x 8.2"
REL RB100 **	31	12.8	200 A	100 Ah	240 min	26.4	13" x 6.8" x 8.4"
REL RB24V52 **	31	25.6	100 A	52 Ah	125 min	29.1	13" x 6.8" x 8.4"

** While Stock Lasts

RELiON Dual Purpose Lithium Iron Phosphate Marine Battery

RELiON's RB100-HP is a deep-cycle lithium battery built for starting and cycling. The RB100-HP has increased peak amps for starting motors, electric start generators, and other high-amp-draw devices. It also doubles as a house battery. RELiON's RB100-HP is currently the only lithium starting battery that meets all requirements for use with approved Mercury Marine outboards.



RB100-HP

D.G.

Part #	Series	Volts	Peak Discharge Current	Nominal Capacity	RC @ 25 Amps	Weight lbs	Dimensions L x W x H"
REL RB100-HP **	31	12.8	800 A	100 Ah	240 min	29.8	13" x 6.8" x 8.4"

** While Stock Lasts

Lithium batteries are rated for Peak Discharge Current (20°C/68°F for 5-10 seconds), rather than cold cranking amps (0°C/32°F for 30 seconds), as they are not affected like other batteries in cold weather. On discharge (CCA/MCA side) both outputs are almost the same.


042333


042230


042204


042209


042211

Moeller Battery Boxes

- Non-corrosive high-strength polyethylene construction resists chemicals and rust
- Nominal 0.185" wall thickness
- Double-wall lid construction
- Mounting flanges on all four sides
- Scalloped cable entry/exit points on all four sides
- Captive hold down fasteners
- Complies to industry requirements and meets Coast Guard regulations (ABYC Reg E10)

Part #	Style	Exterior Dimensions Max. Battery Dimensions	Weight
MOE 042333	2 x STD	L: 17.38 x W: 13" x H: 11.25" L: 13.75" x W: 10.0" x H: 8.5"	5 lbs
MOE 042230	2 x GC2	L: 15.6" x W: 11.35" x H: 13" L: 14.6" x W: 10.5" x H: 13"	16 lbs
MOE 042204	4D	L: 23.63" x W: 12.50" x H: 14.13 " L: 20.5" xW: 9.25" x H: 9.5"	9 lbs
MOE 042209	8D	L: 24.5" x W: 14.5" x H: 14.5" L: 21" x W: 11.25" x H: 9.75"	10.6 lbs
MOE 042211	2 X 8D	L: 27.25" x W: 24.5" x H: 14" L: 24.25" x W: 21.25" x H: 9.55 "	17.4 lbs



9082-1



9065-1 / 9067-1

Attwood Battery Boxes

- Vented boxes
- Non-corrosive plastic
- Mounting hardware included.

ATT 9065-1
- 24-series, L: 11-1/8" x W: 7-3/4" x H: 10-1/8"

ATT 9067-1
- 27-series, L: 13-7/8" x W: 7-1/4" x H: 10-1/2"

ATT 9082-1
- 16-series, L: 8-1/4" x W: 5-1/2" x H: 7-7/8"



Attwood PowerGuard PRO Battery Box

- Fits both Group 24 and 27 batteries
- Upward facing vents let gases out while reducing water intake
- Engineered spill channels direct water away from batteries
- Entry panels on either side of box provide easy terminal access
- Snap-lock lid design
- Ergonomic handles for easy transportation
- Includes two removable battery spacer blocks
- Constructed of polypropylene composite
- Dimensions: L: 13-1/8" x W: 7" x H: 11" (interior) / L: 21" x W: 11-1/4" x H: 11-1/2" (outer)
- Max battery height without terminals: 9-5/16"

ATT 9070-7

Moeller Battery Boxes



- Vented boxes
- Non-corrosive plastic
- Mounting hardware included

MOE 042213
- 24-series:
- Exterior, L: 13.43" x W: 9.09" x H: 10.34"
- Max battery, L: 10.5" x W: 7" x H: 8.37"

MOE 042214
- 27/30/31-series:
- Exterior, L: 16.63" x W: 9.56" x H: 10.75"
- Max battery, L: 12.75" x W: 7" x H: 9"

Attwood Battery Trays



- Heavy-duty, non-corrosive black plastic
- Includes adjustable-height crossbar and two retaining bolts
- Meets ABYC Standard E-10 and U.S. Coast Guard requirements
- Install with #10 screws

ATT 9090-5 24-series, Inside dim. L: 10-5/8" x W: 6-3/4" x H: 8-3/4"
ATT 9091-5 27-series, Inside dim. L: 12-1/8" x W: 6-3/4" x H: 8-1/4"

T-H Marine Optima Battery Tray



- Designed to have the absolute smallest dimensions possible for mounting
- Eliminate 1-1/2" - 2" of space when mounting trays side-by-side
- Molded of acid proof polypropylene with stainless steel rod hold down
- Built for Optima batteries

THM NBH-31-SSC-OPT

T-H Marine Narrow Battery Trays



Polypropylene strap features positive locking quick disconnect buckle making battery changing quick and easy. Base mounts with four #10 pan head fasteners.

THM NBH-24P-DP 24-series, Inside dim. W: 7" x L: 10-5/8"
THM NBH-27P-DP 27-series, Inside dim. W: 7" x L: 12-1/2"
THM NBH-31P-DP 29/31-series, Inside dim. W: 7" x L: 13"

Moeller Battery Trays



- Meets NMMA specifications
- Molded high-strength plastic base
- Stainless steel hardware
- Uses 4 x #10 PH mounting screws (not included)

MOE 042215 24-series, Inside W: 6-3/4" x L: 10-1/4" x H: 8-1/4"
MOE 042216 29/31-series, Inside W: 7-7/16" x L: 13" x H: 10"

T-H Marine Battery Tray



- Meets NMMA specifications
- Molded high-strength plastic base
- Stainless steel hardware
- Uses 4 x #10 PH mounting screws (not included)

THM BHF-27S-DP 27-series, Inside dim. W: 6-7/8" x L: 11-5/16"

Moeller Battery Box Handle



Box NOT included

- Snaps easily onto the existing battery box carry handles
- Fits most 27 series boxes
- Allows for easy installation in confined areas
- Overall length: 15-1/2"

MOE 042235

Attwood Battery Box Straps



- Woven polypropylene strap
- For use with 9065, 9067 and 9082 battery boxes
- Display skin packed
- Kit includes mounting hardware & fasteners

ATT 9013-3 38"
ATT 9013-A3 54"

Epco Gator Tuff Battery Strap



Wide weather-resistant polypropylene webbing and rust-resistant metal hardware with stainless steel screws for mounting.

- 1" x 4'

EPC BS1

Epco Universal Strap



Woven 1-1/2" x 6' polypropylene strap with a quick clip connector, mounting hardware & fasteners.

EPC US6 each

Moeller Battery Box Strap



- Includes nylon strap, footman loops, and stainless steel screws

MOE 042217-10 39"

Sea-Dog Battery Box Straps and Brackets



- Made from woven polypropylene
- Plastic tie downs
- Strap is 1-9/16" wide

SED 415092-1 38"
SED 415094-1 54"

Sea-Dog Battery Box Strap and Brackets



- Made from woven polypropylene
- Chrome plated brass tie downs
- Strap is 1" wide

SED 415082-1 48"

ProMariner Battery Tester



- Test unit for battery chargers, battery level, and alternators
- LED read out

PRO 87710 ** 12V
** While Stock Lasts

Pico Battery Post Cleaner



Wire brushes quickly remove corrosion from battery posts and terminal clamps.

PIC 9033-11

Ancor Battery Post Cleaner



- High-impact construction
- Wide, easy grip
- Excellent for hard-to-reach batteries

ANC 700103

Ecomar Battery Equalizer



15 ml in each cell extends life of batteries up to 2 times. Cleans lead plates of over sulphation. Batteries will charge faster, hold a charge longer and give better performance. Perfect for extended storage, easier starts.

ECO 4826 500 ml

Rayovac Alkaline Batteries



- Non carded alkaline batteries
- Sold per pack

RAY AL9V-6J-PK 9 Volt, 6/pkg
RAY ALAA-8J-PK AA, 8/pkg
RAY ALAAA-8J-PK AAA, 8/pkg
RAY ALC-6J-PK C, 6/pkg
RAY ALD-6J-PK D, 6/pkg

Rayovac Alkaline Batteries



- Your longest lasting battery. Rayovac Maximum Alkaline batteries in traditional carded packs.

RAY 815-4T AA, 4/card
RAY 824-2 AAA, 2/card
RAY 824-4 AAA, 4/card
RAY A1604-1 9V, 1/card
RAY 814-2T C, 2/card

Rayovac Super Heavy Duty 6V Battery



- Zero added mercury and cadmium

RAY 1209 Spring

Star brite Liquid Electrical Tape



Waterproofs and protects electrical connections and prevents corrosion on wires and terminals. Fast drying. 100's of uses - bilge pumps, battery switches, terminals, and connections.

- 4 oz

STA 84104 Black

FTZ Wrap 'N Seal Tape

- Wrap 'N Seal silicone tape self fuses and cures in 24 hours to form a permanent moisture tight seal
- Has no adhesive lining leaving the application clean with no sticky residue
- Centre ridge acts as a guide when wrapping for a uniform and straight application
- Ideal for high temperature applications



FTZ 99200	White, 1" x 20'
FTZ 99201	Red, 1" x 20'
FTZ 99202	Black, 1" x 20'
FTZ 99207	Yellow, 1" x 20'

Rescue Tape



- Self-fusing
- 700 PSI tensile strength
- Insulates 8,000 volts per layer
- Withstands 500° F of heat
- Remains flexible to -85° F
- Creates a permanent airtight, watertight seal in seconds
- Never gets gummy or sticky like electrical or duct tape
- Has a long shelf life
- Resists fuels, oils, acids, solvents, salt water, road salt, UV rays



RTP RT12012BBL	1" x 12' Black
RTP RT12012BRE	1" x 12' Red
RTP RT12012BWH	1" x 12' White
RTP RT12012BCL	1" x 12' Clear
RTP RT12012BYE	1" x 12' Yellow
RTP RT12012BBU	1" x 12' Blue
RTP RT12012BGN	1" x 12' Green
RTP RT12012BOR	1" x 12' Orange
RTP RT303601	2" x 36' Black
RTP RT303603	2" x 36' White
RTP RT303604	2" x 36' Clear

RTP RTUSC24AS 24 Roll, assorted counter display

Pico Self Bonding Splicing Tape



Self-amalgamating, low voltage rubber tape. For use as primary insulation at no more than 600V. It easily conforms to irregular shapes and surfaces yielding a void free, electrically stable build-up. It is compatible with all extruded dielectric cable insulations.

PIC 3465-E 19mm (3/4") x 6.7m (22')

Pico Electrical Tape



- All weather PVC insulating tape
- 3/4" x 66'
- Black
- Package of 10

PIC 3466-0-RL

► *Also See* Tapes pg 06-012 to 013

3M Temflex Vinyl Tape

- Resists abrasion, moisture, alkalis, solvents, and acids
- Flame-retardant and helps inhibit the corrosion of electrical conductors
- UL Listed and CSA Certified "Insulating Tape"
- Compatible with rubber and synthetic splicing compounds
- 3/4" x 60'



THR 165BK4A	Black
THR 165BL4A	Blue
THR 165GR4A	Green
THR 165OR4A	Orange
THR 165RD4A	Red
THR 165WH4A	White
THR 165YL4A	Yellow

Shurtape Electrical Tape

NEW



- Insulating tape up to 600V
- Indoor and outdoor
- Resistant to UV, oils, acids, alkalies, corrosive chemicals, and water
- Flame retardant
- UL listed and CSA certified

SHU EV077B-BLACK 3/4" x 66'

Scanstrut ROKK Wireless Phone Chargers

Newly upgraded 10W chargers are up to 60% faster, feature easier phone alignment with a larger charging area, and have enhanced electrical componentry to significantly improve your phone's charging times.

- IPX6 waterproof, no sealant required
- Qi certified
- Ultra grippy, non-slip surface
- Constructed of marine-grade materials
- UV stable
- 12/24V
- .03W standby draw



- Output power: 10W (9V, 1.1A)
- Cutout: 2.6"
- Overall diameter: 3.93"

SCA SC-CW-01F Hidden mount



- Output power: 10W (9V, 1.1A)
- Cutout: 2.5"
- Overall diameter: 3.86"
- Optional bezel available to elevate charger

SCA SC-CW-02F Surface mount



Accessories:

SCA SC-CW-BZ Bezel option (includes hdw)

Scanstrut Ultra Magnetized Wireless Phone Charger

NEW

- Qi2 certified wireless charging system
- Eliminates cable clutter, and is easy to install with an adhesive backing and locking ring
- Strong magnetic grip keeps phone in place
- Toughened glass, and IPX rating front and back
- 15W fast charge
- Standby power draw less than .5W
- Min/Max mounting thickness: 0.2" to 0.8"
- 2.4" square face, requires 2" cutout
- 12/24V



SCA SC-CW-14G

Scanstrut ROKK Wireless Phone Chargers



Perfect for boat consoles or any vehicle working outside in the elements, the simple one-handed operation allows you to easily dock your phone and instantly start charging. No connection needed.

- Now 60% faster, featuring easier alignment, larger charging area, and enhanced electrical componentry
- Waterproof wireless charging phone mount
- Qi-certified wireless charging technology and a "Smart" LED that indicates when your phone is charging
- Self-aligning, high-grip jaws accommodate all wireless charging phones
- 12/24V
- Output power: 10W (9V, 1.1A)



Fixed Mount

- Four screws secure the unit onto any flat surface
- A waterproof cable pass-through completes the IPX6 sealed installation
- H closed: 5.6", open: 8.1" x W: 2.9" x D: 1.3"

SCA SC-CW-04F **



Multi Adjustable Mount

- Rotate your phone from portrait to landscape to view your favourite navigation app or simply fine-tune the position for the optimum viewing angle
- Base: H: 3" x L: 2.9" x W: 2.9"
- Overall height: 7.72"

SCA SC-CW-05F **

** While Stock Lasts

Scanstrut NEST Wireless Phone Charging Pocket



For integration into consoles, seating, cabinetry, and more.

- Now 60% faster, featuring easier alignment, larger charging area, and enhanced electrical componentry
- IPX6 waterproof and Qi certified wireless charger
- Fully encapsulated and sealed unit
- Safely houses and wirelessly charges your phone at the same time
- Front lip with easy access thumb bevel acts as a safety barrier while grip mat stops your phone sliding
- Rounded corners and tapered front design eliminates snag
- Automatically drains either out the front, or through the self-drill drains in the rear of the housing
- Foreign Object Detection: Will only charge when a phone is placed on the mat - nothing else
- 12/24V
- Output power: 10W (9V, 1.1A)
- W: 5.59" x H: 4.17" x D: 7.17" (overall)
- Max phone dimensions: 6.92" x 3.62"



SCA SC-CW-06F *

* Special Order - may have stock

Scanstrut NEST Wireless Phone Charging Pocket

NEW



Qi compatible charging pocket for integration into consoles, seating, cabinetry, and more.

- Updated version has a 3 overlapping coil charging system to maximize performance, ensuring reliable charging from various phone placements - with no dead spaces
- Built-in heat management system also adjusts charging speed based on ambient and phone temperature
- Intelligent charging mirrors the movement of your phone to ensure a constant charge
- LED top light indicates power is being delivered - red shows charger is in standby, and white shows phone is charging
- Automatically drains through front or rear self-drill drains, which have the option to use a push-fit drain tube for routing
- Foreign object detection ensures that charge will only begin when a phone is placed on the mat - nothing else
- IPX6 and Qi compatible
- Reverse polarity protection
- 12/24V
- Output power: 15W (12V 1.25A)
- W: 5.59" x H: 4.17" x D: 7.17" (overall)
- Max phone dimensions: 6.92" x 3.62"

SCA SC-CW-6GT

Scanstrut ROKK Nano Wireless Phone Charger



Scanstrut's smallest wireless charging mount, the Nano 10W is up to 60% faster than previous chargers.

- Install where space is limited
- Holds and wirelessly charges your phone at the same time, even through non-metallic waterproof cases
- IPX6 waterproof and Qi certified
- Install and use in any orientation; adjustable to fit phones of all sizes
- Output power: 10W (9V, 1.1A)
- 12/24V
- W: 3.14" x H: 2.83" (closed)



SCA SC-CW-11F

Scanstrut CATCH Wireless Phone Charger



Installs onto any flat surface, perfect for use on top of boat consoles.

- Now 60% faster, featuring easier alignment, larger charging area, and enhanced electrical componentry
- IPX6 waterproof and Qi certified wireless charger
- Small and compact design suits any boat type
- Closed cell EVA foam offers shock absorption and anti-vibration while being hard-wearing, waterproof, and self-draining
- Edging bumpers stop your phone from sliding out, and lets the mat catch your phone from any angle
- Foreign Object Detection: Will only charge when a phone is placed on the mat - nothing else
- Output power: 10W (9V, 1.1A)
- 12/24V
- W: 4.65" x H: 8.11" x D: 0.65"
- Max phone dimensions: 6.92" x 3.7"



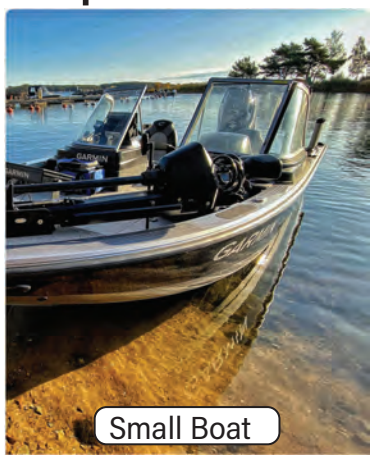
SCA SC-CW-08F

Energy to take you to the horizon and beyond.



Whether you're going on a short fishing trip or planning to sail across the ocean, you'll need reliable power to enjoy your adventure to the fullest. But at Victron we believe reliability isn't enough. We believe in Optimal Energy instead. In our view, a boat needs an intelligent power grid that adapts to any challenges you may encounter. With unparalleled reliability, without effort and at great value for money. That's what we call Optimal Energy.

Optimal Energy for all









victron energy
BLUE POWER

Instruments	Gauges	03-002 to 007
	Senders / Depth Sounders	03-008 to 010
	Sionyx Nightvision Cameras	03-011 to 013
	em-trak AIS Transceivers	03-014 to 015
	Raymarine / Flir	03-016 to 025
	Garmin	03-026 to 036
	Furuno	03-037 to 045
	Navionics / C-Map	03-046 to 047
	Maretron	03-045, 03-048 to 055
	NMEA Connectors	03-053 to 061
	Actisense	03-058 to 061
	Hatteland Displays	03-061
	Octopus	03-062 to 063
Stereos & Speakers	Fusion / Rockford Fosgate	03-064 to 078
VHF Radios, Hailers	VHF / CB Radios	03-079 to 084
	Intercoms / Hailers	03-084
Antennas & Mounting	Antennas	03-085 to 089
	TV / Satellite Radio Antennas	03-089 to 090
	Wireless Cellular Boosters / WiFi	03-090 to 091
	Antenna Accessories / Extensions	03-092 to 093
	Antenna Mounts	03-093 to 095
	BRNKL Boat Security & Monitoring	03-095
	Seaview Mounts	03-096 to 099
	Scanstrut Mounts	03-099 to 100
Meters		03-101 to 104
Alternators, Regulators, Battery Monitors		03-104 to 107
Chargers & Inverters	Battery Chargers	03-108 to 116
	Solar Power Regulators	03-116 to 117
	Inverters / Inverter/Chargers	03-118 to 125
	Inverter/Charger Accessories	03-121 to 127
	Converters	03-127
Isolators, Integrators, & Separators		03-127 to 130
Corrosion Control Products		03-131



Coral
- Perimeter lighted black dial
- Blue & white graphics
- Black aluminum bezel with burnished leading edge
- Contoured white pointer
- Flat glass lens



Euro
- Perimeter lighted black dial
- Bold white graphics
- Black aluminum bezel
- Contoured white pointer
- Flat glass lens



Euro White
- Perimeter lighted white dial
- Bold black graphics
- Black aluminum bezel
- Contoured black pointer
- Flat glass lens



Chesapeake Black Stainless Steel
- Perimeter lighted black dial
- Blue & white graphics
- Polished stainless bezel
- Contoured white pointer
- Domed glass lens

TYPE OF GAUGE	CORAL	EURO	EURO WHITE	CHESAPEAKE S/S BLACK
TACHOMETERS 4”				
6000 RPM Gas in-boards and I/Os	FAR 33004	FAR 32804	FAR 32904	FAR 33710
7000 RPM J/E outboard with SystemCheck indicator	~	FAR 32850	FAR 32950	~
7000 RPM Universal outboards	FAR 33005	FAR 32805	FAR 32905	FAR 33718
7000 RPM Universal outboard with LCD hour meter	~	FAR 32840	~	~
4000 RPM Mech diesel take-off & var-ratio alt	~	FAR 32842	FAR 32942	~
SPEEDOMETERS 4”				
55 MPH (*See note 2)	FAR 33009	FAR 32810	FAR 32909	~
60 MPH (*See note 2)	~	~	~	FAR 33704
60 MPH GPS studded	~	~	~	FAR 33749
80 MPH (*See note 2)	~	FAR 32812	~	~
FUEL LEVEL GAUGE 2”				
Empty - 1/2 - Full	FAR 13001	FAR 12801	FAR 12901	FAR 13701
OIL PRESSURE GAUGES 2”				
80 PSI	FAR 13002	FAR 12803	FAR 12902	FAR 13702
100 PSI	~	FAR 12845	~	~
WATER TEMPERATURE GAUGES 2”				
100º - 250ºF	FAR 13004	FAR 12812	FAR 12904	FAR 13704
VOLT METERS 2”				
10 - 16 Volts D.C. (12 volt system)	FAR 13010	FAR 12821	FAR 12911	FAR 13705
20 - 32 Volts D.C. (24 volt system)	~	FAR 12860	~	~
AMMETER 2”				
60 - 0 - 60 Amps	~	FAR 12822	~	~
HOURMETER 2”				
10,000 hours. Elapsed time in hours & tenths of hours. (*See note 4)	~	FAR 12835	FAR 12913	FAR 13715
CLOCK 2”				
Quartz analog clock	~	FAR 12825	~	~
CYLINDER HEAD TEMPERATURE GAUGE KIT 2”				
60º - 220ºF. For water cooled outboards. Comes with sending unit.	~	FAR 12819	FAR 12910	~
TRIM GAUGES 2”				
Mercury & Mariner O/Bs & Mercruiser stern drives	FAR 13017	FAR 12828	FAR 12916	FAR 13707
OMC O/Bs Johnson / Evinrude & Suzuki	FAR 13016	FAR 12827	FAR 12915	FAR 13709
WATER PRESSURE GAUGE KITS 2”				
30 PSI For water cooled O/Bs (*See note 1)	~	FAR 12810	FAR 12903	FAR 13712
TANK LEVEL 2”				
Empty - Full. Potable water (*See note 3)	~	FAR 12830	~	~
RUDDER ANGLE INDICATOR 2”				
Requires sender	~	FAR 12833	~	~

* Special Order

Faria marine instruments are manufactured and assembled entirely in the U.S.A. Faria offers the industry’s only transferable limited LIFETIME WARRANTY. Speedometers, synchronizers and tachometers are 4” and require a 3-3/8” hole.
All other Faria gauges have a 2-1/2” bezel and require a 2-1/16” hole.

TYPE OF GAUGE	CHESAPEAKE S/S WHITE	DRESS WHITE	PROFESSIONAL RED	SPUN SILVER	KRONOS
TACHOMETERS 4”					
6000 RPM Gas in-boards and I/Os	FAR 33807	FAR 33103	FAR 34607 **	~	FAR 39004
7000 RPM Universal outboards	FAR 33817	FAR 33104	~	FAR 36005 **	~
6000 RPM Gas in-boards with LCD hour meter	FAR 33832	~	~	~	~
4000 RPM Mech diesel take-off & var-ratio alt w/LCD hour meter	FAR 33834	~	~	~	~
SPEEDOMETERS 4”					
60 MPH (*See note 2)	FAR 33811	~	~	~	FAR 39009
60 MPH GPS studded	FAR 33839	~	~	~	~
80 MPH (*See note 2)	~	FAR 33113	~	~	~
80 MPH GPS LCD	FAR 33829 **	~	~	~	
MULTIFUNCTION GAUGE 4”					
Fuel Level / Oil PSI / Water Temp / Voltmeter	FAR 33851	~	~	~	~
FUEL LEVEL GAUGE 2”					
Empty - 1/2 - Full	FAR 13801	FAR 13101	~	~	FAR 19001
OIL PRESSURE GAUGES 2”					
80 PSI	FAR 13802	FAR 13102	~	~	FAR 19002
WATER TEMPERATURE GAUGES 2”					
100º - 250ºF	FAR 13804	FAR 13110	~	~	FAR 19003
VOLT METERS 2”					
10 - 16 Volts D.C. (12 volt system)	FAR 13805	FAR 13120	FAR 14605 **	~	FAR 19004
HOURMETER 2”					
10,000 hours. Elapsed time in hours & tenths of hours. (*See note 4)	FAR 13815	FAR 13130	FAR 12835	~	FAR 19020
CYLINDER HEAD TEMPERATURE GAUGE KIT 2”					
60º - 220ºF. For water cooled outboards. Comes with sending unit.	FAR 13806	~	~	~	~
TRIM GAUGES 2”					
Mercury & Mariner O/Bs & Mercruiser stern drives	FAR 13807	FAR 13122	~	FAR 16016 **	FAR 19005
OMC O/Bs Johnson / Evinrude & Suzuki	FAR 13809	~	~	~	~
OMC Cobra & Volvo SX stern drives	FAR 13808	~	~	~	~
WATER PRESSURE GAUGE KITS 2”					
30 PSI For water cooled O/Bs (*See note 1)	FAR 13812	~	~	~	FAR 19007

Note 1: With installation kit
Note 2: Requires pitot tube on boat
Note 3: Use with standard marine sending unit
Note 4: Non-illuminated gauge

** While Stock Lasts



Chesapeake White Stainless Steel
- Perimeter lighted white dial
- Blue & black graphics
- Polished stainless bezel
- Contoured black pointer
- Domed glass lens



Dress White
- Perimeter lighted white dial
- Black graphics
- White aluminum bezel
- Contoured black pointer
- Flat glass lens



Professional Red
- Perimeter lighted black dial
- Red and white graphics
- Black aluminum bezel
- Tear drop white pointer
- Flat glass lens



Spun Silver
- Perimeter lighted silver dial
- Black graphics
- Polished stainless bezel
- Contoured black pointer
- Domed glass lens



Kronos
- Perimeter lighted spun aluminum dial
- Gold and black graphics
- Polished stainless bezel
- 2-piece Newport pointer
- Flat glass lens

Faria Boxed Sets



KTF001



KTF003

Chesapeake Series - 6

- Complete set of fog free stainless steel gauges
- Inboards (6 piece)
- Speedometer w/pitot, Tachometer, Fuel, Volt, Temperature, Oil pressure

FAR KTF001 White
FAR KTF003 Black

Chesapeake Series - 4

- Outboards (4 piece)
- Speedometer w/pitot, Tachometer, Fuel, Volt

FAR KTF002 White
FAR KTF004 Black



KTF002



KTF024

Koronos Series - 6 (Bayliner replacement)

- Complete set of fog free stainless steel gauges
- Inboards (6 piece)
- Speedometer w/pitot, Tachometer, Fuel, Volt, Temperature, Oil pressure

FAR KTF024 Kit

Individual Gauges

FAR 19005	2" Trim
FAR 19003	2" Water temperature100-250°F
FAR 19002	2" Oil pressure 0-80 psi
FAR 19020	2" Hourmeter
FAR 19001	2" Fuel level
FAR 19004	2" Voltmeter
FAR 19007	2" Water pressure
FAR 39004	4" Tach 6000 rpm, gas
FAR 39009	4" Speedometer

Faria Accessories

Replacement Bulbs

SPE 161	Fits all 2" gauges, black/grey dials except water pressure, vacuum boost, vacuum & 2" operator warning system.
SPE 658	Fits all 2" gauges, white dials except water pressure, vacuum boost, vacuum & 2" operator warning system.
SPE 194	Fits all tachometers & Speedometers except competition series.

Miscellaneous Items

FAR 12861	2" Gauge blank
FAR 32861	4" Gauge blank



Dometic Digital Gauge

- Customizable touchscreen with pre-loaded digital faces can be changed on the fly
- Fully round, edge-to-edge LCD colour display (432 x 432 resolution)
- For use with digital or analog engines
- IP67
- NMEA 2000 compatible
- 850 NIT backlit display with 70° viewing angle
- 10-32 VDC
- 2 x CANBus and 1 x RS485 connection
- 6x analog inputs; 4 digital inputs
- 3"; fits in standard 3-3/8" hole cutout

STR 72236P

Moeller Fuel Gauge

- All electrical senders are calibrated to 33 to 240 OHMs
- Compatible with all Moeller sending units, and most other manufacturers
- Black dial with white lettering, chrome bezel, and glow face light for accurate readings day or night
- 12VDC
- 2-1/8" cutout



MOE 035727-10-1

► *Also See* Volt Meters pg 03-101 to 104

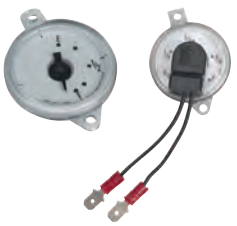
Moeller Conversion Capsules

- Direct site mechanical read capsule

MOE 035759-10

- Conversion capsule from mechanical to electrical dash mounted gauge

MOE 035760-10



► *Also See* Fuel Senders pg 09-007

Sierra Tach/Hourmeter

- For any gasoline motor up to 2 cylinder, monitors 2 or 4 strokes
- Displays RPM up to 9000
- Displays RPM when running total hours when off
- No power or ground required
- Water and shock proof
- Displays up to 9999 hours
- 10 year internal battery lifetime
- Includes 2-sided mounting tape and screws



STR 56969P

Veratron VMH Flex Display

NEW



- Sun-readable 1.44" colour TFT display
- Up to 5 scrollable screens in single or dual layout
- Reliable laser touch-button in every practical condition
- Embedded analog to NMEA 2000 converter, 2x analog resistive inputs, LIN port for IBS
- Wireless configurable via smartphone
- IPX7
- 9-32V
- Mounting hole: 2-1/16" (52 mm)

VER B00186401 NMEA 2000

Veratron VMH 14 Multifunction Gauge

NEW



- Stylish black-glass design with brushed stainless-steel ring
- Optically bonded IBN segment display with visual bar graph
- EasyLink interface
- Configurable with smartphone via Airwave ready
- Trim, Voltmeter, Fuel Level, Water Temperature, Transmission Oil Temperature and Pressure, Engine Oil Temperature, and Pressure
- IPX7
- Power provided by EasyLink master
- Mounting hole: 2-1/16" (52 mm)

VER B00109901

Veratron VMH 35 Displays

NEW



- Sun-readable Colour IBN + 1.44" TFT optically bonded hybrid display
- Intelligent Battery Sensor (IBS) port
- Analog to NMEA 2000 gateway
- Integrated high-performance GNSS receiver
- IPX7
- 12V
- Mounting hole: 3-11/32" (85 mm)
- Outboard Engine Kits: Include VMH 35 display, IBS 12V 250 Ah with battery adapter, wire harness (6m) with connectors for level sensor and IBS, bullet terminals for tachometer trim and power supply

VER B00085501 Resistive/GPS
VER B00085502 Outboard kit, Resistive/GPS
VER B00143501 0-5V/GPS
VER B00143502 Outboard kit, 0-5V/GPS

- Plug and play installation thanks to the dedicated harness equipped with mating Suzuki connectors
- Compatible with multiple Suzuki engines

VER B00204201 Suzuki

Veratron VMH 35-D Diesel Display

NEW



Perfect standalone solution for monitoring your diesel engine.

- Sun readable colour IBN + 1.44" TFT optically bonded display
- Configurable dial scale of 3000 or 4000 RPM
- Capable of showing a wide amount of data from your engine, battery, tank, and GPS
- High-performance GPS embedded
- More than 30 data displayed
- SAE J1939 CAN port, 4 x analog input for external sensors, EasyLink output for up to 16 VMH 14 satellites, and Analog / CAN to NMEA 2000 gateway
- IPX7
- 9-32V
- Mounting hole: 3-11/32" (85 mm)

VER B00171101 GPS

Veratron VMH 70 Display

NEW



- Designed to manage large amounts of complex data
- Real-time operating system ensures full control immediately after power up
- 7" sun-readable IPS TFT touchscreen display with integrated light sensor
- Slim panel installation profile
- Aluminum housing with mineral glass front lens
- Reliably operates in high-temperature environments
- Easily customizable startup screen and GUI screens
- Fully configurable analog inputs for direct sensor connections with NMEA 2000 gateway
- Display up to four engines when connected to NMEA 2000, or two engines via J1939 or analog inputs simultaneously
- Dual SAE J1939 CAN ports
- IPX7 protection rating (exposed device with plugged-in connectors or blind plugs)
- Includes suncover, panel mounting kit, Engine 1 power and data cable, Engine 2 data cable, and EasyLink extension cable
- 9-32V
- W: 8.66" x H: 5.04"

VER B00129201

Veratron OL 43 TFT Display

NEW



Experience seamless integration and real-time monitoring with the OL 43, whether you're tracking engines, batteries, tanks, or navigation data.

- Optically bonded 4.3" IPS TFT display with antiglare coated mineral front lens glass
- Compact housing
- Customizable with multilanguage GUI, flexible screen layouts, and sensor calibration tailored to your needs
- Reliable in high-temperature environments
- Lightning-fast startup upon power on
- Equipped with NMEA 2000, SAE J1939, and ethernet
- Supports up to 16 EasyLink satellites
- Analog sensor inputs with NMEA gateway
- IPX7
- 12/24V
- W: 4.85" x H: 4.4"

VER B00126101

Veratron
OCEANLINK 52 mm Gauges

NEW

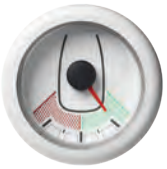




- Connect directly to any OceanLink Master unit using the patented EasyLink serial bus connection
- Anti-fog double layer plastic lens
- 240° pointer deflection angle
- AMP Superseal EasyLink connector
- IPX7
- 9-32V
- Mounting hole: 2-1/16" (52 mm)

VER A2C1065950001	Coolant temp, Black
VER A2C1065970001	Coolant temp, White
VER A2C1066000001	Oil pressure, 10 bar, Black
VER A2C1066010001	Oil pressure, 10 bar, White
VER A2C1066020001	Oil pressure, Low/High, Black
VER A2C1066040001	Transmission oil pressure, 30 bar, Black
VER A2C 1066050001	Transmission oil pressure, 30 bar, White
VER A2C1065930001	Fuel level, Black
VER A2C1065940001	Fuel level, White
VER A2C1065910001	Fresh water, Black
VER A2C1065920001	Fresh water, White
VER A2C1065890001	Waste water, Black
VER A2C1065900001	Waste water, White
VER A2C1066100001	Voltage 8-16V, Black
VER A2C1066110001	Voltage 8-16V, White
VER A2C1066120001	Voltage 16-32V, Black
VER A2C1066130001	Voltage 16-32V, White
VER A2C1066080001	Rudder angle, Black
VER A2C1066090001	Rudder angle, White
VER A2C1065830001	Engine trim, Black
VER A2C1065840001	Engine trim, White





Veratron
OCEANLINK 85 mm Speedometers

NEW



- Features an embedded GPS antenna, a Dot matrix LCD, and NMEA2000 connectivity
- Up to 16 satellite gauges of 52mm each, can be connected thanks to the integrated EasyLink connectivity
- Reverse polarity protection
- Connectivity & input: NMEA2000, J1939, EasyLink, 1x frequency input, and 2x resistive input
- IPX7
- 9-32V
- Mounting hole: 3-11/32" (85 mm)



VER A2C1351970001	0-14, Black
VER A2C1352010001	0-14, White
VER A2C1351980001	0-35, Black
VER A2C1352080001	0-35, White
VER A2C1351990001	0-70, Black
VER A2C1352090001	0-70, White

Veratron
OCEANLINK 85 mm Tachometers

NEW



- Dot matrix LCD display
- Up to 16 satellite gauges of 52mm each, can be connected thanks to the integrated EasyLink connectivity
- Reverse polarity protection
- Connectivity & input: NMEA2000, J1939, EasyLink, 1x frequency input, and 2x resistive input
- IPX7
- 9-32V
- Mounting hole: 3-11/32" (85 mm)



VER A2C1065660001	3000 RPM, Black
VER A2C1065670001	3000 RPM, White
VER A2C1065720001	5000 RPM, Black
VER A2C1065800001	5000 RPM, White
VER A2C1065810001	7000 RPM, Black
VER A2C1065820001	7000 RPM, White

Veratron OceanLink TFT Display

NEW



- Full 24 bit 7" TFT display for great readability even in direct sunlight
- Touch screen function
- Optical bonded mineral glass lens
- Up to four engines can be connected to the display
- Smart software routine is able to load a predefined curve calibration, selecting either the sensor type or sensor range
- Custom calibration is available for fluid level sensor, and also possible to define damping and offset for navigation sensor
- Alarm input can be customized using the Veratron Configurator Tool (sold separately)
- Operating temperature range -25 °C / +70 °C
- IPX7 (with cables connected)
- Includes 1x NMEA 2000 connector, 2x SAE J1939 input, 6x analog input, 2x frequency input, 2x 4-20 mA input, 3x digital input or 0-5 V, 2x video input, 2x EasyLink data output, and 2x programmable alarm output 500 mA
- 12/24V
- W: 8.09" x H: 4.13"

VER A2C1865330001

Veratron VL Flex Instruments

NEW

- Easily configured to be the instrument you need
- Sun-readable 1.44" TFT display
- 2 instruments in 1 with dual screen
- Wireless configurable with your smartphone, even without power supply thanks to the passive embedded AirWave receiver
- Custom alarms setup and colour bar graphs for visual data display
- IP67 front
- 9-32V
- Mounting hole: 2-1/16" (52 mm)



NMEA 2000

- NMEA 2000 gateway included
- Configurable resistive and frequency inputs
- IBS port for battery monitoring
- Custom alarm setup
- 23 data available in different units

VER B00043501 Black
VER B00111301 White

IBM Kit

- Intelligent Battery Monitoring system delivers voltage, current, battery temperature, state of charge, battery health, and autonomy data
- Supports flooded, gel, and AGM battery types up to 500 Ah
- Ready for connecting to Veratron dip-pipe liquid level sensors
- Includes, VL Flex 52 instrument, intelligent battery sensor including battery pole adapter, and 6 m wiring harness

VER B00084701 12V, Black
VER B00084801 24V, Black

Veratron Diagnostic/Configuration Tool

NEW

The Veratron Diagnostic Tool makes it possible to connect your computer via USB to the CAN bus and communicate with Veratron products.



- NMEA2000 to USB Interface
- Enables the use of the Veratron Configuration Tool
- Enables doing software updates
- Further configuration possibilities on Veratron devices
- Enables upload of custom splash logos

VER A2C3931270001

Veratron Buzzer Alarm

- Easy installation with 52mm spinlock
- Different sound patterns (constant or intermittent)
- IPX7 (front)
- 12/24V
- Mounting hole: 2-1/16" (52 mm)



VER B00109001 **
** While Stock Lasts

Veratron LinkUp Gateways

NEW

LinkUp gateways provide an easy method of converting vessel and engine information to NMEA 2000.



- Reduces wiring by installing the gateway where needed
- Configurable via your smartphone
- Powered by NMEA 2000
- Approved for engine compartment installation

IBS

- Determines the current status of your battery to support energy management planning Helps to preserve battery life by reporting its state of health
- Real-time measurements prevent overcharging and overheating
- Voltage, current, temperature, SOC, SOH, and autonomy

VER B00042502 12V, Max battery capacity 500 Ah
VER B00070401 24V, Max battery capacity 250 Ah

Resistive

- Interfaces and converts resistive sensor measurement to NMEA 2000
- Optimized for a 0 – 2000 ohm range
- Customizable sensor curves
- Approved for engine compartments
- Alarms setup + transmission on NMEA 2000
- Plug-and-play installation with Veratron Dip-pipe level sensors

VER B00042201

Voltage Type 0-5V

- 5 V output for sensor feed
- Designed for electronic sensors
- Customizable sensor curves
- Approved for engine compartments
- Alarms setup + transmission on NMEA 2000

VER B00059201

EMP Temperature Sender



- Temperatures up to 200°F
- 3/8" x 18 NPT, 10-32 stud terminal

EMP 75-01942

Faria Rudder Angle Indicator Sender



- Standard or floating ground

FAR 90530 Single station

Faria Water Temperature Senders



90401

- Single station or dual station for use with most marine water temperature gauges

FAR 90401 1/8" NPT, water temp sender
FAR 90402 1/4" NPT, temperature sender
FAR 90403 3/8" NPT, water/oil/temp sender
FAR 90404 1/2" NPT, temperature sender
FAR 90406 1/8" NPT, dual sender
FAR 90412 1/8" NPT Euro. single standard ground

Faria Cylinder Head Temperature Sender

- Works with all models

FAR 90405 Sender

Faria Oil Pressure Senders



90512

American (0-80 P.S.I.)

FAR 90512 1/8" NPTF, Single station, standard ground
FAR 90511 1/8" NPTF, Dual station, standard ground

European

FAR 90526 1/8" NPTF 10 BAR/150 PSI single standard ground

Sierra Temperature Senders



18-5896

SIE 18-5896 1/8", 240°F
SIE 18-5897 3/8", 240°F
SIE 18-5898 1/2", 240°F, dual station

Sierra Water Temperature Senders



TS26611

- Water temperature sender operates Faria, Stewart-Warner and Teleflex gauges

Single Station

SIE TS26611 1/4" NPT 240°F
SIE TS26621 3/8" NPT 240°F
SIE TS26631 1/2" NPT 240°F

Dual Station

SIE TS26641 1/8" NPT 240°F
SIE TS26651 1/4" NPT 240°F

Sierra Temperature Switch



- Used with light
- 200° Trip point
- 3/8" NPT

SIE TS25101

Sierra Oil Pressure Sender



- Single station
- 1/8"-27 thread size
- 10-32 stud terminal
- 0-80 PSI

SIE 18-5899

Sierra Oil Pressure Senders



OP24891

- Faria, Stewart-Warner and Teleflex gauges
- Range: 0-80 PSI (1/8" NPT)

SIE OP24891 Dual station

Range: 0-100 PSI (1/8" NPT)

SIE OP24301 Single station

Sierra Magnetic Proximity Sender



STR 1507678P

Sierra Oil Pressure Switch



- Used for electric fuel pump shut off
- Set at 6 PSI
- Used by Mercury Marine and Volvo. (1/8" NPT)
- Normally closed

SIE OP22900

Sierra Oil Pressure Safety Shutoff Switch



- 1/4"-18 thread size

SIE OP72533

Sierra Oil Pressure Light Switch



- 1/8"-27 thread size

SIE 18-5894

Veratron Rudder Angle Sensors

NEW



- 12-24V

VER A2C1102950001 Single station, 10-180 ohm
VER A2C1102960001 Dual station, 5-90 ohm

Veratron Temperature Sensors

NEW



- Resistive temperature sensors built in a housing of brass
- All sensors come with a sensor output and an insulated ground Pin, interfaced through the metal plate connectors

VER B001999 Water temp, 1/2"-14NPT, 120°C
VER B002000 Water temp, 1/4"-18NPT, 120°C
VER B002003 Engine oil temp, 1/2"-14NPT, 150°
VER B002004 Engine oil temp, 3/8"-18NPT, 150°

Veratron Oil Pressure Sensors

NEW



- Oil pressure sensors deliver a stable quality reading during a long lifespan
- Excellent anti-vibration performance and a wide operating temperature range
- All sensors come with a sensor output and an insulated ground pin
- 1/8"-27NPT thread

VER B002007	5 bar
VER B002008	10 bar

Veratron Intelligent Battery Sensors

NEW



The IBS is the key element of vehicle energy management, reliably and accurately measuring the battery voltage, current, and temperature.

VER B00043901	12V, Max 250 Ah capacity
VER B00084201	12V, Max 500 Ah capacity
VER B00072101	24V, Max 250 Ah capacity

Veratron Liquid Level Sensors

NEW



Liquid level sensors with adjustable dip.

NMEA 2000

- Fresh and waste water
- 12V

VER B00041201	7.87" to 23.62" length
VER B00041401	23.62" to 47.24" length



Capacitive 12/24V

- Includes sealing kit
- Output signal: 4 to 20 mA

VER N02-240-402	Fresh water, 3.15" to 23.62" length
VER N02-240-404	Fresh water, 23.62" to 47.24" length
VER N02-240-902	Waste water, 7.87" to 23.62" length
VER N02-240-904	Waste water, 23.62" to 47.24" length

Parts:

VER B00001201	Flange adapter kit

Veratron Fuel Level Sensor

NEW



Resistive fuel level sensor with adjustable lever and sealing kit (N05-801-432).

- Adjustable length: 5.91" to 23.62"
- Calibration: 240 / 33.5 ohm
- 12/24V

VER A2C1364580001	Single station

Parts:

VER B00001201	Flange adapter kit

Veratron NavSensor

NEW



- NMEA 2000 certified
- GPS Module: Position/ time/ boats vector/ signal quality/ satellites
- Compass: +/-40° tilt angle/ <2° accuracy/ alarm (rapid field strength change/ tilt angle overrun/ undervoltage condition)
- Barometer: Air pressure/ air temperature sensor
- Operating temperature range -20°C / +70°C
- IPX6

VER A2C59501981

Veratron Go Plus+ Sensor

NEW



Veratron's GO Plus is a combined GPS receiver and NMEA 2000 to BLE gateway that puts all your vessel data on your smart device.

- Compact and easy to install, does not require any additional protection against harsh weather conditions
- Bluetooth Low Energy (BLE) 5.0 interface
- GPS / GLONASS / GALILEO
- 72 channels reception
- 10Hz update rate
- Very high sensitivity
- Fast cold-start position fix
- Robust against electrical noise
- Compatible with OceanLink 52mm bezels
- IPX9/K
- Powered by NMEA 2000 network
- Mounting hole: 5/8" (16 mm)
- Dia: 2-7/16" x H: 3/4"

VER B00041701

Sea-Dog Gauge Adapter Plates



- Replace an unused 4" gauge with two new 1-1/8" style gauges or meters
- D-flats to prevent spinning
- UV-resistant injection molded nylon
- Faceplate and washer included
- 3-3/4" diameter

SED 426103-1 Black
SED 426104-1 White

Faria Pitot Tube Assembly Kits


91109

- Transom mount speedometer pick-up with escutcheon plate and mounting hardware (less tubing)
- For all marine speedometers through 80 MPH

FAR 91109

- Same as 91109 but includes 20' of tubing

FAR 91106

Sierra Pack O'Pitots



- Universal speedometer pick-up
- Slotted design replaces most brands without drilling
- Automatic kick-up feature for speeds up to 80 MPH
- 12/pkg

STR 59677P *
* Special Order - may have stock

Trident Marine Speedo Tubing



- PVC tubing for connection between speedometer pickup and gauge
- 2-spiral polyester plies reinforcement for high-speed applications and maximum flexibility
- Temperature range: -20°F to +212°F
- Sold by the foot

TRI 151-1/8" 1/8" ID x 7/16" OD

Sea-Dog Pitot Tube Shield



- 304 stainless steel
- 1-1/4" x 3/4"

SED 331310-1

Faria Depth Sounders



Digital depth sounders can be bought with options of an in hull transducer or transom mount transducer.

- Depth range to 199' (61m)
- Reads depth in meters, fathoms and feet
- Keel offset, shallow/deep water audio and visual alarms
- Shallow and deep water alarms
- Automatic gain control
- Backlighting for maximum night vision
- Alarms are audio & visual
- Cutout: 2-1/16"
- Available with transom (25' cable), thru-hull (26') or in-hull (20') transducers

FAR 12850 Euro Black, transom mount transducer
FAR 12851 Euro Black, in-hull transducer
FAR 13750 Chesapeake Black, transom mount transducer
FAR 13751 Chesapeake Black S/S, in-hull transducer
FAR 13795 Chesapeake Black S/S, thru-hull transducer
FAR 13850 Chesapeake White S/S, transom mount transducer
FAR 13851 Chesapeake White S/S, in-hull transducer

Dual Temperature Depth Sounder



All the same features as the depth sounder above with the addition of the following:

Read the ambient air temp or the water temp right on your depth sounder. The dual display can show depth and either air or water temperature. Choose which temperature you wish to see, change the view even while the vessel is moving

- Complete with air & water temperature sensors
- Transom mounted transducer included

FAR 13752 Chesapeake Black, S/S
FAR 13852 Chesapeake White, S/S

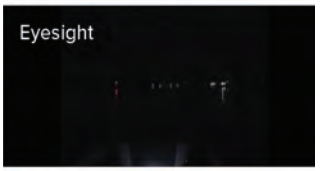
SIONYX
DIGITAL NIGHT VISION

Sionyx Nightwave
Ultra Low-Light Marine Camera



Easily spot obstacles and debris in moonlesss starlight without white light or expensive thermal cameras.

- See well beyond human eyesight and pick up a man-sized target at 150 meters (at quarter moon)
- Capable of night vision at <1 mlx (moonless starlight)
- 44° field of view
- Clear colour digital night vision
- Easy mounting and setup, with multiple mounting options
- Stream video to a mobile device via WiFi or directly connect to other hardware via analog output
- IP67
- 1280 x 1024 resolution, frame rate 60 Hz
- Includes: Camera, 5m cable, BNC to RCA converter, power fuse and fuse holder, digital video cable USB, base gasket, mounting hardware, installation template, and user manual
- 12V
- 5" x 5" x 6"
- 1.9 lbs







SIO C012800 White
SIO C014900 Black

Accessories:
SIO A015700 Coaxial cable

Sionyx Nightwave Digital
High Resolution Low-Light Marine Camera

NEW





Next generation Nightwave Digital camera delivers unmatched clarity thanks to the enhanced IP (POE) digital connectivity and advanced Black Silicon CMOS sensor.

- Higher resolution (for large screens), greater reliability, and seamless integration with networked MFD systems
- Connect one camera to multiple MFDs, or multiple cameras to one MFD
- Flexible mounting options with an intuitive setup
- Connectivity with app control via Wi-Fi
- Detection range: Man-sized target at 300 meters, Vessel target at 4.02 km
- Capable of night vision at <1 mlx (moonless starlight)
- 44° field of view
- Clear colour digital night vision
- Auto day/night filter
- IP67
- 1280 x 1024 resolution
- Frame rate up to 30 Hz
- POE power (37-57VDC)
- 5" x 5" x 6.9"
- 2.2 lbs





SIO C018800 White
SIO C018900 Black

SIONYX
DIGITAL NIGHT VISION



Sionyx
Aurora Pro Explorer Kit

- SIONYX Aurora PRO is the flagship full colour digital night vision optic; the latest development with both new sensor technology and enhanced optics
- Colour night vision even in less than 1 millilux moonless starlight
- Micro OLED display 1024 x 768
- Frame rate: 60 Hz
- Video: 720P
- 940nm, 5W LED infrared illuminator is tuned specifically for the Aurora sensor for the perfect balance of colour and brightness to identify targets out to 150 meters and to recognize targets well beyond
- Wirelessly stream vivid colour digital night vision to a mobile via the SIONYX app
- GPS, compass, metadata (time & location), and accelerometer
- 1 - 3x digital magnification
- -4 to +4 diopter adjustment
- Mounting on a tripod/RAM mount offers hands-free use
- Water-resistant (IP67)
- Storage capacity: 256 GB
- Includes: Aurora Pro, 940nm IR Illuminator, rechargeable batteries for both the camera & the IR Illuminator (2 each), 32GB microSD card, USB charger, hardshell waterproof case
- 2 year warranty



Aurora Pro




IR Illuminator

SIO K011400 Aurora Pro Explorer Kit

Sionyx
RAM Mounts Camera System



- Mount your camera in nearly any position with all the clamps, arms, and sockets you need for a fully flexible and secure setup
- RAM Tough-Claw provides toolless installation and removal on round, square, and odd-shaped rails and bars
- RAM Strap Hose Clamp Ball Base fits rails from 1" to 2.1" in diameter, and the ball and socket format allows for near-infinite adjustability
- 3" double socket arm accommodates 1" B size ball bases, device holders, and adapters

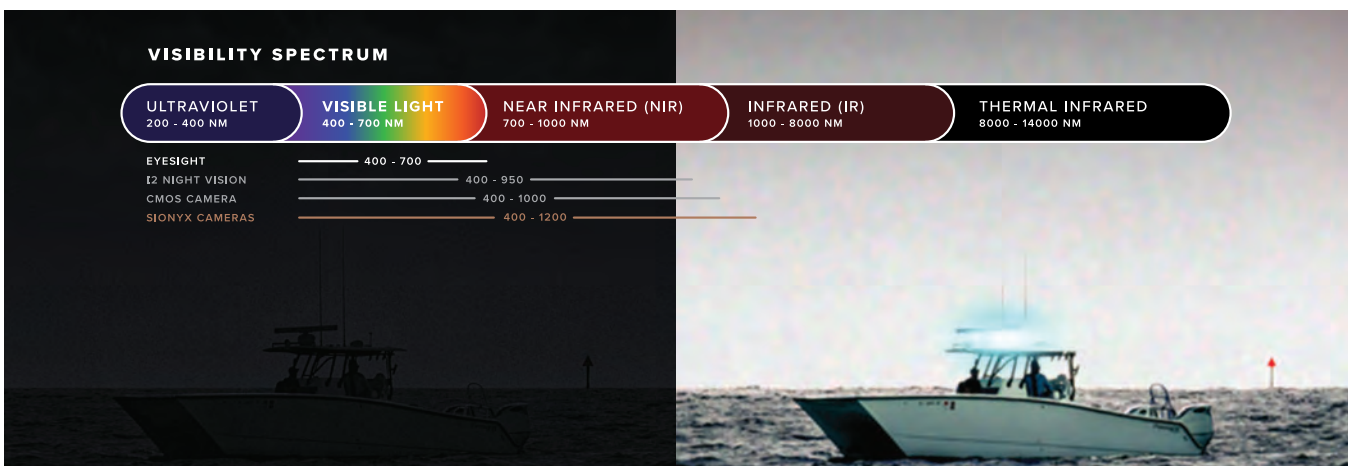
SIO A013700

Sionyx
RAM Mounts Tablet System



- Includes a medium length double socket arm and universal RAM X-Grip clamping cradle for 7-8" tablets
- Spring loaded cradle expands and contracts to securely hold your tablet
- Includes device tether for outdoor applications

SIO A013600 *
* Special Order



Sionyx Uncharted Kits

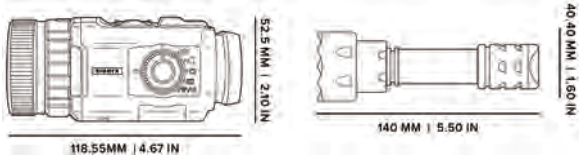
The SIONYX all-in-one Uncharted digital night vision kits give you superior colour night vision with the added flexibity of hands-free use using included RAM mounts. Both kits include hardshell waterproof case, camera, IR illuminator, (2) camera batteries and external battery charger for Aurora, rechargeable batteries and external battery charger for the Illuminator, 32 GB microSD card, USB charge/data cable, Illuminator rail mount, and RAM camera mount system.

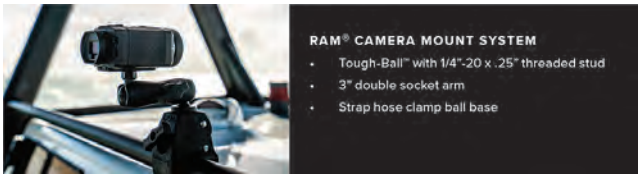


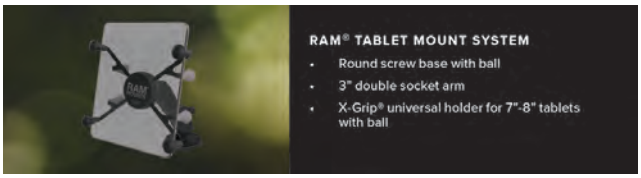
SYSTEM	
MAN-SIZED TARGET (AT 1/4 MOON)	150 M
DIGITAL MAGNIFICATION	1X - 3X
DIOPTER ADJUSTMENT	-4 TO +4
FOCUS RANGE	.3M TO INFINITY
MICRO OLED	1024 X 768
EYE RELIEF	7.5 MM - 20 MM
WEIGHT	274 G
VISIBLE SPECTRUM	400 - 1100 NM

ENVIRONMENTAL	
INGRESS PROTECTION	IP67 WATER/DUST RESISTANT
IMPACT RESISTANCE	1 M ON CONCRETE
TEMPERATURE RANGE	-20°C TO +50°C

OPERATION	
WI-FI ENABLED	YES
BATTERY LIFE	2 HOURS
LENS	16 MM F/1.4
FRAME RATE	60 HZ
VIDEO	720P .MOV







* Tablet mount system included in Pro kit only

Sionyx
Aurora Pro Uncharted Kit

- Kit comes with Aurora Pro night vision camera
- Colour night vision even in less than 1 millilux moonless starlight
- GPS, compass, metadata (time & location), and accelerometer
- 256 GB storage capacity
- Kit also includes RAM tablet mount system

SIO K014000 Aurora Pro Uncharted Kit





X100

Marine VHF/DSC Radio with Integrated AIS Class B

VHF | DSC | AIS | CONNECT-X APP



5W Class B+ AIS
Send and Receive

Connect-X
Mobile App

Connect-X

AIS CPA and Anchor
Watch Alarms

Zero-loss Integrated
VHF Antenna Splitter

MOB
Functionality

One Touch
Silent Mode

One Touch
DSC Calling

Connected Convenience

Discover more: em-trak.com/products/x100/

em-trak

em-trak
Class A AIS Transceiver



- Seamlessly connects to your ECDIS and other bridge systems
- IMO SOLAS certified Class A AIS
- High performance GPS
- Button and rotary-knob user interfaces with configurable multilingual menu options
- ENC chart (C-Map) with configurable AIS target overlay
- 5" colour display with night mode
- Suitable internal or external installation
- Silent mode – AIS transmissions are stopped, all AIS messages continue to be received
- Integrated WiFi
- Interfaces: NMEA 0183 - 3x input ports, 3x bi-directional ports, NMEA 2000 Ed 3.101, LEN=1
- 12/24V; Average consumption 6.2W @ 12V
- IPx6, IPx7
- W: 6" x H: 6.5" x D: 3.75"

EMT A200 Integrated WiFi, Bluetooth, and VHF antenna splitter

em-trak
Class B AIS Transceiver



- Class B AIS (5W SOTDMA)
- High performance GPS
- Button and rotary-knob user interfaces with configurable multilingual menu options
- ENC chart (C-Map) with configurable AIS target overlay
- 5" colour display with night mode
- Enhanced RF screening and built-in power surge protection
- IPX6/IPX7; suitable for internal or external installation
- Integrated WiFi, NMEA 2000 & NMEA 0183
- W: 6.5" x H: 5.98" x D: 3.74"

EMT B400 *

* Special Order - may have stock

em-trak
AIS Transceivers



B921/B952/B952

- Class B AIS with global certification
- SRT-AIS Transceiver Engine
- Small and lightweight
- Ultra-low power consumption (1.6W @ 12V average, except B954 - 3.4W wireless on, 2.9W wireless off)
- NMEA 0183 and 2000
- Automatied health and performance monitoring
- Silent mode
- Enhanced RF screening to protect against electromagnetic interference
- Built-in power surge protection
- Supports GPS, GLO NASS, BeiDou, Galileo (two of any combination, three including GPS,Galileo)
- Internal GPS receiver and antenna
- Includes 2m power and data cable
- Flexi-Fit bracket system
- 12/24V
- IPx6, IPx7
- H: 5.91" x W: 4.43" x D: 1.77"



B923/B953/B954

2W, CSTDMA

EMT B921	Standard
EMT B923	Integrated VHF antenna splitter

5W, SOTMDA

EMT B951	Standard
EMT B952	Integrated WiFi and Bluetooth
EMT B953	Integrated VHF antenna splitter
EMT B954	Integrated WiFi, Bluetooth, VHF antenna splitter

em-trak
VHF Antenna Splitter



- Allows a single VHF antenna to simultaneously support full operation of your AIS transceiver, VHF radio, and FM radio
- Zero performance loss
- Auto fail safe feature - in event of power loss, VHF radio automatically takes priority
- Low power consumption (150 mA @ 12V, <2W average)
- Plug and play
- Includes power and FM cable, 2x accessory cables, and fasteners
- 12/24V
- H: 1.97" x W: 3.94" x D: 5.51"

EMT S300

em-trak
External GPS Antenna

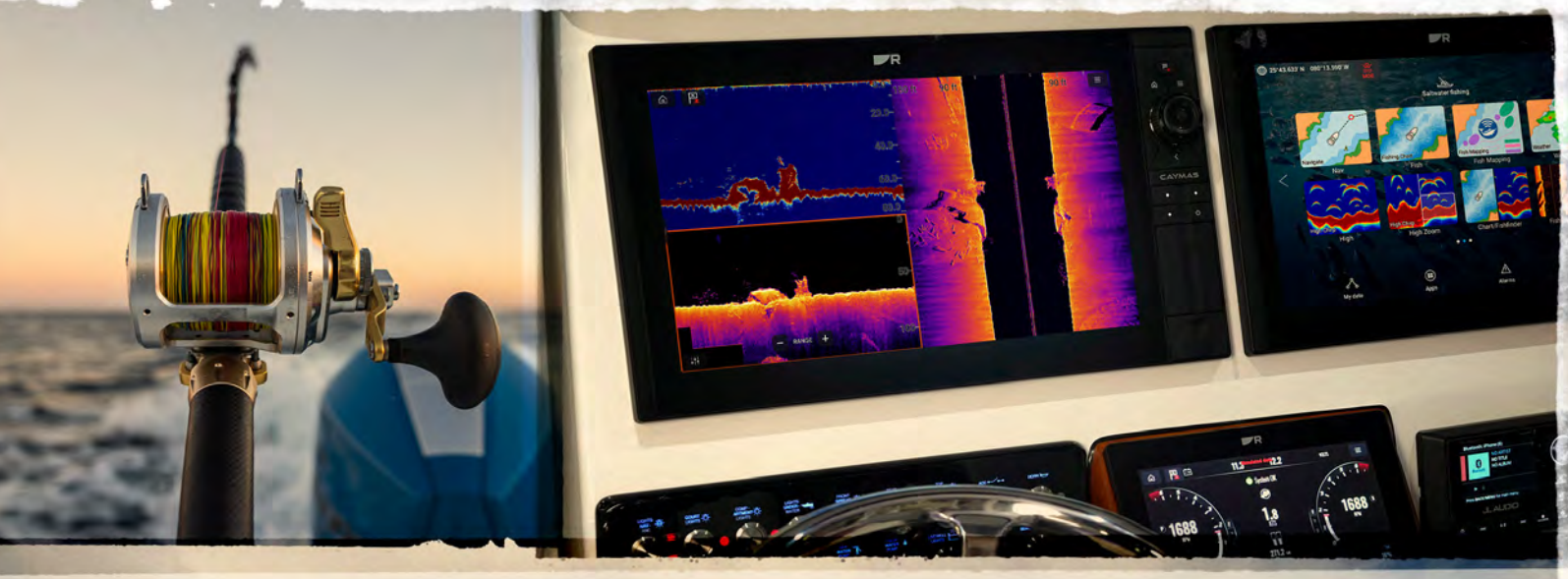


- External GPS antenna for all em-trak AIS Class A & B transceivers
- For installations deep inside a boat when the internal GPS antenna will not receive satellite signals
- 50 channel
- Includes 10m cable with TNC connector

EMT 304-0055

Note: Not an "active" GPS antenna, this is a "passive receiver" to the AIS unit

► *Also See* em-trak X100 pg 03-083





STAY ON THE FISH
EVEN WHEN OFF THE CHARTS.

Any experienced angler knows the ocean is as vast as it is majestic. Thankfully, for those in search of a catch worth sharing, Raymarine has the answer.

Axiom® 2 Pro RVM combines chartplotter, fishfinder, radar, autopilot and video into our most powerful all-in-one fishing system yet. It features a 6-core processor, smart backlighting, and an ambient light sensor that automatically adjusts brightness, so the sun never dictates when the day begins or ends. And whether you're dropping lines along the coast or into the deep, models with RealVision® MAX and a 1kW dual channel CHIRP fishfinder will help you stay on target.

LEAVE DOUBT IN YOUR WAKE. **RAYMARINE.COM**.



Raymarine Element S Navigation Displays

- Single channel High CHIRP Sonar with 9 pin connector
- Supports CPT-S transom and thru-hull transducers
- 1 x NMEA2000 port (DeviceNet microC)
- IPx6 and IPx7
- WiFi - 802.11 b / g / n
- 12VDC (8V to 16VDC)

The Element S series of navigation displays gives you the freedom to enjoy the open waters—Select your destination and let Element's fast and accurate 10Hz GPS/GNSS lead the way. Engineered for simplicity and affordable performance, Element S will quickly become your trusted cruising companion. A quad-core processor offers responsive performance and Element's all-weather, sunlight viewable displays deliver chart and navigation data in beautiful colour. Element's simple and straightforward LightHouse Sport operating system lets you navigate with confidence. Once underway, Element S will keep you on course with a smart list of user-friendly features, such as AIS target overlays, autopilot integration, and sailing instruments displays.

Part #	Model	Display	Chart	Dimensions	Power (W)
RAY E70533-00-102 **	9	9" 800 x 480 WVGA	North America (LightHouse)	11.3" x 6.3" x 2.4"	20
RAY E70535-00-NAG**	12	12" 1280 x 800 WVGA	US & Canada Chart (Navionics+)	14.1" x 8.5" x 2.4"	25
RAY E70535-00-102 **			North America (LightHouse)		

** While Stock Lasts

► *Also See* Transducers pg 03-020



Raymarine Element Hypervision Navigation Displays

- Built-in CHIRP Sonar, DownVision (Standard and Hyper), SideVision (Standard and Hyper), RealVision 3D (Standard and Hyper)
- 1 x NMEA2000 port (DeviceNet microC)
- IPx6 and IPx7
- WiFi - 802.11 b / g / n
- 12VDC (8V to 16VDC)

Knowledge is power and the Element CHIRP sonar/GPS series from Raymarine gives you the upper hand when hunting for fish and their habitat. Delivering the sharpest view of the underwater world, Element's HyperVision 1.2 megahertz sonar technology, turns up the resolution of DownVision, SideVision, and RealVision 3D to a new level of precision imaging and fish identification, letting you see structures, vegetation, and fish with amazing life-like clarity.



HV-100

Part #	Model	Display	Chart	Dimensions	Power (W)	Transducer
RAY E70532-00-102 **	7	7", 800 x 480 WVGA	North America (LightHouse)	9.5" x 5.3" x 2.4"	15	-
RAY E70534-00-102 **	9	9", 800 x 480 WVGA	North America (LightHouse)	11.3" x 6.3" x 2.4"	20	-
RAY E70536-05-NAG **	12	12", 1280 x 800 WVGA	US & Canada Chart (Navionics+)	14.1" x 8.5" x 2.4"	25	HV-100

** While Stock Lasts



Raymarine

The performance-tuned Axiom Plus is equipped with a powerful quad-core processor for industry-leading responsiveness and speed; giving you the power to seamlessly redraw charts, navigate with augmented reality, and experience RealVision 3D sonar. New higher resolution IPS displays deliver 25% more brightness, and new day/night color palettes offer enhanced visibility in any lighting condition. Axiom+ features the renowned LightHouse 3 OS, the most powerful and easy-to-use Raymarine MFD operating system to date.
Axiom includes surface, flush, and trunnion mounting kits, mounting hardware, power/data cable, and installation instructions.

Raymarine Axiom+ Touch Screen Multifunction Navigation Displays

- 1 x NMEA2000 port (DeviceNet microC)
- IPx6 and IPx7
- 12VDC (8V to 16VDC)

Part #	Model	Display	Chart	Dimensions	Power (W)
RAY E70634-00-NAG *	7	1024 x 600 WVGA Multitouch	US & Canada Chart (Navionics+)	7.92" x 5.24" x 3.00"	7.34
RAY E70634-00-102			North America (LightHouse)		
RAY E70636-00-NAG *	9	1280 x 720 WXGA Multitouch	US & Canada Chart (Navionics+)	9.65" x 6.22" x 3.00"	8.95
RAY E70636-00-102			North America (LightHouse)		
RAY E70638-00-NAG *	12	1280 x 800 WXGA (HD) IPS	US & Canada Chart (Navionics+)	12.36" x 8.54" x 3.00"	15.48
RAY E70638-00-102			North America (LightHouse)		

* Special Order

Raymarine Axiom+ Touch Screen Multifunction Navigation Displays W/ RealVision 3D

- Same features as above with built-in sonar

Part #	Model		Display	Chart	Dimensions	Power (W)
RAY E70635-00-NAG *	7	Integrated RealVision 3D, 600W Sonar	1024 x 600 WVGA Multitouch	US & Canada Chart (Navionics+)	7.92" x 5.24" x 3.00"	9.84
RAY E70635-03-NAG *		Integrated RealVision 3D, 600W Sonar, RV-100 transducer		US & Canada Chart (Navionics+)		
RAY E70637-00-NAG *	9	Integrated RealVision 3D, 600W Sonar	1280 x 720 WXGA Multitouch	US & Canada Chart	9.65" x 6.22" x 3.00	11.98
RAY E70637-03-NAG *		Integrated RealVision 3D, 600W Sonar, RV-100 transducer				
RAY E70637-00-102		Integrated RealVision 3D, 600W Sonar		North America (LightHouse)		
RAY E70639	12	Integrated RealVision 3D, 600W Sonar	1280 x 800 WXGA (HD) IPS	-	12.36" x 8.54" x 3.00"	19.96
RAY E70639-00-NAG *				US & Canada Chart (Navionics+)		
RAY E70639-03-NAG *		Integrated RealVision 3D, 600W Sonar, RV-100 transducer				

* Special Order - may have stock



Axiom 2 Pro combines chartplotter, sonar, radar, autopilot, and video into a powerful all-in-one navigation system. With Axiom 2 Pro, you can navigate smarter and expand your system, thanks to the super intuitive LightHouse operating system. Plan your next trip and get underway confidently with Axiom 2 Pro's HybridTouch — a simple touchscreen and keypad experience. Axiom 2 Pro S chartplotters feature built-in single channel High CHIRP sonar - the ideal sonar solution for reliable depth sounding and underwater exploration.

Raymarine Axiom 2 Pro S High Performance Multifunction Navigation Displays

- NMEA2000 DeviceNet connector + two RayNet ethernet ports
- Built-in WiFi and Bluetooth
- Transducer connection: 25 pin RV type (Requires A80490 for CPT-S style)
- IPx6 and IPx7
- 12/24V



Axiom 2 Pro's HydroTough nano-coating technology repels water for reliable touchscreen control, enhanced colours, and excellent sunlight visibility. Smart backlighting and ambient light sensor automatically adjust display brightness.

Part #	Model		Display	Chart	Dimensions WxHxD	Power (W)
RAY E70653	9	High CHIRP Conical Sonar	1280 x 720 HD 9" IPS Optically Bonded LCD	-	11.78" x 6.84" x 9.25" (D includes cables)	30
RAY E70653-00-102				North America (LightHouse)		
RAY E70655	12	High CHIRP Conical Sonar	1280 x 800 WXGA 12.1" IPS Optically Bonded LCD	-	14.1" x 8.77" x 9.18" (D includes cables)	30
RAY E70655-00-102				North America (LightHouse)		

Raymarine Axiom 2 Pro RVM High Performance Multifunction Navigation Displays

- Integrated multi-channel fish finder with built-in CHIRP DownVision, SideVision, RealVision 3D, traditional 600W CHIRP fishfinder for coastal fishing, plus a 1kW dual channel CHIRP fishfinder for deep water
- Built-in WiFi and Bluetooth, and NMEA2000 DeviceNet connector + two RayNet ethernet ports
- Transducer connections: 25-pin RealVision Max 3D / RealVision 3D, and 11-pin 1kW
- IPx6 and IPx7
- 12/24V

Part #	Model		Display	Chart	Dimensions WxHxD	Power (W)
RAY E70654	9	High CHIRP, DV, SV, RV 3D	1280 x 720 HD 9" IPS Optically Bonded LCD	-	11.78" x 6.84" x 9.25" (D includes cables)	30
RAY E70654-00-102				North America (LightHouse)		
RAY E70656-00-102	12		1280 x 800 WXGA 12.1" IPS Optically Bonded LCD	North America (LightHouse)	14.1" x 8.77" x 9.18" (D includes cables)	30



Axiom Pro is engineered for captains that want it all. Available with RealVision 3D, 1kW CHIRP sonar, and Raymarine HybridTouch control, Axiom Pro is the new standard for "all-in-one" display. And with a blazing fast quad core processor, a super bright IPS display, and the smart LightHouse OS, Axiom Pro delivers a fluid and intuitive navigation experience. Axiom Pro is easy to expand into an advanced navigation network that includes multiple Axiom displays, CHIRP radar, Evolution autopilot, FLIR thermal night vision technology, and more.

Raymarine Axiom Pro-RVX High Performance Multifunction Navigation Display

- HybridTouch - control via touch or keypad
- 1 x NMEA2000 port (DeviceNet microC)
- IPx6 and IPx7
- Any Raymarine transducer (CPT-S, RV AIRMAR 600W, AIRMAR 1KW)
- 12VDC (8V to 16VDC)

Part #	Model		Display	Chart	Dimensions	Power (W)
RAY E70371	9	1KW Sonar DV, SV, RV 3D	1280 x 720 WXGA 9" IPS Optically Bonded LCD	-	11.9" x 6.85" x 2.56"	20
RAY E70371-00-NAG *				US & Canada Chart		

* Special Order - may have stock

Note: Charts are Navionics+

Raymarine System Remote Control



The new Raymarine RMK-10 Remote Keypad is an ultra-compact wired keypad accessory that provides full control of aSeries, cSeries, eSeries, eS Series, gS Series, and AXIOM Range Multifunction Displays (MFDs) from any mounting location.

RAY T70293 Portrait and Landscape orientation

Raymarine Axiom Parts

RAY A80498 Front Mounting Kit AXIOM 7
RAY A80500 Front Mounting Kit AXIOM 9
RAY A80502 Front Mounting Kit AXIOM 12
RAY R70528 Rear Mounting Kit AXIOM 7
RAY R70531 Rear Mounting Kit AXIOM 9
RAY R70534 Rear Mounting Kit AXIOM 12)
RAY A80524 Adaptor Plate E7/E7D to AXIOM 7
RAY A80526 Adaptor Plate A9X to AXIOM 9
RAY A80525 Adaptor Plate C70 to AXIOM 9
RAY A80564 Adaptor Plate C80/E80 to AXIOM 9
RAY A80528 Adaptor Plate C12X/E12X to AXIOM 12
RAY A80527 Adaptor Plate A12X to AXIOM 12
RAY A80529 Adaptor Plate C120/E120 to AXIOM 12
RAY A80530 Adaptor Plate E90W to AXIOM Pro 9
RAY A80565 Adaptor Plate E120 to AXIOM Pro 12
RAY A80531 Adaptor Plate E120W to AXIOM Pro 12
RAY A80533 Adaptor Plate E140W/E165 to AXIOM Pro 16

Raymarine Element S Transducers

RAY E70342 CPT-S Transom
RAY E70339 CPT-S Plastic ThruHull 0° Angled Element
RAY A80448 CPT-S Plastic ThruHull 12° Angled Element
RAY A80447 CPT-S Plastic ThruHull 20° Angled Element
RAY A80446 CPT-S Bronze ThruHull 0° Angled Element
RAY E70340 CPT-S Bronze ThruHull 12° Angled Element
RAY E70341 CPT-S Bronze ThruHull 20° Angled Element
RAY A80273 Transducer Extension for CPT-S, CPT100, CPT110 & CPT120 (4m Cable)
RAY A80691 CPT-S In-Hull
RAY E66008 P79 Adjustable In-Hull Angle

Raymarine Non-CHIRP Transducers

Non Chirp 50/200 Khz Transducer For Axiom DV (A80485 Required), Axiom RV (A80489 Required) & Axiom Pro-RVX Or RVX1000 (A80496 Required). All models 600W, except for A102112/A102113, 1000W.

RAY A80485 Adaptor Cable (9 pin to 8 pin) Airmar transducer to AXIOM DV
RAY A80489 Adaptor Cable (25 pin to 8 pin) Airmar transducer to AXIOM RV
RAY A80496 Adaptor Cable (11 pin to 8 pin) Airmar transducer to AXIOM Pro-RVX
RAY E66008 Urethane P79 D Adjustable Angle In-Hull Transducer
RAY E66013 Urethane P319 D Low Profile Through Hull Transducer
RAY E66014 Bronze B117 D Low Profile Through Hull Transducer
RAY E66077 Urethane P319 D Low Profile Thru-Hull Transducer
RAY E66086 Bronze B60 D/T Through Hull 12º Tilted Element Transducer
RAY E66085 Bronze B60 D/T Through Hull 20º Tilted Element Transducer
RAY E66054 Urethane P66 D/S/T Transom Mount Transducer
RAY A66091 Bronze B744V D/S/T Through Hull Retractable Transducer
RAY A102112 Bronze B164-12 D/T 12º Tilted Element Low Profile Transducer
RAY A102113 Bronze B164-20 D/T 20º Tilted Element Low Profile Transducer

Raymarine Transducer Accessories

RAY A80490 Axiom RV/Pro RVX CPT-S/DV & Axiom PRO to CPT-S 25-pin to 9-pin Adaptor - 0.3m
RAY A80562 HyperVision Thru-hull Transducer Extension Cable - 4m
RAY E66010 5m Transducer Extension Cable with Removable Back-Shell
RAY E66066 Transducer Adaptor Cable for DSM/CP transducer to MFD
RAY R70615 RealVision 25-pin Locking Collar Kit



Raymarine Axiom, Axiom Pro and RVX1000 Transducers

Conical High Chirp Direct Connect To Axiom Dv Adaptor Cable A80490 Required For Axiom Rv And All Axiom Pros, Axiom Rv, Axiom Pro-Rvx, and Rvx1000 Realvision 3d Transducers
RealVision 3D thru hull transducer

- Includes: 8m transducer extension cable, split transducer Y-cable and port and starboard thru hull transducers

RAY T70318 RV-212, Bronze transducers, 12°, pair
RAY T70319 RV-220, Bronze transducers, 20°, pair
RAY T70320 RV-312, Plastic transducers, 12°, pair
RAY T70321 RV-320, Plastic transducers, 20°, pair

RealVision 3D transom transducer

- Includes: 8m transducer extension cable and split transducer Y-cable

RAY A80464 RV-100, RealVision 3D transom mount transducer

Raymarine DST810 Smart Multisensor



- New Gen 2 paddlewheel responds to speeds as low as 0.3 knots, and becomes linear at 0.6 knots
- Speed readings stay accurate and smooth through 45 knots
- 5 Hz speed output (5X/second) for visibly smoother data
- Integrated attitude sensor for simple attitude calibration to correct for off-center mounting
- Wireless connectivity to Airmar's CAST App has new user-friendly benefits:
  - Simple, intuitive calibration regardless of the instrument brand or model that is on board
  - Basic and advanced heel-compensated speed calibrations across the speed range
  - Advanced Speed Calibration allows for manual speed entries for multiple heel angles and up to 10 speeds
  - Enable and disable PGN's and set offset and output rates
- Depth, speed-through-water, heel and trim, pitch and roll, and water temperature from one installed instrument

RAY E70667

► *Also See* Propspeed Foulfree pg 07-010

Raymarine Radar
Quantum, Pulse Compressed Chirp Radar



- Superior Radar Imaging: FLIR's exclusive ATX advanced target separation technology displays targets like boats, landmarks, rocks, buoys, and weather cells with unsurpassed resolution and separation quality
- CHIRP Pulse Compression: Excellent short-range detection and enhanced target detail with 18' (6m) minimum range
- CHIRP Pulse compression ensures more energy reaches each target, resulting in superior imaging on long ranges
- Small Target Detection: Quantum's CHIRP Pulse Compression technology identifies small, weak targets, even when positioned close to strong returns.
- Immediate Awareness: Quantum solid-state technology is ready to use in seconds, without any lengthy warm up period.
- Simplified Installation: Simple Wi-Fi connection between Quantum and any Raymarine LightHouse II powered MFD
- Quantum's small diameter power cable is easy to route through tight spaces
- Easy to upgrade - Quantum uses the same bolt pattern as previous generation radars. Optional Quantum adapter cable eliminate the need to run new radar cables
- Energy Efficient and Lightweight Design: Weighs 50% less than traditional magnetron radars
- Safe Emissions thanks to Quantum's low power solid state radar transmitter
- Very low power consumption (17 Watts transmit and 7 watts standby)
- Extended vessel battery life when under sail
- Supply voltage: Either 12 VDC or 24 VDC nominal (Minimum: 10.8 VDC | Maximum: 31.2 VDC)
- Weight: 5.6 kg (12.3 lb)
- Transmit Frequency: 9354 to 9446 MHz
- Peak Power Output: 20W
- 21.3" x 8.25"

RAY T70243 Quantum Q24C 18" Radar with 10m Power and 10m Data Cable

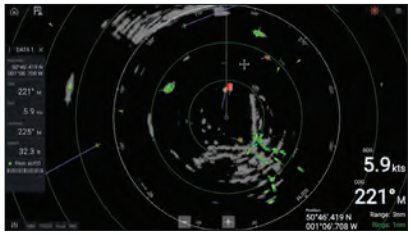
---

Raymarine Radar
Quantum 2 Chirp Radar With Doppler Collision Avoidance Technology



- Doppler moving target display allows for superior situational awareness at-a-glance
- Fully automatic MARPA target tracking, along with manual MARPA mode
- Adjustable TrueTrails target history shows the motion history of moving contacts
- CHIRP Pulse Compression detects contacts as close as 18-feet for zero-visibility navigation
- 24-mile range for early detection of traffic, navigation aids, landfall and weather
- Immediate awareness - Quantum starts up and is ready to go in seconds
- Superior interference rejection eliminates noise from other radars
- Simplified installation with Wi-Fi or thin wire network connectivity
- Easy upgrade - Quantum 2 fits the same bolt pattern as other Raymarine scanners
- Lightweight and easy to install - Quantum weighs up to 50% less than comparable magnetron radars
- Safe emissions - mount Quantum anywhere onboard
- Low power consumption for extended battery life under sail
- Diameter: 54.1 cm x Height: 20.9 cm
- Weight: 5.6 kg
- Supply voltage: Either 12 VDC or 24 VDC nominal (Minimum: 10.8 VDC | Maximum: 31.2 VDC)
- Range Performance: 24NM
- Peak Power Output: 20W
- 21.3" x 8.25"

RAY T70416 Quantum 2 Q24D Doppler 18" Radar with 10m Power and Data Cable



► *Also See* Radar Mounts pg 03-096 to 100

HOW DOPPLER RADAR WORKS

Microwave energy waves are bounced off of a distant target, just like conventional radar.
Moving targets send back echoes whose frequencies shift upward or downward from what was originally transmitted.
For inbound targets, the frequency increases as the leading edge of the returning echoes are received more frequently as the target's range decreases.
For outbound targets, the frequency drops as the returning echoes spread out as its range increases.
Doppler radars are engineered to detect these small shifts in wave frequency, and use them to classify moving radar targets.

DOPPLER TARGET PROCESSING

Doppler radar is tuned specifically to detect the radar echo frequency shift returned by moving vs. stationary targets.
Quantum 2 then uniquely colour codes moving targets to indicate whether they are getting closer, or moving away.
- Inbound targets are coloured red.
- Outbound targets are coloured green.

Colour coded targets make it simple to pick out moving traffic from other stationary targets like land, navigation aids or stopped/anchored vessels.

Raymarine CP370 Sounder Module



Spend less time looking for fish and more time fishing

- Smarter target intensity controls reveal bait and game fish with exceptional clarity
- Enhanced digital filtering reveals fish targets through the entire water column
- CP370 takes the guesswork out of interpreting the sonar display
- Power: 600W / 1000W Depending on transducer
- 11.79" x 7.9" x 3.3"

RAY E70297

Raymarine SiriusXM Weather Receiver



SiriusXM Marine is graphical weather and fishing information for boaters. Essential information like weather radar, NEXRAD storm cell tracking, tropical storm tracks and localized forecasts are all easily viewable inside the LightHouse 3 chart application. Fisherman can enjoy expanded information including high-resolution coastal and offshore sea surface temperature overlays, also displayed right on the live navigation chart.

- Compatible Displays: Axiom, Axiom Pro, Axiom XL (Requires LightHouse 3.9 or newer software)
- Includes: Shakespeare SRA-50 SiriusXM Antenna and SR200 InfoLINK to RayNet Interface cable

RAY E70499

Raymarine Tiller Pilots



- Removeable Cockpit Autopilots for Tiller Steered Yachts
- AutoTack lets you handle the sheets while the pilot tacks the boat and AutoSeastate intelligently keeps the boat on course while conserving power
- Whether used as a stand-alone pilot or with SeaTalk/ NMEA GPS, the clear backlit LCD and 6 button keypad make these pilots safe and easy to use
- Nominal voltage: 12V DC

RAY A12004	ST1000+ Tiller 3,000kg (6,600 lb)
RAY A12005	ST2000+ Tiller 4,500kg (10,000 lb)

Raymarine AIS700



The AIS700 from Raymarine is a Class B Automatic Identification System (AIS) transceiver designed for use with Raymarine multifunction navigation display systems. As a Class B AIS transceiver, the AIS700 not only receives broadcasts from other vessels, it also transmits your own boat's information too helping you to be seen on other vessels' systems.

- Full transmit and receive AIS for enhanced situational awareness and safety
- Latest SO-TDMA networking for longer range and faster performance
- Built-in antenna splitter simplifies installation with existing VHF radio antenna
- NMEA2000, NMEA0183, PC (setup & diagnostics) and SeaTalkng compatible.
- Software or hardware switchable Silent Mode for enhanced security when needed
- W: 6.76" x D: 5.22

RAY E70476

Raymarine Raystar RS150 External GPS Antenna



A high performance, 72-channel, remotely mounted GPS sensor for Raymarine navigation systems. The RS150 offerss fast 10Hz position updates and enhanced accuracy. It is also a GNSS receiver and supports the GLONASS global navigation satellite system.

- Satellite differential GPS-compatible. Space-Based Augmentation System (SBAS) enabled with WASS, EGNOS, MSAS, and GAGAN support
- Low power consumption: 30mA
- SeaTalking and NMEA2000 compatible (using a device net adapter cable)
- Designed for low profile surface mounting or optional pole mounting

RAY E70310	72 channel

Raymarine Network Accessories

RAY E22158	ST1 to STNG Adaptor Kit
RAY T70134	STNG Starter Kit
RAY A25062	STNG Backbone Kit
RAY A06028	STNG T-Piece Connector
RAY A06064	5 Way Connector
RAY A06049	STNG Power Cable
RAY A06031	STNG Backbone Terminator
RAY A06074	In-Line STNG Terminator
RAY A06033	Backbone Cable 400mm
RAY A06034	Backbone Cable 1m
RAY A06035	Backbone Cable 3m
RAY A06036	Backbone Cable 5m
RAY A06068	STNG Backbone Cable 9m
RAY A06037	Backbone Cable 20m
RAY A06038	Spur Cable 400mm
RAY A06039	Spur Cable 1m
RAY A06040	Spur Cable 3m
RAY A06041	Spur Cable 5m
RAY A06045	DeviceNet Female Adaptor Cable, 15.7"
RAY A06082	STNG (Male) to Devicenet (Female) Adaptor
RAY A06083	Devicenet (Male) to STNG (Female) Adaptor
RAY A80007 **	HS-5 Network Switch (RayNet)
RAY A62360	RayNet (F) to RJ45 (M) cable - 1m
RAY A80151	RayNet (F) to RJ45 (M) cable - 3m
RAY A80159	RayNet (F) to RJ45 (M) cable - 10m
RAY 308-0251-30-00	RayNet (Female) to RJ45 (Male) Cable, 30M
RAY A62361	RayNet (F) to RayNet (F) cable - 2m
RAY A80005	RayNet (F) to RayNet (F) cable - 5m
RAY A62362	RayNet (F) to RayNet (F) cable - 10m
RAY A80006	RayNet (F) to RayNet (F) cable - 20m
RAY A80162	RayNet (M) to RayNet (M) cable - 100mm
RAY E55060	SeaTalkHS Crossover Coupler
RAY E70242	Yamaha Command-link plus cable
RAY 4115028	Connector, RF45 Waterproof Enclosure
RAY Q085	Spade connectors, 1/8", 11/pkg

** While Stock Lasts

Raymarine Autopilot
Evolution System Packs With Drives

- Automagic - No lengthy calibration procedures to perform. No compass calibration required. Plug and play connections
- Easy to install - Freedom from the restrictions of conventional heading sensors. EV sensor core can be installed above or below deck. Install upside-down or off the vessel's centre line.
- Aerospace technology - 9-axis precision monitoring of pitch, roll, yaw and heading
- Fuel efficient - Evolution autopilots steer so accurately they will save fuel and get you to your destination faster


T70157

The EV Sensor Core

At the centre of every Evolution system is the intelligent EV sensor core, a 9-axis sensor that monitors vessel motion in all three dimensions. The innovative EV sensor core combines advanced solid-state sensors with the Evolution autopilot processor into a single easy-to-install housing.

Mount the EV sensor core above or below decks, the rugged enclosure is fully sealed and built to IPX6 and IPX7 waterproofing and submersion standards.


T70158


T70154


T70152


T70330

EV-1 Cockpit and Inboard Autopilots

EV-1 autopilots consist of a Control Head, EV1 Sensor, Autopilot Control Unit (ACU) and drive unit. The drive unit (inboard mechanical/ hydraulic or cockpit mounted) and correct ACU for your vessel is dependent on the steering system and displacement of the vessel itself.

RAY T70154 EV-100 Power Pilot with p70Rs control head, ACU-100, EV1 Sensor Core, EV1 Cabling kit & 0.5l hydraulic pump
RAY T70152 EV-100 Wheel Pilot with p70s control head, ACU-100, EV1 Sensor Core, EV1 Cabling kit & Wheel Drive
RAY T70330 EV-150 Power Pilot with p70Rs control head, ACU-150, EV1 Sensor Core, EV1 Cabling kit & 1.0L hydraulic pump
RAY T70157 EV-200 Hydraulic Autopilot with p70Rs control head and rudder indicator, ACU-200, EV1 Sensor Core, EV1 Cabling kit & Type 1 Hydraulic pump
RAY T70158 EV-200 Linear Autopilot with p70s control head, ACU-200, EV1 Sensor Core, EV1 Cabling kit & Type 1 Mechanical Linear drive

Parts & Accessories:

RAY E70096 EV1 Sensor Core
RAY M81105 Rudder Reference for EV-150

Raymarine Autopilot Control Units



Complete your Evolution autopilot system with an autopilot control. The new p70s and p70Rs control heads feature vibrant colour displays and are powered by Raymarine's intuitive LightHouse user interface. LightHouse organises all options into simple menu structures and with Evolution's quick setup process you will be up and running in minutes.
Designed for sailing yachts, the p70s offers simple 1 and 10 degree direct course change push buttons. The p70Rs features a rotary dial control for power boaters. Use the rotary dial for menu and course changes or activate power steer mode and steer manually right from the p70Rs.

- 3.5" super bright oversized LCD for maximum visibility
- All weather, low power, optically bonded display technology delivers brighter colours, sharper contrast, and a wide viewing angle
- Button or rotary control options for sail and power applications
- Supported autopilot modes: Auto; Standby; Pattern; Track; Wind Vane; Power Steer and Jog Steer
- Display the pilot information in different formats with automatic 3-step setup for leisure, cruising and performance
- Simple system and group dimming / illumination
- Easy to use Lighthouse user interface with sculpted rubber keypad for precise operation in all conditions
- SeaTalkng networking for seamless connectivity to Raymarine systems and NMEA2000* networks
- New glass bridge industrial design compliments Raymarine eS and gS Series multifunction displays
- Supplied with both black (eS Series style) & (e Series style) gunmetal bezels and protective suncover
- Nominal voltage: 12VDC
- Display: Sunlight readable optically bonded LCD
- Resolution: 320 x 240 QVGA
- Waterproofing: IPX6

RAY E70328 p70s Autopilot Control Head (Sail)
RAY E70329 p70Rs Autopilot Control Head (Power)
RAY E15024 S100 Wireless Autopilot Remote Complete with Base Station

Raymarine i70 Instruments

The i70s multifunction gives you the flexibility to display instrument and navigation data that is most important to you. Equipped with a bold and bright 4.1" display the i70s is easy-to-customize with digital, analog and graphical displays of depth, speed, wind and more. Add the i70s to your existing Raymarine instrument system or create a network of i70s displays and sensors, the choice is yours.

- Large numerals and digits
- Red back lighting for enhanced night time visibility
- SeaTalk and SeaTalkng interfaces
- NMEA 2000 (compatible) interface
- Built-in transducer interface
- Low power consumption
- Multiple data source support eliminates potential data conflicts
- Front mounted design for simple installation
- 12VDC, 1.6W
- 4.33" x 4.52"



RAY E70327	i70s Multifunction colour display
RAY T70226	i70s System pack (colour instrument & wind, DST transducers), iTC-5, 9M backbone, power, 1 backbone & 1 inline terminator
RAY T70216	i70s System pack (colour instrument & wind, DST transducers, iTC-5, 3M backbone, 5 way connector, STng power cable & 2 backbone terminators)

Accessories:

RAY M78713-PZ	P319 low profile through hull plastic depth transducer 14m cable
RAY E22078	Short arm vane transducer supplied with 30m cable
RAY R28170	Short arm wind vane transducer



Raymarine iTC-5 Instrument Transducer Converter

The Raymarine iTC-5 converts analog transducer signals used in i70, ST70+ and ST70 instrument systems to SeaTalkng.

Transducers for Speed/Temperature, Depth, Wind, Rudder Angle and Fluxgate Compass can be connected to the one iTC-5 unit, eliminating the need for multiple ST70 pods

- W: 5.9" x H: 3.7"

RAY E70010

Raymarine Network Switches

- Integrate Axiom displays with radars, sonar modules, IP cameras, and FLIR thermal cameras
- Also supports networking with Raymarine YachtSense digital control systems and YachtSense Link mobile marine router
- IPX6/IPX7 construction
- LED power and network port status indicators
- Plug and play with Raymarine devices
- 12/24VDC
- Power consumption: <2.5W, <600mA @ 12V

- 5 RayNet ethernet cable ports
- W: 11.26" x H: 2.72" x D: 2.17"



RAY A80731 RNS-5

- 8 RayNet ethernet cable ports
- 4 dedicated POE ports for powering cameras and remotes
- Remote diagnostics and performance monitoring via web browser
- Up to 8 RNS-8 switches can be daisy chained together
- W: 11.32" x H: 4.94" x D: 3.07"



RAY A80732 RNS-8

Flir Thermal Vision Camera



- 24° x 18° field of view with 9 Hz refresh rate
- 320 x 240 thermal resolution provides clear, detailed images
- 4x continuous E-Zoom; focus from fixed 12' up
- 360° pan and ± 90° tilt capability
- Rugged, waterproof gimbal enclosure with automatic window heaters for ice management
- Simple ethernet connectivity to MFD chartplotters
- Combine with a Raymarine Axiom MFD and AR200 module to enable FLIR's ClearCruise intelligent object detection
- IPX6
- 12/24V
- Dia: 6.3" x H: 9"
- 6 lb

RAY E70354 M232

Flir High-Performance Marine Camera



- Exceptional day and night vision
- 63.7° x 35.8° field of view
- 1920 x 1080 resolution @ 30 fps
- Near-infrared low light mode
- 30x optical zoom, and 12x digital zoom
- Automatic window defrost
- Intelligent non-water object detection with Marine Video Analytics
- Two-axis with integrated AHRS stabilization to remove effects of pitch, heave, and yaw
- MFD ready, and ONVIF compliant
- Combine with a Raymarine Axiom MFD and AR200 module to enable FLIR's ClearCruise intelligent object detection
- IPX6
- 12/24V
- Dia: 8.7" x H: 12.9"
- 13.9 lb

RAY E70605 * M300C

*Special Order

► Also See Raymarine VHF Radios pg 03-083 to 084

► Also See Sionyx Cameras pg 03-011 to 013

Raymarine Augmented Reality Pack





Make smarter decisions with ClearCruise Augmented Reality. ClearCruise AR brings enhanced on-water awareness to Raymarine's family of Axiom chartplotters. With ClearCruise AR, you can make smarter decisions with physical navigation objects overlaid directly on Axiom's high-definition video display.

- See critical navigation objects overlaid on HD video
- Colour-coded labels provide instant identification, status, and risk assessment of live AIS targets
- See visually where your saved waypoints and marks are located
- Includes CAM300 mini day/night IP camera and AR200 marine sensor and video stabilization module
- AR200 GPS (GNSS) receiver and AHRS (Attitude and Heading Reference System) sensor provides GPS position, compass heading, pitch, and roll data to Axiom chartplotters

RAY T70581 CAM300 & AR200

Raymarine Day/Night IP Camera



Mini day/night IP camera with an ultra-wide field of view designed for Raymarine Axiom chartplotters.

- Crystal clear HD video imagery, with 3MP CMOS sensor delivering up to 1080p resolution
- View up to 4 CAM300 video streams simultaneously on a single Axiom display
- Built-in infrared emitters for excellent near-field low-light visibility up to 33 ft (10 meters)
- Image flip and invert functions for ball-up/ball-down installation and reverse video system applications
- Entire camera ball rotates in the housing for flexible mounting
- Install with either a direct 12V connection or single cable Power over Ethernet (POE)
- Rugged IP66 enclosure
- Navigate smarter with ClearCruise augmented reality and the optional AR200 sensor
- ONVIF Profile S compatible for integration with 3rd party security systems
- Base diameter: 2.34" x H: 2.08"

RAY E70660 CAM300 Eyeball Day and Night Video Camera (IP Connected)

Raymarine CAM210 IP Marine Camera



Ruggedised, high definition, day and night network bullet video camera suitable for all above deck applications. Integrated sun-cover for maximum visibility and small frame size for easy installation anywhere on the boat.

- Plug and play integration with Raymarine MFD's running Lighthouse II
- Power over Ethernet (PoE) or direct 12v DC power supply
- High bright IR LEDs for operation in total darkness
- Digital Defog processing improves the captured image in poor weather conditions (such as smog, fog or smoke)
- Intelligent IR technology for clear video images at night in all conditions
- H: 7.87" x Mount Dia: 3.5"

RAY E70346 CAM210 Bullet CCTV Day and Night Video Camera (IP Connected)

Raymarine CAM220 IP Marine Camera



Ruggedised, high definition dome video camera suitable for above or below deck applications.

- Plug and play integration with Raymarine MFDs running Lighthouse II
- Power over Ethernet (PoE) or direct 12v DC power supply
- Simple mechanical frame allows the camera to be locked, rock steady, into position
- High bright IR LEDs for operation in total darkness
- Mount Dia: 3.9"

RAY E70347 ** CAM220 Eyeball CCTV Day and Night Video Camera (IP Connected)

** While Stock Lasts

GARMIN®

WELCOME TO 4K PARADISE

Harness the power of Garmin at your helm with easy-to-use chartplotters and fishfinders. Get navigation and sonar technology with an intuitive interface that combines advanced technology and connectivity to meet the needs of any captain or angler.

GPSMAP® 9000 SERIES

10 ” | 13 ” | 17 ” | 19 ” | 22 ” | 24 ” | 27 ”



STRIKER



ECHOMAP



GPSMAP





Garmin STRIKER Plus Fishfinder

- Designed to not only see fish and structure below the boat, but also to mark your favorite fishing spot and easily navigate back to them
- Includes dual-beam transducer with Garmin CHIRP traditional sonar for crystal-clear images and remarkable target separation
- Built-in GPS lets you mark waypoints, create routes and view boat's speed
- Quickdraw Contours: Easy-to-use built-in map generation software lets you instantly create and store fishing maps with 1' contours for up to 2 million acres
- Brighter Display: Bright, sunlight-readable display and intuitive user interface
- Rugged design for every fishing environment

Part #	Model	Display	Description	Max Depth (Freshwater / Saltwater / ClearVu)	Transducer Included
GAR 010-01870-01	STRIKER Plus 4cv	4.3"	Fishfinder/GPS	1,750' / 830' / 250' ClearVu	Dual-beam (CHIRP)



STRIKER Vivid 4sv | STRIKER Vivid 5cv | STRIKER Vivid 9sv

Garmin STRIKER Vivid Fishfinders

- 7 NEW, vivid, high contrast colour palettes enable anglers to distinguish fish and structure ever more clearly
- Designed to not only see fish and structure below the boat, but also to mark your favorite fishing spot and easily navigate back to them
- Bright sunlight readable display
- Built-in Garmin CHIRP ClearV (cv models) scanning sonar for nearly photographic images of what passes below your boat
- Built-in GPS lets you mark waypoints, create routes and view boat's speed
- Quickdraw Contours: Easy-to-use built-in map generation software lets you instantly create personalized HD fishing maps with 1' contours,with storage up to 2 million acres
- Brighter Display: Bright, sunlight-readable display and intuitive user interface
- Built-In Wi-Fi (on the Striker Vivid 7cv/7sv/9sv only): Use the built-in Wi-Fi to access the ActiveCaptain mobile app for smart notifications, access to the Garmin Quickdraw Community and more

Part #	Model	Display	Description	Max Depth (Freshwater / Saltwater / ClearVu)	Transducer Included
GAR 010-02550-01	STRIKER Vivid 4cv	4.3"	Fishfinder/GPS	1,750' / 830' / 250' ClearVu	GT20-TM (CHIRP/ClearVu)
GAR 010-02551-01	STRIKER Vivid 5cv	5"	Fishfinder/GPS	2,300' / 1100' / 250' ClearVu	GT20-TM (CHIRP/ClearVu)
GAR 010-02552-01	STRIKER Vivid 7cv	7"	Fishfinder/GPS	2,300' / 1100' / 250' ClearVu	GT20-TM (CHIRP/ClearVu)
GAR 010-02553-01	STRIKER Vivid 7sv	7"	Fishfinder/GPS	800' / 250' ClearVu / 500' SideVu	GT52HW-TM (CHIRP/ ClearVu/SideVu)
GAR 010-02554-01	STRIKER Vivid 9sv	9"	Fishfinder/GPS	800' / 250' ClearVu / 500' SideVu	GT52HW-TM (CHIRP/ ClearVu/SideVu)

Garmin Portable Fishing Kit



Take your fishfinder anywhere - perfect for kayaking, canoeing, johnboating, and more

- Rugged, portable bag protects and carries your fishfinder
- Base with built-in rigid handle
- Suction cup transducer mount and foam float
- Rechargeable battery and smart charger
- Compatible with 4", 5", and 7" Striker fishfinders with GPS, as well as the 4" and 5" echoMAP and echoMAP CHIRP combos
- 13.5" x 10.25" x 8.5"

GAR 010-12462-00

Garmin ECHOMAP UHD2 Combo Units


ECHOMAP UHD2 5cv

- Bright, sunlight-readable touchscreen with keyed assist
- Share data with other devices on your network (7" and up models only)
- Create your own maps on the fly and tailor them to fit your needs
- Manage your marine experience from nearly anywhere
- Connect to autopilots, digital switching, weather, FUSION-Link audio system, media, VHF, AIS and more from one screen
- Included transudcer provides Garmin CHIRP traditional sonar and Ultra High-Definition ClearVu, as well as SideVu on sv models. Plus, you get Garmin high wide CHIRP traditional sonar for remarkable target separation
- Built-In Wi-Fi (on the 7" & 9" models): Use the built-in Wi-Fi to access the ActiveCaptain mobile app for smart notifications, access to the Garmin Quickdraw Community and more
- Wireless networking
- With another ECHOMAP UHD2 chartplotter on your boat, you can wirelessly share information such as sonar, waypoints, and routes between them

UHD2 Series: Non-Touchscreen

Part #	Model	Display	Pre-Loaded Chart	Transducer
GAR 010-02592-50	UHD2 55cv	5"	Garmin Navionics+ Canada Inland & Coastal	GT20-TM
GAR 010-02596-50	UHD2 75cv	7"	Garmin Navionics+ Canada Inland & Coastal	GT20-TM

UHD2 Series: Touchscreen


ECHOMAP UHD2 65sv

Part #	Model	Display	Pre-Loaded Chart	Transducer
GAR 010-02682-00	UHD2 65sv	6"	GN+ Canada Inland & Coastal	GT54UHD-TM
GAR 010-02686-01	UHD2 75sv	7"	Garmin Navionics+ Canada Inland & Coastal	-
GAR 010-02686-00	UHD2 75sv	7"	Garmin Navionics+ Canada Inland & Coastal	GT54UHD-TM
GAR 010-02690-01	UHD2 95sv	9"	Garmin Navionics+ Canada Inland & Coastal	-
GAR 010-02690-00	UHD2 95sv	9"	Garmin Navionics+ Canada Inland & Coastal	GT56UHD-TM

Garmin ECHOMAP Accessories

GAR 010-12445-00 6' threaded power/data cable, 4-pin, includes NMEA 0183 inputs/outputs

Garmin GPSMAP X2 Series



- Experience advanced all-in-one solutions with these keyed combos
- Large, bright 10" or 12" screens coupled with quick and easy-to-use keypad interface with user-progammable keys and a multi-function control knob.
- Built-in high-sensitivity 10Hz GPS/GLONASS receiver
- Includes Quickdraw Contours map drawing software
- Supports Garmin Marine Network; allows sharing of sonar, radar, maps, user data, NMEA 2000 and NMEA 0183 support for network connectivity, including autopilots, digital switching, weather, media, VHF, AIS and other sensors
- Built-in wireless capabilities for ActiveCaptain app and VIRB action camera integration
- Includes Quickdraw Contours map drawing software
- Integrated ANT support for use with Quatix series marine watches, gWind Wireless 2 transducer, GNX Wind marine instrument and wireless remote controls
- SailAssist

XSV Series Sonar Features:

- Garmin single channel CHIRP sonar, CHIRP ClearVü and CHIRP SideVü scanning sonar
- Supports Panoptix all-seeing sonar and premium Garmin sonar modules

Part #	Model	Display	Description	Pre-Loaded Charts	Transducer
GAR 010-01741-03 **	GPSMAP 1242XSV	12"	Chartplotter/Fishfinder	US+Canada+Bahamas G3, LakeVu G3 (US only)	sold separately
GAR 010-01740-50	GPSMAP 1042XSV	10"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately
GAR 010-01740-60	GPSMAP 1042XSV	10"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	GT52HW-TM
GAR 010-01741-50	GPSMAP 1242XSV	12"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately
GAR 010-01741-60	GPSMAP 1242XSV	12"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	GT52HW-TM

** While Stock Lasts

► *Also See* Transducers pg 03-032

Garmin GPSMAP X3 Series


GPSMAP 943

- NEW higher-resolution touchscreen displays compared to previous. GPSMAP 743 offers 60% more pixels, and the GPSMAP 943 offers 50% more
- GPSMAP 743 and 943 offer nearly twice the processing power of previous generation devices
- GPSMAP 943 and 1243 offer IPS displays with touchscreen for wider viewing angles and superior clarity
- Supports Garmin Marine Network; allows sharing of sonar, maps, user data, radar, IP cameras and Panoptix sonar among multiple units
- Touchscreen displays offer sunlight readability, even with polarized sunglasses and edge-to edge screens
- Built-in high-sensitivity 10Hz GPS/GLONASS receiver
- Built-in Wi-Fi networking to pair with the free ActiveCaptain app for access to OneChart, smart notifications, software updates, and more
- J1939 and NMEA 2000 engine connectivity, and Garmin's exclusive OneHelm feature for connecting to compatible third -party devices, such as EmpirBus digital switching
- Integrated ANT support for use with Quatix series marine watches, gWind Wireless 2 transducer, GNX Wind marine instrument, and wireless remote controls
- SailAssist
- All models support Panoptix and Panoptix LiveScope sonar devices


Navionics+ US+Canada Chart

Part #	Model	Display	Description	Pre-Loaded Charts
GAR 010-02365-60	GPSMAP 743	7"	Chartplotter only	Garmin Navionics+ US+Canada
GAR 010-02366-60	GPSMAP 943	9"	Chartplotter only	Garmin Navionics+ US+Canada
GAR 010-02367-60	GPSMAP 1243	12"	Chartplotter only	Garmin Navionics+ US+Canada

XSV Series Sonar Features:

- Built-in Ultra High-Definition SideVu and ClearVu scanning sonars with high-contrast vivid colour palettes to help distinguish fish from structure as well as 1kW CHIRP traditional sonar and more

Part #	Model	Display	Description	Pre-Loaded Charts	Transducer
GAR 010-02365-61	GPSMAP 743xsv	7"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately
GAR 010-02366-61	GPSMAP 943xsv	9"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately
GAR 010-02367-61	GPSMAP 1243xsv	12"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately
GAR 010-03855-01	GPSMAP 1543xsv	15" Ultrawide	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately

Garmin GPSMAP 9000 Series

NEW

- Premium 4K IPS sunlight-readable touchscreen display available on the 13" and 17" models; 10" model features full HD display
- Glass helm with edge-to-edge design for seamless and modern look
- Processing power up to 7 times faster than previous generations for superior performance, and faster wireless ActiveCaptain app transfer speeds with 5GHz Wi-Fi connectivity
- Full suite of SailAssist features
- Build extensive networks with reliable connectivity and gigabyte speeds on the Garmin BlueNet network
- High-quality entertainment with video integration capabilities with HDCP distribution
- SAE J1939, NMEA 2000 & 0183 connectivity, as well as Garmin's exclusive OneHelm feature for connecting to compatible third-party devices such as EmpirBus digital switching
- Extensive engine integration with a wide range of support for outboard engine manufacturers
- Preloaded Garmin Navionics+ charts with Auto Guidance+ technology
- Connect your compatible Garmin devices and more with integrated Bluetooth and ANT technologies
- IPX7



Part #	Model	Display	Description	Pre-Loaded Charts
GAR 010-03175-01	GPSMAP 9210	10"	Chartplotter only	Garmin Navionics+ US+Canada
GAR 010-03176-01	GPSMAP 9213	13"	Chartplotter only	Garmin Navionics+ US+Canada
GAR 010-03177-01	GPSMAP 9217	17"	Chartplotter only	Garmin Navionics+ US+Canada

XSV Series Sonar Features:

- Dual 1 kW traditional sonar with ClearVu, SideVu, and support for built-in XCHIRP and RapidReturn (up to 2X)
- Additional 8-pin and 12-pin transducer ports

Part #	Model	Display	Description	Pre-Loaded Charts	Transducer
GAR 010-03175-03	GPSMAP 9210xsv	10"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately
GAR 010-03176-03	GPSMAP 9213xsv	13"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately
GAR 010-03177-03	GPSMAP 9217xsv	17"	Chartplotter/Fishfinder	Garmin Navionics+ US+Canada	sold separately

Garmin GPSMAP 8600 Series



- NEW updated graphics and user interface
- Beautiful widescreen multi-touch fully networked displays
- Built in high-sensitivity 10Hz GPS/GLONASS receiver
- Includes Quickdraw Contours map drawing software
- Supports Garmin Marine Network; allows sharing of sonar, radar, maps, user data, NMEA 2000 and NMEA 0183 support for network connectivity, including autopilots, digital switching, weather, media, VHF, AIS and other sensors
- Built-in wireless capabilities for ActiveCaptain app and VIRB action camera integration
- Use Garmin OneHelm to connect many third-party devices
- Integrated ANT support for use with Quatix series marine watches, gWind Wireless 2 transducer, GNX Wind marine instrument and wireless remote controls
- SmartMode control quickly changes all screens at a helm in sync
- J1939 support for engines and generators
- SailAssist

Part #	Model	Display	Description	Pre-Loaded Charts
GAR 010-02091-50	GPSMAP 8610	10"	Chartplotter	Garmin Navionics+ US+Canada+Bahamas, LakeVu (US only)
GAR 010-02092-50	GPSMAP 8612	12"	Chartplotter	Garmin Navionics+ US+Canada+Bahamas, LakeVu (US only)
GAR 010-02093-50	GPSMAP 8616	16"	Chartplotter	Garmin Navionics+ US+Canada+Bahamas, LakeVu (US only)

XSV Series Sonar Features:

- Built-in Garmin HD-ID sonar, true dual-channel CHIRP sonar and both ClearVü and SideVü scanning sonar with CHIRP technology (transducers sold separately)
- Supports a wide range of compatible Garmin transducers, including 40 - 250 kHz CHIRP, 260/455/800/1200 kHz CHIRP scanning (ClearVü and SideVü)
- Supports Panoptix LiveScope All-Seeing sonar
- Supports premium GSD 26 sonar module
- Transmit power: 1 kW RMS (8000W peak-to-peak); CHIRP: 1 kW RMS (8000W peak-to-peak)
- Graphic logging of water temperature and sonar recording
- All-in-one transducer options

Part #	Model	Display	Description	Pre-Loaded Charts	Transducer
GAR 010-02091-51	GPSMAP 8610XSV	10"	Chartplotter/Fishfinder	GN+ US+Canada+Bahamas, LakeVu (US only)	sold separately
GAR 010-02092-51	GPSMAP 8612XSV	12"	Chartplotter/Fishfinder	GN+ US+Canada+Bahamas, LakeVu (US only)	sold separately
GAR 010-02093-51	GPSMAP 8616XSV	16"	Chartplotter/Fishfinder	GN+ US+Canada+Bahamas, LakeVu (US only)	sold separately

Garmin Fluid Level Adapter



- Transition to digital from analog with this simple-to-install adapter
- Compatible with ECHOMAP and GPSMAP
- 16' total cable length
- 2" compass safe distance
- 1 W max NMEA 2000 power usage

GAR 010-11326-00

Garmin GRID 20 Remote



The GRID 20 remote input device provides intuitive remote access and control of your entire Garmin marine system.

- 360-degree joystick with a rotary knob and push-to-select button
- Designate 4 favorite keys to restore your system to a previously saved configuration
- Hard keys for quick access to important functions, including left and right screen switches, autopilot standby/engage, and more
- Dedicated SOS key
- IPX7
- Power source input: NMEA 2000, 9-32VDC or 2x AA batteries
- H: 2.2" x W: 5.6" x D: 2.7"
- Weight: 6.3 oz

GAR 010-02011-00

► *Also See* Transducers pg 03-032

Garmin GRID Remote



Remote input device provides full control of your compatible chartplotter. Rotary knob and joystick controls provide navigation through menus and screens and allows you to seamlessly navigate between monitors at a station - all while controlling single or multiple compatible monitors and multifunctional displays (MFDs) with 1 device. GRID can be integrated into a captain's chair for a low-profile controlling solution.

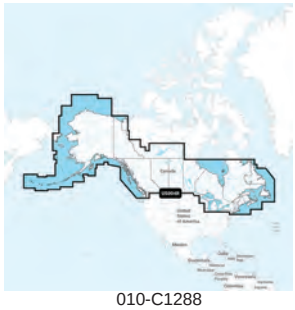
- Power source input: 10-35VDC
- H: 3-1/16" x W: 6-7/8" x D: 2-3/8"
- Weight: 9.1 oz

GAR 010-01024-00

Garmin GPSMAP Accessories

GAR 010-11613-00	6-pin to 8-pin sounder adapter wire block
GAR 010-12993-00	7x2 to 7x3 adapter plate
GAR 010-12993-01	9x2 to 9x3 adapter plate
GAR 010-12993-02	12x2 to 12x3 adapter plate
GAR 010-12770-00	Yamaha engine bus to J1939 adapter cable


010-C1485


010-C1288

Garmin Cartography Charts

- Detail-rich mapping of coastal features, lakes, and rivers
- New colour palette for a Navionics style appearance
- One-year subscription includes access to daily chart updates via the ActiveCaptain app

GAR 010-C1485-00	VISION+ Canada West & Alaska Lakes, Rivers, & Coastal
GAR 010-C1485-20	NAVIONICS+ Canada West & Alaska Lakes, Rivers, & Coastal

GARMIN MARINE CARTOGRAPHY

PRODUCT COMPARISON

	GARMIN NAVIONICS+™	GARMIN NAVIONICS VISION+™	BLUECHART® G3	BLUECHART® G3 VISION	LAKEVÜ™ G3	LAKEVÜ™ G3 ULTRA
Daily Updates	•	•				
Integrated Garmin & Navionics® Content	•	•	•	•	•	•
Auto Guidance+™ Technology	•	•				
Auto Guidance™ Technology			•	•	•	•
Depth Range Shading	•	•	•	•	•	•
Up to 1' contours	•	•	•	•	•	•
Shallow Water Shading	•	•	•	•	•	•
Raster cartography	Via ActiveCaptain app	Via ActiveCaptain app	Via ActiveCaptain app	Via ActiveCaptain app		
ActiveCaptain® AppSsupport	•	•	•	•	•	•
ActiveCaptain Community	•	•	•	•	•	•
Includes coastal mapping	•	•	•	•		
Includes lake charts	•	•			•	•
High-resolution relief shading*		Via ActiveCaptain app		•		•
High-resolution satellite imagery*		Via ActiveCaptain app		•		•
3D chart views		•		•		•
Aerial Photography		•		•		•
Dynamic Lake Level		•				•
Sonar imagery*		Via ActiveCaptain app		•		•
Side scan images		•				•

****Note: When you purchase a new Garmin Navionics+ or Garmin Navionics Vision+ cartography product, a one-year subscription is included. The subscription includes access to daily chart updates and download of premium features where available. Charts and features that are downloaded during the subscription period remain on the card, but no additional content can be downloaded after the subscription expires. For preprogrammed charts bought in-store or online, the subscription needs to be activated. When the year is over, you can renew to continue accessing daily updates and premium features.**

Garmin Navionics+ or Garmin Navionics Vision+ cartography requires that your compatible chartplotter software is updated to the January 2022 software release, which is conveniently preprogrammed on the cartography cards. The software is also available for download from the ActiveCaptain app or via Garmin Express™ software.

***Subscription feature**


GT23M-TM
GT51M-TM


GT15M-IH


GT23M-TH


GT52HW-TM
GT24UHD-TM


GT34UHD-TM


GT36UHD-TM

Garmin Transducers

- For a complete selection of transducers, please ask for the Garmin Transducer catalogue or visit www.garmin.com

Part #	Model	Type	Description	Features
GAR 010-01966-00	GT51M-TM	Transom Mount	CHIRP ClearVü/SideVü (260/455 kHz), 500W mid-band CHIRP sonar (80-160 kHz), 600W, 12-pin	Depth / Temp 30' cable
GAR 010-12402-00	GT15M-IH	Hull	Mid-band CHIRP traditional sonar (85-165 kHz), 600W, 8-pin	Depth 20' cable
GAR 010-12404-10	GT23M-TH	Thru-Hull Mount	Mid-band CHIRP traditional sonar (80-160 kHz) 600W CHIRP ClearVü (260/455 kHz), 500W, 8-pin	Depth / Temp 30' cable
GAR 010-12404-00	GT23M-TM	Transom Mount	Mid-band CHIRP traditional sonar (80-160 kHz), 600W CHIRP ClearVü (260/455 kHz) 500W, 8-pin	Depth / Temp 30' cable
GAR 010-12405-00	GT52HW-TM	Transom Mount	High wide band CHIRP traditional sonar (150-240 kHz), 250W CHIRP ClearVü/SideVü (2.0°x50° @ 455 kHz and 1.0°x30° @ 800kHz) 350W, 12-pin	Depth / Temp 20' cable
GAR 010-12776-00	GT34UHD-TM	Transom Mount	ClearVü/SideVü (800/1200 kHz), 500W, 12-pin	Depth / Temp 20' cable
GAR 010-12908-00	GT24UHD-TM	Transom Mount / Motor Mount	High wide band CHIRP traditional sonar (150-240kHz), 350W CHIRP ClearVü (760-880 kHz), 350W, 8-pin	Depth / Temp 20' cable
GAR 010-13072-00	GT36UHD-TM	Transom Mount / Motor Mount	ClearVü/SideVü (455/800/1000 kHz), 500W, 12-pin	Depth / Temp 25' cable
GAR 010-02732-10	GT56UHD-TH	Transom / Motor / Thru-Hull Mount	High wide band CHIRP traditional sonar (150-240 kHz), 350W CHIRP ClearVü/SideVü (455/800/1000 kHz), 500W, 12 pin	Depth / Temp 25' cable
GAR 010-02732-11	GT56UHD-THP (x2)	Transom / Motor / Thru-Hull Mount	High wide band CHIRP traditional sonar (150-240 kHz), 350W CHIRP ClearVü/SideVü (455/800/1000 kHz), 500W, 12 pin	Depth / Temp 25' cable
Panoptix Transducers				
GAR 010-01284-00 *	PS30	Transom Mount	LiveVü Down, RealVü 3-D Down and RealVü 3-D Historical, 144W, Ethernet	Depth 30' ethernet
GAR 010-01753-00 *	PS51-TH	Thru-Hull Mount	Premium FrontVü Forward-looking Sonar LiveVü Forward sonar, 96W, Ethernet	Depth / Temp 6' ethernet

* Special Order


GT56UHD


PS30


PS51-TH


PS22-TR

► *Also See* Propspeed Foulfree pg 07-010

Garmin 350W CHIRP Transducers

NEW

- Maximum depth: 800' saltwater, 1,200' freshwater
- CHIRP sonar frequency range from 85–165 kHz
- Auto-ID enables simple plug-and-play operation
- Bronze housing



GAR 010-02867-00 0° to 7°
GAR 010-02867-01 8° to 15°
GAR 010-02867-02 16° to 24°

Garmin 600W CHIRP Transducers

NEW

- Maximum depth: 1,200' saltwater, 1,900' freshwater
- CHIRP sonar frequency range from 85–165 kHz
- Auto-ID enables simple plug-and-play operation
- Stainless steel housing



GAR 010-02868-00 0° to 7°
GAR 010-02868-01 8° to 15°
GAR 010-02868-02 16° to 24°

Garmin Transducer Adapters & Cables

GAR 010-11613-10 Bare wire transducer to 12-pin sounder wire block adapter
GAR 010-11615-00 6-pin transducer to 4-pin sounder adapter cable
GAR 010-11617-10 4-pin transducer extension cable
GAR 010-11617-32 10' extension cable for 12-pin Garmin scanning transducers
GAR 010-11617-42 30' extension cable for 12-pin Garmin scanning transducers
GAR 010-11617-50 8-pin, 10' transducer extension cable
GAR 010-11617-52 8-pin, 30' transducer extension cable
GAR 010-12122-10 8-pin transducer with XID to 12-pin sounder adapter cable
GAR 010-12719-00 8-pin transducer to 4-pin sounder adapter cable



Garmin GMR Fantom X Radars



- 50W output power allows for longer range and improved target detection
- Up to 60 RPM rotation for faster screen refresh
- Power save feature lets you choose when you need more power or less
- Timed transmit mode: Specify active and inactive times down to the second
- MotionScope highlights targets in different colours as they move toward or away from you, and true echo trails more easily identify moving targets
- Beam width: 5.2° horizontal, 25° vertical

GAR 010-02584-00 18"
- Dia: 20" x H: 9.8"
- 14 lb

GAR 010-02585-00 24"
- Dia: 25.4" x H: 9.8"
- 17.4 lb

Garmin GMR 18 HD3 Radar



- 18" 40-watt
- 4 kW of transmit power and clear echo definition at all ranges
- Dynamic Auto Gain automatically adjusts to your surroundings for optimal performance in all conditions
- Dynamic Sea Filter automatically adjusts gain to changing sea conditions
- Overlays radar image on the chartplotter map page (autopilot or heading sensor recommended for best results)
- Comes with 15m cables
- Range: 36 nm maximum
- Dia: 20" x H: 9.8"
- 15.4 lb

GAR 010-02843-00 18"

Garmin Premium Sonar Module



- Designed for the serious sportfisherman, the GSD 25 premium sonar module is a remote network solution that provides outstanding fishfinding and bottom tracking capabilities for boats with networked GPSMAP 8000 or GPSMAP 7600 Series chartplotters
- Offers true dual-channel 1kW CHIRP, plus ClearVü and SideVü scanning sonar with CHIRP technology for the clearest scanning images on the water
- Transducer sold separately
- H: 2.6" x W: 9.9" x D: 7.6"

GAR 010-01159-00 GSD 25

Garmin GPS 24xd Receiver and Antenna



- Multi-band GNSS provides precise location accuracy
- Magnetic heading sensor provides accuracy to within 3°, stabilizing charts, radar overlay, and MARPA even at slow speeds
- Compatible with GPS, Galileo, GLONASS, and BeiDou for global usage
- Multi-SBAS compatibility corrects signal measurement errors and provides information about the accuracy, integrity, continuity, and availability of its signals
- 10 Hz position update rates for high-sensitivity tracking
- Easy installation with under-deck, pole and surface-mount options; NMEA 2000 network compatible
- 9 - 32VDC
- 19'8" cable
- D: 3-19/32" x H: 1-15/16"

GAR 010-02316-10

Garmin SteadyCast Heading Sensor



- Ensures bow orientation on your chartplotter matches your heading
- Heading accuracy of plus or minus 3 degrees
- Easy NMEA 2000 plug-and-play interface
- Simple 2-step calibration process
- 9-axis MEMS technology allows installation in any orientation located away from magnetic interference
- H: 1.3" x W: 2.1" x D: 3.4"
- IPX7

GAR 010-11417-10

Garmin GC 200 Marine IP Camera



Enjoy added security on your vessel with the GC 200 marine IP camera. Use multiple cameras to monitor areas above and below deck in clear, real-time HD video.

- Stream up to 4 cameras at a time on a single compatible Garmin chartplotter
- Use reverse-image setting on compatible chartplotters to help back out of tight locations such as crowded marinas
- Connect and share across multiple compatible chartplotters on the Garmin Marine Network
- Mount it in virtually any orientation, because its images can rotate 90/180/270 degrees
- Rugged, IPX7 water-resistant case
- 6m Garmin Marine Network cable
- Dia: 3.4" x H: 3.1"

GAR 010-02164-00

► Also See Sionyx Cameras pg 03-011 to 013

► Also See Radar Mounts pg 03-096 to 100



Garmin Reactor 40
Kicker Autopilot with GHC 50 Autopilot Display

Specially designed for boats with small gasoline outboard motors up to 25 horsepower.
- Large GHC 50 WVGA touchscreen display: 5.5" x 4.1" x 2"
- Helps maintain heading hold and route to keep you on course
- Includes convenient floating handheld remote control with gesture control for heading hold and course corrections
- Easily fine-tune autopilot throttle setting with the touch of a button to quickly drop to idle speed when netting a fish
- Easy to install and integrate with the included GHC 50 display to compatible Garmin chartplotters or NMEA 2000 network-compatible GPS system

GAR 010-02794-09



Garmin Reactor 40
Kicker Autopilot

Specially designed for boats with small gasoline outboard motors up to 25 horsepower.
- Helps maintain heading hold and route to keep you on course
- Includes convenient floating handheld remote control with gesture control for heading hold and course corrections
- Easily fine-tune autopilot throttle setting with the touch of a button to quickly drop to idle speed when netting a fish
- Includes stainless steel tilt tube for Yamaha & Honda outboards

GAR 010-00705-96



Garmin Reactor 40
Hydraulic Corepack with SmartPump and GHC 50

Complete package designed for powerboats.
- Large GHC 50 WVGA touchscreen display 5.5" x 4.1" x 2"
- Solid-state 9-axis Attitude Heading Reference System (AHRS)
- Automatically reacts to sea conditions to keep you on course
- Minimal commissioning and calibration
- Control your autopilot from anywhere on your boat using compatible Garmin devices, including the Reactor autopilot remote, select quatix watches, and more
- SmartPump v2 gives complete control in a smaller size with better thermal performance, higher reliability, and lower power consumption
- Patented Shadow Drive technology keeps you in control, even when autopilot is engaged

GAR 010-02794-01



Garmin Reactor 40
Hydraulic Corepack with SmartPump and GHC 50

Designed for hydraulically steered powerboats or sailboats (requires hydraulic pump).
- Large GHC 50 WVGA touchscreen display: 5.5" x 4.1" x 2"
- Solid-state 9-axis Attitude Heading Reference System (AHRS)
- Automatically reacts to sea conditions to keep you on course
- Minimal commissioning and calibration
- Control your autopilot from anywhere on your boat using compatible Garmin devices, including the Reactor autopilot remote, select quatix watches, and more
- Patented Shadow Drive technology keeps you in control, even when autopilot is engaged

GAR 010-02794-00



Garmin
Compact Reactor 40 Hydraulic Autopilot

Designed for boats less than 25' long, this Reactor 40 hydraulic autopilot is the perfect companion for your hydraulically steered system.
- Large GHC 50 WVGA touchscreen display: 5.5" x 4.1" x 2"
- Solid-state 9-axis Attitude Heading Reference System (AHRS)
- Automatically reacts to sea conditions - even when the boat is pitching and rolling, the autopilot will keep you on course
- Minimal commissioning and calibration
- Control your autopilot from anywhere on your boat using compatible Garmin devices

GAR 010-02794-08



Garmin Reactor 40
Mechanical/Retrofit/Solenoid Corepack w/ GHC 50

Ideal for sailboats and powerboats with direct or cable-actuated steering systems.
- Large GHC 50 WVGA touchscreen display: 5.5" x 4.1" x 2"
- Solid-state 9-axis Attitude Heading Reference System (AHRS)
- Minimizes heading error, course deviation, rudder movement and power consumption while providing a comfortable ride
- Minimal commissioning and calibration
- Supports heading hold, wind hold, step turns and tack/jibe modes

GAR 010-02794-02

Garmin Reactor Autopilot Remote



Water-resistant remote places autopilot control in the palm of your hand.

- Gesture control for heading hold and course corrections lets you simply point the remote where you want to go
- Bright, sunlight-readable colour display and an ergonomic design for comfort
- Programmable preset buttons allow quick access to your favorite functions
- Floats
- For use with GHC 20 and compatible chartplotters
- Power: 2 x AA batteries (not included)
- H: 2.0" x W: 6.0" x D: 1.3"

GAR 010-12833-10

Garmin Reactor Accessories

GAR 010-11156-30 *	CCU extension cable, threaded collar, 5m
GAR 010-11156-31	CCU extension cable, threaded collar, 15m
GAR 010-11532-00	Rudder feedback cable

* Special Order

Garmin GHC 50 Autopilot Instrument



- 5" touchscreen with edge-to-edge bright 800 x 480 WVGA display
- Works with all GHP Reactor autopilots, select quatix multisport marine smartwatches, Garmin autopilot remote, and GRID 20 remote
- Can be flat or flush mounted
- IPX7
- 9 - 32VDC
- Typical current draw 220 mA @ 12VDC
- 5.5" x 4.1" x 2"

GAR 010-02731-00

Garmin GHP SmartPump

SmartPump works for most boats and applications. Plus, you get complete control in a smaller size with better thermal performance, higher reliability and lower power consumption. It also includes color-coded connectors to make it very easy to install.
Our SmartPump is engineered from corrosion-resistant components including black dye on aluminum parts and nickel-plating on all steel parts.



- Power input: 11.5-30VDC
- H: 7-3/4" x W: 7-1/2" x D: 9-5/8"
- Weight: 16.5 lb

GAR 010-00705-62

Garmin Reactor 40 Pump Kit



Use the 1.2 litre per minute pump kit with your Reactor 40 system to pump hydraulic fluid to the steering cylinders and steer the boat. New and improved with ORB hydraulic ports and threaded cable collars for increased durability.

- W: 4.3" x H: 4.4" x D: 1.9"

GAR 010-00705-64

Garmin Shadow Drive



Gives boaters the security of knowing they maintain control even when relying upon the autopilot. Use this Shadow Drive attachment to automatically disengage the autopilot if the helm is turned, allowing the helmsman to maneuver the boat.

GAR 010-11054-00

Garmin GRF 10 - Rudder Feedback



The GRF 10 uses a magnetic sensor to relay position information, eliminating friction that causes other types of sensors to wear out. The arm of the GRF 10 is connected to the rudder of the boat and relays position information through the sensor to the mariner so they know where the rudder is – giving them an added peace of mind when starting from a stopped position, docking, launching or moving at slow speeds.

GAR 010-11829-00

Accessories:

GAR 010-11829-01	Extension cable, 16.4'
GAR 010-11829-02	Extension cable, 49.2'

Garmin GMI 20 Marine Instrument



- Marine instrument display clearly shows depth, speed, wind and 100+ marine and vessel parameters
- Bright 4" colour glass-bonded lens display with anti-glare finish
- Easy to read from a distance and 170 degree viewing angle
- Enhanced night time readability with backlight dimmer and full colour or new red/black or green/black colour schemes
- Enhanced daylight readability
- Size: 4.33" x 4.53" x 1.18"
- 320 x 240 pixels, QVGA display
- Rated: IPX7

GAR 010-01140-00

Garmin Fuel Sensor



Add fuel tracking capabilities to your Garmin chartplotter and optimize your boat's fuel economy. The GFS 10 tracks fuel flow use and sends the data to your chartplotter via the Garmin CANet or NMEA 2000.
Unlike other fuel flow sensors, the GFS 10 will include fuel level sensing capability when connected to an existing analog fuel gauge or resistive fuel tank sensor. Maximum fuel flow rate for the GFS 10 is 50 gal/hr, and the minimum flow rate is 2 gal/hr.

GAR 010-00671-00 GFS-10

Garmin AIS 800 Blackbox Transceiver



- Easy-to-use, reliable communication transmits your vessel information to other AIS receivers in the area while receiving AIS target data
- 5 watts of transmit power with Class B/SO provides faster position reporting than ever before
- Built-in GPS with connector for optional external antenna
- NMEA 2000 connectivity for easy integration with compatible chartplotters and multifunction displays
- Cost-saving internal VHF antenna splitter allows VHF and AIS to share a single antenna
- Easy-to-install black box unit with a small footprint
- 6.89" x 5.59" x 2.17"
- Weight: .9 lb

GAR 010-02087-00

Garmin GMS 10 Network Port Expander



The GMS 10 network port expander allows you to connect multiple chartplotters and sensors over the Garmin Marine Network. With this robust 100 MB switch, you can connect multiple multi-functional displays (MFDs) and sensors to the marine network and gain the benefit of Ethernet-like data transfer speeds up to 10 times faster than some competitive systems.

- Completely plug-and-play
- All connections are totally water resistant
- Size: W: 3.5" x H: 2.3" x D: 11.8"
- Weight: 1.2 lb

GAR 010-00351-00

Garmin Marine Satellite Compass



- Multi-band GPS (L1 and L5 GPS) and multi-constellation (GPS, Galileo, GLONASS and BeiDou)
- Built-in AHRS
- 10 Hz update rate
- NMEA 2000 compatible
- Backup magnetometer-based heading sensor
- Multiple receivers deliver heading accuracy within 2 degrees
- Reliable boat heave, pitch, and roll information
- Can be used as the primary sensor for autopilots and other onboard systems
- Includes compass, pole mount and mounting hardware, 6m NMEA 2000 backbone/drop cable, and T-connector
- IPX7
- 9-32V
- W: 6.1” x H: 3.0” x D: 13.1”
- 1.79 lb

GAR 010-02407-00

Garmin Handheld GPS



- Rugged, floating, water-resistant (IPX7) handheld GPS with a high-resolution color display and scratch-resistant, fogproof glass
- Save and track 10,000 waypoints, 250 routes, and 300 fit activities
- Supports multiple satellite constellations
- Preloaded BlueChart® g3 coastal charts
- 3-axis tilt-compensated electronic compass
- Barometric altimeter
- Transflective, 65-K colour TFT (240 x 400 pixels)
- High-speed USB and NMEA 0183 compatible
- 9.95 oz
- W: 2.67" x H: 6.85" x D: 1.67"
- 2 x 'AA' batteries (not included); NiMH or Lithium recommended (Battery life: up to 19 hours in GPS mode)

GAR 010-02635-02 GPSMAP 79sc

Garmin BlueNet 30 Gateway



The Garmin BlueNet 30 gateway is required for Garmin BlueNet network compatible devices to network with legacy Garmin marine devices.

- Includes: Garmin BlueNet 30 Gateway, power cable, mounting hardware, and 2m Garmin BlueNet network cable
- 9-7/16" x 2-13/16" x 4-7/16"
- 1.125 lb

GAR 010-02613-00

Garmin Network Cables & Connectors



GAR 010-10550-00	6', complete harness
GAR 010-10551-00	20', complete harness
GAR 010-10552-00	40', complete harness
GAR 010-12528-02	40', straight, small connectors
GAR 010-12531-01	Adapter cable, small (male) to large
GAR 010-12531-10	Adapter cable, small (female) to large
GAR 010-12531-20	Garmin Network to Fusion cable, large (M) to RJ45, 6'
GAR 010-12531-21	Garmin Network to Fusion cable, small (F) to RJ45, 6"
GAR 010-10580-10	PoE isolation coupler
GAR 010-10647-01	500', bulk
GAR 010-10580-00	Marine network cable coupler
GAR 010-10603-00	Marine network cable connectors (2/pkg)
GAR 010-11170-00	Split connector (18mm)
GAR 010-11533-00	Actuator power cable
GAR 010-12234-06	User data sharing cable
GAR 010-12531-00	Cable coupler (small)
GAR 010-02612-00	BlueNet 20 switch
GAR 010-12528-11	BlueNet network cable, 1'
GAR 010-12528-30	BlueNet network cable, 6'
GAR 010-12528-31	BlueNet network cable, 20'
GAR 010-12528-03	BlueNet network cable,50'
GAR 010-12528-13	BlueNet network cable,8", 90°
GAR 010-12531-02	BlueNet Network tp RJ45 adapter cable
GAR 010-12852-00	NMEA 0183 with audio cable

► *Also See* NMEA 2000 Network Accessories pg 03-053 to 061

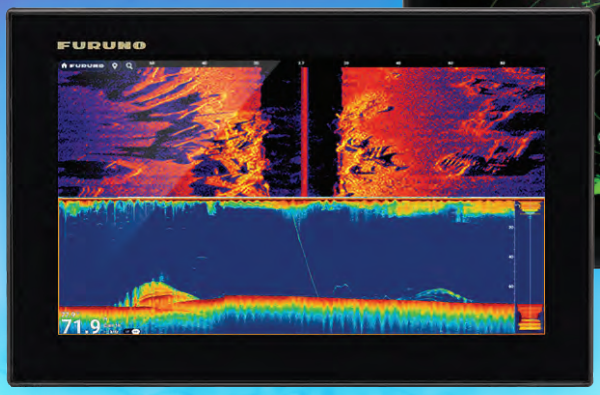
TZMAP

TZMAP
MFD SERIES

A Rock-Solid, Purpose-Built, Stand-Alone MFD Made Just For You.



TZMAP13 - 13"



TZMAP9 - 9"

Find Less Stress
& More Fish

With this streamlined MFD, Furuno is bringing big-boat confidence to everyone.



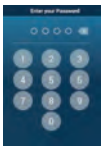
Less Stress

FURUNO



Furuno NavNet TZtouch3 Chart Plotter/Fish Finders

- More powerful quad-core processor for lightning-fast response
- Built-in Dual Channel 1kW TruEcho CHIRPTM & CW Fish Finder
- Chart Type: Vector or Raster or Satellite Photo or 3D Data or C-Map or CMOR
- Large 19" and 16" multi-touch IPS display for maximum brightness
- Hybrid 12" display with RotoKey and buttons for added accessibility



- Pin Code Lock - require a password to access your TZtouch3 upon startup
- Newly refined Layers menu and user interface make navigation easier than ever
- Follow-It creates an active, constant depth route from PBG maps created with DFF3D (sold separately), so you can keep your baits at a constant depth without having to adjust the reels
- CHIRP side scan is compatible with the TZT12F, TZT16F, and TZT19F (requires new transducer). Side-Scan will reach 750' to each side of the boat to let you see fish targets, crab pots, and bottom structure in extreme detail
- Frequency: CW 50-200kHz or CHIRP 40kHz to 225kHz
- Power Usage: 12-24 VDC
- Power Output: 300 W or 600 W or 1 kW
- Receiver Type: GPS: 72 channels, SBAS: 1 channel (C/A mode, WAAS)

Furuno
9" & 12" Hybrid Control IPS Displays



Captains who have smaller boats know that when you are crashing through the waves, it can be difficult to get an accurate tap on the screen. That's why we made our TZtouch3 9" & 12" MFD with a Hybrid Touch. You get the best of both worlds with a full multi-touch display and a handy, built-in keyboard that features a Rotokey, cursor pad and dedicated buttons!

- Display size: 12.1", Resolution: WXGA 1280 x 800

FUR TZT12F *

* Special Order

Furuno
16" & 19" Multi Touch IPS Displays

These lightning-fast Multi Function Displays features a sleek edge-to-edge glass display that delivers ultra-clear images from any angle. This MFD will not only make your helm functional but will also add style and ergonomics.

- Display size: 15.6", Resolution: FHD 1920 x 1080

FUR TZT16F *

- Display size: 18.5", Resolution: FHD 1920 x 1080

FUR TZT19F *

* Special Order

NEW



Furuno NavNet TZtouchXL Chart Plotter/Fish Finder

- Hybrid control - via touchscreen or RotoKey cursor pad
- Built-in dual channel 1 kW TruEcho CHIRP and CW Fishfinder
- Built-in 230 kHz CHIRP Side-Scan
- Powerful hexacore processor for rapid response
- Supports Furuno's next generation TZ Maps
- Free TZ Weather service delivers global and regional weather predictions from NOAA's Global Forecast System for any area you determine
- Dynamic Mooring integrates real-time weather forecasts with TZ Maps to provide colour coded mooring status
- Full HD 1920 x 1080 resolution
- 12/24V
- W: 15.1" x H: 9.3" x D: 4.3" (without bracket)

FUR TZT13X 13"

TZT Touch Remotes

Rotary Knob w/Joystick Remote Control



- This new remote controller offers the expandability of a hardware key operation in addition to the multi touch operation for NavNet TZtouch/NavNet TZtouch2
- 77 x 175mm

FUR MCU004

Joystick Remote Control



- 59 x 115mm

FUR MCU002 *

* Special Order

NEW



Furuno TZMAP Stand-Alone MFDs

- Ultimate combination of simplicity, power, and precision, all in a stand-alone unit
- Built-in single channel TruEcho CHIRP, CHIRP Side-Scan, radar compatibility, and the capabilities of TZ Maps
- Glass-front TFT displays with responsive, sunlight-readable multi-touch control
- Use in conjunction with the TZ iBoat app to gain Dynamic Mooring, weather, and fishing data
- Transmit Frequency: 50/200 kHz
- Transmission Power: 300 W / 600 W or 1 kW (may require matching box MB1100 for some transducers)
- Resolution TZMAP9: HD 1280 x 720
- Resolution TZMAP13: FHD 1920 x 1080
- IPX6
- 12/24V
- TZMAP9: W: 9.5" x H: 6.12" x D: 2.9" (without bracket)
- TZMAP13: W: 13.1" x H: 8.8" x D: 3.1" (without bracket)

FUR TZMAP9 9"
FUR TZMAP13 13"

Furuno TZT2BB Black Box



- Compatible with your choice of Multi Touch Display
- Screen Resolution: FHD 1920 x 1080 recommended, XGA 1024 x 768/SXGA 1280 x 1024 available
- Signal Interface: Picture: HDMI, Extended, HDCP, Touch panel: USB2.0, Windows 7 multi-touch
- Cartography: MapMedia mm3d chart (C-MAP/Navionics/ NOAA)
- Memory Capacity: 30,000 user points, 30,000 points for ship's tracks, 200 planned routes (500 points per route)
- Alarms: Anchor Watch, XTE, Proximity, Depth, Temperature, Speed, etc. 12 or 24VDC
- Transmit Frequency: 50/200 kHz
- Transmission Power: 600 W or 1 kW
- Modes: RezBoost, ACCU-FISH, Bottom Discrimination, A-Scope, Auto (Fishing/Cruising/Manual), Bottom Zoom, Bottom Lock
- LAN: 3 Ports (100 BASE-TX)
- USB: 5 Ports (USB2.0): Type A 4 Ports, microB 1 Port
- HDMI I/O: 1 port
- AUX I/O: 1 Port (External Event/MOB Input/Power Switch/ Alarm Output)
- Waterproofing: Processor Unit: IP22, Switch Box: IP56 (front), IPX2 (chassis)
- 15.1" x 11.8" x 5.1"
- 12 or 24VDC

FUR TZT2BB * Black Box
FUR MCU005 Control Unit, 11.5" x 3.9"
* Special Order

Furuno NavNet 3D & TZT Network Multi-Beam Sonar



Revolutionary 3D multi-beam sonar for deep and wide water columns: depths of over 980 feet, with Side Scanning over 650 feet

Instantly understand fish distribution at a glance: cross section displays the real-time sea column echo in 120 degrees port and starboard

Intuitive 3D Sounder History: useful in a variety of situations, such as selecting a fishing hot spot and assessing the seabed condition.

Better understand the depth of fish targets: a single (directly under boat) or triple direction (middle, left and right) fish finder image are displayed simultaneously.

- Frequency: 165 kHz
- Output Power: 800 W
- Range: 300 m down - 200 m sidebar Cross section
- Power Usage: 12-24VDC
- 15" x 12.4" x 4.7"

FUR DFF3D *
* Special Order



Furuno Fishfinder

- TruEcho CHIRP; combine CW & TruEcho CHIRP for added capabilities (FCV-800 only)
- RezBoost signal processing improves clarity and resolution for conventional CW transducers
- ACCU-FISH size and depth assessment function
- Bottom discrimination with 4 types of graphic displays (rock, sand, gravel, and mud)
- Bottom hardness output for external plotters such as TZ Professional and Olex
- Expanded echo colours to easily identify fish from seabed or structures, and white line feature displays the top edge of the bottom in white
- Adjustable gain setting to screen history, and configurable alarm function (depth, fish echo, speed, arrival, etc.)
- TLL output interfaces with your Furuno chart plotter to mark ground with various information such as depth, water temperature, fish size, and bottom type
- Sunlight and yellow colour palettes provide enhanced visibility under bright sunlight conditions
- Wireless connectivity allows secondary display or smart device capability
- Basic Range: 2 - 1,200 m
- IP56
- 12/24V

FCV600:

- 640x480 VGA, 600W output
- W: 8.27" x H; 6.65" x D: 4.09" (bracket mounted)

FUR FCV600 5.7"

FCV800:

- 800x600 SVGA, 600W/1kW output
- W: 11.42" x H: 11.06" x D: 5" (bracket mounted)

FUR FCV800 8.4"



Furuno
Multi-Touch GPS/WAAS Chart Plotters

Display Type: Color Multi Touch LCD
Chart Type: C-Map by Jeppesen
Power Usage: 12-24VDC
Range: 1500'
Frequency: Variable
Power Output: 300 W or 600 W or 1 kW

Multi Touch Interface

The all-glass, multi touch display gives you access to every feature via convenient and intuitive slide-out menus. Slide your finger down from the top of the display to select Quick Pages, including your favorite custom display modes, with a single tap. Slide out from the left to view customized Data Boxes. Slide up from the bottom to quickly adjust your layer settings. Finally, slide your finger out from the right side to instantly access the menu functions you use the most. Tap or double tab the display with two fingers to capture a screen shot or perform other customized functions. Everything in the menu is intuitive and contextual, so the content relates to the current display mode.

Powerful Chart Plotter with Internal GPS Antenna

The Chart Plotter utilizes full-featured C-Map 4D charts. C-Map 4D empowers you with plenty of useful data that you can overlay onto a rich vector chart, such as relief vectors, tidal streams and marine plans, significantly boosting situational awareness. Creating routes and waypoints is as simple as touch-and-go. When connected to an AIS receiver, you can see valuable AIS data on the display. C-Weather, which provides downloadable wind, wave, weather, humidity, and temperature information to add to your planning, is another standard feature.(Charts sold separately)

Built-In CHIRP and Conventional Fish Finders

The unit includes a built-in TruEcho CHIRP, as well as a conventional Fish Finder, transmitting at 300W, 600W or 1kW. Simply tell the unit what transducer you are using and it will select the type of Fish Finder to use. The TruEcho CHIRP transmits across a spectrum of frequencies, delivering an incredible amount of detail and clearly marking individual game fish and bait fish. The conventional Fish Finder includes RezBoost data processing for an ultra-crisp, high-resolution picture. Other features include ACCU-FISH fish size assessment, and the highly useful Bottom Discrimination function to help you find the most productive fishing grounds.

Wireless Radar Connectivity

Radar can be overlayed onto the Chart Plotter display via wireless connection to the Furuno DRS4W 1st Watch Wireless Radar. The DRS4W's wireless configuration makes it a breeze to add the compact 19" Radar dome to any vessel. The DRS4W can also display the Radar presentation on a connected smart phone or tablet, offering a major upgrade in safety and versatility.

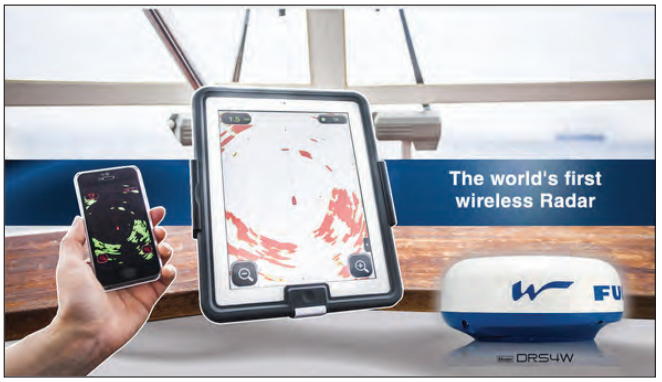
Autopilot Control

Via the CAN bus network interface, The NAVpilot 300 and NAVpilot 711C can be connected to the GP1871F and GP1971F and controlled directly from the Chart Plotter.

Navigation

Navigate with your choice of C-Map 4D or Navionics cartography

FUR GP1871F 7" display size
FUR GP1971F 9" display size



Furuno
1st Watch Wireless Radar

Radar that you can access directly from your iOS devices. You can bring the Radar display whenever you go, even put it on the iPhone in your pocket. Since the display is untethered, you are free to roam the vessel while maintaining full situational awareness of your surroundings.
Plug in the Radar, set up the free app from App Store and you're good to go. With familiar gestures it's a breeze to use; you can even use two iOS devices simultaneously.

- 4kW Radar antenna, powerful yet compact in size (19")
- Extremely economical power consumption (24W)
- Wireless LAN, first Radar in the world accessible from your iOS devices
- Exceptionally simple setup and intuitive operation with user-friendly & free iOS app
- Fast and easy installation process w/only a single power cable
- Simple touch interface with familiar gestures
- Vivid, multi-colour Radar target presentation
- User selectable range scale from 0.125 to 24 nm
- Two iOS devices – simultaneous operation

FUR DRS4W

Accessories:

FUR 001-266-010-00 15m power cable

Furuno 8.4" Colour LCD Radar (Stand Alone)



Display Size: 8.4" (IPx6 rating)
Display Type: Colour LCD
Antenna Size: 19"
Antenna Type: Radome
Range: 36 NM
Power Output: 4 kW
Band: X-Band

- Fast Target Tracking provides instant heading and speed info for up to 10 targets
- True Trail and True View modes (heading sensor required)
- AIS display for up to 100 targets (AIS receiver required)
- Advanced auto-adjust settings for Gain/Sea Clutter/Rain Clutter
- Digital Signal Processing for improved auto Gain/Sea/Rain controls
- Swivel mount bracket to adjust the angle of the display unit
- 12-24VDC input and low power consumption (Up to 38 W during transmit)
- 5.2-degree horizontal and 25-degree vertical beam width
- External pigtail cable eliminates need to open the dome to install the Radar cable
- (3) NMEA0183 inputs for GPS, heading, and AIS (Port 3 for heading only)
- (2) NMEA0183 outputs for TTM, TLL and RSD (with required nav sensor inputs)

FUR 1815

Furuno
Solid State Doppler Radars



Using the Target Analyzer function, targets that are approaching your vessel automatically change colour to help you identify when they are hazardous. Green echoes are targets that stay stationary, or are moving away from you, while red echoes are hazardous targets that are moving towards your vessel.
Echoes dynamically change colours as targets approach, or get farther away from your vessel. Target Analyzer improves situational awareness and can increase safety by showing you which targets to look out for.

- NXT, Solid-State pulse compression Doppler Radar
- Fast Target Tracking, up to 100 targets, will display speed and course vector in seconds
- RezBoost beam sharpening, equivalent to 2 degree beam width open array
- Bird Mode, track birds to find the best shiner grounds
- Simple installation, no need to open the radome, external PSU is not required
- New smart-connector cable for retrofitting existing DRS cable installations
- No warm-up time
- 12-24VDC
- Band: X-Band
- 48NM range

DOME, 25W:

FUR DRS2DNXT 19" radome
- 5.2° typical beam width (adjustable 2.6° - 5.2°) horizontal, 25° vertical

FUR DRS4DNXT 24" radome
- 3.9° typical beam width (adjustable 2° - 3.9°) horizontal, 25° vertical



OPEN ARRAY, 25W:

- 72NM range
- 12-24VDC

FUR DRS6ANXT/3 * 3.5' antenna
- 2.3° beam width

FUR DRS6ANXT/4 * 4' antenna
- 1.9° beam width

FUR DRS6ANXT/6 * 6' antenna
- 1.35° beam width

OPEN ARRAY, 100W:

- 96NM range
- 24VDC

FUR DRS12ANXT/4 * 4' antenna
- 1.9° beam width

* Special Order

► Also See Radar Mounts pg 03-096 to 100

Furuno
GNSS/SBAS Receiver

NEW



The GP340 is a high performance GNSS receiver designed for any type of vessel.

- Powerful 75 channel GNSS core provides extremely accurate position fixes within 3 meters
- 10 hZ refresh rate
- Capable of data output in NMEA 2000 or NMEA 0183 formats (0183 requires optional cable)
- Supports GPS, GLONASS, Galileo, QZSS, and Beidou
- Supports SBAS, including WAAS, EGNOS, MSAS, and GAGAN
- Includes all hardware required for deck or mast mounting, and a 6 meter cable with NMEA 2000 connector
- 12/24V
- Dia: 3.86"

FUR GP340

Furuno
GPS Receiver



The FURUNO GP39 GPS Navigator provides accurate and reliable position fixing, thanks to a 12-channel GPS receiver combined with integrated SBAS (WAAS/EGNOS/MSAS) technology. The GP39 has various display modes, including Plotter, Highway, Steering, NAV data, and Satellite monitor, as well as 2 user-customizable display modes, allowing you to select which data you want displayed on its 4.2" colour LCD. Up to 3,000 points of ship track, 10,000 waypoints and 100 routes (each with up to 30 waypoints) can be stored. The waypoint and route data can be exported/imported via a USB flash drive or signal converter.
The GP39 can be networked with a fish finder, sonar, radar or other navigation equipment for feeding highly accurate navigation data. The GP39 receives the TLL (Target Latitude/Longitude) sentence from networked fish finders or sonars and can display the received information, allowing you to easily mark fish school locations.

- Newly designed GPS core delivers enhanced position fixing accuracy
- Bright 4.2" high-resolution colour LCD (700cd)
- SBAS capable for better positioning calculations
- NMEA 0180 input port receives data from Fish Finder, Radar, etc.
- 7 display modes available, including 2 user-customizable modes
- Displays position data in Loran TD's
- USB port for importing/exporting waypoints and routes; Upload/download data in GPX format for easy transfer to TZtouch/TZtouch2
- "Click-In" hanger for easy mounting/dismounting and uses no knobs - also perfect for overhead mounts
- Multi-language ready

FUR GP39

Furuno GPS Antenna

- Furuno external GPS Antenna for GP1670F and 1870F. Also the replacement antenna for the 1650/1850 Series, 7000 Series, GP31, GP32 and GP33
- Includes 10 meter cable



FUR GPA017



Furuno Multi-Beam Transducers

The 165T series are multi-beam transducers for the DFF3D that affords a 120 degree port-starboard view of the underwater world. A built-in motion sensor stabilizes the display to give clear and stable images.

- DFF3D operating frequency: 165 kHz
- 2 x 10M cables, with 7 pin connector for the motion sensor and bare ended cable for DFF3D sonar
- Built-in motion and temp sensor

FUR 165T-B54	Bronze, thru-hull, with high speed fairing block
FUR 165T-TM54 *	Plastic, transom mount w/stainless kick-up bracket
FUR 165T-SS54 *	Stainless steel, thru-hull, with high speed fairing block

- 165T-50/200-SS260 includes the DFF3D elements along with 50/200 kHz elements
- 20/6° beam angles for sounder elements
- 3 x 12M cables with 10-pin connector, 7-pin connector, and pigtail cable for the DFF3D
- Recommended for a TZtouch2 or a TZtouch/DFF1, and DFF3D installation

FUR 165T-50/200-SS260 *	Stainless steel, thru-hull, with high speed fairing block

* Special Order

Airmar All-in-One Smart Sensor Bronze Thru-Hull Transducer



- View depth, speed and temp on any instrument, chart plotter, or radar display that accepts NMEA 2000 data
- 235 kHz frequency prevents mutual interference with other echosounders on the vessel
- Fast-response temperature sensor provides ±0.2°C accuracy
- Featuring Airmar's patented Smart Sensor technology
- 51 mm (2") fitting, overall length: 6-1/2"
- 6m (20') cable

AIR DST800L-235-N2

Bronze Thru-Hull Multi-Sensor



- 600W; 50/200 kHz
- 45/12 degree beam angles
- Depth, speed and temperature
- 30' cable with 10-pin connector
- High-speed fairing block included
- Bottom discrimination functionality

FUR 525STID-MSD

Bronze Thru-Hull Multi-Sensor



- 600W; 50/200 kHz
- 45/12 degree beam angles
- Depth, speed and temperature
- 30' cable with 10-pin connector
- High-speed fairing block included
- Bottom discrimination functionality

FUR 525STID-MSD7

Bronze Thru-Hull



- 600W; 50/200 kHz
- 46/10 degree beam angles
- 8 meter cable with 10-pin connector
- Bottom discrimination functionality

FUR 520-5MSD

Plastic Transom Mount Multi-Sensor



- 600W; 50/200 kHz
- 45/12 degree beam angles
- Temperature and removable speed assembly
- 30' cable with 10-pin connector
- Bottom discrimination functionality

FUR 525STID-PWD

Plastic Transom Mount



- 600W; 50/200 kHz
- 46/10 degree beam angles
- 8 meter cable with 10-pin connector
- Bottom discrimination functionality

FUR 525-5PWD

Plastic Thru-Hull Low Profile



- 600W; 50/200 kHz
- 45/12 degree beam angles
- 30' cable with 10-pin connector
- Bottom discrimination functionality

FUR 520-PLD

Plastic Thru-Hull



- 600W; 50/200 kHz
- 46/10 degree beam angles
- 8 meter cable with 10-pin connector
- Bottom discrimination functionality

FUR 520-5PSD


AIR-033-409


AIR-033-476

Furuno
High Speed Fairing Blocks

FUR AIR-033-409 L: 14" x W: 3" x L: 3"
FUR AIR-033-476 L: 14" x W: 3" x L: 3"

Plastic Thru-Hull Multi-Sensor



- 200W; 235 kHz
- Depth, speed and temperature
- 10 meter cable with 7-pin connector

FUR 235DST-PSE

Plastic Shoot-Through-Hull



- 600W; 50/200 kHz
- 45/15 degree beam angles
- 30' cable with 10-pin connector

FUR 520-IHD

► *Also See* Propspeed Foulfree pg 07-010

Furuno Transducer Accessories

FUR AIR-033-203 * Transducer extension cable, 4m
FUR AIR-033-270 * Transducer Y cable
FUR AIR-033-333 * Transducer pigtail, 2m
* Special Order

Furuno Heading Sensor NMEA 2000



- Angular velocity sensor and magnetic bearing sensor incorporated
- Automatic determination of installation site suitability
- L-shaped mounting base for mounting on bulkhead
- Output of magnetic bearing data to FURUNO CAN bus device
- Includes 6' NMEA2000 cable

FUR PG700

Furuno NavNet Ethernet Hubs

Furuno's ethernet hubs are for use with the NavNet series of Multi Function Displays.



Dedicated Interswitch Hub

- Eight ports

FUR HUB101 **



Marinized Ethernet Hub

- Five ports with twist lock waterproof connectors

FUR HUB102
** While Stock Lasts



Furuno
Compact Dome Satellite Compass

Antenna Type: Radome
Data Type: NMEA2000
Power Usage: 12-24VDC
Receiver Type: GPS or GLONASS or Galileo or QZSS or SBAS

The SC33 Satellite Compass provides highly accurate attitude information for navigation equipment such as Radar, Plotter, Autopilot, Fish Finder and Sonar. With its compact GNSS antenna and built-in processor, it can be used for a wide variety of applications on any type of vessel. This all-in-one system delivers incredibly accurate heading and roll & pitch information as well as heaving information, GPS position, SOG (Speed Over Ground), COG (Course Over Ground) and ROT (Rate Of Turn) data.

Employing a two-antenna system with a 3-axis gyro and acceleration sensors, the SC33 enables high-speed response capability. Advanced digital signal processing techniques compute accurate heading based on sensor data. NMEA2000 interface is standard for simple installation, while the optional interface unit IF-NMEASC is available for conventional NMEA0183, AD10 and contact closure.

A new GNSS antenna and advanced parallel signal processing allows the SC33 to achieve more precise Pitch, Roll and Heading measurement than conventional models, providing enhanced performance for all of your connected equipment. Its Micro-C pigtail NMEA2000 cable provides flexibility to run cables in challenging areas.

W: 27" x W: 10.4" x H: 5.5

FUR SC33 *
* Special Order

Furuno
Compact Dome Satellite Compass

Antenna Type: Radome
Data Type: NMEA2000 / 0183 Versions
Power Usage: 12-24VDC
Receiver Type: GPS or GLONASS or Galileo or QZSS or SBAS



Revolutionary Baseline Architecture
The unprecedented quad-antenna design of the SCX20 and SCX21 makes them capable of calculating extremely accurate heading, pitch, roll, and heave information. They are the perfect heading solution for complex vessel installations where the view of satellites may sometimes be obstructed.

Experience superior accuracy
Enhance the performance of on-board equipment such as Radar, Fish Finders, Sonar, and Autopilots. Accurate heading information empowers your NAVpilot to keep a better course, saving time, fuel, and money on every voyage; meanwhile, precise pitch, roll, and heave information stabilizes the display for many Furuno Fish Finders and Sonars, allowing for an accurate presentation even in the roughest of seas.

W: 9.8" x W: 7.64" x H: 3"

FUR SCX20 NMEA 2000
FUR SCX21 * NMEA 0183
* Special Order

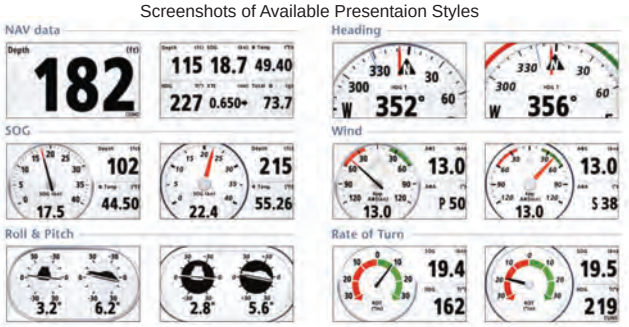
Furuno Remote Digital Display



- 4.3" "Sunlight Viewable" colour LCD (Brightness: 700 cd)
- Enhanced data legibility thanks to large characters and high resolution display
- Customizable display format from full-screen to a 6-way split screen presentation
- Supports CAN bus, NMEA2000 and NMEA0183 interfaces
- Two independent CAN bus input and output ports incorporated for daisy chain networking
- Internal NMEA0183/CAN bus conversion capability available
- Simultaneous alarm monitoring capabilities for Water Temp, Depth, Speed, Arrival, Anchor, XTE, Trip, Odometer, Timer and Countdown Timer, Roll & Pitch, Wind Speed, Wind Direction, and Battery

FUR RD33

Screenshots of Available Presentaion Styles



Furuno NMEA2000 Backbone Box



The FI5002 is an NMEA2000 Junction Box for use with NavNet 3D, TZT and the FI50 series of intrument displays, as well as the FI5001 Wind Sensor. The FI5002 features 2 NMEA2000 backbone ports, as well as 6 NMEA2000 ports. Its power requirements are less than 2A on a 12VDC system.

FUR FI-5002 *

* Special Order

Furuno Parts & Accessories

FUR IF-NMEA2K2	IF converter, NMEA200 - NMEA0183
FUR PSU012 *	Power supply unit DRS4A/6A w/MFD8
FUR WRJ-ADP-05M	Waterproof RJ45 (M) to RJ45 adapter cable
FUR 000-010-511	30m cable for FI 5001 sensor
FUR 000-154-054	5m NMEA 6 pin cable
FUR 000-154-028	5m NMEA 7 pin cable
FUR 000-156-405	Power cable assembly (NMEA0183)
FUR 001-167-890-10	5M LAN cable assembly RJ45XXRJ45 4P
FUR 001-167-900-10	10m LAN cable assembly RJ45XX RJ45 4P

* Special Order

Furuno NAVpilot

NAVpilot300 with GC-001



A revolutionary autopilot with a sunlight viewable display designed for a variety of vessels. It utilizes a self-learning and adaptive software algorithm, and plays the ultimate role in course-keeping capability. NAVpilot dynamically adjusts essential parameters during navigation, such as vessel speed, trim, draught, tide and wind effects, dead band, weather and more. These parameters are stored in system memory and continuously optimized to make the NAVpilot more versatile.

- Self-learning and adaptive software; each time the boat goes to sea, the software learns the sea conditions and calculates the best adjustment for smooth steering
- Fantum Feedback offers simplified installation while delivering enhanced steering control - no need for physical rudder feedback unit †
- Volvo Penta IPS, Yamaha Helm Master, Yanmar and SeaStar VCS compatible
- Easy installation and smart network-based system configuration
- Waterproof processing unit (IP55) and control unit (IP56)
- Optional revolutionary SAFEHELM2 and POWER ASSIST features



NAVpilot711C

- Selectable Economy and Precision navigation modes combine adaptive technology, providing fuel and power savings. Precision provides tighter course keeping, within 0.01 NM of the set course
- Autopilot control available from NavNet TZtouch3/TZtouch2/ TZtouch/GP-1871F/GP-1971F
- With the FishHunter function, 4 specific manoeuvres can be used around the specified target at a user selected distance. This feature can also be used for Man Overboard (MOB)
- NEW control features when paired with select Suzuki outboards, including speed control, route smoothing, point lock, auto stop on arrival, and Sabiki lock
- Perfect for inboard or outboard power boats and sail boats (NAVpilot-711C only)
- Gesture control (Navpilot300 only) via GC-001 controller allows you to steer your boat remotely via Bluetooth up to 10 m by holding the button and pointing. GC-001 is IP65/67 rated
- Customizable 4.1" TFT colour LCD screen with digital or analog displays, and colour day/night setting

FUR NAVPILOT300 *	Includes GC-001 gesture controller
FUR NAVPILOT300/PG *	Includes GC-001 and heading sensor
FUR NAVPILOT711C-O/B *	Outboard, includes heading sensor
FUR NAVPILOT711C	Includes rudder reference unit and heading sensor

Accessories:

FUR FAP7011C-A	2nd control unit for 711C
FUR PUMPHRP11-12 *	Hydraulic pump 1.1 CI/SEC 12V
FUR PUMPHRP17-12 *	Hydraulic pump 1.7 CI/SEC 12V

* Special Order

† Note: A Furuno PG700, SC33 or other compatible NMEA2000 vessel heading source is required.

Furuno FI70 - 4.1" Colour LCD Instrument/Data Organizer



The FI70 is a brand new instrument/data oOrganizer featuring a vibrant 4.1" Colour LCD screen. The screen is bonded for fog-free performance and is perfectly visible even in bright daylight. A variety of external sensors can be connected via the CAN bus network for simple and reliable operation. Display modes include: Heading, Wind, Engine, AIS, Graph, Timer, Highway, Nav Data, Rudder, Roll & Pitch, and more.

The FI70 boasts an amazing user interface - almost anything can be customized. Conveniently choose the way you want information to be displayed, in a way that is most relevant to you.

- Perfect cosmetic match for NavNet TZtouch/TZtouch2 and NavPilot 711C
- Beautiful, vibrant 4.1" colour LCD
- Use existing sensors with new analog IF-NMEAFI converter
- Low power consumption (0.15 A max)
- Simple AIS display through connected CAN bus devices

FUR FI70 *

* Special Order

Maretron Bright Colour Displays



High-resolution, sunlight viewable colour displays interpret and display NMEA 2000 instrument, navigation, and vessel monitoring data. User friendly, the DSM unit offers custom screen configurations and an easy-to-use five key illuminated keypad. In addition to the monitoring and display capabilities, they feature an alert/alarm package and electrical switching capability.

Unlike traditional single-display units, users can choose numeric, gauge, bar or graph formats in single or multiple displays, with cycling options possible for a wide range of favorite data. These multiple display options conserve mounting space and reduce overall system cost.

The DSM unit will directly connect with any NMEA 2000 network and with the exception of AIS data will display any or all information captured throughout the vessel. Various audio and visual alarms are also programmable.

The DSM unit displays a multitude of information including AC power, anchor status, battery, depth, electrical distribution, engine, environment, fuel management, GPS, heading, navigation, pressure/vacuum, rudder, speed, status indicators, tanks, temperature, time, transmission, water makers, weather, wind and more.

The displays are capable of sharing alert information with other DSM410 and DSM570 units as well as N2KView installations on the network.

- High alert
- Low alert
- Data unavailable alert
- On alert
- Off alert
- Circuit breaker tripped alert
- Course alert
- GPS quality alert
- Outside radius alert
- Inside radius alert
- Direction alert
- Timer alert

MRE DSM410-01 4.1" display
MRE DSM570-01 5.7" display

NAVIONICS
A Garmin Brand

Navionics Electronic Charts

Navionics +

GAR 010-C1467-30 Canada West & Alaska, Lakes, Rivers, & Coastal

Platinum +

GAR 010-C1467-40 Canada West & Alaska, Lakes, Rivers, & Coastal

NAV MSD/900P+ ** West Great Lakes
NAV MSD/901P+ ** East Great Lakes
NAV MSD/902P-2 ** Nova Scotia - St Lawrence River
NAV MSD/903P-2 ** Nova Scotia - Newfoundland

** While Stock Lasts

Note: Charts are not compatible with Garmin GPS chartplotters



010-C1467

	Navionics +	Platinum +
Coastal Content	✓	✓
Inland Content	42,000+ lakes	42,000+ lakes
Detailed Nautical Charts	✓	✓
SonarChart HD Bathymetry	✓	✓
Daily Updates	✓	✓
Dock-to-Dock Route Guidance	✓	✓
Plotter Sync	✓	✓
Community Edits	✓	✓
Advanced Map Options	✓	✓
SonarChart Live Mapping	✓	✓
High-resolution Relief Shading	-	✓
Satellite Imagery with SonarChart Shading Overlay	-	via Chart Installer
Sonar Imagery	-	✓
Aerial Photography	-	✓
3D View	-	✓

C-MAP by JEPPESEN



New C-MAP MAX-N

C-MAP MAX-N opens up a new world of performance for cruisers, sailors and fishermen, providing the detail, advanced features and coverage to fuel every boating adventure.

- Rich chart detail
- Harbor & approach details

MAX-N Wide & Local provides additional C-MAP features such as harbor and approach chart detail, detailed marina charts and coverage of inland rivers and lakes. Whether you have just purchased MAX-N BDS or are an existing owner of a compatible Lowrance, Simrad or B&G chartplotter, MAX-N Wides & Local provide expansive coverage based on Jeppesen's popular C-MAP MAX Wide charts.

Compatible with:

- Lowrance HDS Gen1 & Elite series
- Simrad NSS, NSO & NSE
- B&G Zeus

C-MAP MAX

C-MAP 4D MAX+ is the latest evolution of electronic charting technology, combining award-winning vector chart data with exclusive Dynamic Raster Charts and the ability to view charts in 2D or amazing 3D presentation with high-resolution satellite imagery. Packed with innovative features designed to enhance every cruising, fishing or sailing experience

- Local and Wide coverage available worldwide, and at a budget that suits your boating needs
- Ability to add future Value Added Data segments and features

Compatible with:

- Raymarine aSeries, cSeries, eSeries
- Raymarine eS Series & gS Series
- Raymarine Dragonfly (4D MAX ONLY)
- Furuno 1670F & 1870F
- Standard Horizon CPN 700 & CPN1010
- Humminbird ION & ONIX



Max C-Card

CMA NA-D021-SD	4D Canda North & East
CMA NA-D025-SD	4D Canada West
CMA NA-D026-SD	4D Great Lakes East Coast
CMA NA-D035-SD	4D NA West Coast
CMA NA-D051-SD	4D Canada Lakes West
CMA NA-D934-SD	4D Local Lake Ontario
CMA NA-D935-SD	4D Local St Lawrence River
CMA NA-D956-SD	4D Local Victoria to Cape Scott
CMA NA-D957-SD	4D Local San Juan to Nigei Island
CMA NA-D958-SD	4D Local Queen Charlottes



Micro SD Format

C-MAP MAX-N+

With huge coverage areas, up-to-date data and state-of-the-art features, no adventure is out of reach.

- Dynamic raster charts
- High-res satellite imagery
- High-res bathy fishing charts and sport fishing data
- Custom shaded depths and aerial photos
- Detailed marina charts
- Dynamic tides and currents

Compatible with:

- Lowrance HDS Gen 3, HDS Gen2 & Gen2 Touch
- Simrad NSS/NSO EVO2 & Go7
- B&G Zeus 2 & Vulcan



SD Format

Jeppesen MapMedia 3D (MM3D)

charts bring trusted C-MAP chart data and features to popular Furuno NavNet systems and other PC-based navigation solutions.

- Updated at least twice per year with the latest chart detail and information
- Bahamas coverage includes popular private charts from Lewis Offshore Limited and Wavey Line Publishing
- Comprehensive coverage of the Great Lakes, Western Rivers and key inland waterways
- Detailed Harbor Charts & Marina Diagrams
- Raster Charts for the Bahamas

Compatible with:

- Furuno Navnet 3D & TZ Touch & TZ Touch 2
- Nobeltec Timezero

C-MAP MAX

electronic charts have been a worldwide standard for years, providing cruisers, sailors and fishermen with the accurate, up-to-date chart data they need to enjoy each day on the water. Still a leading choice of navigators and chartplotter manufacturers around the globe.

- Updated twice annually to provide all the latest detail and information
- Extensive coverage of coastal waters, lakes and rivers
- Local, Wide and MegaWide coverage for all charting needs and budgets

Compatible with:

- Furuno• Standard Horizon
- Si-Tex
- Rose Point Coastal Explorer Software
- MaxSea Software
- Expedition Software



NT+ C-Card

CMA NA-M025-SD	Canada West (W48)
CMA NA-M025-C	Canada West (W48)
CMA NA-M026-C	Great Lakes & Maritimes
CMA NA-M021-SD *	North & East (W72)
CMA NA-M028-SD *	Alaska (W49)
CMA NA-M024-SD *	US Westcoast & Hawaii (W47)
CMA NA-M035-SD	Pacific Coast & Caribbean M/Wide
CMA NA-M035-C	Pacific Coast & Caribbean M/Wide

* Special Order



NT+ F-Card

C-MAP NT+

C-MAP NT+

For fishermen, sailors and cruisers who continue to depend on C-MAP NT+, we provide updates twice annually to ensure that navigators benefit from all the latest Coast Guard Notice to Mariner (NTM) changes and other important chart data updates.

- Rich chart detail and available data
- Easy on-screen queries of chart objects
- Local and Wide coverage areas available

Compatible with:

- Furuno Navnet1
- Raymarine

Maretron®

Vessel Monitoring & Control

Your ONE Source for Creating the Intelligent Boat



WSO200 Ultrasonic Wind and Weather Station



MBB300C Vessel Monitoring & Control Black Box





Smoke Detector



High Bilge Water Detector

Switch Indicator Module



MPower® Digital Switching Platform



DSM Series High Resolution Color Displays



VDR100 Vessel Data Recorder



TLM100 Tank Level Monitor



Cables & Connectors

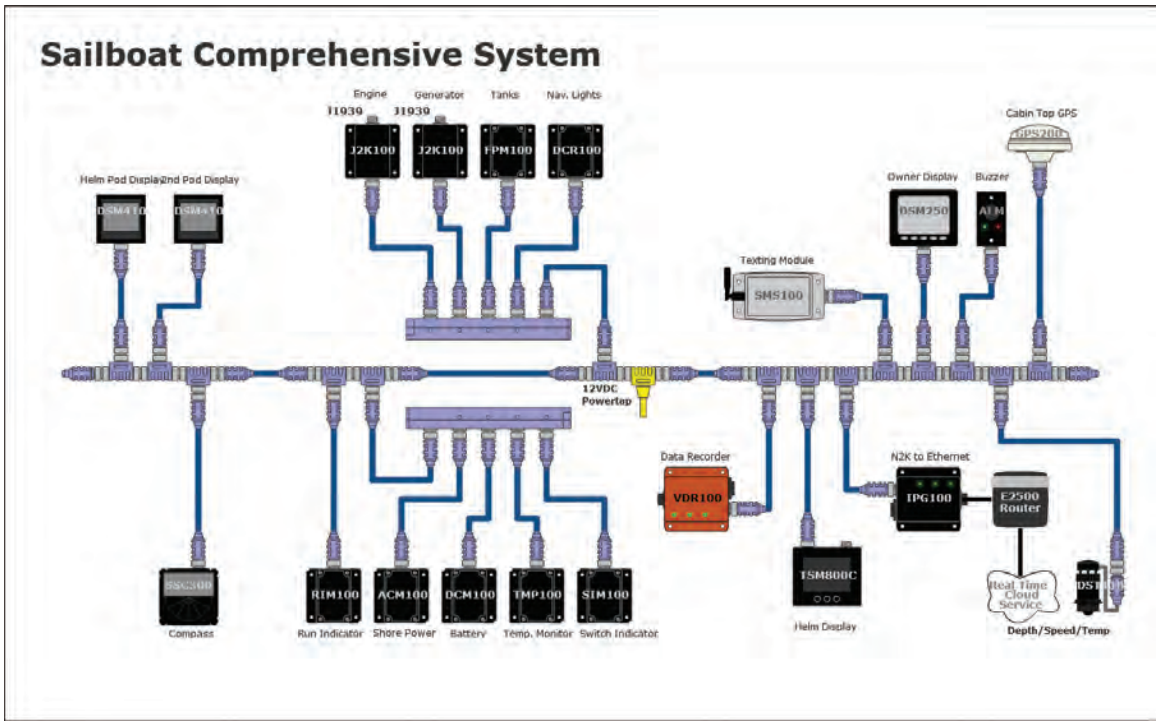




N2KView® Vessel Monitoring & Control Software

VESSEL MONITORING AND CONTROL	NMEA 2000® GATEWAYS AND BRIDGES	TANK & ENGINE MONITORING	NAVIGATION INSTRUMENTS	USER INTERFACE SOFTWARE AND HARDWARE	CABLES AND CONNECTORS

All Maretron Products Are NMEA 2000® Certified



Maretron Internet Protocol Gateway



The Internet Protocol Gateway (IPG100) lets you connect PC's, Mac's, tablets, or smartphones to an NMEA 2000 network using Maretron's N2KView software. This allows you to monitor and control your vessel from onboard or ashore, without needing to use directly connected black boxes or touch screens.
The IPG100 has an NMEA2000 and an Ethernet data port for exchanging information between the onboard NMEA2000 network and IP enabled devices using conventional technology such as routers, switches, and wireless modems. Once enabled, the IPG100 will automatically connect to Maretron's Real Time Cloud Service, which allows you to remotely connect to your vessel via the Internet.

- Works together with N2KVIEW software

MRE IPG100-01

Maretron USB Gateway



A gateway for bridging USB equipment using NMEA 0183 sentences - such as an on-board computer running navigational software - with an NMEA 2000 network. The gateway automatically converts incoming NMEA 2000 messages to NMEA 0183 sentences so you can continue benefiting from navigational and charting software that you already own while enjoying the many benefits of networked NMEA 2000 instruments.

MRE USB100-01

Maretron Fuel Flow Monitor



The FFM100 uses state-of-the-art, positive displacement metering technology for unprecedented accuracy. Additional benefits of the positive displacement metering technology are the elimination of flow conditioning components such as straighteners and pulsation dampers. Other flow meter technologies require flow conditioning components that increase system and installation cost. The FFM100 also uses true temperature compensation with embedded temperature sensors within the meters. The returning fuel is generally hotter than the supply fuel and if not properly compensated, inaccuracies as much as 5% can occur in computing the engine's fuel consumption. The FFM100 also detects momentary reverse flow in the fuel lines due to fluctuating pressure caused by the injection pump. Less accurate systems count the reverse fuel flow as part of the consumed fuel where the FFM100 properly accounts for momentary reverse flow.

Lastly, the FFM100 can be used for fluid types other than fuel (e.g., water, oil, etc.) by ordering the appropriate flow sender.

The FPM100 is NMEA 2000 certified so you can view any and all information anywhere on the vessel using a compatible NMEA 2000® display. The FFM100 is a key component of Maretron's N2KView® vessel monitoring and control system.

MRE FFM100-01

Fuel Flow Sensors

Connect the a fuel flow sensor to the NMEA 2000 network via a FFM100 fuel flow monitor. The fuel flow sensors are compatible with fuel, lubricating oil, hydraulic fluid, or other clean petroleum based products and should not be used with any other fluid types.

MRE M1AR	Flow range: 0.53 to 26.4 GPH, 2 to 100 LPH
MRE M2AR	Flow range: 6.6 to 132 GPH, 25 to 500 LPH
MRE M4AR	Flow range: 48 to 396 GPH, 180 to 1500 LPH



Maretron N2KVIEW Monitoring Software

N2KView is a comprehensive vessel monitoring and control software that goes beyond simple monitoring. With N2KView you get additional functionality including alerts, video, control, and fuel management. The alerts functionality allows you to setup as many warnings and alarms as you need so you can be forewarned of potential problems. With alerts, you can relax knowing that the system is watching for smoke, CO2, high bilge water, or anything else you deem important. N2KView video capability allows you to add cameras as part of the monitoring system - for example a camera in the engine room - or the cameras can be used as part of the security system. The control functionality gives you the ability to manage your electrical system; for example, you can turn lights or pumps on or off directly from N2KView and even tell if the lights or pumps are burned out and not working. Lastly, the fuel management function uses information from the fuel flow monitor, tank monitors, and GPS to provide advanced information like distance and time to empty as well as fuel rate and fuel economy.

Hardware

N2KView software can run on your vessel's computer or on standalone products like one of Maretron's TSM800C, TSM1330C displays or the Maretron Black Box (MBB300C) vessel monitoring computer.

If you want to run N2KView software on your vessel's computer, you will need either a Maretron USB100 or an IPG100, which are necessary to get sensor information from the NMEA 2000 network to the computer.

There is also a mobile version of N2KView which runs on iPhone, iPad, or Android devices.

About N2KView

N2KView is completely user-configurable and you are free to design different screens to your exact needs while easily switching from screen to screen for monitoring all your systems. Digital displays, analog gauges, graphic displays, warning lights, bar graphs, all can be configured exactly how you want them to be. You can even set the operating limits and colour bands for analog gauges so you know when things are within limits and when they are not.

MRE N2KVIEW Monitoring software

Maretron Solid State Compass



Solid state, rate gyro electronic compass that provides better than 0.7° heading accuracy through ±45° of roll and pitch angle, and better than 1° roll and pitch accuracy in static conditions. It delivers precise, reliable heading information ten times per second, plus vessel attitude including pitch and roll readings once per second.

- Compatible with the NMEA 0183 digital interface standard

MRE SSC300-01

Maretron Ultrasonic Wind and Weather Station



- Measures wind speed and direction, air temperature, barometric pressure, relative humidity, wind chill factor, heat index, and dew points
- Second generation enhancements are a user replaceable humidity sensor, higher signal to noise ratio, and lower power consumption
- Calculates using six ultrasonic sensors in delta configuration, with no moving parts to wear out, or get caught in the rigging
- Unaffected by issues such as bearing wear, salt and dirt build-up, or bird perching
- Precise wind speed and direction under tilt of up to 30 degrees
- NMEA2000 certified
- When combined with a Maretron DSM or dedicated TSM series display, or any device running N2KView V3 software, all data is visible on the NMEA2000 network for plug and play experience
- Add Maretgron DST110 triducer, GPS200 receiver, and SSC300 compass to view true vessel referenced wind speed and direction, as well as ground referenced speed and direction
- Mounts on 1”-14 TPI standard marine mount
- IP67 rated
- 9-32VDC
- Average current drain: < 50 mA
- Dia: 5.91” x H: 4.85” (including mounting bracket)

MRE WSO200-01

Accessories:

MRE DST110-01	Depth/speed/temp triducer
MRE GPS200-01	GPS/WAAS antenna/receiver
MRE SSC300-01	Solid state gyro compass

Maretron Triducer



- Delivers precise digital depth, accurate speed, and exact water temperature
- No programming or calibration necessary
- Smart sensor technology, retractable and removable sensor, and NMEA 2000 connectivity make the DST110 easy to interpret, install, connect, and maintain
- Water depth from 0.4m to 100m
- Water temperature from -10°C to +40°C at ±1.0°C accuracy
- accurate speed from 1 to 50 knots
- At 235kHz it can be used with a fishfinder
- Plastic housing is recommended for fibreglass/metal hulls only

MRE DST110-01 .6 to 100m depth

Maretron NMEA 2000 GPS Antenna/Receiver



32 channel GPS antenna and receiver capable of providing five position fixes per second, accurate boat speed four times per second, and precision time once per second. An additional benefit of the GPS200 is that it broadcasts precision magnetic variation information using the current position and world magnetic model. The GPS200 automatically decodes GPS correction signals from Satellite Based Augmentation Systems including WAAS, EGNOS, or MSAS to provide better than 2.5m accuracy.

- Dia: 4 x H: 1.65"

- Latitude
- Longitude
- Time
- Date
- Course over ground
- Speed over ground
- Magnetic variation
- Satellite status

MRE GPS200-01

Maretron Engine Gateway

Maretron's J2K100 attaches directly into J1939 networks of compatible engines, transmissions, and gensets and converts the J1939 data to the marine digital interface (NMEA 2000). Critical engine, transmission, and genset data is then distributed throughout the vessel over a single cable where it can be monitored by any NMEA 2000 compatible display. The J2K100 can also be used as part of a complete fuel computer. Simply connect the J2K100 together with Maretron universal displays (DSM Series, N2KView) and GPS antenna/receiver (GPS200), and you have a system capable of displaying gallons per hour and/or miles per gallon.

MRE J2K100-01

The J2K100 converts the following information:

- AC generator current
- AC generator frequency
- AC generator voltage
- Tachometer
- Engine hours
- Coolant pressure
- Coolant water temperature
- Dometic HVAC
- Dometic Icemaker
- Engine oil pressure
- Engine oil temperature
- Boost pressure
- Fuel rate monitoring
- Charging voltage
- Percent engine load
- Percent engine torque
- Rated engine speed
- VIN
- Software ID
- Transmission gear
- Transmission oil pressure
- Transmission oil temperature

The J2K100 is compatible with any engine, transmission, or genset equipped with a J1939 interface, including products from the following manufacturers:

- Caterpillar
- Cummins
- Detroit Diesel
- John Deere
- Kohler
- Northern Lights
- Onan
- Perkins
- Steyr
- Volvo Penta
- Yanmar

Maretron Alarm Module

Maretron's Alarm Module generates visual and audible alerts for any monitored condition. The alarm module can be triggered by alarms generated by Maretron's N2KView Vessel Monitoring System, or by Maretron's DSM250/DSM410 display.



- NMEA 2000 network interface
- Super loud 105dB audible alarm
- Bright red LED visual alarm
- Green LED status indicator
- Multiple selectable alarm patterns (32)
- Waterproof - can be mounted indoors or outdoors

MRE ALM100-01

Maretron Tank Level Adapter



The TLA100 is used to adapt commercially available resistive tank senders to the NMEA 2000 network. This allows you to observe tank levels anywhere on the vessel where there are NMEA 2000 compatible

- Adapts American standard (240-30 ohm) resistive senders
- Adapts European standard (10-180 ohm) resistive senders
- Calibrated for any resistance range from 0 to 300 ohms
- Accommodates irregularly shaped tanks
- 16 Programmable tank types including fuel, fresh water, waste water, live well
- Programmable tank number (s) up to 16 per tank type
- Programmable tank capacity
- Works alongside of analog gauges

MRE TLA100-01

Maretron Smoke/Heat Detector Kit

Kit contains a smoke/heat detector, auxiliary relay, and sounder designed to work in high temperature marine environments, such as engine rooms.



- Transient rejection algorithms reduce false alarms
- Samples once every four seconds
- Yellow flashing LED to indicate dirty detector, or other faulty operation
- Components are rated from -25˚C to +70˚C
- 24VDC
- Dia: 3.82" x H: 1.65 (without base)

MRE SH-003

Maretron Rudder Angle Adapter

The RAA100 is used to adapt commercially available resistive rudder angle senders to the NMEA 2000 network. Compatible with both the American standard (240-33 ohm) and the European standard (10-180 ohm) resistive senders. Can be calibrated for any resistance between 0 and 300 ohms. You can also use the RAA100 with existing analog gauges.



- Rudder angle
- Rudder order

MRE RAA100-01

Maretron Direct Current Relay Module



Contains 6 Direct Current (DC) relays, each capable of switching up to 10amps. The DCR100 connects directly to an NMEA 2000 network, so you can turn on and off the relays from any device onboard or remotely running Maretron's N2KView software. The DCR100 easily handles resistive DC loads like lights, or inductive DC loads like pumps and motors. The DCR100 can also be used to switch AC circuits using external relays. An added benefit of the DCR100 is that it reports the current through each of the six channels. This allows you to determine if loads are drawing too little electrical current such as burnt out bulbs, or if the loads are starting to draw too much electrical current.

- Six relays for on/off control over NMEA 2000 network
- Each relay capable of carrying up to 10 amps
- Individual relay electrical current monitoring
- Automatic relay over current shutdown (shuts down at ≈ 12 amps)
- Automatic relay thermal shutdown (over temperature protection)

MRE DCR100-01

Maretron HTML5 Web Server

NEW

- Real time data on web pages that can be displayed on multiple phones, tablets, PCs, or MFDs simultaneously
- Direct connections to (2) NMEA 2000 busses, receiving data from both independently – allowing monitoring primary and secondary, or independent navigation and monitoring busses without the need for a bridge
- USB 3.0 port, and RJ45 ethernet port
- WiFi: 2.4 & 5 Ghz; Bluetooth: 5.0 & BLE
- Can support simultaneous access from up to (4) users
- ABS plastic front with aluminum back, and aluminum heatsink
- 9-32V, reverse polarity protected
- 5W power usage
- IP67
- W: 6” x H: 4.04” x D: 2.68”
- 3 lb



MRE WSV100-01

Maretron Engine / Vessel Monitoring

Maretron brings you plug-and-play engine and vessel monitoring electronics for distributing critical data throughout the vessel. Whether you're down in the engine room or up at the fly bridge, all the information you need is available everywhere you need it. Gone are the days of disparate systems that fail to communicate with each other. With Maretron's networked electronic components like engine and tank monitors, vessel data is combined for advanced features like fuel economy (MPG or GPM) or distance and time to empty (calculated from engine fuel rate, vessel speed from GPS, and fuel remaining from tank monitor). Finally, true vessel monitoring on a single network combining information for display anywhere and everywhere you need it.

Vessel Monitor and Control Black Box



- Dedicated processing unit includes N2KView vessel monitoring and control software
- Ruggedized for marine use, with a solid state disk drive
- Dissipates less than 10W, no need for internal cooling fans
- 9-36V Power supply
- Dual CANBus for single or redundant NMEA2000 network connections
- Four USB ports for touchscreen, keyboard, mouse, trackball, or thumb drive connections
- VGA or HDMI video connection (2560 x 1600 max resolution)
- Ethernet connector for IP camera input, email alert notification, and Maretron analytic cloud service
- L: 8.02" x W: 5.21" x H: 1.91"

MRE MBB300C-01

Run Indicator Monitor



- Monitors and reports the running status of connected devices
- Works with both AC and DC loads
- Works with both automatically and manually switched loads
- Can indicate the status of a wide variety of loads: Bilge pumps, Winches, Running lights, Transfer pumps, Exhaust/intake fans
- Monitors fuel and detects presence of water in fuel

MRE RIM100-01

Temperature Monitor



- Measures the temperature for up to 6 probes
- Four channels for thermistor probes and 2 channels for high temperature thermocouple probes
- Wide variety of applications supported with optional temperature probes (see below)

MRE TMP100-01

Accessory Probes:

MRE TP-AAP-1	Ambient air temperature probe
MRE TP-EGT-1	Exhaust gas temperature probe
MRE TP-IP-1	Immersion temp probe
MRE TR3K	Ring/under bolt temperature probe

Fluid Pressure Monitor



- Adapts up to six pressure transducers to the NMEA 2000 network
- Each channel independently programmed to match pressure transducer characteristics
- Each channel independently programmed in pressure/vacuum mode or tank level mode

* Pressure transducers up to 5000 PSI available as a special order

MRE FPM100-01

Pressure Transducers:

MRE PT-0-3PSI-01	0 TO 3 PSI
MRE PT-0-5PSI-01	0 TO 5 PSI
MRE PT-0-500PSI-01	0 to 500 PSI
MRE PTS-0-5PSI-01 **	0 to 5 PSI, submersible
MRE PTS-0-1.5PSI-02	0 to 1.5 PSI, submersible
MRE PTS-0-3PSI-02	0 to 3 PSI, submersible
MRE PTS-0-5PSI-02	0 to 5 PSI, submersible

** While Stock Lasts

Alternating Current (AC) Monitor

Maretron's ACM100 is a device which monitors AC power sources and outputs information about these sources onto the industry standard NMEA 2000® marine data network.



MRE ACM100-01

Accessories:

MRE M000630	100 amp transducer w/cable
MRE M000612 *	400 amp transducer w/cable

* Special Order

Direct Current (DC) Battery Monitor

An advanced electronic monitoring device used to measure the voltage and current of any direct current (DC) power source or load.



- Battery Voltage & Current
- Ripple Voltage
- Battery Case Temperature
- State of Charge
- Time Remaining
- Charge Efficiency Factor

MRE DCM100-01

Accessories:

MRE LEMHTA400-S *	400 amp transducer w/cable
MRE LEMHTA600-S *	600 amp transducer w/cable

* Special Order

Switch Indicator Monitor

Monitors switch closure devices.



- Heat & Smoke detectors
- Carbon monoxide detectors
- Gas detectors
- Bilge water detectors
- Magnetic switches
- Glass break detectors
- Clogged fuel filter detection (excessive vacuum)
- Door, hatch, and porthole magnetic switches

MRE SIM100-01

Tank Level Monitors

Ultrasonic, or sound waves, are transmitted via the TLM100 mounted at the top of the tank and the flight times of the sound waves to and from the fluid are measured much like a depth sensor.

The TLM100 is capable of sensing fluid levels in tanks up to 40" (1.02m) in depth. It can be used for diesel, fresh water, waste water, black water, and oil tanks (use TLM150 for gasoline tanks). Unlike most tank senders that only work with rectangular tanks, the TLM100 can be calibrated for irregular tank shapes so you can know the true fluid level in your tanks.



- Diesel tanks
- Fresh water tanks
- Live well tanks
- Waste water tanks
- Black water tanks

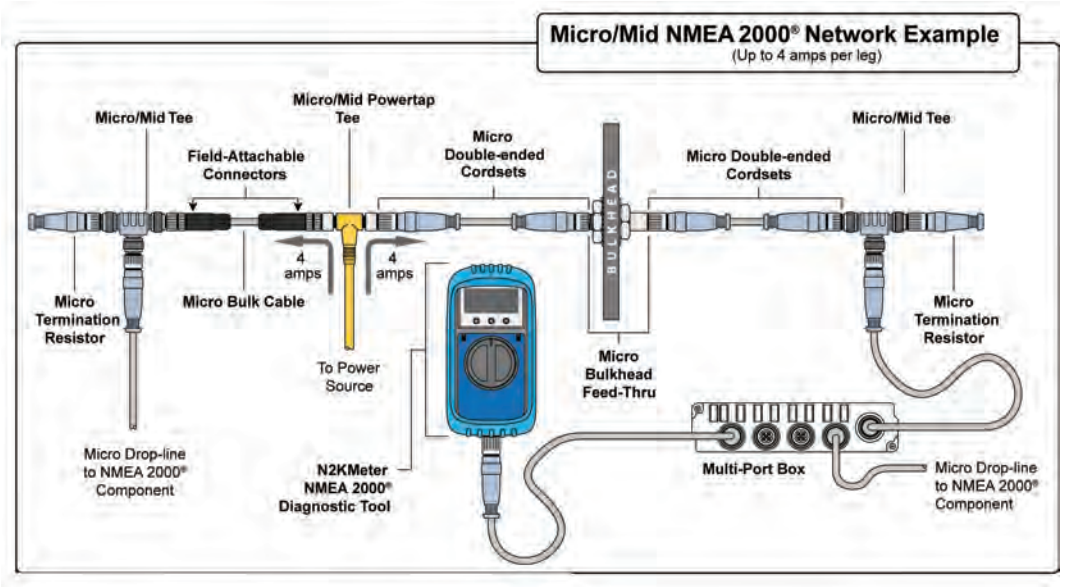
MRE TLM100-01	Tank level monitor (40"depth)
MRE TLM150-01	Gasoline tank level monitor

Accessories:

MRE TA-5H-1.5NPT	Tank adapter
MRE TFT-5H	SAE non-disp. hull focus tube

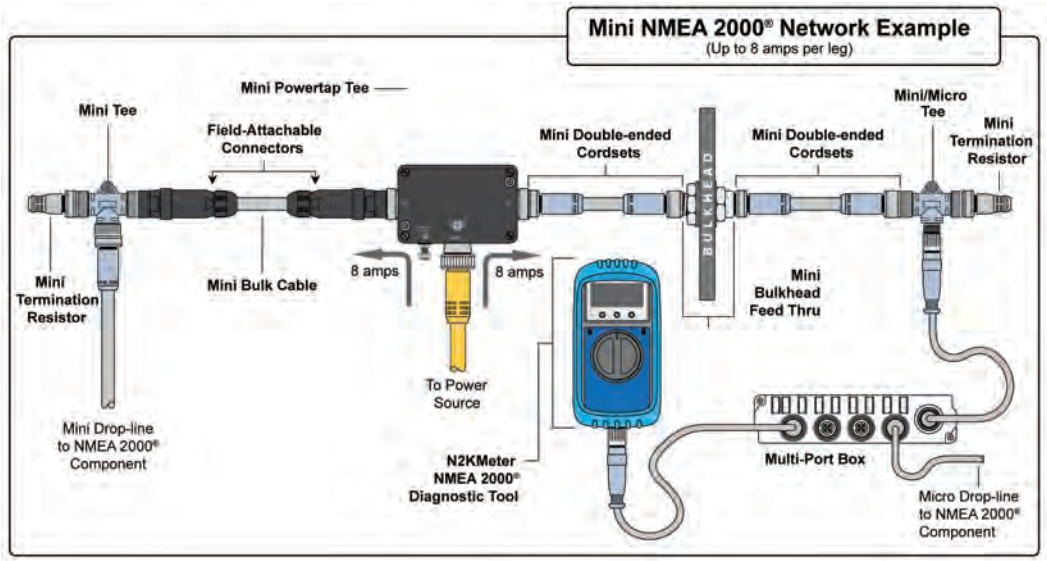
About NMEA 2000 Cables and Connectors

The NMEA 2000 standard goes beyond defining message content and includes requirements for the cabling used to interconnect electronic components (referred to as the physical interface). The following catalog pages contain the NMEA 2000 approved network interconnect components used to build an operational network.
About Micro, Mid and Mini Cable Systems There are three types of NMEA 2000 cabling systems, Micro, Mid and Mini. The Micro/Mid cable system is generally used for smaller networks requiring less power (i.e., less than 4 amps per network leg) while the Mini cable system is used for larger networks (i.e., more than 4 amps but less than 8 amps per leg).



Maretron NMEA 2000 Cable Features

- Simple trunk and drop line topology interconnects all NMEA 2000 equipment
- Drop line topology allows powered component removal or re-connection while rest of network remains operational
- Cable includes power and ground for powering equipment drawing less than 1 amp/device
- Connectors include keys and keyways for simple error free connections
- Screw thread connectors reduce chances of accidental disconnects of essential equipment
- Waterproof connection system prevents corroded intermittent connections and continues to operate even while submerged in the bilge
- Three independent cable shields (power pair, signal pair, and overall cable) protects system from external noise sources such as high power radio transmitters and radar units
- Nickel plated brass connector ends ideally suited to harsh marine environment
- Phosphor bronze contact base material with gold over nickel plate for reliable connections
- Overmolded cable connector ends provide strain relief
- Simple easy to use diagnostic components enable trained and untrained personnel to diagnose and troubleshoot network installations



Maretron Micro Cables

MRE CM-CG1-CF01.0	Micro double end cordset 1m grey
MRE CM-CG1-CF-02	Micro double end cordset 2m grey
MRE CM-CG1-CF-03	Micro double end cordset 3m grey
MRE CM-CG1-CF-04	Micro double end cordset 4m grey
MRE CM-CG1-CF-05	Micro double end cordset 5m grey
MRE CM-CG1-CF-06	Micro double end cordset 6m grey
MRE CM-CG1-CF-10	Micro double end cordset 10m grey
MRE CG1	Micro cable grey (sold per foot)

Maretron Mid Cables

MRE DM-DB1-DF-00.5	Mid cable double end cord 0.5m blue
MRE DM-DB1-DF-01	Mid cable double end cord 1m blue
MRE DM-DB1-DF-02	Mid cable double end cord 2m blue
MRE DM-DB1-DF-03	Mid cable double end cord 3m blue
MRE DM-DB1-DF-04	Mid cable double end cord 4m blue
MRE DM-DB1-DF-06	Mid cable double end cord 6m blue
MRE DM-DB1-DF-08	Mid cable double end cord 8m blue
MRE DM-DB1-DF-10	Mid cable double end cord 10m blue
MRE DF-DB1-25.0*	Mid single ended cordset 25m blue
MRE DB1	Mid cable blue (sold per foot)

Maretron Micro/Mid Connectors

MRE CF-SPWR05-CF	Micro/Mid powertap tee 5m
MRE CM-CF-4	Micro/mid 4 way multi-port box
MRE QCM-CG1-QCF01	Nylon to metal cable connector
MRE FA-CF-ST	Micro/mid field att.connector, female
MRE FA-CM-ST	Micro/mid field att.connector male
MRE FA-CF-90	Micro/Mid 90 field attach, female
MRE FA-CM-90	Micro/Mid 90 field attach, male
MRE IT-CM-CF	Micro/Mid in-line termination resistor
MRE CM-CF-CF	Micro/Mid tee
MRE TR-CF	Micro/Mid termination resistor, female
MRE TR-CM	Micro/Mid termination resistor, male
MRE M000101	Micro/Mid cap for female connector
MRE M000102	Micro/Mid cap for male connector
MRE BHF-CM-CF	Micro/Mid bulkhead feed-thru
MRE ELB-CM-CF	Micro elbow

Maretron Mini Cables

MRE NM-NB1-NF-00.5 *	Mini double end cord 0.5m blue
MRE NM-NB1-NF-01.0 *	Mini double end cord 1m blue
MRE NM-NB1-NF-02.0 *	Mini double end cord 2m blue
MRE NM-NB1-NF-03.0 *	Mini double end cord 3m blue
MRE NM-NB1-NF-04.0 *	Mini double end cord 4m blue
MRE NM-NB1-NF-05.0 *	Mini double end cord 5m blue
MRE NM-NB1-NF-06.0 *	Mini double end cord 6m blue
MRE NM-NB1-NF-08.0 *	Mini double end cord 8m blue
MRE NM-NB1-NF-10.0 *	Mini double end cord 10m blue
MRE NG1	Mini cable grey (sold per foot)

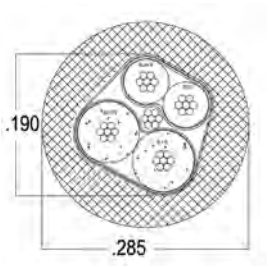
* Special Order - may have stock

Maretron Mini Connectors

MRE FA-NF-ST	Mini field att.connector female
MRE FA-NM-ST	Mini field att.connector male
MRE NF-NM4P-NF	Mini powertap
MRE NM-CF-NF	Mini/micro tee
MRE TR-NM	Mini/micro termination resistor male
MRE TR-NF	Mini/micro termination resistor female
MRE TRL-NF	Mini/micro termination resistor female LED
MRE BHF-NM-NF	Mini bulkhead feed
MRE NM4P-05	Mini power cordset 5m

Maretron Micro Cable





OVERALL

Outer Jacket Mat/Colour:	PVC/Grey
Insulation Material:	PE (data wires), SRPVC (power wires)
Construction:	4x22 (0.65mm) AWG, 22 (0.65mm) AWG Drain
Shielding (3 Levels):	FOIL (overall), FOIL (power pair), FOIL (data pair)

POWER PAIR

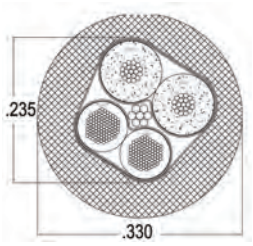
Wire:	2X22 (0.65mm) AWG
Resistance/Conductor:	18.1 Ohms/1000ft
Max Amperage:	6 Amps
Colour Code:	Red/Black

DATA PAIR

Wire:	2X22 (0.65mm) (AWG)
Characteristic Impedance:	120 Ohms ± 10%
Capacitance:	11.33pF/fT ± 10%
Colour Code:	White/Blue

Maretron Mid Cable





OVERALL

Outer Jacket Mat/Colour:	PVC/Grey – DG1 PVC/Blue – DB1
Insulation Material:	PE (data wires), PVC (power wires)
Construction:	2x16 (1.29mm) AWG, 2x20 (0.81mm) AWG, 20 (0.81mm) AWG Drain Wire
Shielding (3 levels):	Foil (overall), Foil (power pair), Foil (data pair)

POWER PAIR

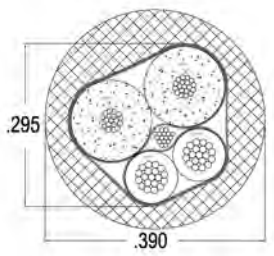
Wire:	2x16 (1.29mm) AWG
Resistance/Conductor:	4.1 Ohms/1000 ft max
Max Amperage:	14 Amps
Colour Code:	Red/Black

DATA PAIR

Wire:	2x20 (0.81mm) (AWG)
Characteristic Impedance:	120 Ohms ± 10%
Capacitance:	10.75 pF/ft
Colour Code:	White/Blue

Maretron Mini Cable





OVERALL

Outer Jacket Mat/Colour:	PVC/Blue – NB1PVC/Grey – NG1
Insulation Material:	PE (data), PVC (power)
Construction:	2x15 (1.45mm) AWG, 2x18 (1.02mm) AWG, 18 (1.02mm) AWG Drain Wire
Shielding (3 Levels):	Foil (overall), Foil (power pair), Foil (data pair)

POWER PAIR

Wire:	2x15 (1.45mm) AWG
Resistance/Conductor:	3.44 Ohms/1000 ft max
Max Amperage:	16 Amps – NB1 14 Amps – NG1
Colour Code:	Red/Black

DATA PAIR

Wire:	2x18 (1.02mm) AWG
Characteristic Impedance:	120 Ohms ± 10%
Capacitance:	12 pF/1000 ft Max
Colour Code:	White/Blue



Maretron
NMEA 2000 Network Bus Extender

Maretron's NBE100 allows you to go beyond the maximum NMEA 2000 network design rules, and extend an NMEA 2000 network to two, three, four, and even five times larger than normal.

- Segments a single large NMEA 2000 network into smaller multiple electrical segments
- Allows you to exceed the 50 product, 200 meter trunk length, and 78 meter drop length limitations on an NMEA 2000 network
- Allows all NMEA 2000 devices to operate as if they were still on a single network
- Optically isolates network segments, increasing signal integrity and network reliability
- 9 - 16V Operating voltage
- <150mA Power consumption
- 3.11" x 3.46" x 1.38"

MRE NBE100-01



Maretron
NMEA 2000 Starter Kit

Maretron's Cable-Starter-Kit provides all the necessary cables and connectors necessary to connect two products together on an NMEA 2000 network. This includes a powertap for powering the products, one 10 meter trunk or backbone cable, two tees and two 2 meter cables for crating branch or stub connections to the individual products, and two terminators for proper termination of the NMEA 2000 network. The network is easily expanded by adding a tee and branch cable for each additional product that is added to an NMEA 2000 network.

Kit Includes:

- 1 x CF-SPWR05-CF Micro/Mid 5m power tap tee
- 2 x CM-CF-CF Micro tee
- 2 x CM-CG1-CF-02.0 Micro double ended cordset - M to F - 2.0m grey
- 1 x CM-CG1-CF-10.0 Micro double ended cordset - M to F - 10.0m grey
- 2 x TR-CM Micro termination resistor Male

MRE CABLE-STARTER-KIT

MPower Digital 12V Switches by Maretron

Available to NMEA Certified Dealers

Contact Western Marine to learn how to become an MPower Dealer



Garmin
NMEA 2000 Network Updater

NMEA 2000 network updater provides the convenience of updating Garmin products and NMEA 2000 accessories that do not have an SD card slot. Simply download a software update to an SD card and insert the card into the network updater. Using a simple "plug and play" installation, the network updater easily and temporarily connects to your NMEA 2000 network.

GAR 010-11480-00



Garmin
NMEA 2000 Starter Kit

Starter kit has everything you need to build a basic NMEA 2000 network on your boat. The kit includes an NMEA 2000 drop cable (6.5'), backbone cable (19'), power cable (6.5'), 2 T-connectors, and male and female terminator connectors.

GAR 010-11442-00



Garmin
NMEA 2000 Network Accessories

GAR 010-10817-01	N2K weather cap
GAR 010-11076-03	N2K Backbone/Drop Cable 1'
GAR 010-11076-00	N2K Backbone/Drop Cable 6'
GAR 010-11076-04	N2K Backbone/Drop Cable 13'
GAR 010-11076-01	N2K Backbone/Drop Cable 19'
GAR 010-11076-02	N2K Backbone/Drop Cable 32'
GAR 010-11078-00	N2K T-connector
GAR 010-11079-00	N2K Power cable
GAR 010-11080-00	N2K Terminator, male
GAR 010-11081-00	N2K Terminator, female
GAR 010-11089-00	N2K Backbone/Drop Cables (Right Angle)
GAR 010-11094-00	N2K Field-installable Connector, male
GAR 010-11095-00	N2K Field-installable Connector, female
GAR 010-11096-00	N2K Inline Terminator
GAR 010-11580-00	NMEA 2000 power isolator

Ancor NMEA 2000 approved cables and connectors simplify creating or expanding an NMEA 2000 network. Couplers are colour coded to make identifying the power cable or connector easy once installed as part of an NMEA 2000 network. The colour coded couplers connect to the corresponding Ancor cables and connectors creating an easy to identify network.
NMEA 2000 Approved, 100% universal and compatible with other manufacturers' products
NMEA micro-size connectors

Ancor NMEA 2000 Single Device Starter Kit



Kit include all components needed to create a single device NMEA 2000 network.
- 1 meter power cable with tee, #270000
- One male terminator, #270106 and one female terminator, #270105
- One single tee connector, #270101
- One 2 meter drop cable, #270302

ANC 270201

Ancor NMEA 2000 Dual Device Starter Kit



Kit include all components needed to create a dual device NMEA 2000 network.
- 1 meter power cable with tee, #270000
- One male terminator, #270106 and one female terminator, part #270105
- One dual tee connector, #270103
- Two 2 meter drop cables, #270302

ANC 270202

Ancor NMEA 2000 Single Device Backbone Starter Kit



Basic starter kit for adding a new NMEA 2000 network to your boat.
- One power cable with Tee, 3.3 ft (1m), #270000
- One male terminator, #270106
- One female terminator, #270105
- One single tee connector, #270101
- One drop cable, 1.64 ft (.5m), #270300
- One backbone cable, 16.4 ft (5m), #270005

ANC 270203

Ancor NMEA 2000 Power Cable With Tee



For power connection to an NMEA 2000 network. The tee is colour coded red to make identifying the power cable easy once installed as part of an NMEA 2000 network. The yellow couplers connect to the corresponding Ancor backbone cables and tees creating a simplified, colour coded network installation.
- 1 meter power cable includes a tee for direct connection to backbone cables
- 18 AWG power conductors to reduce voltage drop, provide better reliability and meet the requirements of ABYC and the USCG for minimum size power conductors

ANC 270000 1 meter

Ancor NMEA 2000 Backbone Cables



For connection to an NMEA 2000 tee connector. The yellow couplers connect to the corresponding Ancor tees creating a simplified, colour coded network installation.
- 18 AWG power conductors to reduce voltage drop and provide better reliability for critical backbone cables

ANC 270001 0.5 meter
ANC 270002 2 meter
ANC 270005 5 meter
ANC 270010 10 meter

Ancor NMEA 2000 Drop Cables

For connection between an NMEA 2000 device and tee connector. The black couplers connect to the corresponding Ancor tees creating a simplified, colour coded network installation. The drop cables are smaller in diameter and more flexible than backbone cables for easy connection to NMEA 2000 devices
- 22 AWG power conductors



ANC 270300 0.5 meter
ANC 270301 1 meter
ANC 270302 2 meter
ANC 270305 5 meter



Ancor NMEA 2000 Through Bulkhead Adapter

Use for transitions through bulk heads or panels. Simplifies installation when routing through a waterproof bulkhead or panel. Creates a connection point for removable equipment such as a computer interface.

ANC 270107



Ancor NMEA 2000 Field Serviceable Connectors

For termination of bare NMEA cable. Securely terminate bulk cable or replace a broken end.

ANC 270109	Female
ANC 270110	Male



Ancor NMEA 2000 Blanking Caps

Covers unused couplers. Protects unused tee connectors from dust and water.

ANC 270111	Female
ANC 270112	Male



Ancor NMEA 2000 Inline Terminator

For proper termination of a network in a single piece, space saving design. The inline terminator connects between a backbone cable and a drop cable, while still maintaining proper termination for the end of the network.

ANC 270114



Ancor NMEA 2000 Power Isolator

Ancor's NMEA 2000 Power Isolator can be used for isolating power between 2 independent NMEA 2000 networks. Reduce battery current draw by powering one bus off while the other remains operational, or can be used to assist with voltage drop issues on long networks. The yellow couplers connect to the corresponding Ancor backbone cables and tees creating a simplified, colour coded network installation.

- Colour coded for easy installation and component identification
- Compatable with all NMEA 2000 micro devices

ANC 270113



Ancor NMEA 2000 Tee Connectors

For connection between NMEA 2000 drop cables and backbone cables. The yellow couplers connect to the corresponding Ancor tees and backbone cables, creating a simplified, colour coded network installation. The connectors are offered in four configurations for maximum installation flexibility. The two way and four way tee connectors allow for multiple drop cables to be connected without additional backbone cable.

ANC 270101	Single
ANC 270103	Two way
ANC 270104	Four way



Ancor NMEA 2000 Terminators

For proper termination of an NMEA 2000 network. The yellow couplers connect to the corresponding Ancor tees, creating a simplified, colour coded network installation.

ANC 270105	Female
ANC 270106	Male



Ancor NMEA 2000 90° Elbow Connector

Makes cable routing easier. The connector is installed between two cables to reduce stress on the cables and create a compact installation

ANC 270108

Your onboard electronics should get you the data you need, where you need it.

Convert, Digitize and Share™ data with Actisense - The NMEA Specialists.

SCAN FOR FULL RANGE

CONVERT



DIGITIZE



SHARE



Discover an ocean of NMEA solutions at Actisense.com

Actisense®

Actisense NMEA 2000 Engine Monitoring Unit



- Converts data from analog engine gauges/ senders into digital NMEA 2000 data
- Enables sharing of engine data throughout the NMEA 2000 bus
- Switchable sender current source allows powering the sender directly without analog gauge present
- Monitors engine data such as temperature, pressure RPM, and fluid levels from up to two engines
- Accumulates, stores, and shares engine running hours as NMEA 2000 data
- Customizable curves via PC-based configuration tool provides extra flexibility if the Toolkit's Conversion Curve library does not match (requires NGT-1)
- NGT-1 (sold separately) can be used to update firmware, or connect the Toolkit and display data to a PC for greater diagnostic and information purposes
- Input protection against reverse polarity, transients, and installation faults
- LEDs provide visual indication for diagnostics
- Pluggable 2-part screw terminal connectors for simple install
- 6 gauge inputs, 2 tach inputs, 4 alarm inputs, and 2 auxiliary inputs
- Flexible installation options
- IP65 case
- 12/24V

ACT EMU-1-BAS

Actisense NMEA 2000 to Wi-Fi Gateway & Data Logger



- Rugged and reliable NMEA 2000 to Wi-Fi Gateway with built-in data logger and diagnostic tools
- Supports both TCP and UDP; streams data using up to three separate data servers
- Works as an access point and client simultaneously
- Enables use of mobile devices and laptops without requiring a physical connection
- Selectable data protocols are compatible with a huge range of navigation software and apps
- Provides approximately 16 days of voyage data recording (bus load-dependent - can vary between 6 and 100 days)
- Converts NMEA 2000 to/from NMEA 0183 (streamed over Wi-Fi) to allow compatibility with a wide range of applications
- Pre-installed industrial grade 8GB SD card
- Integrated antenna
- Supports up to 150 Mbps
- IP67 rated enclosure
- Unique randomly generated password and SSID for enhanced security
- LEDs provide visual indication for diagnostics
- Remote firmware upgradability
- 9-36V

ACT W2K-1

Actisense NMEA 2000 Small Boat Networks





- Ideal solution for small, self-contained NMEA 2000 networks
- Equivalent of four or 8 T-pieces in a single case
- Termination resistors are built in
- 3m cable
- IP67 rated when mated

ACT A2K-SBN-1 4x drop connections
ACT A2K-SBN-2 8x drop connections

Actisense NMEA 2000 Dual Gateway



- Acts as a bi-directional NMEA 0183 to NMEA 2000 converter, or as an NMEA 2000 to PC interface
- USB version provides simple compatibility with PC systems, while ISO version provides compatibility with embedded systems without need for specific drivers
- Powerful conversion engine has wide compatibility and field proven reliability, supporting AIS and Fast Heading, with advanced configuration options
- Free NMEA reader / EBL reader software for diagnostics
- NMEA 2000 firewall
- Full galvanic isolation: PC or device remains fully isolated from the network
- Up to 230,400 baud transfer rate
- Continuously measures NMEA 2000 network voltage
- Diagnostic LEDs
- Compatible with USB 1.1, 2.0, and 3.0
- Firmware upgradable, and can be used to configure and update other Actisense NMEA 2000 devices
- IP67
- 1.8 m cable length (USB) / .75 m cable length (ISO)
- 9-30V

ACT NGX-1-USB
ACT NGX-1-ISO

Actisense NMEA 2000 Bi-Directional Conversion Gateway



- Intelligent gateway converts NMEA 0183 data to NMEA 2000 and vice versa
- Includes .4m SeaTalk NG to NMEA 2000 adapter cable to allow for seamless connectivity
- Supports fast heading at 10Hz
- Up to 230,400 baud transfer rate
- Integrated 1.5m NMEA drop cable
- 12/24V

ACT NGW-1-STNG ** SeaTalk NG
** While Stock Lasts

Actisense USB to NMEA 0183 Gateway

- Converts a USB port into a bi-directional serial port suitable for connecting to a marine standard NMEA 0183 data bus
- Safer connection compared to standard USB to serial converters
- Electrical isolation provided by ISO-Drive output and Opto-isolated input against over voltage, ESD, and short circuits while eliminating ground loops
- Input isolation 2500V, output isolation 1500V
- Simple install
- Diagnostic LEDs
- Baud rates from 300 to 230400 bps
- Bulkhead mount
- Pluggable screwless connector with locking latch & strain relief
- Compatible with USB 1.1, 2.0, and 3.0



ACT USG-2

Actisense NMEA 2000 Starter Kit



- Expandable kit to start an NMEA 2000 installation

ACT A2K-KIT-1A Micro network

Actisense Serial OPTO Isolator

NEW



- Connects NMEA 0183 system to a PC or any other device with a standard RS232 9-pin port
- As a bi-directional NMEA 0183 to RS232 interface cable, the OPTO-4 utilizes OPTO-isolation to protect the PC input and spike protection for the PC output
- Over-moulded case provides excellent water resistance
- One OPTO-isolated input, one NMEA output
- Up to 115,200 baud
- Port powered
- 1.5m 22AWG cable

ACT OPTO-4

Actisense NMEA 0183 Intelligent Buffer



- Suits the majority of NMEA 0183 systems
- Ready to go by hard-wiring the two mode inputs
- Web based configuration tool avoids OS compatibility issues
- 2x Opto-isolated inputs, 12x ISO-Drive outputs, bi-directional isolated serial port, and an ethernet port
- Flexible operating modes - both factory default and user defined modes can be selected to buffer, autoswitch, or combine data
- Advanced data filtering and routing allow fine tuning
- Two independent autoswitch channels can be assigned to each output with automatic priority selection
- Configurable alarm output options
- Web tool provides real time views for each input and output
- LEDs provide visual indication for diagnostics
- 12/24V

ACT PRO-BUF-2

Actisense NMEA Buffer



- Type approved, PRO range buffer safely connects one Talker to six Listeners with full isolation
- One OPTO-isolated input, and six ISO-Drive outputs
- Fully compatible with NMEA 0183, RS422, RS232, and RS485 Listener compatible
- Pluggable screw terminals
- LEDs indication for power and diagnostics
- Up to 115200 baud
- 1000V isolation on IN and OUT
- Optional strain relief brackets
- 9-35V

ACT PRO-NBF-1

Actisense N2K/0183 to WiFi Gateway

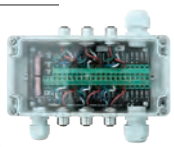


The WGX-1 provides multi-function WiFi streaming via 3 separate data servers, transfer of NMEA 2000 data to connected devices, bi-directional NMEA data conversion, data logging functionality, and includes and ISO (serial / NMEA 0183) port

- Works as an access point and also connects to existing WiFi in client mode
- ISO-drive provides safe and secure interconnectivity, and network health checker provides diagnostics
- Advanced routing and filtering capability
- Integrated antenna
- IP67 rated enclosure
- LEDs provide visual indication for diagnostics
- 9-30V

ACT WGX-1-ISO

Actisense NMEA 2000 Quick Network Blocks



- Alternative to multiple connectors
- Six drops can be connected
- LEDs to provide diagnostic feedback

ACT QNB-1 Gland fittings
ACT QNB-1-PMW M12 micro-fit female connectors

Actisense NMEA 0183 Intelligent Multiplexer



- Highly flexible platform can be used to solve many NMEA 0183 interconnectivity issues
- Web browser based configuration tool avoids OS compatibility issues
- 5x Opto-isolated inputs, 2x ISO-Drive outputs, bi-directional isolated serial port, and an ethernet port
- Configurable input and output baud rates
- Allows data combining and rate conversion
- Two independent autoswitch channels can be assigned to each output with automatic priority selection
- LEDs provide visual indication for diagnostics
- 12/24V

ACT PRO-NDC-1E

Actisense NMEA Multiplexer w/N2K

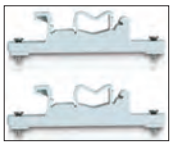


- Reliable, robust isolation on all inputs and outputs as standard
- All five NMEA 0183 inputs can be routed to any of the NMEA 0183, NMEA 2000, or ethernet outputs
- Both NMEA 0183 and 2000 ethernet streaming
- 5x Opto-isolated inputs, 2x ISO-Drive outputs, bi-directional isolated serial port, ethernet port, and 1x NMEA 2000 port
- Automatic baud rate matching on inputs
- Advanced data filtering / routing
- 2-part pluggable connectors allow new devices to be easily connected without needing to dismount the unit
- Mounts either directly to the bulkhead, or can be DIN rail mounted with addition of DIN rail brackets (not included)
- Bi-colour LEDs for power, status, data in, and data out
- 9-35V

ACT PRO-NDC-1E2K *

* Special Order

Actisense Accessories


DIN-KIT-1

- Mounting kit for use with EMU-1, NDC-5, and NBF-3 (Titan case)

ACT DIN-KIT-1


DIN-KIT-2

- Mounting kit for use with USG-2 (Hydra case)

ACT DIN-KIT-2


A2K-4WD-1

- 4-Way instrument drop

ACT A2K-4WD-1 **


A2K-4WT

- 4-Way instrument multidrop T-piece

ACT A2K-4WT


A2K-T-MFF

- Micro T piece

ACT A2K-T-MFF


A2K-MPT

- Micro power T, w/3m cable

ACT A2K-MPT-2


A2K-PMW

- Panel mount wired connectors

ACT A2K-PMW-F	Female
ACT A2K-PMW-M	Male


A2K-TER

- Micro terminators

ACT A2K-TER-F	Female
ACT A2K-TER-M	Male

- Micro field fit connectors

ACT A2K-FFC-RF	Right angle, female
ACT A2K-FFC-RM	Right angle, male
ACT A2K-FFC-SF	Straight, female
ACT A2K-FFC-SM	Straight, male




A2K-GC

- Gender changers

ACT A2K-GCF-0M25	Female
ACT A2K-GCM-0M25	Male


STNG-A06045

- SeaTalkNG to NMEA 2000 adaptor cable

ACT STNG-A06045

- UL and NMEA 2000 certified cable; Mid is also LSZH cable

ACT A2K-MIC-BULK	sold by the foot
ACT A2K-MID-BULK	sold by the foot


DB9-F

- 9-pin, D-type moulded cable assembly

ACT DB9-F

- NMEA 2000 micro cable assemblies

ACT A2K-TDC-0M25	.25 meter
ACT A2K-TDC-0M5	.5 meter
ACT A2K-TDC-1M	1 meter
ACT A2K-TDC-2M	2 meter
ACT A2K-TDC-3M	3 meter
ACT A2K-TDC-4M	4 meter
ACT A2K-TDC-5M	5 meter
ACT A2K-TDC-6M	6 meter
ACT A2K-TDC-8M	8 meter




A2K-SCREWCAP

- Protective screwcaps

ACT A2K-SCREWCAP-10-F	Female
ACT A2K-SCREWCAP-10-M	Male

** While Stock Lasts

Actisense NMEA 2000 Smart Universal Micro Terminator



- Intelligent diagnostic terminator, with green and red LEDs
- Universal - can be used as a female, male, or in-line terminator
- Built-in high accuracy voltage monitoring circuit
- Blanking caps included
- Long lasting, nickel-plated brass screw connection
- Rugged, flame retardant (UL 94 V-0), and watertight to IP67

ACT A2K-TER-U

Hatteland 17" Series XG2 Touch Display



- Multitouch
- Type approved
- IP22 rear / IP66 front
- Superior bonding technology
- Module based, tailor-made systems made easy
- Sunlight readable
- Glass display control (GDC), solid state menu system
- Designed to work with Furuno TZT14 and BB systems
- Supports interlaced HDTV, NTSC, PAL and SECAM video, and composite video
- Multi-power 115/230VAC - 50/60 Hz + 24VDC
- Dimmable 0-100%
- Offers picture by picture, and picture in picture
- 17" 1280 x 1024 SXGA display
- 5:4 aspect ratio
- W: 15.35" x H: 13.82" x D: 3.09"
- 13.6 lb

HAT HD-17T21-MMD-MA1-FOGP **

** While Stock Lasts

OCTOPUS AUTOPILOT DRIVE UNITS

- A range of professional hydraulic steering solutions for power and sailboats
- Designed and built to the highest standards
- Proven reliability and performance, with thousands of installations worldwide
- Patented piston pump offers pinpoint accuracy, high power and low consumption
- Multiple configurations ideal for installations with limited below deck space
- Compatible with all major brand autopilot systems

Octopus Hydraulic Linear Drives

Octopus linear drives are available with a huge range of stroke and pump sizes. Standard drives are available with the pump either mounted on the ram or separately. The LAU custom solutions offer 8 different configurations to suit virtually all installations.



OCTAF1012LAM7

LAM Remote Style

OCT OCTAF1012LAM7 * 38mm x 7" stroke, 12V
OCT OCTAF1212LAM12 * 38mm x 12" stroke, 12V



OCTAF1212LARM12

LAR Mounted Style

OCT OCTAF1012LAR7 * 38mm x 7" stroke, 12V
OCT OCTAF1212LAR12 * 38mm x 12" stroke, 12V

* Special Order

Octopus Hydraulic Reversing Pumps

Featuring a patented piston pump design which offers twice the power of competitor's models, but with half the consumption, Octopus reversing pumps are suitable for steering rams sizes from 6 in^3 to 30 in^3, with pinpoint accuracy and adjustable flow rates.



OCTAF2012

Piston Pumps

OCT OCTAF1212 1.2L, 8-18 cu in, 12V
OCT OCTAF2012 2.0L, 16-30 cu in, 12V



OCTAFG1012

Gear Pumps

OCT OCTAFG0612 0.6L, 6-8 cu in, 12V
OCT OCTAFG1012 1L, 10-14 cu in, 12V
OCT OCTAFG1612 1.6L, 16-24 cu in, 12V

	Steering Rams Displacement cubic inches (cm^3)													Adjustable Flow	Control of H.O. to H.O. Speed	H.O. to H.O. in seconds	Peak Current (amps)	Normal Steer Current (amps)
Pump Model	**6 (98)**	**8 (131)**	**10 (164)**	**12 (197)**	**14 (230)**	**16 (262)**	**18 (295)**	**20 (328)**	**22 (361)**	**24 (394)**	**26 (426)**	**28 (459)**	**30 (492)**					
AFG 0612-9CI	■	■												No	No	9-15	-	-
AFG 1012-15CI			■	■	■									No	No	9-15	-	-
AFG 1612-24CI						■	■	■	■	■				No	No	9-15	-	-
AF 1012-15CI	■	■	■	■	■									Yes	Yes	15	19	4-6
AF 1212-18CI		■	■	■	■	■	■							Yes	Yes	15	19	4-6
AF 2012-31CI						■	■	■	■	■	■	■	■	Yes	Yes	15	22	6-8

Octopus
Type S Dashboard Drive

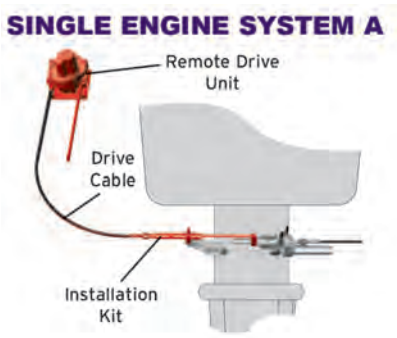


The Straight shaft drive unit replaces the manual drive used on cable steered boats and is mounted directly behind the dash. the drive is directly compatible with the Morse 290 steering helm but comes with its own bezel kit and can be retrofitted in most installations using the cable and steering.

OCT OCTAFMDMSW

Octopus
Type R Mechanical Remote Drive





The heart of this pilot drive system is the remote drive unit which is connected to the boat steering by a cable and connection kit.

- Low cost solution - no need to change to hydraulic steering
- Easy to fit - simple to install kits
- Time saving - rudder feedback option mounts directly on drives
- Safe - manual override without disengaging the autopilot
- Compatible with all major autopilot brand electronics

The remote drive system is ideal for the following types of engine applications:

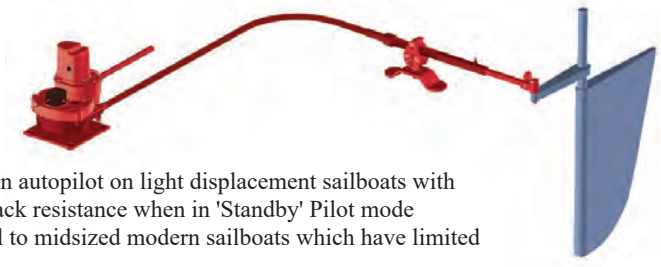
- Stern drives also known as I/O drives or Z drives
- Inboard engines requiring traditional rudder steering

OCT OCTAFMDRESYSA * Sterndrives - Mercruiser from 1994, North American Volvo from 1997

* Special Order

Octopus
Type RS Sailboat Drives





The Type RS Sailboat Drive makes it easy and economical to install an autopilot on light displacement sailboats with mechanical steering. The drive is very responsive and has little feedback resistance when in 'Standby' Pilot mode
The connection kit can be fitted into very small spaces, ideal for small to midsized modern sailboats which have limited space under the cockpit to fit drive units.

- Easy To Buy - Everything you need supplied in one box - drive, 6' steering cable and universal connection kit
- Easy To Fit - The simple to mount installation kit and optional integrated rudder feedback make for easy fitting
- Compact - The remote drive unit has a tiny 0.25² footprint and can be mounted in the most convenient location on your boat, horizontally or vertically
- Reliable & Safe - Proven, tested design. The drive unit features a manual override without having to disengage the autopilot first
- Compatible With Your Pilot - The Type R Remote Drive System is compatible with all major brand inboard autopilot systems

OCT OCTAFMDRSSYS8 Short 9", boats up to 32' or 13,200 lb
OCT OCTAFMDRSSYS12 * Long 12", boats up to 38' or 15,400 lb

* Special Order



Octopus
Optional Rudder Feedback Units

One of the most complex and time-consuming aspects of autopilot installation is fitting the rudder feedback unit, ensuring that the geometry matches the full range of rudder movement. The Octopus rudder feedback unit solves these problems as it mounts directly to the drive unit itself.

OCT OC15SUK27B For Raymarine Autopilots
OCT OC15SUK27E For Garmin, Furuno, Navman & TMQ Autopilots

► *Also See* Octopus Hydraulic Steering Fluid pg 08-037

Octopus
Hose Fitting Kit



Makes autopilot installation a breeze. Essential option for any Pilot installation, includes ORB fittings to work with 2014 or newer Seastar helms.

- Includes: 3 x 30" hoses and ORB and NPT helm fittings kits

OCT OC17SUK42

Octopus
Steering Cable Adapter Kit for Type S & R Drives



Used with the Type S Dashboard or Type R Mechanical Systems to accept SeaStar TFX SSC62 or Uflex M66 steering cables.

OCT OC15SUK08

UNTOUCHABLE



FUSION APOLLO™ RA800

Yes, it's a touchscreen. But no other source unit can touch our most advanced marine stereo ever.

GARMIN®



Fusion
Apollo MS-RA800 Stereo

Face plate: 19.2 x 8.2 cm
Cutout: 16.34 x 5.0 cm
Install depth: 10 cm

- Audiophile level components and a built-in amplifier that provides twice the power of the RA770 delivers lossless audio (up to 24 bits at 96 kHz) performance of unmatched clarity
- WiFi connectivity supports seamless AirPlay audio streaming
- Built-in Class-D amplifier can deliver 4 x 40 watts RMS (all channels driven) with less than 0.1% total harmonic distortion at 4 ohms - producing more than 50% more power than its predecessor
- 4.3" LCD touchscreen display has improved resolution, colour saturation, viewing angles, and readability in bright daylight
- Connect with other Apollo Series stereos to create a network on board with advanced features including stereo grouping, combined volume control, power options, and Home Zone control
- Network with a compatible Garmin MFD via NMEA 2000 networking, or use the Fusion Audio app to wirelessly control your music from a compatible Garmin smartwatch or other smart device
- IPX6 and IPX7 (surface), IPX3 (rear)
- AM / FM / Bluetooth / Apple AirPlay / WiFi / HDMI ARC / USB audio / AUX x2
- Weight: 1.37 lb

FUE 010-02937-00 MS-RA800



Face plate: 19.2 x 8.2 cm
Cutout: 16.4 x 5.0 cm
Install depth: 9.9 cm

Fusion
Apollo MS-RA770 Stereo

- Custom audio profiles for each zone in your vessel
- Fusion-PartyBus is the new way to enjoy music on your boat
- Over-the-air software updates from your compatible device
- Wi-Fi audio streaming via Apple AirPlay and UPnP
- 4.3" touchscreen with play, pause and skip functions
- Control your tunes from a compatible Multi-Function Display, compatible device or Garmin watch
- Multi-Zone Technology control in four separate audio zones
- IPX7 Ingress Protection rating
- Class-D amplifier design for higher efficiency and output
- 280 W peak power output
- Ohm stereo stable for wiring up to 2 x 4 Ohm speakers per channel
- AM / FM / Bluetooth / Apple AirPlay / Wi-Fi audio streaming / PartyBus /digital optical input / USB audio / AUX x 2 / UPnP / MTP / SiriusXM-Ready
- Weight: 26.5 oz

FUE 010-01905-00 MS-RA770
Accessories:
FUE 010-12817-00 Flush mount kit



Face plate: 11.0 x 7.0 cm
Cutout: 8.3 x 5.0 cm
Install depth: 10.0 cm

Fusion
Apollo MS-SRX400 Stereo

- Custom audio profiles for each zone in your vessel
- Fusion-PartyBus is the new way to enjoy music on your boat
- Over-the-air software updates from your compatible device
- Wi-Fi audio streaming via Apple AirPlay and UPnP
- 2.7" colour display
- Control your tunes from a compatible Multi-Function Display, compatible device or Garmin watch
- Multi-Zone Technology control in four separate audio zones
- IPX7 Ingress Protection rating
- Class-D amplifier design for higher efficiency and output
- 140 W peak power output
- Ohm stereo stable for wiring up to 2 x 4 Ohm speakers per channel
- Weight: 12 oz
- AM / FM / Bluetooth / Apple AirPlay / Wi-Fi audio streaming / UPnP

FUE 010-01983-00 MS-SRX400
Accessories:
FUE 010-12830-00 Flat mount kit



Face plate: 15.7 x 6.8 cm
Cutout: 13.0 x 4.9 cm
Install depth: 10.2 cm

Fusion
Apollo MS-RA670 Stereo

- Custom audio profiles for each zone in your vessel
- Fusion-PartyBus is the new way to enjoy music on your boat
- Over-the-air software updates from your compatible device
- Wi-Fi audio streaming via Apple AirPlay and UPnP
- 2.7" colour display
- Control your tunes from a compatible Multi-Function Display, compatible device or Garmin watch
- Multi-Zone Technology control in four separate audio zones
- IPX6 & IPX7 Ingress Protection rating
- Class-D amplifier design for higher efficiency and output
- 280 W peak power output
- Ohm stereo stable for wiring up to 2 x 4 Ohm speakers per channel
- Weight: 26.5 oz
- Sources: AM / FM / Bluetooth / Apple AirPlay 2 / Optical Audio In / USB / AUX / MTP / UPnP* / DAB+ Ready (Requires MS-DAB100A) / SiriusXM-Ready (Requires SiriusXM Connect Vehicle Tuner)

FUE 010-02138-00 MS-RA670
Accessories:
FUE 010-12817-02 Flush mount kit
FUE 010-12829-03 Adapter plate

1 YEAR WARRANTY



Face plate: 15.7 x 6.8 cm
Cutout: 13.0 x 4.9 cm
Install depth: 10.5 cm

Fusion Apollo MS-RA210 Stereo

- Brilliant 2.7" optically bonded, full-colour LCD
- Digital Signal Processing (DSP)
- PX6 and IPX7 ingress protection
- Fusion-Link
- Multi-Zone Technology
- Class-D Amplifier
- 200 W peak power output
- One USB 2.0 port (for phone charging / media playback)
- Speaker Channels: 2 x channels, 1 pair per zone (2 zone amplified)
- Sources: AM / FM / Bluetooth / USB / AUX / iPhone / iPod / MTP / DAB+ Ready (Requires MS-DAB100A) / SiriusXM-Ready (Requires SiriusXM Connect Vehicle Tuner)

FUE 010-02250-00 MS-RA210

Accessories:

FUE 010-12817-02 Flush mount kit
FUE 010-12829-03 Adapter plate

---

3 YEAR WARRANTY



Fusion Apollo MS-WB675 Hideaway System

The Apollo WB675 has a compact design with superior audio quality in up to four separate audio zones that you control.

- True-Marine built
- Speed vs. Volume setting – when stereo is connected to an NMEA 2000 network with appropriate speed sensor installed, this setting will automatically adjust volume based on your speed
- Fusion DSP: Precision calculated loudness curves, full range audio at every volume level, and feed-forward limiter
- Connect via ethernet to your wireless network router, Garmin MFD, Apple AirPlay 2, or Apollo Series stereo network to enjoy Wi-Fi audio streaming and over-the-air software updates*
- Link up multiple Apollo Series stereos connected to the same network
- Connect to the Apollo ERX400 wired remote (sold separately) via ethernet to control your stereo, including PartyBus-Network functions
- 280W peak power output
- Connections: AUX, digital SPDIF, ethernet, NMEA 2000, USB 2.0, SiriusXM (requires SiriusXM Connect vehicle turner), Motorola antenna connector port
- 4x speaker channels, 1 pair per zone
- W: 5.1" x H: 5.1" x D: 2.2"
- AM / FM / Bluetooth / Apple AirPlay 2 / digital optical input / USB audio / iPhone / iPod / AUX x1 / UPnP / MTP / SiriusXM-Ready (Requires SiriusXM Connect Vehicle Tuner), DAB+ Ready (Europe/Australia only)

FUE 010-02346-50 MS-WB675

Accessories:

FUE 010-12812-04 Stereo Zone 3&4 connector, no aux in

* Available when connected to a wireless network router, Garmin MFD, or Apollo Series stereo network enabled with Wi-Fi technology.

3 YEAR WARRANTY



Fusion Apollo MS-WB670 Hideaway System

- Digital Signal Processing (DSP) precisely calculated loudness curves, full range audio at every volume level, and feed-forward limiter
- Intuitive user experience with full control of the PartyBus-Network functionalities including stereo grouping, volume control, power options, and home zone
- WiFi audio streaming with Apple AirPlay 2
- Compact design, allows the unit to be mounted in out-of-the-way places
- Over-the-Air software updates
- Up to six independent audio zones available by connecting two Apollo WB670's via Ethernet or router to Ethernet switch. Both units can be controlled from a single ERX400 wired remote
- IPX2 rated when correctly installed
- 280 W peak power output
- Connections: one Ethernet port, one USB 2.0 port, one SiriusXM port, one Motorola antenna port
- 4x speaker channels, 1 pair per zone
- W: 5-1/8" x H: 5-1/8" x D: 2-3/16"
- AM / FM / Bluetooth / Apple AirPlay 2† / Optical Audio In /
- USB / AUX / MTP / UPnP† / DAB+ Ready (Requires MS-DAB100A) / SiriusXM-Ready (Requires SiriusXM Connect Vehicle Tuner)

FUE 010-02346-00 ** MS-WB670

** While Stock Lasts

† Available when the Apollo WB670 is connected via an Ethernet cable to a wireless network router or Apollo Series stereo network enabled with WiFi technology.

---

3 YEAR WARRANTY



Fusion Apollo MS-ERX400 Wired Remote with Ethernet

- Easy to install 2.7" optically bonded colour LCD with multiple mounting options
- Connects via single proprietary Ethernet cable to an Apollo Series stereo network or individual stereo
- Intuitive user experience with full control of the PartyBus Network functionalities including Stereo Grouping, Volume Control, Power Options, and Home Zone
- Ultra-shallow mounting depth of just 1-15/16" allows the ERX400 to be mounted in a variety of areas, particularly where mounting depth is limited. You have the option of mounting with a flush finish, or integrating it into the helm with a premium flat finish
- Same 2.7" brilliant, full-color LCD from the Apollo RA670 and SRX400
- Over-the-Air software updates
- IPX6 and IPX7 rated
- Faceplate: 4-5/16" x 2-3/4" x 1-7/8"

FUE 010-02244-00 MS-ERX400

Accessories:

FUE 010-12922-00 8m network power cable
FUE 010-12922-02 Surface mount kit

Fusion ARX Wireless Stereo Remote



- Control up to 4 audio zones on your Fusion stereo from anywhere on your boat
- IPX6 and IPX7 rated
- Rubberized tactile buttons and LED light bar
- Mounts with included bonding tape onto any flat surface
- ANT wireless range up to 33'
- Compass safe distance: 2"
- Frequency: 2.4 GHz
- Dia: 2.56" x D: .43"

FUE 010-02167-21 White

---

1 YEAR WARRANTY

Face plate: 18.8 x 6.08 cm
Cutout: 16.1 x 5.0 cm
Install depth: 10.0 cm



Fusion Marine Stereos

Introducing the 70 series, FUSIONs sleekest value-packed marine stereo, designed to deliver a quality on-water entertainment experience by incorporating some of the latest marine technologies. Engineered to seamlessly replace any standard DIN sized non-marinized stereo without the need to reconfigure dash space. A2DP Bluetooth audio streaming

- Fusion-Link wireless control - Bluetooth
- Fusion-Link wired control
- Multi-zone technology - 2 zones
- DIN size form factor
- IPx7 waterproof front panel
- Dash & flush mounting options
- Apple IAP2 audio playback
- Android AOA audio playback
- DAB+ ready - support coming soon
- Mp3 audio playback via USB
- Monochrome LCD screen
- FUSION-Link NMEA 2000 Ready for connection and control from any supported Multi-Function Display (MS-RA70NSX ONLY)

Fusion RA70 Stereo

- Sources: - AM / FM / USB / AUX / iPhone / iPod / Android AOA / Bluetooth / DAB+ Ready (Requires MS-DAB100A)*

FUE 010-01516-01 MS-RA70

Fusion RA70NSX Stereo

- Sources: AM / FM / Bluetooth / USB / AUX / iPhone / iPod / Android AOA / SiriusXM-Ready (Requires SiriusXM Connect Vehicle Tuner)**
- FUSION-Link NMEA 2000 ready for connection and control from any supported Multi-Function Display

FUE 010-01516-30 MS-RA70NSX

Accessories:

FUE 010-12466-00 DIN mount kit

*DAB source requires the connection of the FUSION MS-DAB100A accessory - Available in EU & Australia **SiriusXM is only available in the United States and requires a subscription and additional tuner module.Note: Zone 3 requires additional amplification

1 YEAR WARRANTY

Face plate: 15.7 x 6.8 cm
Cutout: 13.5 x 5.2 cm
Install depth: 8.12 cm



Fusion MS-RA60 Marine Stereo

The new MS-RA60 is the most economical marine stereo from Fusion yet, featuring modern aesthetics, Multi-Zone technology in two zones, and advanced connectivity options in a compact form factor.

- Designed to fit in the MS-RA55 mounting profile, eliminating need to alter existing cutout
- Fusion-Link wireless control - Bluetooth
- Fusion-Link Lite control (with compatible Garmin watch)
- Multi-zone technology - 2 zones
- IPx6 and IPx7 waterproof front panel
- Monochrome LCD is perimeter bonded
- Built-in Class-D amplifier
- Sources: - AM / FM / AUX x1 / Bluetooth / DAB+ Ready (Available in Europe and Australia only)

FUE 010-02405-00 MS-RA60

Fusion MS-BB100 Black Box Stereo

1 YEAR WARRANTY

Box



- A2DP bluetooth audio streaming
- Fusion-link wireless control - Bluetooth
- Fusion-Link wired control - NMEA 2000
- Multi-zone technology - 2 zones
- Apple IAP2 audio playback, and Android AOA audio playback
- Mp3 audio playback via USB
- Source: AM / FM / USB / AUX / iPhone / iPod / Android AOA / Bluetooth / DAB+ Ready (Requires MS-DAB100A)

Wired Remote



- Embedded Bluetooth receiver
- IPx7 waterproof
- Multi-mount (dash or flush installation)
- MS-NRX300i connectivity - NMEA 2000

FUE 010-01517-01 MS-BB100

3 YEAR WARRANTY



Fusion Marine Stereo Remote

Control your entertainment experience directly from any audio zone throughout your vessel with the MS-NRX300.
The remote features a certified NMEA 2000 connector for quick connection to existing networks, dramatically reducing the installation time and cost. Most stereo functions and control of the volume, balance and subwoofer level are available.

- NMEA 2000 certified
- IPX7 water resistant
- Fusion-link NMEA 2000 ready
- NMEA 2000 data repeater
- Large 2.6" monochrome daylight viewable lcd screen
- Key and LCD adjustable backlighting
- Compact size for ease of installation
- Flat & flush mounting options
- Cutout: 1-5/8" diameter, with 3" rear clearance
- Faceplate: 4-3/8" x 2-3/4" x 4-1/64"
- Compatible with the MS-AV755, MS-UD755, MS-RA70N, MS-BB100, MS-IP700i, MS-AV700i, MS-AV650, MS-UD650, MS-BB300 & MS-RA205.
- Note: MS-BB100 & MS-RA70N require a powered NMEA 2000 network to power the MS-NRX300 remote

FUE 010-01628-00 ** Black/grey
FUE 010-01628-02 Black
** While Stock Lasts

Fusion Bluetooth Adapter



- Enables Bluetooth audio streaming from a compatible enabled device
- The MS-BT100 supports direct paired unit control
- Play, Stop and skip tracks and with an effective range of 33'
- Compatible with MS-IP600, MS-AV600, MS-CD600, MS-RA200, MS-RA50, MS-AV700, MS-IP700 and MS-RA205

FUE MS-BT100

3 YEAR WARRANTY

010-02569-00



Fusion Apollo Marine Amplifiers

Fusion Apollo amplifiers are the difference between hearing the music and feeling it. They are efficient, easy to install and work with your compatible Fusion stereo system. You can choose from zone, monoblock, and multichannel amplifier options.

- Works with your compatible Fusion stereo system
- Uses less power for longer listening with reduced battery drainage
- Easy Tune feature automatically adjusts audio settings for the best possible sound quality
- LED indicators show issues with electrical currents and shorts as well as temperature
- Reduces distortion for better quality audio
- Includes mounting bracket for simple installation
- Ignition protected design to prevent potential damage from overheating

Zone Amplifier

- Efficient, 140 W compact zone amplifier
- 20W per channel (4 ohms)
- Compatible with 12- and 24-volt electrical systems
- 10.8 - 32 VDC, StandBy consumption < 1 mA @ 14.4V
- IPX7
- L: 3.94" x W: 3.94" x D: 1.57"

FUE 010-02569-00 AP-DA214

Monoblock Amplifier

- Powerful, 2000 W peak power monoblock amplifier
- Impressive 650 W RMS (4 ohms) designed to power a subwoofer
- Includes proprietary cable connectors for simple installation
- 10.8 - 16 VDC, StandBy consumption < 5 mA @ 14.4V
- IPX2
- L: 9.25" x W: 7.06" x D: 1.75"

FUE 010-02284-10 ** MS-AP12000
FUE 010-02284-15

Multichannel Amplifiers

- 150 W per channel (4 ohms)
- Includes proprietary cable connectors for simple installation
- Includes high-power mode adapters for simple bridging to increase power
- 10.8 - 16 VDC, StandBy consumption < 5 mA @ 14.4V
- IPX2

The 4 Channel 1200 W peak power MS-AP41200 can power up to four pairs of speakers, or two pairs of speakers and one subwoofer.

- L: 9.25" x W: 7.06" x D: 1.75"

FUE 010-02284-45

The 6 Channel 1800 W peak power MS-AP61800 can power up to six pairs of speakers, or four pairs of speakers and one subwoofer

- L: 11.69" x W: 7.06" x D: 1.75"

FUE 010-02284-65

The 8 Channel 2400 W peak power MS-AP82400 can power up to eight pairs of speakers, or four pairs of speakers and two subwoofers

- L: 14.13" x W: 7.06" x D: 1.75"

FUE 010-02284-85
** While Stock Lasts

Note: Versions that end in 5 have an updated e-fuse, and no longer have an external fuse and fuse holder. A fuse does still need to be used at the battery to protect the run of cable.

Fusion Signature Series Amplifiers

3 YEAR WARRANTY



Engineered with a stainless steel front panel to resist corrosion and featues Class-D amplifier technology; the key benefit of a Class-D amplifier is low battery drain with a high output, making this the perfect amplifier for the marine environment.

- Class-D amplifier technology
- True-Marine design
- Rigid aluminum heat sink
- Stainless mirror finish
- Conformal coated PCB's

4-Channel, 1400 Watts

- Can power up to four Signature Series speakers, or two speakers and a subwoofer
- 150 Watts RMS x 4 @ 4 Ohms
- 220 Watts RMS x 4 @ 2 Ohms
- 440 Watts RMS Bridged channel x 2 @ 4 Ohms
- L: 11-13/16" x W: 8-1/4" x H: 2"

FUE 010-01969-00 SG-DA41400

5-Channel, 1600 Watts

- Can power four Signature Series speakers and a subwoofer
- Other channel and bridging options also available
- 80 Watts RMS x 4 @ 4 Ohms
- 130 Watts RMS x 4 @ 2 Ohms
- 250 Watts RMS Bridged channel x 2 @ 4 Ohms
- L: 11-13/16" x W: 8-1/4" x H: 2"

FUE 010-01968-00 SG-DA51600

6-Channel, 1500 Watts

- Can power two 4-Ohm speakers in parallel per channel
- Multiple channel and bridging options available
- 100 Watts RMS x 6 @ 4 Ohms
- 125 Watts RMS x 4 @ 2 Ohms
- 250 Watts RMS Bridged channel x 3 @ 4 Ohms
- L: 16-9/16" x W: 8-1/4" x H: 2-1/4"

FUE 010-02161-00 SG-DA61500

8-Channel, 2000 Watts

- Can power two 4-Ohm speakers in parallel per channel
- Multiple channel and bridging options available
- 100 Watts RMS x 8 @ 4 Ohms
- 125 Watts RMS x 4 @ 2 Ohms
- 250 Watts RMS Bridged channel x 4 @ 4 Ohms
- L: 16-9/16" x W: 8-1/4" x H: 2-1/4"

FUE 010-02162-00 SG-DA82000

Fusion Signature Series Subwoofer Amplifier

3 YEAR WARRANTY



Configurable for 1 Ohm impedance per channel, this monoblock amplifier will power either one subwoofer or two subwoofers wired in parallel

- Class-D amplifier technology
- True-Marine design
- Rigid aluminum heat sink
- Stainless mirror finish
- Conformal coated PCB's
- 500 Watts RMS x 1 @ 4 Ohms
- 850 Watts RMS x 1 @ 2 Ohms
- 1100 Watts RMS Bridged channel x 1 @ 4 Ohms
- L: 11-13/16" x W: 8-1/4" x H: 2"

FUE 010-01970-00 SG-DA12250

1 YEAR WARRANTY



Fusion Amplifier

The 2 Channel 400 Watt (Peak) MS-AM402 will drive up to two subwoofers, an extra pair of speakers or even 4 speakers (2 speakers in parallel each channel at 2 Ohms).

- Incorporating heat-tempered and conformal coated PCB's for maximum product life and gold plated connectors for improved signal flow
- FUTRANZ Heat Sink Technology, which transfers heat more efficiently and offers more thermal stability and maximum component reliability.
- F.R.A.T FUSION Regulated Amplifier Technology, which outputs enormous power output at the lowest voltage
- F.I.S.T FUSION Intercooled Semi-Conductor Technology, which clams down internal power switching - rapidly removing heat from all associated semi-conductors
- Frequency Response: 5Hz - 38kHz +/- 3dB
- Peak Power: 400 Watts
- Rated Power: 14.4 Volt Power Output Specification 65 Watts RMS x 2 @ 4 Ohm 1% THD+N 100 Watts RMS x 2 @ 2 Ohm 1% THD+N 200 Watts RMS x 1 @ 4 Ohm Bridged
- W: 11-2/3" x H: 9" x D: 2-3/32"
- 12V
- 1 year warranty

FUE 010-01499-00 MS-AM402

Fusion Panel Mount Connector



- Features a 2 meter (6.5 FT) USB and 3.5mm auxiliary extension cable
- Connect any support Apple, Android, Windows or USB flash device to the USB connector, while any traditional MP3 or standard media player is connected to the 3.5mm auxiliary socket

FUE 010-12381-00

Fusion Accessories

FUE 010-12621-00	1 female to 2 male RCA splitter (MS-RCAYM)
FUE 010-12622-00	1 male to 2 female RCA splitter (MS-RCAYF)
FUE MS-RA200MP	MS-RA200 DIN mounting plate

Fusion Accessory Cables

FUE 010-12397-00	Apple lightning cable
FUE 010-12398-00	Micro USB cable
FUE 010-12381-00	USB 3.5 panel mount aux cable
FUE 010-12613-00	3' twisted RCA cable (MS-RCA3)
FUE 010-12615-00	12' twisted RCA cable (MS-RCA12)
FUE 010-12616-00	25' twisted RCA cable (MS-RCA25)
FUE 010-12898-00	25' 12 AWG speaker cable
FUE 010-12898-10	50' 12 AWG speaker cable
FUE CAB000863	Drop cable for N2K install RA205
FUE MS-CBUSBFM1	USB cable

1 YEAR WARRANTY



Fusion RV-FS402B Sound Panel All-In-One Speaker

Fusion's Sound-Panel combines two 4" speaker drivers, two soft-dome tweeters, and a large-surface passive radiator inside a perfectly tuned enclosure, achieving professional sound quality in a shallow-mount form factor.

- Quick and simple installation
- Shallow mount design
- Tuned sealed enclosure with a passive radiator
- IP65 weatherproof
- Tweeter type: soft dome tweeter
- Stainless hardware
- Max. Power (watts): 100W (per speaker connection)
- Rms power (watts): 25W (per speaker connection)
- Efficiency (1w/1m): 87dB
- Min mounting depth (clearance): 1-5/8"
- Mounting dimension (clearance): 17" x 6-3/4"
- Impedance: 4 ohms
- Frequency response: 67hz - 20khz
- 18-1/16" x 8-5/16" x mounting depth: 1-5/8"

FUE 010-01791-00 RV-FS402B

1 YEAR WARRANTY



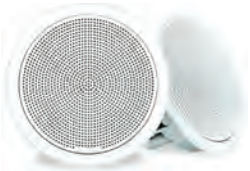
Fusion 2-Way Box Speakers

Outdoor box speakers are carefully designed and manufactured specifically for marine/outdoor use.

- Box Type: Sealed
- Cone: Polypropylene/NBR Surround
- Efficiency (1W/1M): 86dB W/M
- Frequency Response: 80Hz - 20Hz
- Impedance: 4 Ohm
- Peak Power: 100 Watts
- RMS Power: 25 Watts
- Woofer Size: 4"
- H: 7-7/8" x W: 5-3/8" x D: 5-7/16"

FUE MS-OS420

3 YEAR WARRANTY



Fusion FM Series 6.5" Flush Mount Speakers

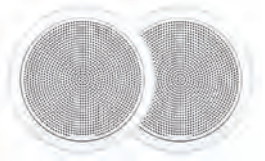
Designed to be flush mounted with a mounting profile no thicker than 3/32" for a premium, visually-appealing, near-flat finish.

- Optimized full range speaker
- Non-Intrusive mounting system; no need to create any screw holes in your vessel
- IP65 rated, and designed to comply with ISO12216
- Peak Power: 120 Watts
- Polypropylene with rubber surround
- Efficiency: 87 dB
- Frequency Response: 100 Hz - 18 kHz
- Impedance: 4 Ohm
- Mounting depth clearance: 2-3/4"



FUE 010-02299-00 FM-F65RW, White
FUE 010-02299-01 FM-F65RB, Black

3 YEAR WARRANTY



Fusion FM Series 7.7" Flush Mount Speakers

Designed to be flush mounted with a mounting profile no thicker than 3/32" for a premium, visually-appealing, near-flat finish.

- Optimized full range speaker
- Non-Intrusive mounting system; no need to create any screw holes in your vessel
- IP65 rated, and designed to comply with ISO12216
- Peak Power: 200 Watts
- 6.5" polypropylene with cloth surround
- Efficiency: 91 dB
- Frequency Response: 80 Hz - 18 kHz
- Impedance: 4 Ohm
- Mounting depth clearance: 3-1/4"

FUE 010-02300-00 FM-F77RW, White



Fusion FM Series 7.7" Flush Mount Speakers

Designed to be flush mounted with a mounting profile no thicker than 3/32" for a premium, visually-appealing, near-flat finish.

- Optimized full range speaker
- Non-Intrusive mounting system; no need to create any screw holes in your vessel
- IP65 rated, and designed to comply with ISO12216
- Peak Power: 200 Watts
- Polypropylene with cloth surround
- Efficiency: 91 dB
- Frequency Response: 80 Hz - 18 kHz
- Impedance: 4 Ohm
- Mounting depth clearance: 3-1/4"



FUE 010-02300-11 FM-F77SB, Black, Square
FUE 010-02300-01 FM-F77RB, Black, Round



Fusion Shallow Mount Speakers

New enhanced design.

- Sports grey models include RGB illumination (requires MS-RGBRC for full LED control)
- Peak Power: 80 Watts
- IP65 weatherproof rating
- 6.5" polypropylene cone
- Efficiency: 91dB
- Frequency Response: 45Hz - 16kHz
- Impedance: 4 Ohm
- Mounting depth: 1-11/16"

FUE 010-02080-02 EL-F653W, Classic White
FUE 010-02080-11 EL-F653B, Classic Black
FUE 010-02080-23 EL-F653SPG, Sports Grey

Fusion Signature Series 3 8.8" Coaxial Wake Tower Speakers



- Precisely calculated enclosure
- CURV cone technology
- Fully sealed crossover components
- Silk dome tweeter
- Large diameter voice coil
- Water and Dust Resistance (IPX rating): IP65
- White and Blue LED colour options
- Premium sports aesthetic
- Watts: 130
- Frequency Response: 55 Hz - 25 kHz
- Nominal Impedance: 4 ohms
- RMS Power Rating: 130 Watts
- Efficiency (1W/1M): 91 dB
- Height including mounting clamp*: 9-1/2"

FUE 010-02082-00 SG-FT88SPC, Chrome

* Sold separately.

Fusion XS Series Marine Speakers

- Control RGB LED versions with the MS-RGBRC wireless remote (sold separately)
- Optimized full range speaker
- RGB illuminated cone disperses a bright, even illumination
- True-Marine design
- IP65

XS 4" Series Classic Speakers



- Watts: 120
- Frequency Response: 100 Hz - 18 kHz
- Nominal Impedance: 4 ohms
- RMS Power Rating: 30 Watts
- Efficiency (1W/1M): 87 dB
- Mounting diameter: 3-7/8" x D: 2-1/8"

FUE 010-02199-00

XS 6.5" Series Speakers



- Watts: 200
- Frequency Response: 80 Hz - 18 kHz
- Nominal Impedance: 4 ohms
- RMS Power Rating: 50 Watts
- Efficiency (1W/1M): 91 dB
- Mounting diameter: 5-5/16" x D: 2-5/8"

Sports

- Sports Grey & White grilles supplied

FUE 010-02196-20 RGB LED



- Sports Grey & White grilles supplied

FUE 010-02196-01

Classic

- Classic Black & White grilles supplied

FUE 010-02196-00

XS 7.7" Series Sport Speakers



- LED illumination
- Sports Grey & White grilles supplied
- Watts: 240
- Frequency Response: 70 Hz - 18 kHz
- Nominal Impedance: 4 ohms
- RMS Power Rating: 60 Watts
- Efficiency (1W/1M): 92 dB
- Mounting diameter: 6-3/8" x D: 3"

FUE 010-02197-20

XS 10" Subwoofer



- Watts: 600
- Frequency Response: 30 Hz - 2 kHz
- Nominal Impedance: 4 ohms
- RMS Power Rating: 40 - 300 Watts/channel
- Mounting diameter: 8-3/4" x D: 4-7/16"
- Sports Grey & White grilles supplied

FUE 010-02198-20 RGB LED

► *Also See* LED cable pg 02-070

Fusion Signature Series 3i Speakers

- New marinized water-resistant connectors
- Redesigned grille for easy installation and superior protection
- CURV cone technology
- Silk dome tweeter
- Perforated metal grille
- Fully sealed crossover components
- True-Marine design and protection
- IP65 water resistant design
- Large 1.5" diameter voice coil
- 330 watt, 91 dB
- 50 Hz - 20 kHz
- 8.8"



3 YEAR WARRANTY

FUE 010-02773-00 SG-F883W, White

---

3 YEAR WARRANTY



Fusion 8.8" Signature Series 3i Sport Wake Tower Speakers

- Improved mechanical and material design; sound optimized specifically for wake boat applications
- CRGBW LED lighting
- Specialized mounting options available
- Works with Fusion stereo systems and amplifiers with custom DSP profiles
- CURV cone with rubber surround
- Silk dome tweeter
- True-Marine design and protection
- IP65 water resistant design
- Peak Power: 330 Watts
- Efficiency: 91 dB
- Frequency Response: 50 Hz - 20 kHz
- Impedance: 4 Ohm



FUE 010-02773-50 SG-FLT883SPW, White
FUE 010-02773-51 SG-FLT883SPB, Black

Accessories:
FUE 010-12831-00 Universal fixed mount bracket



Bracket

► *Also See* LED cable pg 02-070

Fusion RGB Lighting Control Module w/Remote

- Static and Dynamic Colour Options: A range of colours are available in both static and dynamic modes with the RGB speakers. Simply select any colour on the remote's colour wheel or change modes to cycle automatically through predefined lighting patterns.
- Intuitive Touch Controls
- Speakers Controlled: Up to 4 pairs of Fusion RGB speakers
- Radio Frequency Range: 2.4GHz
- Reach of up to 10m from the speaker lighting control module



FUE 010-12850-00 MS-RGBRC

Fusion CRGBW Lighting Control Module w/Wireless Remote

- Full control of the illumination of your Fusion CRGBW speakers and subwoofers. Select colour, adjust brightness, mode (static or dynamic with 25 preconfigured lighting patterns), and speed with the touch of a button
- Industry-first ability to combine RGB with Cool White or Warm White to produce an unprecedented spectrum of colours
- Intuitive Touch Controls
- Speakers Controlled: Up to 5 pairs of Fusion CRGBW speakers or 5 CRGBW subwoofers
- Radio Frequency Range: 2.4GHz
- Reach of up to 10m from the speaker lighting control module



FUE 010-13060-00 MS-CRGBWRC

Garmin Spectra LED Controls

- Control LED lights on your boat from your compatible chartplotter or smartphone via ActiveCaptain app or NMEA 2000 network
- Scalable system allows adding more lights after initial install
- Allows setting of different light groups and scenes for cup holders, speakers, strip or courtesy lights, and more
- Compatible with Fusion and JL audio boat speakers, subwoofers, and wake tower speakers
- Single (LC102) or triple (LC302) LED flying leads with water resistant six-way connectors
- IP66/IP67
- 12/24V



GAR 010-02829-00 LC102
GAR 010-02830-00 LC302

Pioneer 10" Marine Subwoofers

- IPX7 rated
- Rated ASTM D4329 for UV exposure
- Mica reinforced IMPP monocoque cone
- Shallow grille design
- Optimized symmetrical motor design provides linearity and clear, low distortion sound reproduction
- Rubber surround with heat resistant resin basket
- Peak Power: 900 W
- Sensitivity: 84 dB
- Frequency Range: 20 Hz - 3.5 kHz
- Impedance 4 Ohm
- Mounting Depth: 5"
- Cut-out Dimensions: 8-7/8"



TS-ME100WC



TS-ME100WS

PIO TS-ME100WC ** Classic grille, White
PIO TS-ME100WS ** Sports grilles x2, Black and White
** While Stock Lasts

Rockford Fosgate®



PURPOSE BUILT MARINE AUDIO

Designed to Perform in the Marine Environment

Plug-and-Play Design

Color Optix™ RGB LED Lighting Control

2 year warranty
Mounting Depth: 7.1"
W: 8" x H: 3.5" x D: 1.5"



Rockford Fosgate
2.7" TFT Display Digital Media Receiver & CANbus

The PMX-5CAN features a 2.7" full colour TFT display for optimum viewing - even in full sun - that is optically wet bonded to prevent any dust or moisture penetration. It is IPX6 rated and uses a water-resistant rotary encoder knob with white LED button illumination and front mounted sub level controls. This unit also features CANbus functionality for connection to Raymarine MFD systems using a PMX-CAN adaptor.

- Element Ready IPX6
- Steering wheel control interface compatible
- Low voltage warning alert
- AUX and USB inputs with USB charging
- Selectable HP / LP / AP crossovers with selectable slope
- Independent subwoofer level control, on-board Punch EQ control, 7-band graphic equalizer, and 2 zone/ 2 source control
- AM, FM, Weatherband Tuner, SiriusXM-Ready, Pandora internet radio
- Compatible with iPhone and iPod (later versions), and limited Bluetooth functionality on Android
- CANbus (Controller Area Network) compatible, requires PMX-CAN accessory
- ISO8846/SAE J1171 Ignition Protection Certified, EN60945 Certified, FCC, CE, IC, and C-Tick Certified

ROC PMX-5CAN 12V

---

2 year warranty
Back Panel Cutout: 2"
W: 4.1" x H: 2.6" x D: 2.5"



Rockford Fosgate
Ultra Compact Digital Media Receiver

The PMX-0 ultra compact digital media receiver is IPX6 rated and uses a water resistant rotary encoder knob with white LED button illumination and front mounted sub level controls.

- Element Ready IPX6
- Bluetooth streaming audio (A2DP) protocol version 1.0 installed
- Front panel sub control
- Voice command confirmation
- Rear USB with 1A charging, and rear AUX-in (L/R)
- Zone Control: 1 zone / 1 source (F1 / F2 / S)
- Punch equalizer

ROC PMX-0 12V

2 year warranty
Back Panel Cutout: 3"
W: 4.5" x H: 4.2" x D: 1.5"



Rockford Fosgate
2.3" DOT Matrix Digital Media Receiver

The PMX-1 features a 2.3" DOT matrix scratch resistant wet bonded display, superior Bluetooth audio, and AUX and USB inputs.

- Element Ready IPX6
- Bluetooth streaming audio (A2DP) protocol version 1.0 installed
- Front panel sub control
- Waterproof rotary encoder volume control
- Voice command confirmation
- Rear USB with 1A charging, and rear AUX-in (L/R)
- AM, FM, WB
- Zone Control: 1 zone / 1 source
- 7-band graphic equalizer
- Supports MP3, WMA

ROC PMX-1 12V

---

2 year warranty
Back Panel Cutout: 3"
W: 4.5" x H: 4.2" x D: 1.5"



Rockford Fosgate
2.7" TFT Display Digital Media Receiver

The PMX-2 features a 2.7" full colour TFT display for optimum viewing that is optically wet bonded to prevent any dust or moisture penetration. It is IPX6 rated and uses a water-resistant rotary encoder knob with white LED button illumination and front mounted sub level controls.

- Element Ready IPX6
- Low voltage warning alert
- AUX and USB inputs with USB charging
- On-board Punch EQ control
- Selectable HP / LP / AP crossovers with selectable slope
- Subwoofer level and zone controls (1 zone / 1 source)
- 7-Band graphic EQ
- AM, FM, WB Tuner, Pandora internet radio
- Compatible with iPhone and iPod (later versions), and limited Bluetooth functionality on Android
- Supports MP3, WMA, FLAC
- ISO8846/SAE J1171 Ignition Protection Certified, FCC, CE, IC, and C-Tick Certified

ROC PMX-2 12V



2 year warranty
Back Panel Cutout: 3"
W: 4.5" x H: 4.2" x D: 1.5"

Rockford Fosgate
2.7" TFT Display Digital Media Receiver

The PMX-3 features a 2.7" full colour TFT display that is optically wet bonded to prevent any dust or moisture penetration. It is IPX6 rated and uses a water-resistant rotary encoder knob with white LED button illumination and front mounted sub level controls. This unit also features a reverse camera composite video input with reverse trigger control and day/night display mode.

- Element Ready IPX6
- Wired remote ready (up to 3 remotes)
- Two-piece mounting system
- Integrated voltage gauge w/low voltage alert
- Front panel sub control, selectable high/low pass crossover points and slopes for each zone, and adjustable input gain for each source
- Single Zone output with 2 channels front full range and 2 channels rear/subwoofer selectable rated at 2 volt
- 7-band graphic equalizer
- AM, FM, Weatherband radio digital tuner, Bluetooth (A2DP), SiriusXM Ready, Pandora internet radio
- Compatible with iPhone and iPod (later versions), and limited Bluetooth functionality on Android
- Supports MP3, WMA, FLAC
- Rear USB with 1A charging, and rear AUX-in (L/R)
- Dedicated DSP audio processors for each zone with independent 7 Band EQ + Punch EQ
- Direct composite video input connection, and external trigger input to activate reverse camera mode

ROC PMX-3 12V



2 year warranty
W: 8.3" x H: 4.25" x D: 2.2"

Rockford Fosgate
Hide-Away Digital Media Receiver

The PMX-8BB is a hide-away digital media receiver black box designed for use with the PMX-8DH controller. Features CANbus functionality (requires PMX-CAN) for connection to Raymarine MFD systems.

- Element Ready IPX6
- Wired remote ready (up to 3 remotes), and external steering wheel remote compatible
- Integrated voltage gauge w/ low voltage alert
- Dedicated DSP audio processors for each zone with independent 7-band equalizer and Punch equalizer
- Selectable high/low pass crossover points and slopes for each zone, adjustable input gain for each source
- 4 sets (Zones) RCA out; 4 active with 4 channels per zone (2 full range + 2 sub) 4V signal output
- Internal power amplifier 4 x 50 W, 2 ohm stable
- AM, FM, Weatherband radio digital tuner, Bluetooth (A2DP only, AVRCP 1.4), Pandora internet radio, SiriusXM Ready, and supports RDS to receive and display broadcast information
- Compatible with iPhone and iPod (later versions), and limited Bluetooth functionality on Android
- Rear USB with 1A charging, and rear AUX-in (L/R)
- External trigger input to activate reverse camera mode

ROC PMX-8BB 12V

Accessories:

ROC PMX-8DH Colour display

ROC PMX-CAN CANbus interface module



2 year warranty
W: 8.3" x H: 5.1" x D: .8"

Rockford Fosgate
Colour Display for PMX-8BB

The PMX-8DH, used with the PMX-8BB hide away media receiver is a wired display head controller giving you access to all the receiver's capabilities. It features a 5" ultra bright colour TFT display for optimum viewing even in full sun that is optically wet bonded to prevent any dust or moisture penetration. It is IPX6 rated and uses a water resistant rotary encoder knob with white LED button illumination. Additionally it features front panel illumination and sub controls, composite video input as well as a conformal coated PCB for elemental protection.

- Bluetooth A2DP, Pandora internet radio, SiriuxXM ready (requires SXV300), and USB V2
- USB output current 1A
- Female RCA jack video input

ROC PMX-8DH 12V



2 year warranty
Back Panel Cutout: 3"
W: 4.5" x H: 4.2" x D: 1.5"

Rockford Fosgate
2.7" Remote Display

The PMX-1R is a full function wired remote controller with a 2.7" full-color display for PMX source units.

- Element Ready IPX6
- Auto dimming backlightning
- Zone control and graphic equalizer available with connected source unit
- Compatible remote for PMX-2, PMX-3, PMX-5, PMX-5CAN, PMX-8BB
- Remote Capacity: 3 remote limit, 100' total wired distance
- ISO 8846/SAE J1171, EN60945 Certified

ROC PMX-1R



1 year warranty
W: 1..875" x H: 2.75" x D: 1.25"

Rockford Fosgate
Bluetooth Steering Wheel Remote

- Universal Bluetooth remote control, with 10 m range
- IP67
- Volume, track, play/pause control settings, and easy one-button pairing
- Up to 2 years of standby time
- Hand-held and steering wheel options included
- Compatible with Android 5.0 +, iOS 8.0 +
- LED pairing indicator (green) and low battery indicator (red)
- FCC, IC, RCM, CE Certified
- Uses 1x CR2032 battery

ROC PMX-BTUR

2 year warranty



Rockford Fosgate Element Amplifiers

- Full-range class-D model capable of operating at 4 or 2ohm
- Element Ready design protects against outdoor exposure
- C.L.E.A.N. input/output clip detection and indicator LEDs
- P.O.W.E.R. supply generates more power as voltage increases
- Visual indicators for Power/Protect, CLEAN in, CLEAN out
- CEA-2006 and CE compliant

Monoblock Amplifier

Mono 500W with variable infrasonic filter and RLC remote level control
- Integrated Punch EQ corrects for acoustic deficiencies while delivering up to 3x the bass
- Power Handling: 300 W x 1 @ 4 ohm, 500 W x 1 @ 2 ohm
- W: 6.8" x H: 1.9" x D: 8.5"

ROC M2-500X1 12V

Multichannel Amplifiers

2 Channel 200W with infrasonic filter
- Power Handling: 50 W x 2 @ 4 ohm, 100 W x 2 @ 2 ohm, 200 W x 1 @ 4 ohm Bridged/Mono
- W: 6.8" x H: 1.9" x D: 8.1"

ROC M2-200X2 12V

4 Channel 300W with 2/4 channel input switch
- Power Handling: 50 W x 4 @ 4 ohm, 75 W x 4 @ 2 ohm, 150 W x 2 @ 4 ohm Bridged/Mono
- W: 6.8" x H: 1.9" x D: 10.1"

ROC M2-300X4 12V

5 Channel 750W with variable infrasonic filter, 2/4/5 channel input switch, and RLC remote level control
- Subwoofer channel can be run at 4 or 2 ohm
- Integrated Punch EQ corrects for acoustic deficiencies while delivering up to 3x the bass
- Power Handling: 50 W x 4 + 200 W x 1 @ 4 ohm, 100 W x 4 + 350 W x 1 @ 2 ohm, 200 W x 2 @ 4 ohm Bridged/Mono
- W: 6.8" x H: 1.9" x D: 11.2"

ROC M2-750X5 12V

2 year warranty
W: 3" x H: 1.3" x D: 3.9"



Rockford Fosgate Mono Amplifier

- 100 W dynamic power mono amp using AC/DC voltages present on existing radio speaker outputs, allowing connection to a speaker wire without running a B+ cable
- Compact size allows for installation in tight spaces
- Selectable 4 and 2 ohm play
- Element Ready design protects against outdoor exposure
- Current limited to protect head unit for both 4 ohm and 2 ohm configurations
- Uses stored energy from BTL amplifier to produce dynamic power of over 100 W
- Visual indicators for Power/Protect
- CEA-2006 and CE compliant
- RMS Power: 60 W x 1 @ 4 ohm, 100 W x 1 @ 2 ohm

ROC PM100X1K 12V, pair

2 year warranty



Rockford Fosgate Amplifiers

- Element Ready design protects against outdoor exposure
- C.L.E.A.N. set-up
- On-board Punch EQ
- Visual indicators for Power/Protect/Thermal, Input Clip, and Output Clip

Mono Amplifier

Class BD mono 500W amplifier with infrasonic filter
- RMS Power: 150 W x 1 @ 4 ohm, 300 W x 1 @ 2 ohm, 500 W x 1 @ 1 ohm
- W: 7.76" x H: 2.38" x D: 11.03"

ROC PM500X1BD 12V

Multichannel Amplifiers

Class A/B 400W 4 Channel amplifier
- RMS Power: 50 W x 4 @ 4 ohm, 100 W x 4 @ 2 ohm, 200 W x 2 @ 4 ohm Bridged
- W: W: 7.76" x H: 2.38" x D: 11.03"

ROC PM400X4 12V

Class A/B 600W 4 Channel amplifier
- RMS Power: 75 W x 4 @ 4 ohm, 150 W x 4 @ 2 ohm, 300 W x 2 @ 4-ohm Bridged
- W: 7.76" x H: 2.38" x D: 13.28"

ROC PM600X4 12V

1000W 5 Channel amplifier using Class A/B technology on the front/rear channels, and Class BD for the subwoofer channel
- 2/4 channel input switch, and bridgeable front/rear channels
- RMS Power: 75 W x 4 + 150 W x 1 @ 4 ohm, 125 W x 4 + 300 W x 1 @ 2 ohm, N/A + 500 W @ 4-ohm
- W: 7.76" x H: 2.38" x D: 15.03"

ROC PM1000X5 12V

Rockford Fosgate Marine 2-Way Speakers

- Element Ready design enables speakers to withstand water, salt, dust, and UV rays
- Sold in pairs
- 2 year warranty

6.5" M0 Speakers





- Grill integrated .5" LCP balanced dome tweeter and 1" high temp Kapton woofer voice coil former
- 65W RMS, 250W peak
- Frequency: 40 Hz - 25 kHz
- Nominal impedance: 4 ohm
- Efficiency: 90.5 dB @ 1W/1M
- Mounting Depth: 2.52"

ROC M0-65 White
ROC M0-65B Black

M1 Color Optix Speakers



- Optically clear, UV stable RGB lighting
- Grill integrated 1" LCP balanced dome tweeter and 1" high temp Kapton woofer voice coil former
- Santoprene VAST surround
- Nominal impedance: 4 ohm

6.5"

- 75W RMS, 300W peak
- Frequency: 38 Hz - 22 kHz
- Efficiency: 90 dB @ 1W/1M
- Mounting Depth: 2.49"

ROC M1-65 White
ROC M1-65B Black



8"

- 150W RMS, 600W peak
- Frequency: 35 Hz - 22 kHz
- Efficiency: 92 dB @ 1W/1M
- Mounting Depth: 3.3"

ROC M1-8 White
ROC M1-8B Black

6.5" M2 Color Optix Speakers





- Optically clear, UV stable RGB lighting
- Integrated 1" laminated PXNX dome tweeter with dual neodymium magnet motor and 1" high temp Kapton woofer voice coil former
- VAST surround
- Includes standard and stainless steel grille inserts
- 150W RMS, 600W peak
- Frequency: 40 Hz - 24 kHz
- Nominal impedance: 4 ohm
- Efficiency: 91.8 dB @ 1W/1M
- Mounting Depth: 2.49"

ROC M2-65 White
ROC M2-65B Black

Rockford Fosgate Subwoofers

- Connect to the Rockford Fosgate Color Optix controller and RF Connect app to customize your colour patterns
- Optically clear UV stable RGB lighting
- Element Ready IPX6 design
- Integrated Deutsch/Amphenol connectors
- Santoprene VAST surround
- VERSA impedance switch quickly allows series or parallel configuration without additional wiring
- Frequency: 20 Hz - 750 Hz
- 2 year warranty

M1D2 2 ohm Subwoofers

- Nominal impedance: 1-ohm or 4-ohm switchable

M1D4 4 ohm Subwoofers

- Nominal impedance: 2-ohm or 8-ohm switchable

8"

- 1.5" high temp Kapton woofer voice coil former
- 150W RMS, 600W peak
- Efficiency: 87.5 dB
- Mounting depth: 3.43", Cutout dia.: 7.1"

ROC M1D2-8 White, 2 ohm
ROC M1D2-8B Black, 2 ohm

ROC M1D4-8 White, 4 ohm
ROC M1D4-8B Black, 4 ohm



10"

- 2" high temp Kapton woofer voice coil former
- 300W RMS, 1200W peak
- Efficiency: 91.5 dB
- Mounting depth: 4.23", Cutout dia.: 8.9"

ROC M1D2-10 White, 2 ohm
ROC M1D2-10B Black, 2 ohm

ROC M1D4-10 White, 4 ohm
ROC M1D4-10B Black, 4 ohm



12"

- 2" high temp Kapton woofer voice coil former
- 300W RMS, 1200W peak
- Efficiency: 92 dB
- Mounting depth: 6.65", Cutout dia.: 10.85"

ROC M1D2-12 White, 2 ohm
ROC M1D2-12B Black, 2 ohm

ROC M1D4-12 White, 4 ohm
ROC M1D4-12B Black, 4 ohm

► *Also See* LED cable pg 02-070

Rockford Fosgate CANbus MFD Interface Module



- Allows interconnection between a PMX-8BB source unit and a MFD using the NMEA2000 standard
- Controls power on/off, play/pause, track/tune/seek up/down functions, master/subwoofer/zone volume controls, balance/fade, EQ preset adjust, filter frequency adjustment, and input source selection
- Zone source selection/renaming capability
- 2 year warranty
- W: 4.4" x H: 1.7" x D: 3.5"

ROC PMX-CAN

Rockford Fosgate RGB Light Controller



- Element Ready IPX7 controller
- Plug and play connectors
- Controller illuminates up to 8 Color Optix speakers and/or subwoofers
- RF Connect app compatible
- 12/24V
- Includes stainless steel mounting hardware
- Max cable length (including y-adaptors): 100'
- 2 year warranty

ROC PMX-RGB

Rockford Fosgate USB Port





- Connects to any Rockford Fosgate PMX source unit equipped with a USB input jack
- Compatible with PMX-0, PMX-1, PMX-2, PMX-3, PMX-5CAN, PMX-8BB
- Spring Loaded Water and Dust Proof Door
- Mounting Hole Size 7/8" (23 mm)
- Material Thickness Compatibility 1/8" to 1-1/4"
- Element Ready IP67
- USB Charging: Passive up to 5.1 V @ 2.1 A
- 3' cable
- 2 year warranty

ROC PMX-USBP

Rockford Fosgate Universal AM, FM, WB Antenna



- +20dB of signal gain
- Omnidirectional
- IP67
- Double-sided tape mounting
- Quick power connect for easy installation
- Cable Length: Power 3.58', Antenna 8.4'
- 12V
- W: 1.11" x H: .96" x D: 3.89"

ROC PMX-ANT

Rockford Fosgate Add-On Tweeter Kit



The M2-TS tweeter kit increases system overall sonic performance to your existing M2 Color Optix full range speakers.



- High efficiency 1" tweeter
- High temperature Kapton voice coil former
- Element Ready IPX6 design
- Power Handling: 200 W RMS, 800 W Peak
- Sensitivity: 97 dB
- Frequency Range: 1,425 Hz – 25 kHz
- Nominal Impedance: 4-ohm
- Mounting Depth: 1.44"
- Includes grille/trim ring and mounting hardware
- 2 year warranty

ROC M2-TS pair

Rockford Fosgate Y-Adaptor Cable



- Allows installation of two remote controls with one source unit
- Compatible with PMX-0R, PMX-1R
- 2 year warranty

ROC PMXYC

Rockford Fosgate Color Optix Y-Adaptors



- Plug-and-play Y-adaptor simplifies the installation of additional Color Optix speakers
- Element Ready IP7 rated
- Deutsch/Amphenol connectors
- Allows for daisy-chaining multiple speakers on a single run
- 2 conductor leads for speaker (+) and (-)
- Works together with Color Optix controller
- Ensures connections remain waterproof and safe from elements
- Compatible with M1/M2 speakers and subwoofers
- No cutting, no splicing

ROC RGB-Y4P 4-pin
ROC RGB-Y6P 6-pin

Rockford Fosgate Extension Cables



- Compatible extension cables for PMX-8DH, PMX-0R, and PMX-1R
- 2 year warranty

ROC PMX16C 16'
ROC PMX25C 25'

Rockford Fosgate PMX-RGB Extension Cables



- Plug and play True Marine eco system
- Ensures connections remain waterproof and safe from elements.
- Compatible with M1/M2 speakers and subwoofers
- No cutting, no splicing

ROC RGB-6 6'
ROC RGB-16 16'
ROC RGB-25 25'

SiriusXM Receiver



- For use with SiriusXM ready marine stereos
- Single interface cable connection
- Includes magnetic mount antenna
- Subscription required (XM compatable only)

SXM SXV300V1C

Kanto TV Mount



Specially designed for RVs and boats, this full motion mount features an easy-lock mechanism and adjustable rubber bumpers to prevent your TV from moving during transit. Galvanized and stainless steel parts inhibit rust, while a powder coated finish protects against wear and tear. Along with a detachable arm assembly, the RV250G includes a secondary wall plate, giving you the freedom to easily transfer your TV between your home and vehicle. Velcro cable management straps and screw-on wall plate covers are also included to ensure a clean and organized setup.

- TV Size: 26" - 42"
- Max Weight: 40 lb (18 kg)

KAN RV250G

Uniden MHS-75 VHF Radio



- Compact design
- IPX8 submersible
- Dual/triple/quad watch
- Memory channel scan
- NOAA weather alert
- 1, 2.5, and 5W transmit power
- Up to 12 hour battery life
- Flexible rubber antenna
- W: 2-1/2" x H: 4-9/16" (w/o antenna) x D: 1-1/2"
- Weight: 10.2oz (without battery and antenna)
- Includes LiOn battery, DC charger, belt clip, and wrist lanyard
- 3 year warranty

UNI MHS-75

Accessories:

UNI MHS75DC DC adaptor
UNI BBTG0927-001 Battery pack

Uniden Atlantis-155 VHF Radio



- Floating handheld VHF
- Large backlit LCD display
- 1 & 3W transmit power
- NOAA weather alerts
- JIS8 submersible rated
- H: 9" x W: 2-1/2" x D: 1-1/2" (w/o antenna)
- Weight: 8.53 oz (with batteries)
- Includes headset jack,DC adapter, belt clip, and 4x AAA NiMh batteries
- 3 year warranty

UNI ATLANTIS-155

Uniden Atlantis-275 VHF Radio



- Floating Handheld VHF
- Large 25mm H x 40mm W LCD display
- Dual colour backlit display
- User selectable 1, 2.5, and 6W transmit power
- NOAA weather alerts
- IPX8 submersible rated
- Speaker drainage
- H: 5-11/32" x W: 2-7/16" x D: 1-1/2" (w/o antenna)
- Weight: 8.46 oz (with battery and antenna)
- Includes built-in LiOn battery pack, AC & DC charge cables, and charging cradle
- 3 year warranty

UNI ATLANTIS-275

Uniden MHS338BT VHF/BT/GPS Radio



- Floating handheld VHF radio with Bluetooth and GPS; IPX8 submersible
- Full class D DSC
- Water activated MOB and emergency strobe light
- Built-in compass screen for auto plot to distress calls, or other stored locations
- 6W transmit power for maximum range
- NOAA weather channels
- Noise cancellation, both received and transmitted
- Automatic backlight switching; white for daylight and amber for night
- Flashlight
- Smartphone app to text message other VHF radios
- Includes LiOn battery, AC/DC charging cables, charging cradle, alkaline battery tray, 1m NMEA cable, wrist strap, and belt clip
- 3 year warranty

UNI MHS338BT

Uniden MHS-335BT VHF Radio



- Largest screen in class
- Full Class D industry standard DSC
- Integrated GPS receiver: WAAS, SBAS, QZSS
- Bluetooth Wireless: Use smartphone app to set up the radio and to text message other VHF text message capable radios
- Auto Plot to Distress Call: Built-in compass screen
- Water Activated MOB: Automatically activates Distress feature when in water
- Water activated emergency strobe light
- Flashlight
- 6 watt transmit power
- Floating radio: Rated IPX8
- NOAA Weather Channels: Weather Alert and S.A.M.E. local location alerts
- Noise Cancel: For both received and transmitted audio
- Waypoint Navigation: Navigate to your stored locations using the compass screen
- Smartphone App (Android and iOS)
- Included Accessories: AC & DC charging cable, charge cradle, hand strap, belt clip, antenna
- 3 year warranty

UNI MHS335BT

► *Also See* VHF Holders pg 17-021, 023, & 041

Icom IC-M25 EVO Handheld VHF Radio

NEW



- Float'n Flash: Floats, flashes, and emits an alarm when dropped in water
- 5W / 2.5W / 1W output power
- 14 hours of operation in Eco Mode
- USB-C charging
- Improved side grip texture
- AquaQuake draining function
- Slim body and lightweight
- Loud and clear audio (700 mW output)
- Waterproof rating: IPX7
- 4-step battery life indicator
- 2-step power save function
- Weather channel with weather alert
- Dual/Tri-watch functions
- Instant access to Channel 16 or programmable call channel
- Favourite channel function
- Monitor function opens noise squelch
- Auto scan function
- Dimensions: 2.2" x 5.3" x 1.2"
- Weight: 8 oz

ICO IC-M25-#61 Black
ICO IC-M25-#71 Blue

Uniden UM-385 VHF Radios



- 25 watt, 6A
- IPX4/JIS4 waterproof level
- Memory channel scan
- Hi/Lo power switch
- S.A.M.E. weather alert
- Backlit keypad and display
- User assignable channel names
- DSC Position Send and Request
- Triple Watch feature
- H: 2-5/8" x W: 6-3/8" x D: 5-1/8"
- Weight: 2.2 lb
- 3 year warranty



UNI UM-385 White
UNI UM-385BK Black

Uniden UM-435 VHF Radios



- IPX8 rated
- Class-D DSC
- Quik Command One-Touch channel 16/9 key
- All USA, Canadian and international marine channels
- S.A.M.E. emergency/weather alert
- Memory scan & weather scan/alert
- 1 or 25 watt transmit power
- DSC Position Send and Request
- Channel names
- Dual and Triple Watch feature
- Easy-to-use intuitive menus in full dot matrix display
- Full dot matrix, backlit LCD screen is visible even in low light
- H: 3" x W: 6-1/2" x D: 5"
- Weight: 2.2 lb
- 3 year warranty



UNI UM-435 White
UNI UM-435BK Black

Uniden UM-725 VHF Radios



- Private text message via Bluetooth over your marine VHF channels
- Full Class D DSC compliant
- All Canadian, USA, and International marine channels
- NOAA weather channels with weather alerts
- 1/25W transmit power
- 12V
- IPX8 rated
- Rugged speaker microphone
- NMEA0183 input and output
- Smartphone App
- W: 5.94" x H: 3.38" x D: 2.5"



UNI UM-725 White
UNI UM-725BK Black

GPS Models

- All the features of the above, plus:
- Integrated GPS receiver - WAAS, SBAS, QZSS
- NMEA0183/NMEA 2000 input and output

UNI UM-725G White
UNI UM-725GBK Black

Uniden Accessories

UNI BADG1237-001	AC adaptor, Atlantis 270
UNI BATG0478-001	Antenna, Voyager
UNI BATY0467-001	Antenna, MHS350 / Atlantis250
UNI BBTG0920-001 *	Battery pack, Atlantis 270
UNI BBTG0936-001	Battery pack, Atlantis 290
UNI BBTG0961-001	Battery pack, Atlantis 275
UNI BZAG0147-001	Speaker microphone
UNI FMB321	Flush mount kit, Oceanus / Polaris / UM
**UNI FMB322B ** **	Flush mount kit, Oceanus / Solara DSC, Black
UNI FMB322W	Flush mount kit, Oceanus / Solara DSC, White
UNI GBCT4B5405Z	Microphone clip for Solara DSC
UNI GBCT4E3473Z	Belt clip for MHS050, ALT200/250

* Special Order
** While Stock Lasts

Icom IC-M37 Handheld VHF Radio



- 6W RF output power
- 700 mW audio output
- Voice boost and mute functions
- Low battery alert
- Dual/Tri-watch
- Float'n Flash - The radio floats and helps you retrieving with the flashing LED light
- Instant access to channel 16 and call channel
- Favorite channel
- Weather channels with weather alert
- Large keys and Easy-to-Grip design
- 2.4" × 5.5" × 1.5"
- Weight: 10.3 oz
- 3 year warranty

ICO IC-M37-#31

Accessories:

ICO BP-296 * Replacement battery

* Special Order

► *Also See* VHF Holders pg 17-021, 023, & 041

Icom IC-M73
Handheld VHF Radio



- Last Call Voice recording
- Active Noise Cancelling technology
- Bass Boost function
- 700mW loud audio
- 6W RF output power
- 2000mAh Li-ion battery
- Waterproof rating: IPX8
- Slim, hourglass body
- Wide viewing angle LCD
- AquaQuake mic draining function
- Dual/Tri-Watch function for monitoring Channel 16 and/or call channel
- 4 level battery indicator
- Auto power save function
- Dimensions: 2.07" x 4.92" x 1.18"
- Weight: 11.3 oz
- 3 year warranty

ICO IC-M73-#61

Icom IC-M94D
Handheld VHF Radio with DSC and AIS



- AIS receiver and Class-H DSC in one package
- 6W RF output power
- 1500 mW audio output
- Simplified navigation function: access vessel traffic information and plot up to 50 waypoints
- 2400 mAh high capacity Li-ion battery provides approximately 10 hours of operation
- Float'n Flash with MOB distress signal
- Integrated GPS receiver
- Active noise cancelling technology
- IPX7
- Dualwatch and Tri-watch functions
- Favorite channel function
- AquaQuake mic draining function
- 2.4" x 5.7" x 1.7"
- Weight: 12.6 oz
- 3 year warranty

ICO IC-M94D-#21

Icom IC-U20GM
Canada GMRS/FRS Two-Way Radio



- Two-way license-free radio
- High definition and clear display with 4 digits and 14 segments
- 600 mW AF output
- CTCSS/ DTCS tone squelch
- 19-hour operation with detachable 2350 mAh Lithium-Ion battery
- USB Type-C charging, or use the charging cradle
- Often used functions can be assigned to top and side buttons
- Features front panel layout, hands-free VOX function, and Voice Guide when switching channels
- Frequency coverage: 462.55 – 462.725 MHz, 467.5625 – 467.7125 MHz
- 22 Channel
- IP54 / MIL810G
- Includes belt clip, battery pack, charging cradle, and USB Type-C AC adapter
- H: 6.14" x W: 1.97" x D: 1.05"
- Weight: 157 g
- 2 year warranty

ICO IC-U20GM

Icom IC-M330
Fixed VHF Radios

- Built-in GPS (M330G only)
- Built-in class D DSC with a CH70 dedicated receiver
- Easy-to-read full dot-matrix display
- Waterproof rating: IPX7
- Ultra compact body
- Easy installation in limited space
- New speaker delivers dynamic, clear audio
- Intuitive operation with icom marine user interface
- Class leading receiver performance
- Dimensions: 6.2" x 2.6" x 4.3"
- Weight: 1.6 lb
- 3 year warranty



ICO IC-M330-#51
ICO IC-M330G-#71 GPS

Accessories:

ICO AC-MBF5 Flush mount kit
ICO HM-235B * Hand speaker microphone

* Special Order - may have stock

Icom IC-M424
Fixed VHF Radio

- Built-in GPS receiver
- Active noise cancelling
- New Icom marine family user interface
- 10W Loud Audio, Public Address and Foghorn
- Built-in Class D DSC
- New Optional COMMAND MIC IV HM-195B/SW
- Common GPS/NAV Interface
- MarineCommander compatible
- AquaQuake mic draining function
- Waterproof rating: IPX7
- Dimensions: 7.09" x 3.23" x 4.72"
- Weight: 2.65 lb
- 3 year warranty



ICO IC-M424G-#41

Icom IC-M605
Fixed VHF Radio



This unit allows the user to set up the radio with up to three stations

- Output power: 25w
- NMEA 2000, NMEA 0183 connectivity
- Hailer: 30W listen back hailer
- Horn/Foghorn
- Built-in GPS: GNSS antenna included
- Waterproof rating: IPX8
- AIS receiver
- Configuration flexibility
- Large 4.3" colour display with night mode
- AquaQuake mic draining function
- Dimensions: 10.8" x 4.5" x 5.8"
- Weight: 3.3 lb
- 3 year warranty

ICO IC-M605-#41

Icom IC-M510 EVO Fixed VHF Radios



- Class D DSC
- Colour TFT LCD screen with near 180° viewing angles and night mode
- NMEA 2000 and loud 25W two-way hailer/20W RX hailer built-in
- Speaker/microphone can be connected to either the front or rear panel
- RS-M500 app allows connection of three iOS or Android smart devices to function as a wireless microphone, intercom between a device and the M510, and a simple remote control
- Navigation function guides to a specified waypoint or AIS target
- AquaQuake mic draining function
- Active noise cancelling technology
- Integrated GNSS receiver
- IP68 Rated
- Power supply: 13.8 VDC (11.7 - 15.9)
- Current drain @ 13.8V: 5A max
- Dimensions: 6.9" x 4.3" x 2.1"
- Optional CT-M500 interface box allows wireless connection to NMEA 2000
- 3 year warranty

ICO IC-M510-#41

Accessories:

ICO MBF-7 M510 flush mount kit

Icom COMMANDMIC IV



The optional white backlit COMMANDMIC, HM-195G makes it convenient to create a separate station in a separate cabin or tower. All radio functions can be controlled from the COMMANDMIC.

- IPX7 Submersible rating
- Superior audio performance
- Control all communications & Class D DSC functions
- AquaQuake draining function
- Compatable with: IC-M424G, IC-M506 & IC-M605
- 2.66" × 5.69" × 1.46"

ICO HM-195GB

ICOM IC-M Accessories

ICO MB-75	Flush mount bracket - IC-M605
ICO MB-132	Flush mount bracket - IC-M424G, IC-M506
ICO OPC-999 *	Ext Cable, Command Mic II, 20'
ICO OPC-1000	Standard cable II Command Mic

* Special Order

Garmin VHF 115 Marine Radio



- Fixed-mount radio with plug and play via the NMEA 2000 network
- Standard Class D Digital Selective Calling (DSC) functionality (distress calling and direct calling with user programmed MMSI)
- 25W of transmit power with built-in GPS
- Frequency bands: all U.S., Canadian and international marine channels; 10 NOAA weather channels
- NMEA 2000: Yes
- NMEA 0183: Yes
- H: 3.4" x W: 6.7" x D: 5.8"
- Weight: 43.8 oz
- Water rating: IPX7
- 2 year warranty

GAR 010-02096-00

Garmin VHF 215 Marine Radios



- Compatible with the GHS 11 second-station handset
- Can connect to a hailer horn or PA speaker (Hailer output power: 20W @ 4 ohms)
- Fixed-mount radio with plug and play via the NMEA 2000 network
- Standard Class D Digital Selective Calling (DSC) functionality (distress calling and direct calling with user programmed MMSI)
- 25W of transmit power with built-in GPS
- Frequency bands: all U.S., Canadian and international marine channels; 10 NOAA weather channels
- NMEA 2000: Yes
- NMEA 0183: Yes
- H: 3.9" x W: 7.8" x D: 5.8"
- Weight: 42.8 oz
- Water rating: IPX7
- 2 year warranty

GAR 010-02097-00

- VHF 215 AIS radio displays AIS on the chartplotter

GAR 010-02098-00

Garmin VHF 315 Marine Radio



- Reliable 25-watt VHF Class D DSC marine radio
- Includes the GHS™ 11 handset and new active speaker to use as intercom between all stations
- Built-in GPS receiver (requires external antenna)
- NMEA 2000® connectivity for easy integration with compatible chartplotters and multifunction displays
- Preprogrammed with U.S., Canadian and international marine channels plus 10 NOAA weather channels
- Supports up to 3 stations with simple waterproof connectors
- NMEA 2000 LEN: 1
- NMEA 0183: Yes
- H: 8.1" x W: 7.1" x D: 2.4"
- Weight: 3.4 lb
- Water rating: IPX7
- 2 year warranty

GAR 010-02047-00

em-trak X100 VHF w/AIS



- High-performance Class D VHF/DSC radio and AIS Class B (5W SOTDMA)
- CLEAR-WAVE digital audio processing
- Full colour direct sunlight visible display
- WiFi and Bluetooth
- CONNECT-X app transforms your smart device into a full feature wireless command mic, and allows you to chat to anyone on the boat with private intercom functionality
- MOB function
- Dual/Tri/or custom Tri watch feature
- 15W external speaker/loudhailer
- NMEA2000 and 0183
- Integrated GPS (external antenna optional)
- Integrated zero-loss VHF antenna splitter
- H: 3.31" x W: 9.8" x D: 6.38"
- Weight: 700-800g
- Water rating: IPX7

EMT X100

Raymarine Ray53 VHF Radio



- Compact Class D marine VHF with Digital Selective Calling
- Built-in GPS/GNSS receiver with a connection point for an optional external antenna
- NMEA2000 and NMEA0183 networking for integration with onboard systems
- Audio output connection for optional passive remote speaker (A80542)
- Surface and trunnion mount kits included
- Styled to compliment the Axiom family of multifunction displays
- Low power setting 1 W | High power setting 25 W
- Water Proofing: IPx6 & IPx7
- Mounted: W: 7.7" x H: 4.5"
- Faceplate: W: 6.1" x H: 3.5"
- Install Depth: 5.3"

RAY E70524

Raymarine Ray63 VHF Radio



- Full-sized Class D marine VHF with Digital Selective Calling
- Wired or wireless expansion with optional RayMic handset stations
- Built-in GPS/GNSS receiver with connection point for optional external antenna
- NMEA2000 and NMEA0183 networking for integration with onboard systems
- Audio output connection for optional passive remote speaker (A80542)
- Surface and trunnion mount kits included
- Styled to compliment the Axiom family of multifunction displays
- Low power setting 1 W | High power setting 25 W
- Water Proofing: IPx6 & IPx7
- Mounted: W: 8.8" x H: 5.2"
- Faceplate: W: 7.8" x H: 3.9"
- Install Depth: 6.7"

RAY E70516

Raymarine Ray73 VHF Radio



Ray73 is Raymarine's deluxe traditional VHF radio packed with all of the powerful features of the Ray53 and 63, plus a built-in Automatic Identification System (AIS) receiver along with a loudhailer output. Add an optional hailing horn for fog signals and voice communication with on-deck crew.

- Built-in AIS receiver provides target data for chartplotter, radar, and instruments
- Fog signaling and public address functions with optional hailing horn (M95435)
- Wired or wireless expansion with optional RayMic handset stations
- Mounted: W: 8.8" x H: 5.2"
- Faceplate: W: 7.8" x H: 3.9"
- Install Depth: 6.7"

RAY E70517

Raymarine Ray90 VHF Radio



Raymarine's fixed mount Ray90 modular VHF radio brings multi-station communications to a whole new level of power, performance, and flexibility. The Ray90 is a black-box design with a transceiver that hides out of sight while the ergonomic RayMic handset and remote speaker provide full control of the radio with crystal clear audio.

- Black box, multi-station capable VHF radio
- Wired handset and passive speaker included
- Expandable to 2 handsets
- Position tracking feature to keep tabs on up to 5 nearby DSC equipped vessels, automatically shared with your Raymarine MFD
- Cast in solid aluminum for shock and vibration resistance and maximum heat dissipation
- Built-in loudhailer and fog signal generator
- Optional external GPS
- Simple NMEA2000 and NMEA0183 Networking
- Base: W: 9.3" x H: 5.9" x D: 2.4"
- Speakers: W: 4.7" x H: 4.4" x D: 1.8"
- Handset: W: 2.8" x H: 6.6" x D: 1.8"

RAY E70492

Uniden PRO 510-XL CB Radio



- Compact professional CB radio
- LED channel display
- Automatic noise limiter
- 4 Segment LED S/RF meter
- Adjustable squelch & volume
- W: 4-1/2" x H: 1-3/8" x D: 6-3/4"

UNI PRO-510XL

Newmar Intercom



For larger vessels where multiple station calling capability is desired. Communication can take place between up to 10 different stations. Any station can be individually selected and called by any other station. The phone base features 10 numbered call-buttons and a label is provided for identifying the different stations.

- Sold individually so that the system can be sized to requirements
- 12 volt power source required

NEW PI-10-WHITE

Newmar Intercom Sets



A two station, 12 volt intercom system makes for simple communication between the bridge, galley, engine room or staterooms. The system comes complete with 2 intercoms, 40' of hook-up wire and all the necessary hardware.

NEW PI-2-SET-BLK	Black, 2 station set
NEW PI-2-SET-WHT	White, 2 station set
NEW PI-2-BLACK	Black, phone only

Sea-Dog Microphone Clip



- Stamped 304 stainless steel
- 1-7/8" x 1"

SED 329990-1

Shakespeare Hailer Speaker



- 5" external hailer speaker
- White plastic horn speaker rated at 4 Ohm
- 15 watts (RMS) input

SHA HS-5A

Shakespeare Hailer Speaker



- 7" external hailer speaker
- White plastic horn speaker rated at 8 Ohm
- 40 watts (RMS) input
- W: 11" x H: 7" x D: 13"

SHA HS-40

Wesmar Hailer Speaker



- Weatherproof design
- ABS plastic construction, stainless steel hardware
- 8 Ohm, 30W Rms, 40W peak
- Vertical adjustable
- W: 8" x H: 4-3/4" x D: 9-1/2"

WES WP20(SPC15RP)

Wesmar Hailer Speaker



- Weatherproof design
- ABS plastic construction (off white), stainless steel hardware
- 8 Ohm, 40W Rms, 40W peak
- Vertical and horizontal adjustment
- Can be flush mounted
- W: 6.5" x H: 11" x D: 8-1/2"

WES SPC40RP

Shakespeare QuickConnect VHF Antennas

To make it easy and convenient to install/replace your antenna, we designed our QuickConnect antenna system with cable attached to the mount instead of the antenna itself. Simply screw on/off the antenna, and enjoy this hassle-free and cost-effective alternative to the traditional antenna installation. The QuickConnect products have a 2 year warranty and have the same mounting hole pattern as our standard antenna mounts. Note: When selecting a QuickConnect antenna, you must pair it with a QuickConnect mount.


QC-3


QC-4 & 8

Features:
- High quality connection
- Hanging dust protection cap
- Water protection cap
- Centerpin PL-259-CP-G connector
- Standard mount design

Benefits:
- Unscrew or screw antenna to disconnect or connect
- No noise generated due to vibrations
- Protect the connector on the mount when antenna is disconnected
- Cap stays fastened to mount to prevent it from getting lost
- Easy Solderless Centerpin Connector

Part #	Length	Type	DB Gain	Max Input	VSWR	Bandwith
SHA QC-3	3'	SS Whip / White Plastic Body	3	50	Less than 1.3:1 @ 156.8 MHz	5 MHz within 2.0:1 VSWR
SHA QC-4	4'	White Fibreglass Chrome-Plated Brass Ferrule	3	50	Less than 1.3:1 @ 156.8 MHz	5 MHz within 2.0:1 VSWR
SHA QC-8	8	White Fibreglass Chrome-Plated Brass Ferrule	6	50	Less than 1.3:1 @ 156.8 MHz	5 MHz within 2.0:1 VSWR


Shown with QCM-S mount

Shakespeare QuickConnect Antenna Mount



- 4-way ratchet design with locking handle
- Deck or side mount
- 1"-#14 thread, 9/32" hole for cable feed
- HD version developed to accommodate the Galaxy series antennas
- 20' of RG-58 attached

SHA QCM-S Stainless steel

Shakespeare QuickConnect Antenna Mount



- Ratchet action for quick and easy installation on to 7/8"-1" railing
- For antennas up to 8' in length
- Standard 1"-14 thread
- 9/32"' hole for cable feed
- With 20' of RG-58 attached

SHA QCM-SR Stainless steel

PHASE III 8 YEAR WARRANTY

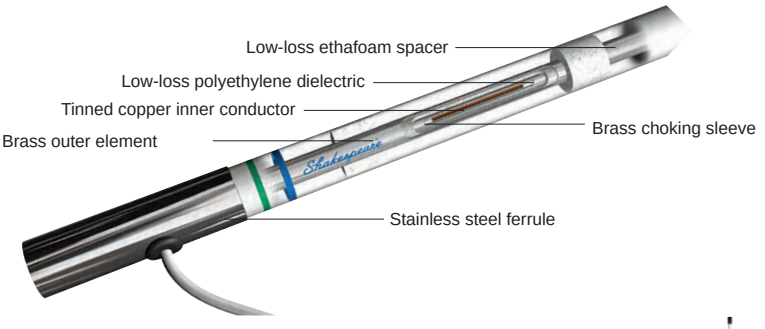
PHASE III VHF & AIS Antenna



Mounting sleeve for standard 1"-14 thread or mast mount. High-strength fibreglass radome, foam filled high-gloss, high-performance, non-yellowing polyurethane finish.
- Silver-plated outer conductor, copper inner conductor
- Stainless steel mounting sleeve
- Type "N" connector inside mounting sleeve for easy mounting and dismounting for stowage
- Colinear-phased 5/8 wave elements
- 6 dB gain

Max. Power Input: .....150 watts
VSWR:.....Less than 1.5:1 @ 156.8 MHz
Bandwidth:.....3 MHz within 2.0:1 VSWR

SHA 6225-R 8'



Shakespeare Galaxy Antennas have long been revered as the industry standard for both beauty and performance, with top notch materials and master craftsmanship as the basis for every antenna. Our master craftsmen hand solder, hand assemble and hand finish each antenna, following a 20-plus-year tradition. Relied upon for high performance and chosen for their extra durable construction, they are also universally admired for their beautiful, distinctive Galaxy finish. With mirror-polished, stainless steel ferrules, the antennas' pristine white radomes are protected by a proprietary, high-gloss polyurethane that won't fuzz or turn yellow in the sun.

Shakespeare Galaxy VHF Antennas

Extra strong – sturdy enough to be self-supporting, even in high winds and high speeds.

- Frequency Range: 156-164 MHz
- Brass and copper elements
- Stainless steel ferrule with standard 1"-14 thread
- 20' RG-8/X low-loss cable plus a PL-259 connector

Part #		Length	DB Gain	Max Input	VSWR	Bandwith
SHA 5400-XT	White	4'	3	50	Less than 1.5:1 @ 156.8 MHz	3 MHz within 2.0:1 VSWR
SHA 5401-XT	Black					
SHA 5225-XT	White	8'	6	100	Nominally 1.5:1 @ 156.8 MHz	3 MHz within 2.0:1 VSWR
SHA 5226-XT	Black					
SHA 5230	White	14'	8	200	Nominally 1.5:1 @ 156.8 MHz	3 MHz within 2.0:1 VSWR
SHA 5018	White	15'2"	9	150	Nominally 1.5:1 @ 156.8 MHz	3 MHz within 2.0:1 VSWR


5230 5018

Shakespeare 4' Galaxy Little Giant 3dB AIS Antenna

Specially designed to meet the broader bandwidth requirements of all popular AIS transceivers. Commercial-grade fibreglass construction.

- Center-fed 1/2 wave coaxial sleeve
- Brass and copper elements to maximize range
- Stainless steel ferrule w/standard 1"-14 thread
- Includes 20' RG-8/X cable and a PL-259 connector
- One Section

Max. Power Input: .....50 watts
SWR: .....nominally 1.5:1 at 158 MHz
Bandwidth:.....5 MHz within 2.0:1 VSWR

SHA 5396-AIS

Shakespeare 8' Galaxy 6dB AIS Antenna



Specifically designed to meet the broader bandwidth requirements of all popular AIS transceivers, this antenna features a commercial-grade fiberglass construction to ensure performance and durability. These benefits combined with the great look of our Galaxy high-gloss finish signifies a standard of quality to be admired.

- Brass and copper elements
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with 1" – 14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector

SHA 5225-XT-AIS

Shakespeare 4' Galaxy Little Giant AM/FM Antenna

Sturdy construction and outstanding performance make this an excellent choice for T-tops, hard-tops and other elevated mounting positions. Extra rigid, extra tough.

- Copper elements to maximize range
- Stainless steel ferrule with standard 1"-14 thread
- Includes 12' RG-62 cable with Motorola type plug installed
- One section

SHA 5420-XT

Shakespeare Galaxy Inflatable Emergency & Special Purpose VHF Antenna



- A full 3dB inflatable antenna that can be rapidly deployed via a CO2 cartridge or a manual tube and inflates to 5' (1.6 m)
- Provides a range of up to three times greater than any existing helical emergency antenna
- Can be deflated and stowed away safely in its easy-to-spot storage bag
- Mounted with hook and loop straps for a quick installation on almost any vertical structure
- Grommets on the top and bottom to facilitate hanging even in case the inflatable bladder becomes damaged
- Includes a pre-soldered PL-259 connector which allows connection to a fixed VHF directly or a handheld via the included SMA Adaptor
- Also includes a solder-free female UHF connector that allows the antenna to be spliced into existing coax cables
- Max. Input Power: 50 Watts
- SWR: nominally 1.5:1 at 156.8 MHz
- Bandwidth: 156-162 MHz within 2.0:1 VSWR

SHA INFL8-5 **

** While Stock Lasts

Shakespeare 8' Classic AM/FM Antenna



- Chrome-plated brass ferrule with 1"-14 thread
- Includes Motorola connector & 15' cable

SHA 5120

FYI

Here is a formula for calculating the range of an antenna:
Square Root of Height (in feet) above water x 1.42 = Range in miles

Remember to perform the calculation for BOTH vessels, then add the results to get the range between two vessels.

Shakespeare Classic VHF Antennas

5101



5104

Brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun.

- Brass and copper elements
- Chrome-plated brass ferrule with 1"-14 thread
- Includes 15' RG-58 cable and a PL-259 connector
- One section

Part #	Length	DB Gain	Max Input	DC Ground	VSWR	Bandwith
SHA 5101	8'	6	50	Yes	Nominally 1.5:1 @ 156 8 MHz	5 MHz within 2.0:1 SWR
SHA 5101-BLK						
SHA 5102	8'	6	50	Yes	Nominally 1.5:1 @ 156.8 MHz	5 MHz within 2.0:1 SWR
SHA 5104	4	3	50	Yes	Nominally 1.5:1 @ 156.8 MHz	5 MHz within 2.0:1 SWR
SHA 5104-BLK						

Shakespeare Classic SSB Antenna



- Conductors run the full length and are permanently sealed
- Chrome-plated brass ferrules
- Side feed termination band
- Two sections

Part #	Length	Type	Frequency Range	Max Input	Bandwith
SHA 390	23'	Full length conductors (No loading coil)	2-30 MHz w/tuner	1kw	Resonant Frequency: 10.8 MHz within 2.0:1 SWR

Shakespeare VHF Antennas

- Brass and copper elements
- Includes 15' RG58 cable and a PL-259 connect
- Integral deck mount
- One section

Part #	Length	DB Gain	Max Input	VSWR	Bandwith
SHA 396-1	5'	3	50	Nominally 1.5:1 @ 156.8 MHz	5 MHz within 2.0:1 SWR
SHA 5206N	8'	6	50	Nominally 1.3:1 @ 156.8 MHz	5 MHz within 2.0:1 SWR

Note # 5206N: *Nylon ferrule*



396-1

Shakespeare Comm-Light 6.6' VHF Antenna

NEW



With multiple lighting presets and dynamic pulsating modes, this antenna brings a new level of customization to your boat's lighting options.

- Full RGB colour spectrum
- Easy to navigate with app available on iOS and Android
- Brass and copper elements, and stainless steel ferrule with PMMA tube
- 6 dB gain with 5 MHz bandwith centred at 156.8 MHz
- 15' RG-58 cable with PL-259 connector
- 25' 2-piece power cable with controller
- 12/24V

SHA CL-6

Shakespeare 10" Stowaway Emergency VHF Flex Antenna 1/4 Wave Whip



Comes packed in a 12" weather-resistant, plastic tube which can "stow away" for instant emergency capability. Complete with 12' cable, connector, and rubber suction cup for fast, easy mounting to any smooth horizontal surface.

- Flexible vinyl outer covering
- 10" overall length
- Velcro strips for storage included

SHA 5911

Shakespeare 15" Sailboat Racers VHF Antenna



- Super light-weight black stainless steel antenna
- Gold-plated connector
- End-fed, center-loaded design
- Black L-bracket included for mast mounting
- One 15" section

SHA 5216

Shakespeare 7" Flexible VHF Antenna



Designed especially for small boat applications needing only short range communications, the Style 5912 is a small, space-saving antenna that attaches and detaches with ease, once the included gold plated Flush Mounting Kit has been installed. The connectors are gold plated for low-loss performance. It's compact, light weight, and easily stored.

- 7" (18cm) VHF Marine Band Flexible Antenna
- 25 watt max.
- Impedance: 50 Ohms
- No DC Ground - The antenna will read open on continuity test

SHA 5912

Shakespeare 36" Squatty Body End-Fed 1/2 Wave VHF Antennas



A favourite with sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting.

- Hermetically sealed, tin-plated copper wire coil
- Stainless steel body and whip
- SO-239 connector
- Mount: Stainless steel "L" bracket (supplied)

SHA 5215

Same features as the 5215 but comes complete with 60' of low-loss RG-8/X cable and a PL259 connector

SHA 5215C-X

Shakespeare 36" Stainless Steel Skinny Mini VHF Antenna



- This compact, lightweight antenna is ideal for vessels where space is limited
- Chrome plated brass canister minimizes de-tuning
- Cable and PL-259 connector included
- VHF marine band 3dB
- 3 foot stainless steel whip
- Sealed, tin-plated copper wire coil
- Requires mount with centre hole for passage of the supplied 15' RG-58 cable

SHA 5250

Shakespeare 36" Low Profile End-Fed 1/2 Wave VHF Antenna

- The perfect choice where compact size is most important
- Comes with a standard-duty stainless steel whip
- Chrome plated brass canister minimizes de-tuning
- Sealed, tin-plated copper wirecoil
- Requires mount with centre hole for passage of the supplied 15' RG-58 cable. PL-259 connector included
- Stainless steel whip

SHA 5241-R Heavy duty whip



Shakespeare 36" Squatty Body End-Fed 1/2 Wave AIS Antenna

A favourite with sailboat owners, this lightweight, low profile, stainless steel antenna was specially designed for masthead mounting and built with extra bandwidth for all popular AIS transceivers.

- Hermetically sealed, tin-plated copper wire coil
- VHF marine band 3dB
- Stainless steel body and whip
- SO-239 connector
- Mount: Stainless steel "L" bracket (supplied)

SHA 5215AIS



Shakespeare 36" Skinny Mini AIS Antenna

Designed to meet the broader bandwidth requirements of all popular AIS transceivers.

- Chrome plated brass canister minimizes de-tuning
- VHF marine band 3dB
- 3 foot stainless steel whip
- Sealed, tin-plated copper wire coil
- Requires mount with centre hole for passage of the supplied 15' RG-58 cable
- One section
- Built for AIS transceivers

SHA 5250-AIS



Shakespeare 36" AM/FM Antenna

This combination antenna features a distributive load for super signal pulling power. The coil is permanently sealed in Shakespeare's white fibreglass.

- Includes 10' RG-62 coax with Motorola plug
- Integrated Lift-n-Lay mount w/hardware
- One section, 39" overall length

1"-14 thread for standard mount.

SHA 4351





Shakespeare SeaWatch Marine TV Antennas

The SeaWatch series of TV antennas are omni-directional over-the-air digital HDTV solutions that bring sleek lines and 360 degrees high-performance coverage to your watercraft. Designed to accept common 1"-14 threaded mounts, the antennas are well suited to fit virtually any application. Everything needed to connect the antenna to your converter or television is in the box. When paired with an optional 2-way band separator between the antenna and the amplifier, these antennas can also receive AM/FM radio signals.

- Frequency Range: VHF:47-230MHz;UHF: 470-862MHz
- Receiving Range: FM/VHF/UHF
- Gain: 30dB
- Noise Figure: 3 dB
- Max. output lever: 110dBuV
- Impedance: 75ohms
- Connector: F-connectors
- Power Supply: DC 12V, AC 110V

Package Includes:

- Panel TV antenna
- 20' RG-59 coax cable/F-connectors
- USB/AC/DC power cords

15" Antenna

- For up to 65 km (40 miles) from broadcast towers

SHA 3015

19" Antenna

- For up to 120 km (75 miles) from broadcast towers

SHA 3019

Shakespeare Flat HDTV/FM Antenna



This razor-thin, multi-directional amplified antenna is the most advanced dual band (VHF/UHF) antenna on the market. Designed with Clear Circuit Technology, the embedded amplifier is able to amplify 100% of the signal at the element to maximize channel reception and minimize pixelation and dropouts for the best viewing experience possible

- Low noise amplifier
- Multi-directional
- Recieves ALL local HD broadcast signals
- AC, DC and USB power adapter
- Best suited for areas up to 15 miles from broadcast towers
- Frequency range: 47-230MHz, 470-862MHz
- Receiving Range: FM/VHF/UHF
- Gain: 28dB
- Noise figure: ≤3 dB
- Max output level: 100dBuV
- Impedance: 75ohms
- Power supply: AC/DC adapter (DC 12V/50mA)
- Power supply: DTV set-top box (DC 5V/40mA)
- Dimensions: 12" x 13"

SHA 2061 **

** While Stock Lasts

Shakespeare Galaxy SRA-50 Satellite Radio Antenna



Using the latest Satellite Radio technology, this SiriusXM approved antenna meets the most recent specifications set forth by SiriusXM. This antenna is compatible with all radios and docks that work on the Sirius and XM networks with push on style, single input SMB connector. This antenna can be mounted on almost every possible surface with 4 different mounting options:

- 4-way mounting system: flush, surface, pedestal or 1" 14 thread mount
- Sleek ultra low-profile design
- White UV-stabilized housing
- SiriusXM approved accessory
- Two year limited warranty

SHA SRA50

Shakespeare Satellite Radio Cable Kits

SHA SRC-50	50', RG58 cable w/SNB connector and TNC male connector.
SHA SRC-90	90', RG58-X cable w/male TNC connector both ends and a 6" cable w/SNB connector and female TNC connector.

Shakespeare Wireless Cellular Booster Kits



Wireless Cellular Booster Kits enable you optimize cellular coverage on your boat or in your home where reception is weak due to distance from cellular towers, topography or building interference or obstruction. These kits enhance 2G and 3G voice and data for all carriers. Its compartmentalized design and sturdy, marinized metal casing ensures enhanced call clarity that will last for years. Features adjustable dials for pinpoint enhancement and features and indoor panel antenna to direct coverage to where it is needed most.
Kit includes: 65dB amplifier, 5412 P antenna, indoor panel antenna and co-axial cables.

- Covers up to 5,000 square feet
- 5-10 simultaneous users
- 2-year manufacturer's warranty

Aura Booster Kit

- 2G and 3G compatible

SHA CA-VAT **

** While Stock Lasts

SuperHalo Booster Kit



Kit includes: 50dB amplifier, Galaxy 5239 outside antenna, indoor panel antenna and co-axial cables.

- 5-Band amplifier works with 2G, 3G, & 4G networks
- Stealth technology so the uplink becomes dormant while not in use to save power
- Automatic gain control (AGC) and does not overpower or interfere the cell sites
- Automatic shutdown so it is energy efficient and does not interfere with the cell sites
- Supports 10+ users simultaneously
- Manually adjustable gain for flexibility in antenna placement and fine-tuning the system

SHA CA-VAT-10-R

Shakespeare Stream Wireless Booster



- Amplifies weak cell signals along inshore, coastal, and popular cruising routes to use data on your cellular devices more reliably
- Place cellular-enabled device to be boosted within 1-2 inches of the black helm antenna to see your speed and reliability go up
- 5-Band amplifier works with 3G, 4G, and 5G networks
- Supports CDMA, WCDMA, GSM, EDGE, HSPA+, EVDO, LTE, and all cellular standards
- High-quality, marine-grade materials and design
- Plug and play, no plan required
- FCC certified
- Max gain: 50 dB
- Throughput: 100+ MBps
- Power supply/consumption: 6-15VDC / 2.1A Max @ 12VDC
- Includes mount

SHA CA-STREAM

Shakespeare World Band Cellular Antenna



This World-band antenna provides coverage for 2G/3G/4G and WLAN systems for Cellular, PCS, AWS and LTE frequencies, as well as 802.11n Wi-Fi. This compact, feature rich antenna is at home on virtually any watercraft, and is fitted with a stainless steel ferrule and N-connector that are compatible with nearly all Shakespeare 1″ -14 threaded mounts.

- Full Band (698 – 2700 MHz) Broadband
- 2G/3G/4G and WLAN systems
- Wi-Fi 802.11n compatible
- Designed for marine use
- Omni-directional antenna 3-4 dB Gain
- 9.25" H x 2.625" D

SHA 5239

Wave WiFi Rogue Pro & Pro DB



The Rogue Pro is an ultra-small, compact Wireless Bridge and Ethernet Converter with output power of an incredible 800mW. All the features and elements of the larger EC-Series like the user friendly, proprietary web-based interface are available in this easy to set-up kit. The Rogue comes with an 8.5dB omni-directional outdoor antenna and is powered by Power over Ethernet (PoE). This means there is a single cable between the computer or router and the Rogue. The Rogue can also be used with variety of remote mount, 2.4 GHz omni-directional antennas.
The Rogue Pro is an Ethernet Converter (EC) so a direct connection can be made to any Ethernet enabled device, router or switch. This means that, when connected to a wireless router, the Rogue Pro provides Internet connectivity for numerous wireless devices aboard the boat. There is no software to install and no power robbing USB connections. The ultra-small size of the Rogue Pro makes it the ideal 'personal' Ethernet Converter/Wireless Bridge for delivery captains and crew.

- Output power to 29dBm (800mW)
- Up to 7-mile range
- Sealed, polished stainless steel case withan integral 1″-14 ready base for numerous standard marine antenna mounts
- Easy to use proprietary web-based Wave WiFi Interface
- Compact, ultra-small design
- 120/220 VAC & 12VDC PoE injector
- 25' Ethernet cable
- Instructional CD, Quick Start Guide.
- One year limited warranty

WAV ROGUE-PRO ** 802.11 b/g/n (2.4 GHz)
WAV ROGUE-PRO-DB ** 802.11 a/n 5Ghz + 802.11 b/g/n 2.4Ghz
** While Stock Lasts

Wave WiFi Yacht AP DB

This AP integrates nicely with all Wave WiFi products and with most networking equipment. This AP can simultaneously broadcast on 2.4GHz and 5GHz Wi-fi spectrums. Use this AP for faster local connections and to broaden the wi-fi range on your boat.



- Dual Band
- Ethernet – Gigabit Port
- Wi-Fi 802.11 b/g/n/ac
- Power 24v PoE provided
- Speeds 300 Mbps to 867Mbps
- Diameter 6"

WAV YACHT-AP-DB **
** While Stock Lasts

Wave WiFi Yacht AP Mini



This AP integrates nicely with all Wave WiFi products and with most networking equipment. This AP broadcasts on the 2.4GHz network only. Use this AP to cover "wi-fi dead zones" on your boat.

- 2.4GHz Only
- Ethernet 10/100 Mbps Port
- Wi-Fi 802.11 b/g/n
- Power 12v PoE provided
- Speeds 54Mbps to 100Mbps
- Diameter 4.25"

WAV YACHT-AP-MINI **
** While Stock Lasts

Wave WiFi EC-HP



Wave WiFi's EC-HP produces the highest allowable output power of 1 Watt providing long-range connections to good quality HotSpots. The EC-HP supplies maximum receive sensitivity (-97dBm @ 1-11mbs G). The EC-HP supports WEP, WPA and WPA2 encryption and has a unique, built-in 'help' system, online firmware upgrades and free, online global weather forecasting from iMap Weather.
The EC-HP is a Ethernet Converter (EC) so a direct connection can be made to any Ethernet enabled device resulting in flawless performance as a standalone system or integrated into the boat's network. Also there is no software to install, no USB restrictions and no power-robbing USB connections. This means better performance for plug-and-play computer accessories like VoIP phones and webcams.
The EC-HP features a built-in MIMO access point allowing you to create your own HotSpot aboard your boat. Multiple laptop computers or devices aboard the boat can connect to the access point wirelessly.

- CPU: 600Mhz
- Output power - 30dBm (1W)
- Supports 802.11 a/n 5Ghz + 802.11 b/g/n 2.4Ghz
- Weather resistant enclosure
- User friendly proprietary web-based Wave WiFi Interface
- Exceptional receive sensitivity
- 2 x 7" 2.4 GHz 'Rubber-Duck' Antennas for MIMO Local Access Point
- 2 x 2.4 GHz 8dBi 40" Omni-Directional Antennas
- 2 x 25' LMR 400 antenna cables, N-Male connectors
- Ethernet port and 25' cable (to any Ethernet enabled device)
- DC Power, 12 volts - cable included
- Control box dimensions: H: 11" x W: 9"
- Instructional CD disk, Quick Start Guide
- One year limited warranty

WAV EC-HP-DB-AC *
* Special Order - may have stock

Shakespeare Antenna Radio Tester

The ART-3 tests receiver function as well as output power and VSWR (antenna efficiency). It is powered by an internal battery or can be connected to ships 12VDC with the supplied power cable.

- Frequency Range: 155-158 MHz
- RF Power Scale: 0 to 30 watts
- Impedance: 50 Ohm
- Connectors: SO-239
- Tone: 1000 Hz
- RF Level: -115 dBM (approx.)



SHA ART-3

Shakespeare AM/FM Marine Band Separator



- Eliminate the need for separate AM/FM and VHF antennas
- Operate your AM/FM and VHF radio at the same time
- Includes 10' of RG-62 coaxial cable and 3' of RG-58 VHF cable
- For base loaded antennas such as the 5215, 5240-R, 5241-R

SHA 4357-S

Ancor Marine Grade Coaxial Cable



- 100% tinned copper braid and centre conductor
- UV inhibiting white jacket

Part #	Type	Size	O.D.	Use
ANC 150510 **	RG58CU	100'	3/16"	Interconnect
ANC 150525FT **	RG58CU	Cut	3/16"	Electronics
ANC 151025 **	RG59U	250'	1/4"	TV's & SAT NAV's
ANC 151050FT **	RG59U	Cut	1/4"	TV's & SAT NAV's
ANC 151510 **	RG8X	100'	1/4"	VHF Runs < 50 ft.
ANC 151525 **	RG8X	250'	1/4"	VHF Runs < 50 ft.
ANC 151550FT **	RG8X	Cut	1/4"	VHF Runs < 50 ft.
ANC 151710 **	RG213	100'	13/32"	VHF Runs > 50 ft.
ANC 151725FT **	RG213	Cut	13/32"	VHF Runs > 50 ft.

** While Stock Lasts

Sea-Dog Coaxial Cable Assemblies



- Chrome plated brass cable assembly
- Pre-assembled PL-259 on both ends

SED 329800-1 2'
SED 329802-1 5'
SED 329804-1 10'
SED 329806-1 20'

Shakespeare Gold Plated Coaxial Connectors

Adapters

SHA PL258-G Barrel connector PL-259



Connectors



PL259-G



RA-259-239-G

SHA PL259-G For RG-8/AU & RG213 coax. Standard solder type connector
SHA PL259-8XG PL-259 connector with UG176 adapter & DooDad for RG-8X cable
SHA PL259-58G PL-259 connector with UG175 adapter & DooDad for RG-58 cable
SHA RA-259-239-G Right-angle PL-259 to SO-239 adapter



PL258CP-G



PL259CP-G

Shakespeare Gold Plated Centerpin Coaxial Connectors

The solution for installing a PL-259 connector or splicing a RG-58 A/U or RG-8/X coax cables. These connectors are solderless, fretless, gold plated and botchless. No measuring, no critical stripping, no fussing with coax. braid and no tinning.

SHA PL258CP-G For splicing RG-58 A/U and RG-8/X
SHA PL259CP-G For RG-58 A/U and RG-8/X

Sea-Dog UHF Cap and Chain



- For when connectors are not in use
- Chrome plated brass

SED 329970-1

Sea-Dog UHF/BNC Hand Held Radio Adapter

Chrome plated brass. Enables your hand held VHF to use a larger VHF antenna.



SED 329910-1

Sea-Dog BNC Male Connector-RG58/U Cable



BNC male fittings are miniature quick connect/disconnect radio frequency connectors used for RG58/U coaxial cable

- Nickel plated brass construction

SED 329913-1

Sea-Dog Double Female UHF Connector

Use when connecting two PL-259 connectors. Not recommended for through bulkhead applications.



SED 329950-1

Sea-Dog Double Female Bulkhead Connector

Use when connecting two PL-259 male connectors through a bulkhead.



SED 329951-1

Sea-Dog Double Male Adapter

Use to connect two female connectors.



SED 329953-1

Sea-Dog UHF Right Angle Connector

Elbow turns connecting wire at the back of set allowing radio to sit closer to the wall.

- Chrome plated brass



SED 329955-1

Sea-Dog UHF T- Adapter

Allows connection of two male PL-259 and one female SO-239 connectors.

- Chrome plated brass



SED 329957-1

Sea-Dog Coaxial Connectors



Male UHF Connector PL-259; For U/C cable, adaptor type.
SED 329900-1

Combination 329900 and 329905 for RG/58U cable.
SED 329901-1

Combination 329900 and 329906 for RG-59/U cable.
SED 329902-1

Reducer UG175U for RG-58/U Cable; Use with 329900.
SED 329905-1

Reducer UG176U for RG-59/U Cable; Use with 329900.
SED 329906-1

Shakespeare Heavy Duty Extension Masts



Constructed of white fibreglass and finished to match the Galaxy series of antennas. These extensions can be used to increase the height of the antenna, thus improving effective range and boost placement of an antenna above on-board obstructions. Stainless steel upper and lower ferrules with standard 1" thread.

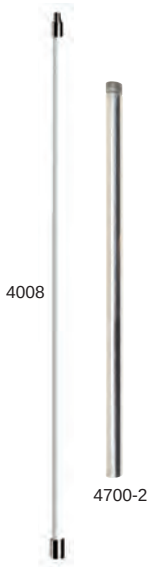
SHA 5228	8 ft. long - 1-1/2" dia
SHA 5228-1	1 ft. long - 1" dia
SHA 5228-2	2 ft long - 1" dia
SHA 5228-4	4 ft. long - 1-1/2" dia

Shakespeare Extensions

Mast Extensions - White Polycarbonate

- 8' heavy duty 1-1/2" dia
- Use with a 410 mounting kit
- Chrome plated brass ferrules
- 1"-14 thread, upper male, lower female
- Actual length 91"

SHA 4008 *
* Special Order



Mast Extensions - Stainless Steel

- 4-1/2"
- Heavy duty
- 1"-14 thread male and female fittings

SHA 4700	6" Extension
SHA 4700-1	1' Extension
SHA 4700-2	2' Extension

Sea-Dog Tube Mounted Antenna Base



Investment cast 316 stainless steel. can be used with any 1" O.D. stainless tubing allowing for custom mount.
SED 329520-1

Sea-Dog Antenna Mount Extension



- Investment cast 316 stainless steel
- Standard 1"-#14 thread

Part #	Length	Diameter	Tube Wall
SED 329532-1	12"	1-1/16"	13/16"
SED 329536-1	24"	1-1/16"	13/16"

Sea-Dog Antenna Hook



- 304 stainless steel
- Keeps your antenna in the lay down position

SED 329790-1

Sea-Dog Antenna Standoff Bracket



This bracket holds antennas in place when running and also provides additional support. Made from nylon and comes complete with stainless steel mounting hardware.
SED 329780-1

Shakespeare Stand-Off Bracket



- White moulded plastic
- Use on antennas of 1", 1-1/8" and 1-1/2" dia.
- Includes mounting hardware

SHA 408-R

Shakespeare Mounting Kits



Combines a versatile heavy duty swivel mount base with a 408 standoff bracket.
- For antennas of 1", 1-1/8" and 1-1/2" dia.
- Chrome plated
- Includes mounting hardware

SHA 409-R **
** While Stock Lasts

Combines a deck/side swivel mount base with a moulded upper bracket.
- For antennas of 1", 1-1/8" and 1-1/2" dia.
- Includes mounting hardware

SHA 410-R

Shakespeare Lift-N-Lay Mount



- Positive snap action
- Comes with levelling plate
- 1"-14 thread with a 3/8"-24 thread brass insert
- Antennas to 8'
- Polycarbonate

SHA 495-B

Sea-Dog Antenna Mount



- Injection molded nylon with dual swivelling mounts
- Open base design allows the antenna wire to be fed directly through the base
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-1/2" x L: 3-5/8" x H: 5-5/8"

SED 329100-1

Sea-Dog Antenna Mount



- Injection molded nylon ratchet
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-9/16" x L: 3-5/8" x H: 4-3/4"
- Colour - White

SED 329130-1

Shakespeare Antenna Mount



- Solid nylon base (non-yellowing)
- 4-way ratchet design with handle
- For deck or bulkhead mounting
- Standard 1"-14 thread male threads
- For use with small antennas

NOTE The 4186 is not for use with antennas longer than 8' in self-supporting mode.

SHA 4186U

Shakespeare Antenna Mount



- Stainless steel
- Mount allows full 4D range of motion without the use of tools
- Mount deck or side - can be installed at extreme angles
- Standard 1"-14 male thread
- Bolt holes: 5/16" dia, 3" x 1-1/2" on centre

SHA 6187

Shakespeare Antenna Ratchet Mount



- Stainless steel antenna base
- 4-way ratchet design with locking handle
- Deck or side mount
- 1"-#14 thread, 9/32" hole for cable feed
- HD version developed to accommodate the Galaxy series antennas

SHA 4187
SHA 4187HD Extra strength & rigidity

Shakespeare Antenna Ratchet Mount



- Stainless steel
- Designer look, 4-way ratchet mount
- Its simple lines come from a nutless design
- 5° teeth for finer adjustments than standard mounts (no shims required)
- Standard 1"-14 threads and a special cable slot that eliminates removal of most factory installed connectors
- Bolt holes: 5/16" dia, 3" x 1-1/2" on centre

SHA 5187

Shakespeare Antenna Mount



- For deck or side mounting when used with a SHA 408-R upper support bracket (sold separately)
- Base is dual jointed, free-pivoting, and allows easy lowering of antenna for clearing overhead obstructions
- Standard 1"-14 thread

SHA 81-S

Sea-Dog Adjustable Antenna Mount



- Die cast chrome plated zinc for fresh water environments
- Designed with an integral feed system for Loran cable
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-1/8" x L: 3-5/8" x H: 4-3/4"

SED 329300-1

Sea-Dog Adjustable Antenna Mount



- 316 investment cast stainless
- Dual swivelling mounts
- Integral feed system for Loran cable
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-1/2" x L: 2-15/16" x H: 4-1/2"

SED 329230-1

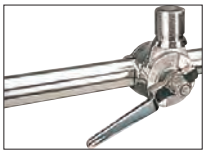
Sea-Dog HD Adjustable Antenna Mount



- 316 investment cast stainless
- Dual swivelling mounts
- Integral feed system for Loran cable
- Additional height and weight compared to the 329230
- Accept any antenna 1"-14 thread
- Use #14" F.H. screw
- W: 2-1/4" x L: 3" x H: 5-15/16"

SED 329235-1

Sea-Dog Adjustable Antenna Mount



- 316 investment cast stainless
- Attaches to 7/8" and 1" vertical and horizontal rails
- Lever action laydown handle
- W: 4-5/8" x H: 3-7/16"

SED 327145-1

Shakespeare Rail Mount Antenna Base



- Stainless steel
- Ratchet action for quick and easy installation onto 7/8"-1" railing
- For antennas up to 8' in length
- Standard 1"-14 thread
- 9/32" hole for cable feed

SHA 4190

Shakespeare Rail Mount Antenna Base



- Stainless steel
- Ratchet action for quick and easy installation on to 7/8"-1" (4188S) or 1" to 1-1/2" (4188SL) railing
- For antennas up to 8' in length
- Standard 1"-14 thread
- 9/32"' hole for cable feed

SHA 4188SL

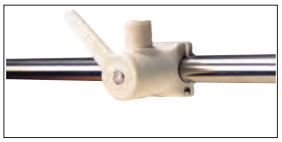
Scanstrut Antenna Mount



- Stainless steel
- Watertight seal
- Attaches to 1" vertical and horizontal rails
- Allows for internal cable routing to ensure a neat installation

SCA RA-01

Sea-Dog Rail Mount Antenna Bracket



- Injection molded nylon
- Fits rails 7/8" - 1", 3-5/8" high
- Accept any antenna 1"-14 thread
- Complete with stainless steel screws

SED 327148-1

Shakespeare Antenna Rail Mount



- Economy stainless steel rail mount
- Comes with adaptors to fit 7/8", 1 & 1-1/4" vertical or horizontal rails
- Use with standard 1"-14 thread antennas
- Can be mounted on flat surfaces

SHA 4720

Sea-Dog Antenna Adapter



Allows the mounting of a 3/8"-24 thread Loran whip onto standard 1" base.

SED 329550-1

► *Also See* Shakespeare QuickConnect Mounts pg 03-085

Sea-Dog Straight Antenna Bases



- Flange mount fixed antenna bracket
- Formed 304 stainless steel construction
- Designed to allow wire to feed directly through the base eliminating the need for a separate cable grommet
- Standard 1"- #14 threads
- Installs with three 1/4" RH fasteners (not included)

SED 329515-1 4-1/2"
SED 329517-1 1-1/2"

Sea-Dog Fixed Antenna Base



- Accept any antenna 1"-14 thread
- Base diameter: 2-13/16"
- Use 1/4" RH fasteners

SED 329500-1

Shakespeare Antenna Base



- Low profile, 1" high mount
- Accept any antenna 1"-14 thread
- For GPS, marine TV and shorter antennas

SHA 4710 Stainless steel

Shakespeare Straight Antenna Base



- All stainless steel construction
- Accept any antenna 1"-14 thread
- 4" high
- Perfect for radar arches
- Can be used with a 4364 extension mast
- Use 1/4" fasteners

SHA 4365

Sea-Dog Straight Antenna Base



- All stainless steel construction
- Wire will feed through base
- Accept any antenna 1"-14 thread
- 4" high 2-7/8" base
- Use 1/4" fasteners

SED 329510-1

Shakespeare Mounting Shims



Shim kit for ratchet mounts consists of 4 shims, two each with front/back and side/side slope. Each shim adds a half-notch (5°) tilt. Stack them for extra height or for compound angles.

SHA 414

BRNKL Accessories

Camera



- Add an additional camera to your system
- Indoor/outdoor cameras are rated for extreme environments and are the size of an egg
- Requires BRNKL Mate (only 2 cameras can be added currently)

BRN WIRED_ACC_CAM *

Door / Window Sensors



- Magnet switches alert you when doors, windows, hatches, drawers, or other apertures open

BRN WIRED_ACC_DOOR * Hard wired

Plug-In Shore Power Sensor



- Plug-in shore power sensor allows your BRNKL to monitor your boat's shore power connection from a simple wall outlet inside your vessel.
- If your shore power becomes disconnected, the plug will lose power and BRNKL will send you an alert

BRN WIRED_ACC_SHORE *

AC Device Expander



- Relay allows you to control devices like heaters, AC lights, and even your coffee maker

BRN WIRED_ACC_ACRLY *

DC Device Expander



- Used to monitor additional 12V switching inputs and convert them to switching ground inputs.
- Primarily used to monitor addtional bilge pumps on board your boat
- Add up to four (4) DC Device Controllers

BRN WIRED_ACC_DCRLY *

* Special Order - may have stock

Radar and Satdome Modular Mount System

- 3 simple steps to build your modular mount
- Steps 1 and 2 required to build your mount, Step 3 is optional

STEP 1: SELECT MOUNT TYPE

- Made from cast aluminum adding incredible strength while providing an attractive addition to any vessel
- Elevating your radar with the Seaview mounts maximizes performance, longevity & safety



PMA-57-M1, ADA-R1, LTB-R, SP1-MOD and LTBP-1697



AM12-M1 and ADA-S1



PMA-1810-M2, ADA-S2, LTB-S and LTBP-1697

Item #	Description
Closed Dome Radars, Small Satdomes (16" Diameter or smaller), Light & Cameras	
SVW PMF-57-M1	5" Modular Mount / FWD raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW PMF-107-M1	10" Modular Mount / FWD raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW PMA-57-M1	5" Modular Mount / AFT raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW PMA-57-M1-BLK	Black, 5" Modular Mount / AFT raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW PMA-107-M1	10" Modular Mount / AFT raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW PMA-167-M1	16" Modular Mount / AFT raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW PMA-247-M1	24" Modular Mount / AFT raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW AM5-M1	5" Modular Mount / Vetical / 8" Rnd base plate / Light bar compatible / Top plate required
SVW AM12-M1	12" Modular Mount / Vetical / 8" Rnd base plate / Light bar compatible / Top plate required
SVW AM18-M1 *	18" Modular Mount / Vertical / 8" Rnd base plate / Light bar compatible / Top plate required
Large Satdomes (18" - 24") / Open Array Radars (up to 4.5')	
SVW PMA-57-M1	5" Modular Mount / AFT raked / 7" x 7" base plate / Light bar compatible / Top plate required
SVW PMA-1210-M2	12" Modular Mount / AFT raked / 10" x 10" base plate / Light bar compatible / Top plate required
SVW PMA-1810-M2	18" Modular Mount / AFT raked / 10" x 10" base plate / Light bar compatible / Top plate required
Dual Mounts	
SVW PMA-DM1-M2	13.25" Dual Mount pre-drilled for most closed dome radars. Top plate required for satdomes
SVW PMA-DM2-M2	23.75" Dual Mount pre-drilled for up to 4.5' Open Array Radar. Top plate required for satdomes
SVW PMA-DM3-M1 *	28" Dual Mount pre-drilled for up to 4.5' Open Array Radar. Top for Satellite domes / Top plate required
SVW PMA-DM4-M1 *	19" Dual Mount pre-drilled for most closed dome radars. Top for FLIR, Searchlight or Satellite domes / Top plate

STEP 2 CHOOSE TOP PLATE

- UV stable white ABS with internal anodized aluminum plate pre-drilled to match your electronics
- This new plate means you only have 4 visible mounting bolts...no more unwated and unused holes



PMA-DM1-M2, ADA-S1, SP2-MOD, LTB-SF and LTBP-1697



PMA-57-M1 w/ADA-R1

Item #	Description
Radar (Closed Dome & Open Array 4' - 6'), Searchlights & Thermal Cameras	
SVW ADA-R1	Modular plate for Closed Dome and Open Array Radars, for mounts ending (M1)
SVW ADA-R1BLK	Modular plate for Closed Dome and Open Array Radars, for mounts ending (M1), Black
SVW ADAR1DMLTB	Modular plate for Closed Dome and Open Array Radars, for mounts ending (M2)
SVW ADAR1V2	White pre-drilled all aluminum top plate for 18-24" Raymarine, Garmin & Navico closed dome radars
SVW ADA-F1 *	Modular plate for mounts ending in M1 or M2 to fit FLIR M-Series or Raymarine T-Series thermal cameras
SVW ADA-F2	For FLIR M100 or M200 thermal cameras
SVW ADA-F3 *	For mounts ending in M1 or M2 to fit FLIR M300 series thermal cameras
SVW ADA-BLANK	For Searchlights on Seaview mounts ending M1 or M2
SVW ADA-HALO3 *	Modular plate for Simrad open array radar adapter plate. MUST BE USED WITH ADA-R1
Satdome	
SVW ADA-S1	Modular plate for mounts ending in M1 to fit KVH M1/M2/M3/TV1/TV3 , Intellian i1/i2/i3, Raymarine 33/37STV / For mounts ending in M2 to fit KVH M2/M3/TV3, Intellian i3, Raymarine 37STV
SVW ADA-S2	Modular plate for mounts ending in M1 or M2 to fit KVH M5/M7/TV5/TV6, Intellian i4/i6/d6, Raymarine 45/60STV
SVW ADA-S3 *	Modular plate for mounts ending in M2 to fit KVH M1/TV1, Intellian i1/i2, Raymarine 33STV

* Special Order - may have stock



ADA-R1



ADA-R1BLK



ADAR1V2



ADA-S1

STEP 3 CHOOSE OPTIONAL ACCESSORIES

- Heavy duty 1-1/4" light bars for easy cable pass
- LTB TOPs required with light bar orders
- Some light bars fold over 90° as needed
- Spreader kits (all inclusive)

Item #	Description
Light / GPS Bars (Must pick a Light Bar Top)	
SVW LTB-R	1-1/4" Light bar for closed dome radar (folds over 90°)
SVW LTB-OA	1-1/4" Light bar for open array radar up to 4.5 ft.
SVW LTB-S	1-1/4" Light bar for 18" or smaller satdomes (folds over 90°)
SVW LTB-13	1-1/4" Light bar for searchlights and thermal cameras (not for use with FLIR M300 series) up to 14" tall (folds over 90°)
Light Bar Tops (LTB TOP)	
SVW LTB-U1A	Universal Light Bar Top for mounting your own light and or GPS
SVW LTBLED12C5	Round, C5 compliant, 3NM combination mast head/all-round light. IP67 with 7' of wire
Spreader Kits	
SVW SP1-MOD **	Complete spreader kit for radar or satdome applications, no additional accessories required / ***For mounts ending in "M1"***
SVW SP1-MOD-V2	Complete spreader kit for radar or satdome applications, no additional accessories required, includes 1-14 threaded adapters / ***For mounts ending in "M1"***
SVW SP2-MOD-V2 *	Complete spreader kit for radar or satdome applications, no additional accessories required, includes 1-14 threaded adapters / ***For mounts ending in "M2"***
Threaded Insert for Spreader Kits	
SVW SP7-SS	Stainless steel 1-14 threaded insert - replaces standard plastic insert
Base Wedge	
SVW PM-W2-7 *	2° wedge for 7" x 7" radar mount base plate
SVW PM-W4-7	4° wedge for 7" x 7" radar mount base plate
SVW PM-W6-7 *	6° wedge for 7" x 7" radar mount base plate
Hinge Adapters For Base Plate	
SVW PM-H7	Hinge adapter for 7" x 7" base plate / fits most 5-16" tall radar mounts

* Special Order
** While Stock Lasts

LTB-R



LTB-OA



LTB-S



LTB-13



LTBU1A



LTBLED12





Complete spreader kit



PM-W4-7



PM-H7



RW4-2

Seaview Direct Mount Radar Wedges (4°)

SVW RW4-1 *	4 degree direct mount wedge for Furuno DRS4DL (15"-20" radar), 18" Koden & 18" Sitex
SVW RW4-2	4° direct mount radar wedge for Raymarine, Garmin & 3G/4G closed dome radars
SVW RW4-3 *	4° direct mount radar wedge for Furuno, Garmin, Koden & Simrad open array radars
SVW RW4-4 *	4° direct mount radar wedge for Raymarine open array radars
SVW RW4-7 *	4° direct mount radar wedge for Simrad Halo open array radars



PMA-5-7LSS

Seaview Stainless Steel Mounts

SVW PMA-5-7LSS *	Stainless steel 5" Mount / AFT rake / 7 x 7 base / For any closed dome radar

* Special Order



SM-18-R and SM-G18-U

Seaview Mast Mounts

SVW SM-18-R	Mast mount for 18" Raymarine, Garmin & 3G/4G radars / fits masts 2-5/8" or larger
SVW SM-18-U	Mast mount for 18" Furuno, Sitex, Lowrance, Simrad & Koden radars / fits masts 2-5/8" or larger
SVW SM-24-U	Mast mount for 24" Furuno, Geonav, JRC, Lowrance & Simrad radars / fits masts 3-5/8" or larger
Stainless Steel Guards	
SVW SMG18U *	Stainless steel guard for 12-20" closed dome radars



PM5-FMT-8

Seaview Camera & Search Light Mounts

SVW PM5-FM-38 *	5.75" Thermal Camera Mount (FLIR M300 series) / Vertical / 8 in. round base plate
SVW PM5-FMT-8	5" thermal camera mount for FLIR M-Series and Raymarine T-Series / Vertical / 8" round base
SVW PM5-FMD-8 *	5" thermal camera mount for FLIR MD-Series and Raymarine T200-Series / Vertical / 8" round base
SVW FTDR-3*	1.5" Thermal Camera Top Down Riser for FLIR MD324, MD625 / Vertical or upside down
SVW PM5-FMH-8 *	5.75" Thermal Camera Mount (FLIR M100/M200 series) / Vertical / 8 in. round base plate
SVW PM5-SXN-8	5.5" - 5.75" Thermal camera mount for Sionyx Nightwave / Vertical / 8" round base



AMA-16

Seaview Low Profile Satdome Mounts

SVW AMA-GXF *	3" tall for KVH M1/M1DX/TV1, Intellian i1/i2, Raymarine 33STV
SVW AMA-16 *	2-3/4" tall for KVH M2/M3/M3DX/M3ST/V3/TV3, Intellian i3, Raymarine 37STV / 8" round base
SVW AMA-18	2-3/4" tall for KVH M5/TV5/, Intellian i4/i4P/k4/d4, Raymarine 45STV / 8" round base
SVW AMA-18IP *	2-3/4" tall for KVH V7IP, V3IP / 8-1/4" round base
SVW AMA-24	2-3/4" tall for KVH M7/M7SK/V7/G6/HD7, Intellian i6/i6P/d6/k6/s60, Raymarine 60STV / 8-1/4" round base
Low Profile Satdome Mount Accessories	
SVW AMA-W	Adjustable wedge (0-12°) / for low profile satdome mounts listed above

* Special Order



Seaview Starlink Threaded Adapters



- Adapter has 1"-14 threads with set screw at bottom to lock in place
- Top of adapter is machined to fit Starlink antenna post
- 316 stainless steel
- 3.63" tall

SVW SV114STLK



- Fixed base
- Top of the adapter is machined to fit the Starlink antenna post
- Cable can pass through the entire adapter and exit out centre of fixed base, or exit just before the adapter
- 4" overall height

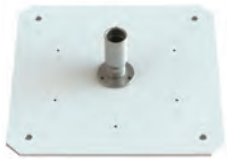
SVW SV114STLKFB



- Includes ratchet base
- Mount has 3/8" hole for cable pass-through
- 7.5" overall height, including ratchet base
- Base measures 2.5" x 3.5625", with 4 holes for 1/4" bolts

SVW SV114STLKRB

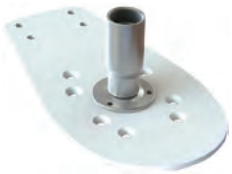
Seaview Starlink Adapter with Fixed Base



- 316L stainless steel Starlink adapter with a 1"-14 threaded fixed base on 1/4" aluminum powder coated white plate
- Fits inside an empty 24" KVH or Intellian dome with 12" x 12" mounting holes

SVW SVK24STLK

Seaview Starlink Modular Top Plate



- Starlink quick release top plate for Seaview M1 and M2 style mounts
- Includes 316 stainless steel Starlink adapter with 1"-14 threaded fixed base
- 1/4" powder coated aluminum plate can accommodate a Seaview light bar
- 4.25" overall height

SVW ADASTLK

Seaview Starlink Mini Mounts

NEW



Seaview's rail and base mounts offer versatile secure mounting solutions for your Starlink Mini.

SVRCLMINI Mini Kit includes a robust Mini mount bracket that locks firmly into the Starlink Mini antenna base, ensuring stability, and all necessary components for mounting onto a 1" - 1-1/4" diameter rail or tube, and a secondary base for threading to a standard 1-1/4" antenna mount.



SVRCLMINIRCL1 version adds a Seaview stainless steel clamp to the above, which is ideal if the Mini is removed often.

SVW SVRCLMINI
SVW SVRCLMINIRCL1

Seaview Starlink Mini Quick Release Removable Base

NEW



- Easily mount and detach your Starlink Mini by pulling the black knob - no tools required
- Durable anodized 6061 aluminum and stainless steel hardware
- Secure bracket attaches directly to antenna
- Can bolt to flat surfaces, or clamp to tubing with included hose clamps and sleeves



SVW APXMINIQR Mount and base kit
SVW APXMINIQRB Base only

Seaview Starlink Top Plate



- Starlink Maritime (flat high performance) top plate for Seaview M1 style modular mounts
- Watertight gasket in the centre of plate to pass the Starlink cable
- Not light bar compatible

SVW ADASTLKA

Seaview Starlink Wedge



- Designed to fit the Starlink Flat High Performance Antenna
- 8° wedge base is a direct replacement for the base that comes with the Starlink antenna
- Pre-drilled mounting holes allow fastening directly to the wedge
- No additional cable seal necessary (provided w/ Starlink antenna)
- No need to cut the Starlink connectors for installation
- Marine grade aluminum with 3 part polyurethane prime and powder coat

SVW SVSLWB

Scanstrut Starlink Wedge



- Designed to fit Starlink High-Performance
- Pre-drilled mounting holes allow the hardware to fasten directly to the wedge
- Built-in Scanstrut cable seal ensures watertight installation without sealant, and without the need to remove Starlink connectors during the installation
- Marine grade aluminum finished with Scanstrut's 4-step marine paint system
- L: 16.78" x W: 13.39" x H: 3.72"

SCA SC-SL-01

Scanstrut Aluminum PowerTowers

For Radomes, Open Array, and Small Satcom/TV Antennae
Choice of heights





- Available in aft or forward leaning designs with a 25° rake
- Pre-drilled mounting holes; fastens to top plate using its own mounting bolts
- Marine sealant not required
- Internally mounted Scanstrut DS30 cable seal
- Constructed from marine-grade aluminum with powder coating
- Fits Garmin, Raymarine, Simrad, Lowrance Radar

SCA APT-150-01-WHT	Aft, 25°, 6" high, white
SCA APT-150-01-BLK	Aft, 25°, 6" high, black
SCA APT-250-01	Aft, 25°, 10" high, white
SCA APT-250-01-BLK	Aft, 25°, 10" high, black

Starlink PowerTower



- Designed to fit Starlink High-Performance
- Wedge positions the Starlink at an 8° angle for optimal connectivity
- Including wedge: L: 16.78" x W: 13.39" x H: 9.38"

SCA APT-150-SL-01 White

Scanstrut Central Lightbar



- Fits a wide range of Navlights
- No drilling required, uses the Easy-Fit Mount System
- Powder coated aluminum
- 100% watertight installation, all cables are internally routed and hidden
- For use with APT-150-01 and APT-250-01 only
- Compatible with: Hella NaviLED Pro & 2984 Series / Aquasignal Series 25 & 40 / Perko 0200, 0466, and 0455 / Lopolight
- Overall height: 25.4"
- Tube Diameter: 1.26"

SCA APT-LB-01	White
SCA APT-LB-01-BLK	Black

Scanstrut Lightbar w/All Round Light LED



- Combines Scanstrut's best selling light bar with an integrated all round white LED light
- For use with APT-150-01 and APT-250-01
- Fits using a pre-drilled, internally mounted 316 stainless backing plate
- Powder coated aluminum
- 2NM visibility
- Internal cable routing into the PowerTower
- Overall height: 15.9"
- Tube diameter: 1.26"
- Thread 1" x 14 TPI

SCA APT-LB-L1

Scanstrut Antenna Bar



Central GPS / VHF Antenna Bar
Fits single antenna

- No drilling required, fits PowerTower using pre-drilled, tapped internally mounted 316 stainless backing plates
- Powder coated aluminum
- For use with APT-150-01 and APT-250-01 only
- Overall height: 12.5"
- Tube Diameter: 1.26"
- Thread: 1" x 14 TPI

SCA APT-GPS-01 White

Scanstrut Central Bar and Wing Plate



Mount for 2x Antenna and 1x Navlight

- No drilling required, uses the Easy-Fit Mount System
- Powder coated aluminum
- For use with APT-150-01 and APT-250-01 only
- Overall height: 19.76"
- Tube Diameter: 1.26"
- Thread 1" x 14 TPI

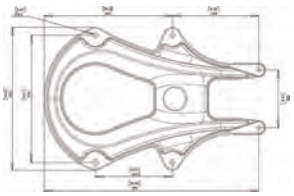
SCA APT-LB-GPS2-01

Scanstrut Mast Radar Mounts

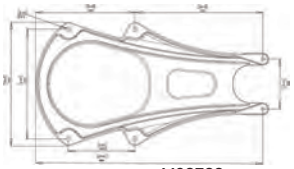


New, larger mounting foot is stronger, stiffer, and now even easier to fit

- Attached to mast with four swivel feet, matching a variety of mast profiles
- 12 point fixing using high quality monel rivets
- Antenna extends only minimum distance from the front of the mast
- Safety wire kit independently attaches scanner to mast
- Powder coated aluminum
- M92722 - L: 19.1" x W 10.4"
- SC20 - L: 15.6" x W: 10.4"



SC20



M92722

SCA M92722 Allows addition of radar guard

SCA SC20

Scanstrut Base Wedge



- 4° base wedge
- Fits composite or aluminum PowerTowers, excluding SPT1004 and SPT1005
- Fits below all PowerTower bases
- Includes watertight base seal
- Marine grade polymer
- W: 8.07" x L: 8.07"

SCA PT3010

Blue Sea Systems DC Analog Ammeters



8005

- Can be surface or flush mounted
- Simple 2-wire connection from shunt
- Meter senses and powers from shunt connection
- Packaged with shunt (except 8005 with internal shunt)
- Face can be backlit
- Face Dimension: 2.75"

BSS 8005 0-25 amp DC
BSS 8022 0-50 amp DC
BSS 8017 0-100 amp DC
BSS 8018 0-150 amp DC

Blue Sea Systems Analog DC Voltmeters



8003

- Displays to .2 volt
- Draws only 1 milliamperes
- Accurate to 3% of scale range
- Face can be backlit
- Face Dimension: 2.75"

BSS 8003 8-16 Volts DC
BSS 8240 18-32 Volts DC

Blue Sea Systems AC Voltmeter



- 150 Volt dial marked in 5^0 increments
- Simple 2-wire connection
- Face can be backlit
- Face Dimension: 2.75"

BSS 9353

Blue Sea Systems AC Ammeter



- 50 Amp dial marked in 2 amp increments
- Meter senses and powers from coil slipped over wire to be measured
- Includes current transformer
- Simple 2-wire connection
- Face can be backlit
- Face Dimension: 2.75"

BSS 9630

Blue Sea Systems 3-Bank Voltage Monitor



- Standard 8-16 voltmeter
- 3.75 "H x 5.25" W panel
- Rotary switch to switch between 3 different battery banks

BSS 8015

Blue Sea Systems 3-Bank Digital DC Voltmeter



- Reads from 7-60VDC
- Easy to read red LED display w/dimmer
- Meter senses and powers from same location
- Draws as little as 13 milliamperes
- Simple 3-wire installation
- Face can be backlit
- Dimensions: 3.75" H x 5.25" W

BSS 8051

Blue Sea Systems Digital Meters



8235

- Spin-on mounting system
- Panel mounts in any full size Blue Sea Systems' electrical panel meter cut-out

All digital series meters share the following features:

- 3 display brightness levels + off (sleep mode)
- Splash proof case
- Display character size: 9/16"
- Power consumption min. 0.60 Watt
- Power consumption max. 1.00 Watt
- Standby consumption: 0.15 Watt
- W: 2.896" x H: 2.431" x Mounting D: 2.75" x Cutout dia: 2"

DC Digital Voltmeter

- Displays voltage from 0 to 60 volts
- 3 Display brightness levels & off

BSS 8235

DC Digital Ammeter

- Displays amperage from -500 to +500 amps
- Standard meter operates in negative side of circuit only
- Input voltage 7-60VDC
- Includes 500 amp shunt

BSS 8236

DC Digital Multimeter With Alarm

- Displays amperage from -500 to +500 amps
- Displays voltage from 7 to 60 volts in 0.01 volt increments
- User defined high and low voltage, audio and visual alarms
- Standard meter operates in negative side of circuit only
- Includes 500 amp shunt

BSS 8248

DC Digital Voltmeter With Alarm

- Displays voltage from 7 to 60 volts
- User defined high and low voltage audio and visual alarms
- Input voltage 7-60VDC

BSS 8251

AC Digital Voltmeter

- Displays voltage from 80 to 249 volts
- Input voltage range 80 to 249 VAC*
- For 120 & 240VAC single phase systems

BSS 8237

AC Digital Ammeter

- Displays amps from 0 to 150 amps
- Includes current transformer
- For 120 & 240VAC single phase systems

BSS 8238

AC Digital Multimeter With Alarm

- Displays amperage from 0 to 150 amps
- Displays voltage from 80 to 249 volts
- Displays power from 0-35 kilowatts
- Displays frequency from 40 to 90 hertz
- For 120 & 240VAC single phase systems
- User defined high amperage audio and visual alarm
- Includes current transformer (#8256)

BSS 8247

AC Digital Frequency

Displays frequency from 40 to 90 Hz

BSS 8239

Blue Sea Systems M2 OLED Monitors

The M2 Organic LED Digital Monitor measures essential electrical system parameters with adjustable alarms and an auto-dimming display. The M2 Monitors include a MOSFET External Circuit Relay (ECR) which can be used to control external circuits based on any value measured by the M2.

- Auto-dimming, bright Organic LED display is easy to read
- 80dB alarm on all models
- Isolated 500mA MOSFET relay
- Includes external DC Shunt or AC Current Transformer when required
- Display Size: 55mm x 28mm
- Input Voltage: 7-70V DC
- Range (Power Consumption): 0.3W–1.0W



AC Meters

M2 AC Ammeter

Monitors AC Amperage on large, bright display. Supports programmable current transformer ratios. Accurately measure and alarm the amperage of your AC system. (measures 2 independent circuits)

BSS 1836

M2 AC Voltmeter

Monitors AC Voltage on large, bright display. Accurately measure and monitors the voltage of your AC system. (measures 2 independent circuits or 1 double phase circuit)

BSS 1837

M2 AC Multimeter

Monitors AC Amps, Volts, Hzs on large, bright display. Supports programmable current transformer ratios. Accurately measure and monitor AC amperage, voltage and Hz. (measures 2 voltages and 2 circuits)

BSS 1838

DC Meters

M2 DC SoC Monitor

Accurately measure and monitor the state-of-charge of your batteries. Supports programmable shunt ratios.

- Accurately measures and monitors State-of-Charge of 1 bank
- Measures 3 voltages and 1 current
- Supports programmable shunt ratios
- External relay activation

BSS 1830

M2 DC Ammeter

Monitors DC Amperage with large, bright display. Accurately measure and monitor the amperage of your DC system. (measures 2 circuits) Supports programmable shunt ratios.

BSS 1832

M2 DC Voltmeter

Monitors DC Voltage on large, bright display. Accurately measures and monitors the voltage of up to four battery banks.

BSS 1833

Blue Sea Systems Meter Mounting Panel



Slate grey aluminum panels for mounting all analog or digital meters. Exact colour and size match to Blue Sea electrical panels.

- Dimensions: 3.75' x 5.25" W

BSS 8013 Single

► *Also See* Mounting Panels pg 02-034

Newmar ACE Energy Monitor



- For 115/230 VAC systems
- Reads 90-300 VAC, 0-150 amps, 40-70 Hz, and 0-150 kW
- High//low voltage and frequency alarms
- Current and voltage transformers included

NEW ACE *

* Special Order - may have stock

Newmar Digital Monitors

These instruments provide accurate information on all important aspects of electrical system status - voltage, current, power consumed, power available, and AC frequency accuracy is +/- 1%. Programmable visual and audio alarms alert of abnormal system conditions: Low/High Voltage and Low/High Frequency.
All read-out modes and alarm programming of multiple functions are controlled via touch-pads on the instrument face. LCD displays are easily read in bright sunlight and feature five level adjustable back-lighting for conservation of night vision.
The meter/touch-pad and surrounding bezel are fully waterproof are suitable for installation in exposed above deck areas (provided there is no water ingress to the rear of the mounting surface).

- NMEA 0183 compatible
- All models are designed for through-bulkhead mounting
- 2-1/4" diameter cutout

DC Energy Monitor



- Displays volts, amps, energy used and remaining for 12/24V systems up to 500 amps and up to 3,000 amp-hour capacity
- Monitor voltage on up to three separate banks
- House bank may be programmed for:
  1. Monitor charge/discharge amperage
  2. Total energy monitor can be set for amp-hours or percent-of-charge
  3. High/low voltage alarm, plus alarm set-point for low amp-hours remaining
- 500 amp shunt included

NEW DCE

DC Voltmeter



- For three battery banks, 12/24 volt systems
- Reads to the nearest 1/10 volt
- Programmable high/low voltage alarm circuit for each bank

NEW DCV

Blue Sea Systems Shunt Shifter



- Shunt adapter for DC digital ammeter positive side shunt applications, such as alternator measurement
- Designed for use with BSS 8255
- Advanced technology shifts the shunt's positive reference to negative as required by digital meters
- Installs directly onto shunt using existing sense screws
- Ideal for use with 12-36 volt DC systems

BSS 8242

Blue Sea Systems DC Shunts



- Power all Blue Sea Systems external shunt ammeters
- W: 1.75" x L: 3.25" x H: 1.75"

BSS 8255 500 amp
BSS 9230 100 amp

Blue Sea Systems AC Current Transformer



- 300A AC/50mA AC
- Inside Diameter: 1.25in (31.75 mm)
- Outside Diameter: 2.68in (68.07 mm)

BSS 1829

Blue Sea Systems AC Current Transformer Coil



- For use with AC Ammeters
- 150A AC/50mA AC
- Inside Diameter: 0.60" (15.24 mm)
- Outside Diameter: 1.38" (35.05 mm)

BSS 8256

Blue Sea Systems LED Mini OLED Ammeter



- Daylight readable OLED screen
- Monitors DC amperage from -100A to 100A
- Includes #9230 analog meter shunt
- 12/24VDC
- Mounts in a common 1-1/8" hole

BSS 1732

Blue Sea Systems LED Mini OLED Temperature Meter



- Monitors external temperature from -40° to 125° C
- 12/24VDC
- Mounts in a common 1-1/8" hole

BSS 1741

Sea-Dog LED Temperature Meter



- Monitors external temperature from -67° to 248° F
- 12/24VDC
- Mounts in a common 1-1/8" hole

SED 421618-1

Blue Sea Systems LED Mini OLED DC Volt Meter



- Input voltage range 8-36V DC
- Voltage accuracy ± 1.0%
- Daylight readable OLED screen
- IP66 waterproof
- Reverse polarity protected
- Mounts in a common 1-1/8" hole

BSS 1733

Sea-Dog LED Digital Volt Meter



- Volts: 4-30
- Injection molded nylon
- Compact size allows for installation in a variety of locations
- For interior or fully protected locations only
- Face diameter: 1-7/16" x Depth: 3/4" x Cutout: 1-1/8"

SED 421615-1

Sea-Dog LED Digital Volt/Amp Meter



- Volts: 4-30
- Amps: 10
- Injection molded nylon
- Compact size allows for installation in a variety of locations
- For interior or fully protected locations only
- DC shunt not required
- Face diameter: 1-7/16" x Depth: 1-3/8" x Cutout: 1-1/8"

SED 421625-1

Sea-Dog LED Digital Volt Meter



- Injection molded nylon
- Digital dual voltmeter displays voltage for main and auxiliary batteries simultaneously
- The same compact size as a standard 1-1/8" socket allows this voltmeter to be installed in a wide variety of locations
- Red LED display
- Cutout: 1-1/8" x Depth: 1-3/8"
- Input 10V-48V
- IP65 rating

SED 421616-1

Sea-Dog LED Digital Volt Meter



- Injection molded nylon
- The rainbow LED display voltmeter gives the user quick visual colour-coded voltage information
- Red/yellow means the voltage is too low, Green means voltage is normal
- Fits a standard 1-1/8" socket
- For use with 12V systems
- IP65 rating

SED 421617-1

Sea-Dog LED Digital Volt Meter



- Injection molded nylon
- Rocker switch style dual voltmeter monitors and displays the voltage for main and auxiliary batteries simultaneously
- Fits into any 13/16" x 1-7/16" rocker switch hole
- Digital red LED display
- Input 10-48VDC
- IP65 rating

SED 421636-1

Sea-Dog LED Digital Volt/Amp Meter / Double USB



- Stamped stainless steel/injection molded nylon
- LED screen displays charging status in amps, battery voltage, and low voltage audio alarm
- USB power socket output is 4.8A, 2.4A per side
- Fits any standard 12VDC receptacle

SED 426513-1

Sea-Dog LED Digital Volt Meter / Double USB



- Injection molded nylon
- Double USB rocker switch style voltmeter fits into any standard 13/16" x 1-7/16" hole
- Allows two devices to be charged simultaneously while also displaying the batteries output
- Total output 4.2A load is split 2.1A per side
- Input 12-24VDC
- Red LED display
- IP65 rating

SED 426527-1

Sea-Dog LED Digital Volt Meter / Double USB



- Two devices to be charged simultaneously while also displaying the batteries output
- Total output 4.2A load is split 2.1A per side as needed
- 12-24VDC
- Output DC 5V/4.2A
- Red LED display
- IP65 rating
- Dia: 1-7/16" x D: 1-1/2" x Cutout: 1-1/16"

SED 426517-1

Sea-Dog LED Digital Volt Meter / Double USB



- Dual USB 3.0 and USB-C
- Total output 6A load is split 3A per side
- USB 3.0 features Quick Charging (QC) for supported devices
- USB-C features Power Delivery (PD) for faster and more flexible charging
- Portable plug fits all Sea-Dog Power Sockets and any standard 12V receptacle
- Auminum and injection molded nylon
- Blue LED display
- Input: 12-24 VDC
- L: 2-1/2", Face Dia: 1-1/4", Base Dia: 13/16"

SED 426514-1

Sea-Dog LED Digital Volt Meter / Double USB



- Dual USB 3.0 and USB-C
- Total output 6A load is split 3A per side
- USB 3.0 features Quick Charging (QC) for supported devices
- USB-C features Power Delivery (PD) for faster and more flexible charging
- Protective dust cap extends the life of the charger
- LED volt meter reads voltage up to 14.6 V
- On/Off button to conserve battery power when not needed
- Injection molded nylon
- Blue LED display
- IP65 rating
- Mounting hole: 1-1/8"
- Input: 8-32 VDC
- L: 1-1/2", Dia: 1-7/16"

SED 426518-1

▶ *Also See* Sea-Dog Adapter Plates pg 03-010

▶ *Also See* Sea-Dog USB Chargers pg 02-121 to 122

ARCO Marine Zeus High Output Alternators



- Dual cooling fans, OEM components, rectifier on housing exterior, and heat shedding coatings provide the coolest operating temperatures - about 8 - 20% cooler than incumbent alternators
- Suitable for marine, RV, and commercial applications
- High-density, ultra efficient stator winding
- Rapidly charges large battery banks, and optimized for performance at idle speeds
- For maximum performance, or lithium battery charging, add a Zeus Alternator Regulator (sold separately)
- Externally regulated
- SAE J1171 certified

12V

- 49 mm K6 (6 groove) pulley
- Isolated ground

ARC 4011	225A, 3.15" Saddle mount
ARC 4015	225A, 1"-2" Single foot
ARC 4021	275A, 3.15" Rear Saddle mount
ARC 4028	275A, 1"-2" Single foot

24V

- 50 mm K6 (6 groove) pulley
- Mercedes upfitter compliant
- Case ground

ARC 4404	144A, N62 Clutch pulley
ARC 4504	284A, N62 Clutch pulley
Accessories:	
ARC BLT1101	Bracket, Poly V-Belt, Mercedes Benz N62 2.0L
ARC MK-CLT5381	Crankshaft locking tool, Mercedes Benz Sprinter 2.0L RWD 2023+
ARC MK0052	Mounting & Bracket Kit, GMK - Mercedes Benz Sprinter 3.0L V6 OM642 N62/N63
ARC MK0282 **	Mounting & Bracket Kit - GMK BA - MB Sprinter 2.0L I4 (OM654) (-N62) 2T, 2023+
ARC MK1202	Mounting & Bracket Kit - MB Sprinter 2.0L (OM654) (-N62) Factory
ARC TAK210	Bracket bolt kit (mount N62 alternator to MB supplied N62 bracket)
ARC ST500	Shunt, 500A, 50 mV

** While Stock Lasts

ARCO Marine
Zeus Bluetooth Alternator Regulator

NEW



- Password protected Bluetooth connectivity and native app (iOS and Android) enables you to install, configure, and update with ease
- Optimizes battery charge, and is compatible with Lithium and lead-acid deep cycle batteries, thanks to preset battery libraries and configurable menus
- Able to read two shunts (battery and alternator) simultaneously
- Generator mode maximizes the engine's power while using significantly less fuel
- Data logs enable remote data sharing and configuration
- Compatible with VE.Can, RV-C, NMEA 2000, REC, and Lynk II systems
- Kits include high energy alternator regulator, one battery and one alternator harness, and two 15' temperature sensors
- 12-48V
- IP67/66
- 8.2" x 5.9" x 2.4" (not including antenna)

ARC AZ1000 6' harnesses
ARC AZ1000X 15' battery & 30' alternator harnesses

Balmar XT-Series Alternator Packages


XT-VT-170-IR

The XT-Series Alternator produces up to 110A at idle speed - ample power to service all electrical loads with power left over to top-off house batteries

- 170A in a small case package
- Ideal for high electrical load vessels
- Custom high speed bearings for long life
- Dual fan cooling, high airflow frame
- USCG title 33, ISO 8846 and SAE J1171 certified
- XT-Series mounting styles are drop-in compatible for WakeBoat and other GM gasoline engine applications

BAL XT-SF-170-IR * 1-2" Single Foot (11Si Typical)
BAL XT-VT-170-IR * Vortec (9Si Typical)
* Special Order - may have stock

Balmar 6-Series YP Alternator Package



Balmar's Smart Ready internally regulated 6-Series 12-volt alternator, when paired with the smart, multi-stage regulator, delivers faster and safer charging, along with the added assurance of a built-in back up regulator.

- Kit includes alternator, MC-614 max charge regulator, alternator temperature sensor, battery temperature sensor, and wiring harness. YP Packages fit most engines using a 3.15" saddle mount (dual foot)

BAL 60-YP-MC-120-DV * 120 amp, 12 volt, dual pulley
* Special Order - may have stock

Balmar 95-Series Medium Duty Alternator



- Extra heavy duty stator winding with large gauge wire for added output at low RPM
- Extra large sealed bearings, a .875" pulley shaft
- Bi-directional cooling fan
- 6,500 RPM maximum rotation speed
- Requires external regulation

BAL 9504-12-210-IG ** 210 amp, 12 volt
** While Stock Lasts

Balmar Bluetooth Gateway



- Optional bluetooth gateway for smartphone monitoring
- Connect to any open port on the SmartLink network
- 1 meter (39") tether

BAL SG2-0300 *
* Special Order - may have stock

Balmar 6-Series Light Duty Alternator



Built into the small case 6-Series alternator is a patented single stage Smart Ready internal regulator that's always ready as a primary regulator, or as a back up in the unlikely event that your external regulator fails.

- 12,000 max RPM
- Case dia: 5.75"

BAL 60-100-SV * Single vee, 3.15" saddle, 100 amp, 12 volt
* Special Order - may have stock

Balmar Battery Monitors



SG200

Learns & Displays Critical Battery Parameters

- State of Charge (SoC%)
- State of Health (SoH%)
- Charge/Discharge Current Flow
- Time Remaining
- History, Faults & Alerts

Support for All Common Battery Chemistries & Voltages

- Including Lead Acid, Lithium (LifePO4), Standard AGM, TPPL AGM, Carbon Foam AGM, and GEL Batteries
- Supports 12V-48V Battery Banks

Intelligent, Self-Calibrating Accuracy

- Typically 97 % Accurate within 2 Cycles
- Auto-Calibrating

Large, Bright Colour Display

- Sunlight Readable, Configurable & Dimmable
- 60 Degree Viewing Angle
- Fits in Standard 2-1/16" Gauge Socket

Expandable Architecture

- Support Multiple Displays (Optional)
- Supports Multiple Battery Banks (Optional)
- Standard Support for 2 Start Batteries (Voltage Only)
- Simple, easy-to-install Point-to-Point Network

Optional Smartphone/Bluetooth Gateway

- Free iOS and Android Apps (Requires Bluetooth Gateway PN SG2-0300)
- View All Parameters on your Phone
- Download Product Updates

BAL SG200 12-48V, includes colour display, SmartShunt, and SmartLink com cable
BAL SG205 12-48V, includes SmartShunt and Bluetooth Gateway only, no colour display
BAL SG210 12-48V, includes colour display, SmartShunt, Bluetooth Gateway, and SmartLink com cable

Accessories:
BAL SG2-0400 Communication cable, 10m
BAL SG2-0403 SG200 communication cable, 16'
BAL SG2-0404 3-way communication cable adaptor

Balmar 6-Series VUP Package

Fits most engines requiring 1" Motorola or 2" Delco style mounts, including Volvo, Universal, or GM blocks

BAL 621-VUP-MC-100-SV * 100 amp, 12 volt, single pully
* Special Order - may have stock

Balmar Smart Battery Monitor



- Accurate, dependable information about battery condition, without the need for shunts and complicated programming.
- Simply select the battery program that most closely matches your battery technology.
- Features voltage and stage of charge displays, as can be used to provide alarms for low battery voltage and capacity.
- As with all electrical components, take time to read and follow the instructions provided. Failure to do so could result in damage to the Smartgauge and/or your electrical system.
- Cutout: 3.75" x 2.55" x 1"
- House (Primary) Battery Voltage
- House (Primary) Battery State of Charge
- Engine (Secondary) Battery Voltage
- High/Low Battery Voltage alarms for each battery
- High/Low State of Charge alarm for auxiliary battery
- Bright LED daylight readable display
- Volt free alarm contact for firing external alarms, relays etc

BAL 44-SG-12/24 *
* Special Order - may have stock

Balmar Regular Conversion Kit



Now Yanmar owners can add Balmar Smart Regulation without disposing of the Valeo 120A/12V alternator. A simple retrofit of the Valeo alternator converts the Valeo to accept Balmar's multi-stage external regulators.

- Reduce the cost of adding Balmar multi-stage regulation by half
- Balmar's patented Smart Ready Design
- The Internal regulator provides "Come-Home" capability if the external regulator fails (12V versions only)
- Temperature Sensing provides protection for your battery and alternator to prevent damage from overheating
- Kits come with all required conversion parts
- Conversion can be Ccompleted in 30 minutes

BAL ARS-5-VL-01 *
* Special Order - may have stock

Balmar Multi-Stage Regulators



- Bright, easy-to-read 3-digit LED display
- Selectable presets for gel, AGM, Optima, deep-cycle and standard flooded
- Up to 12 defined stages of charging
- Can control dual alternators on a single engine with optional Centerfielder BAL CF-12/24-II
- Advanced programming control
- Single P-type alternator control only

BAL MC-624-H

- Communicates with the SG200 Battery Monitor to provide information to the SG200 Color Display and Smartphone App

BAL MC-618-H

Balmar Multi-Stage Regulator



- Bright, easy-to-read 3-digit LED display
- Selectable presets for gel, AGM, Optima, deep-cycle and standard flooded
- Up to 12 defined stages of charging
- Can control dual alternators on a single engine
- Option for temperature sensing at two alternators and a single battery, or dual batteries and a single alternator

BAL MC-612-DUAL-H *
* Special Order

Balmar ARS Multi-Stage Regulator



- Bright, easy-to-read 3-digit LED display
- Selectable presets for gel, AGM, Optima, deep-cycle and standard flooded
- Belt Load Manager eliminates belt wear worries
- Single P-type alternator control only

BAL ARS-5-H *
* Special Order - may have stock

Balmar Digital Duo Charge



- Delivers current and voltage controlled charging from the house battery to the starting battery, eliminating the need for an isolator or battery switches
- Preset programs for gel, AGM, standard and deep cycle flooded batteries allow mixing of house and start battery technologies

BAL DDC-12/24 *
* Special Order - may have stock

Balmar Alternator Protection Module



- Excels in both short and longer duration spikes
- Protects alternators from the damaging effects of disconnects and power surges
- Green/Red LED protection indicators for protecting and failure

BAL APM-12 12 volt

Balmar Adjustment Arm



10" powder coated 1/4" stock aluminum

BAL UAA *
* Special Order - may have stock

Balmar Temperature Sensors



BAL MC-TS-A 54", alternator
BAL MC-TS-B 20', battery

Mastervolt
BattMan Pro Digital Monitor



An affordable battery monitor that does exactly that: providing critical information about the status of your battery bank under all circumstances. Moreover it will warn you when your battery bank is empty. Also displays the remaining time until your battery needs to be charged and stores special battery status events.

- 12/24VDC with large, splash proof display (IP65) and power bar
- Number of battery outlets: 2; service (fully), starter (voltage)
- Display/read-out: voltage, current, amp-hours, time remaining, battery capacity in %, special battery status events
- Bezel: 2.5" x cutout: 2" x depth: 2.8"

MSV 70405070

Xantrex
LinkLITE & LinkPRO Battery Monitors



Common Features

- Read your battery bank like a fuel gauge
- Provides critical information about the status of your battery bank
- Displays voltage, current, consumed amphours and remaining battery capacity
- Secondary battery bank voltage monitoring
- Auto sensing battery voltage inputs
- Large backlit LCD Display
- Quick nut mounting construction
- Programmable alarm relay
- Shunt selection capability enables flexible system integration
- Splash proof frontpanel
- 500 Amp shunt included
- CE and e-mark certified
- Cutout: 2.54" x Depth: 3.11"

XAN 84-2030-00 LinkLITE

Accessories:

XAN 854-2021-01 Connection kit, 50'



LinkPRO Additional Features

- Displays time remaining
- Communication/expansion port
- Stores a wide range of history events in internal memory
- Advanced programmable alarm relay
- Battery temperature sensor input

XAN 84-2031-00 LinkPRO

Accessories:

XAN 854-2021-01 Connection kit, 50'

Victron Energy
Smart Battery Sense



- Wireless battery voltage and temperature sensor using the VE.Smart Network
- Simple to install and configure, the SBS comes with an inline fuse and pre-crimped eyelets
- Self-adhesive tape on the back allows for mounting directly on the battery
- Supports Bluetooth enabled VE.Direct MPPTs and Smart IP43 charger

VIC SBS050150200

Victron Energy
Battery Monitors



- Displays battery voltage, current, power, ampere hours consumed, state of charge, and remaining time at current state of discharge
- Stores a wide range of historical events, which can be used to evaluate usage patterns and battery health
- Easy installation, all connections are to the quick connect PCB on the current shunt, and a 10m RJ12 cable and 2m battery cable with fuse are included; no other components needed
- Programmable visual and audible alarm
- Programmable relay, to turn off non-critical loads, or to run a generator when needed
- 500A quick connect shunt and connection kit (shunt selection capability up to 10,000 Amps)
- VE.Direct communication port
- Standard 2" gauge cut-out and includes a separate front bezel for a square display appearance

BMV-702

- Low current consumption: 2.9Ah per month @12V
- Wide input voltage range: 6.5 - 95V
- With the Bluetooth Smart dongle (sold separately), you can monitor your batteries on Apple or Android smartphones, tablets, macbooks, and other devices

VIC BAM010702200R

BMV-712



- Built-in Bluetooth, use a smartphone or other Bluetooth enabled device to customize settings, monitor all important data on one screen, view historical data, and update software via the Victron Bluetooth app
- Midpoint voltage monitoring
- Bi-stable alarm relay prevents increased current draw in case of alarm
- Very low current consumption: 0.7Ah per month @ 12V
- Wide input voltage range: 6.5 – 70V
- Additional input to measure voltage (of a second battery), temperature or midpoint voltage, and corresponding alarm and relay settings

VIC BAM030712000R Grey
VIC BAM030712200R Black

Victron Energy
SmartShunt IP65



- All-in-one battery monitor that uses your phone as the display
- Can also be connected and read by a GX device via VE.Direct cable
- Good alternative to a BMV battery monitor, where less wiring and clutter is desired
- Equipped with Bluetooth, a VE.Direct port, and an aux connection that can be used to monitor a second battery, for midpoint monitoring, or to connect a temperature sensor
- Low current draw of <1 mA
- Input voltage range: 6.5 - 70V
- M10 shunt connection bolts
- H: 1.81" x W": 4.72" x D: 2.13"

VIC SHU065150050 500A/50MV, IP65
VIC SHU065210050 1000A/50MV, IP65
VIC SHU050150050 500A/50MV, IP21

Blue Sea Systems P12 Series Battery Chargers



- Four stage, three output, dry mount design
- Rugged, finned aluminum case
- PreFloat stage prevents over charging
- Power factor corrected for efficient use of AC
- Intuitive diagnostic screens
- User defined charge profiles and customizable settings
- Charging for up to three battery banks
- Large, bright display
- Multi-language: English, French, German, Italian, Spanish
- Charge Coordination with Automatic Charging Relays (ACR) controls ACR state ensuring proper float stage for each battery
- Battery Temperature Compensation - adjusts charge voltage based on battery temperature
- AC over and under voltage shut down and automatic restart
- Over and under battery temperature protection
- DC over voltage and reverse polarity protection
- Surge and short circuit protection
- 5 year warranty

BSS 7531
BSS 7532

	7531	7532
Input AC Current:	4.5A @ 100V AC 2.25A @ 200V AC	7.5A @ 100V AC 3.75A @ 200V AC
Total Output Current	25A	40A
Recommended Battery Bank Sizes	60Ah Minimum 330Ah Maximum	60Ah Minimum 440Ah Maximum
Nominal Voltage	12V DC	
Ignition Protected	Yes	
Number of Outputs	1 negative, 3 positive	
Universal AC Input Voltage	90-265V AC	
AC Input Frequency	45-65Hz	
Typical Float Voltage	13.5V DC	
Battery Types	AGM, Flooded Lead Acid,Gel, TPPL	
Size	H: 13.03 x W: 8.46" x D: 3.66"	
Weight	13 lb	

Blue Sea Systems LED Battery Charger LED Remote



LED Indicators

- Charging LED - Quick check for green light confirms charging
- Charge Stage - Displays charging stage
- Equalize LED - Indicates the charger is currently in equalization mode
- Charge Output - Displays the percentage of output current for each battery. Will also indicate maximum output setting when maximum output is adjusted to accommodate for AC source limitations.
- Alert - Icon LEDs provide warning and alert status for quick diagnostics

Four Control Buttons

- Fan- User adjustable settings
- Dim/ Alarm - Provides adjustment to brightness of LEDs on display as well as Silence function for alarms.
- Output - User adjustable charger output when AC source limitations exist that require lowering the AC current draw.
- Power - Places P12 Battery Charger into standby mode
- H: 3.01" x W: 4.15" x D: .95"

BSS 7520

Blue Sea Systems BatteryLink Chargers



AC charging at the dock:

- Use AC shore power to charge two isolated battery banks with the 3 Stage battery charging
- Universal AC input: 90-265V AC, 50-60 Hz

DC charging away from the dock:

- Share the DC power from the alternator with both the Start and the Auxiliary battery through the integrated 65A ACR
- Battery temperature compensation prolongs battery life
- Start isolation protects sensitive electronics
- Snap-on insulating cover
- One-piece stainless flange nuts ensure safe and secure connections
- Includes LED remote indicator for charge status at the helm
- IP 67 waterproof
- 5 year warranty

BSS 7605 NA model, NEMA 5-15P plug
BSS 7606 International model, bare wire plug
BSS 7608 NA Model, NEMA 5-15P plug

	7605	7606	7608
Total Output Current	10A	20A	20A
Recommended Battery Bank Sizes	120Ah Maximum 60Ah Minimum	170Ah Maximum 60Ah Minimum	170Ah Maximum 60Ah Minimum
Continuous Rating	65A	170A	170A
Voltage	12		
Number of Outputs	1 Negative / 2 Positive		
Battery Types	AGM, Flooded, TPPL		
Maximum Battery CCA	850		
Size	H: 4.36" x W: 6.66" x D: 2.13"		

Guest Battery Chargers



2720A



2740A

- All high frequency, digital charging technology
- Fully automatic 5-stage performance charging
- Dedicated battery charging, sensing and control per bank
- Expanded LED charge status monitor
- Wiring and battery fault detection
- Auto-maintain energy saver mode
- 100 percent waterproof (IP67) and shock resistant for all fresh and saltwater applications
- For all 12 volt flooded and AGM lead acid batteries
- Built-in safety: reverse polarity, over-current, over-voltage, over-temperature and ignition protection. In-line fuses for maximum DC wire protection
- 2 year warranty

Part #	Volts	Amps	Banks	L x W x H	Weight lb
GUE 2707A	12/24	4/4	2	7.5" x 2.4" x 9.0"	4.5
GUE 2708A	12	5	1	7.5" x 2.4" x 7.2"	3.2
GUE 2710A	12	10	1	7.5" x 2.4" x 9.0"	4.2
GUE 2711A	12/24	5/5	2	7.5" x 2.4" x 9.0"	4.7
GUE 2713A	12/24/36	5/5/5	3	7.5" x 2.4" x 12.9"	6.7
GUE 2720A	12/24	10/10	2	7.5" x 2.4" x 12.9"	6.6
GUE 2731A	12/24/36	10/10/10	3	9.0" x 4.1" x 8.7"	8.0
GUE 2740A	12/24/36/48	10/10/10/10	4	9.0" x 4.1" x 8.7"	8.5

Guest Portable Battery Charger



- Portable battery charger 6A/12V, 1 bank, 120v input
- One output, six amps per out
- 12V battery system
- Input voltage: 100-130VAC/60hz
- Input connection: 6 ft AC cord with standard plug
- Output voltage: 12VDC per output
- Output connection: 4 ft DC cables with battery clips

GUE 2606A-B 6 amp

Mastervolt ChargeMaster Plus Battery Chargers

ChargeMaster Plus is the next generation battery chargers that integrates multiple functions into one single device. Replacing auxiliary chargers, battery isolators and VSR, ChargeMaster Plus reduces system complexity and cost. Designed for versatility, it charges virtually any combination of three batteries at high speed and works anywhere in the world.



Features:

- Revival mode automatically revives even fully depleted batteries
- Priority charge redirects available power to the lowest battery, for faster charging
- Multicharger with two outputs, one in/output, DC-DC converter, current limiter and VSR
- Charges Lithium Ion, Gel, and AGM batteries, the 24V models also charge and large or small 12/24V battery banks on a single charger
- Combine Lithium Ion, Gel, or AGM, and large or small battery
- Charges multiple batteries while being underway
- Extended specificitions: offers 20% more output at 14.4V and 80% charging power at 60°C
- Safe Charge: quickly recognize the State of Charge for extended battery life
- Very wide operating range of 80-275V AC, 35-70 Hz
- Compact, easy to connect and quick to install

Part #	Total Charge Current	Output Voltage	Battery Capacity	Dimensions H x W x D	Weight lb
MSV 44310355	35A @14.4 V	12V	70-300 Ah	11.5" x 8.3" x 4.1"	5.5
MSV 44310505	50 A @ 14.4V	12V	140-400 Ah	11.5" x 8.3" x 4.1"	5.5
MSV 44310755	75 A @ 14.4 V	12V	320-800 Ah	15.1" x 9.8" x 5"	13
MSV 44311005	100 A @ 14.4 V	12V	400-1000 Ah	15.1" x 9.8" x 5"	13
MSV 44320405	40 A @ 28.8 V	24V	160-400 Ah	15.1" x 9.8" x 5"	13
MSV 44320605	60 A @ 28.8 V	24V	200-500 Ah	15.1" x 9.8" x 5"	13
MSV 44321105	110 A @ 28.8 V	24V	400-1000 Ah	15.1" x 9.8" x 5"	13.9

ChargeMaster Plus is CE, E-mark, ABYC, UL, SAE, CEC and RCM/C-Tick compliant

In modern applications, all components work together. CAN-based MasterBus enables the charger to communicate with displays, shunts and power systems including communication standards like CZone, NMEA and CANopen.

► Also See Charger Accessories pg 03-125 to 126

Mastervolt ChargeMaster Battery Charger



- High frequency switch mode technology makes them extremely efficient, compact and lightweight
- Designed for worldwide marine applications, they offer auto-ranging universal input (90-265Vac, 50/60Hz)
- Use with lead acid, gel, AGM or spiral batteries and will charge up to 3 battery banks simultaneously
- Providing full charging current even with low quality power
- Includes an auxiliary power supply to provide DC voltage even if the batteries are not connected, they can revive a "dead battery" and their built-in memory functions prevent overcharging
- Variable speed fans to adjust to ambient temperatures
- Over-temperature and ignition protected, over current, surge and short circuit protected
- Includes battery temperature sensor with 20' cable
- Two year warranty

Part #	Total Charge Current	Output Voltage	Battery Capacity	Dimensions H x W x D	Weight lb
MSV 44010250	25A @13.25V	12V	50-250 Ah	9.2" x 5.2" x 2.4"	4

► *Also See* Charger Accessories pg 03-125 to 126

CE Certified, meet ABYC and UL 1236, ignition protected, EMC FCC Class B

Compatible with Mastervolt's Masterbus CANbus network system where information can be displayed, monitored and controlled from desired locations onboard and remotely from anywhere via SMS technology

Newmar Battery Chargers



- "Smart" circuitry provides three stage charging - bulk, absorption, float
- Gel-Cell/Flooded Lead-acid/AGM battery type switch selects optimum charge/float voltages
- Multiple isolated output banks; ammeter indicates total output current. (Except PT-7)
- Optional sensor adjusts output voltage based on battery temperature. (Except PT-7)
- Current limiting-prevents damage from overloading
- Clean well regulated output can be used as a power supply; can power loads directly without a battery in line
- Built to last - rugged stainless steel case with a durable white powder coat finish with an optional drip shield and marinized internal circuitry
- Protection: Current Limiting, Thermal Protection, Forced Air Cooling, Drip Shield
- ABS type approval for battery charging and power supplies
- Two year parts and labor warranty

Ref	Height x Width x Depth (mm)
A-1	10.5"(26.7) x 5.0"(12.7) x 2.8"(7.1)
A-2	12.5"(31.8) x 7.7"(19.6) x 4.3"(10.9)
A-3	14.1"(39.4) x 9.5"(24.1) x 4.0"(12.7)
A-4	15.5"(39.4 x 9.7"(24.6) x 5.0"(12.7)
A-5	16.7"(42.4) x 9.8"(24.9) x 6.7"(17.0)

Part #	Volts	Input VAC	Input Amps @115V	Max. Output Amps @115V	Output Banks	Battery Capacity (amp hours)	Case Size	Weight lb
NEW PT-7	12	88-132 or 76-264	2	7	2	14-70	A-1	3.2
NEW PT-14W	12	85-264	2.8	14	3	28-140	A-2	8
NEW PT-25W	12	90-132 / 80-254	6.5	25	3	50-250	A-2	8.2
NEW PT-40U	12	85-132 / 90-264	8.5	40	3	80-400	A-3	12
NEW PT-80	12	90-264	12	80	3	160-800	A-4	15.2
NEW PT-24-8W	24	85-264	2.8	8	3	16-80	A-1	8
NEW PT-24-13W	24	90-132 / 180-264	6.5	13	3	26-130	A-1	8.2
NEW PT-24-20U	24	85-135 / 170-270	8.5	20	3	40-200	A-2	12
NEW PT-24-45U	24	90-264	12	45	3	90-450	A-4	12.2
NEW PT-24-95U *	24	90-264	26	95	3	180-950	A-5	24.5

* Special Order

Newmar Remote Indicator Panel



- LED's indicate charger output stage
- Button allows manual re-initialization of three stage charge cycle
- Supplied with 25' cable and plug-in connector. (All models except PT-7)

NEW RP 3" H x 4.75" W

Newmar Temperature Sensor



- 5 mV per cell per °C. Sensor supplied with 25' cable and plug-in connector.

NEW TCS-12/24-25

ProMariner DC Cable Extenders



- Colour coded for a quick installation
- Rated to 30 amps
- Dual integrated in-line fuses
- 3/8" ring connectors

PRO 51805 5'
PRO 51815 15'

ProMariner
ProNauticP Series Battery Chargers



ProMar Digital Charging Performance – 12 Selectable Profiles

- Up to 12 performance & precision 4-stage charging profiles: Charge, Condition, Maintain and Re-condition
- Automatic dockside power mode for 12 Volt DC lighting and appliances
- Factory set for Flooded (Lead Acid) batteries. AGM, GEL and others are selectable

Power Factor Correction – Global AC Input

- Auto-ranging (100-260VAC/50-60Hz) global AC input with reduced harmonic distortion allowing all models to operate off a household power outlet connection
- ProNauticP consumes less power so more AC power is available on board

Distributed On Demand Technology

- Automatically senses and distributes 100% of available charging amps to any one bank or combination of all banks

Digital Self-Calculating Absorption and Battery Health Re-Conditioning Mode

- Automatically programs conditioning time based on discharge state of batteries
- Automatically recharges batteries after 21 days of inactivity in the maintain mode, improving reserve power performance and extending battery life by reducing battery sulfation

Conservation Energy Saver Mode

- After fully charging and conditioning batteries, ProNauticP's Energy Saver Mode will monitor and Auto Maintain batteries only when needed, maintaining a full state of charge
- This significantly reduces AC power consumption while lowering operating costs and maximizing reserve power performance

Service and Fault Mode LED Indicators

- Real time indication of wiring faults or adverse conditions that may impact the operation of a boat's charging system

Automatic Fan Speed Control

- Quiet operation. Innovative front exhaust prevents restriction of air flow and cooling

Automatic Temperature Compensation and Built-in Safety

- Remote temp. probe included - Ignition protected and current limiting
- Constructed to: Marine ULc 1236, CE, CTick and FCC Class B.

Part #	Volts	Amps	Banks	Amps@ 100/240 VAC	Size H x 8.5" x 3.5"	Lb
PRO 63110	12	10	2	< 3.0 / < 1.5	10.25"	5
PRO 63115	12	15	3	< 4.0 / < 2.0	10.25"	5
PRO 63120	12	20	3	< 5.0 / < 2.5	10.25"	5
PRO 63130	12	30	3	< 6.0 / < 3.0	10.25"	5
PRO 63140	12	40	3	< 7.0 / < 3.5	10.25"	5
PRO 63150	12	50	3	< 10.0 / < 5.0	12.25"	7
PRO 63160	12	60	3	< 11.0 / < 5.5	12.25"	7
PRO 63170	24	20	3	< 7.0 / < 3.5	10.25"	5
PRO 63180 *	24	30	3	< 11.0 / < 5.5	12.25"	7

* Special Order

Optional Remote Display



When installed, it will display the current status of the charger along with the voltage and amperage.

- L: 4-1/4" x W: 2-3/4" x D: 7/16"

PRO 63100

ProMariner
ProSport GEN4 HD Series Battery Chargers

- Distributed-on-demand technology
- Heavy duty, lightweight, tri-surface extruded heat sink design
- Expanded LED display with completion status gauge
- 3 selectable charge profiles
- Auto-maintain energy saver mode
- Fully automatic 5-stage digital performance charging
- Built-in quality and safety
- Easy installation and operation
- IP67
- AC in: 120VAC ±10% 50/60Hz
- Three year warranty



Part #	Volts	Amps	Banks	L x W x H	Weight
PRO 44006	12	6	1	7.9" x 7.7" x 2.9"	3.8 lb
PRO 44008	12/24	8	2	7.9" x 8.9" x 2.9"	5.2 lb
PRO 44012	12/24	12	2	7.9" x 10.5" x 2.9"	6.0 lb
PRO 44020	12/24	20	2	7.9" x 12.8" x 2.9"	7.2 lb
PRO 44021	12/24/36	20	3	7.9" x 12.8" x 2.9"	7.8 lb

ProSport GEN6 HD Series-Global Battery Chargers



All the same features as above but with:

- Universal IEC c14 power cord
- AC in: 100-240VAC 50/60Hz

Part #	Volts	Amps	Banks	L x W x H	Weight
PRO 44023	12	6	1	7.9" x 7.7" x 2.9"	3.8 lb
PRO 44028	12/24	20	2	7.9" x 13.6" x 2.9"	5.2 lb

ProMariner Battery Chargers



- Fully automatic 4-stage charging
- Dual mode charge status indicator
- Battery & wiring fault detection
- Rugged shockproof construction
- Safe for long and short term storage
- Auto maintain/energy saver mode
- Pre-wired with waterproof inline DC fuses and nickel plated copper ring terminals
- Quiet EMI design meets US FCC Emissions requirements
- 3 year warranty

Part #	Volts	Amps	Banks	L x W x H	Weight
PRO 31510	12/24	10	2	9.2" x 5.7" x 2.4"	7 lb
PRO 31515	12/24/36	15	3	10.5" x 6.5" x 3.0"	11 lb

ProMariner ProSport Maintainer



- Single bank, 1.5 amp output
- Weatherproof and water resistant to IP65
- Maintain 12 volt lead acid (sealed & vented) batteries up to 150 amp hours
- Expanded LED display for Power, Charging and Auto Maintain status
- Built-in safety with reverse polarity, short circuit, temperature and ignition protection
- Concealed mounting holes & die cut foam resting pad for portable use
- Quick connect DC clamp & ring terminal assemblies
- Size 5.0" x 5.75" x 1.97"
- 6' cable
- 2.3 lb

PRO 44001

ProMariner Charge Status Remote



- Tri-colour LED charge mode status remote can be placed up to 12' away from the charger
- Shows Ready, Conditioning and Charging

PRO 52060 **

** While Stock Lasts

Victron Energy Phoenix Battery Charger



- Adaptive 4-stage charge with variable absorption time
- BatterySafe mode prevents damage due to excessive gassing
- Storage mode reduces float voltage when battery has not discharged during 24 hours
- Temperature compensation automatically decreased charge voltage with increased battery temperature
- Battery voltage sense compensates for voltage loss due to cable resistance
- Universal 90-265VAC input, 90-400VDC input range
- Computer interface ready with use of the VEConfigure software and MK2-USB (sold separately) interface, enabling all parameters of the charger to be customized
- 13.8" x 7.9" x 4.3"; 8 lb

VIC PCH012030001	12V, 30A
VIC PCH012050001	12V, 50A
VIC PCH024025001	24V, 25A

Victron Energy Phoenix Smart IP43 Battery Charger



- Three full current outputs to charge 3 battery banks
- Automatic voltage compensation
- Adaptive 6-stage charge algorithm
- Variable absorption time
- BatterySafe mode prevents damage due to excessive gassing
- Fully programmable charge algorithm
- Storage mode reduces float voltage when battery has not discharged during 24 hours
- Li-ion (LiFePO4) compatible
- Built-in Bluetooth
- VE.Direct compatible
- Pair two or more Smart IP43 Chargers in a VE.Smart Network to enable synchronised charging
- 7.1" x 9.8' x 4.6"; 6 lb
- 5 year warranty

VIC PSC123053095	12V, 30A
VIC PSC125053095	12V, 50A
VIC PSC242553095	24V, 25A

Accessories:

VIC ADA010100400	AC power cord, 2m

Victron Energy Charger Control Panel

NEW



- Provides remote control and monitoring of the charge process
- LED indication of charger status, with auto dim at night
- Allows adjustment to limit output current, useful when operating the charger from limited shore power or small gensets
- Can also be used to change the battery charging parameters
- 2.6" x 4.7"

VIC REC010001110

Victron Energy Blue Smart IP22 Battery Charger



- 94% efficiency or better
- Adaptive 6-stage charge algorithm
- Fully programmable charge algorithm
- Storage mode reduces float voltage when battery has not discharged during 24 hours
- Li-ion compatible
- Fully discharged battery recovery function
- Built-in Bluetooth
- VE.Smart networking capable
- NIGHT and LOW settings
- Forty cycle history log
- 3 outputs
- IP22
- Protected against overheating
- 11 LED status indicators
- 9.7" x 4.3" x 2.6"; 3 lb
- 5 year warranty

VIC BPC121546102	12V, 15A
VIC BPC122046102	12V, 20A
VIC BPC123048102	12V, 30A
VIC BPC241648102	24V, 16A

Victron Energy Blue Smart IP67 Battery Chargers



- 92% efficiency or better
- Li-ion compatible
- Built-in Bluetooth
- Adaptive 5-stage charge algorithm
- Fully discharged battery recovery function
- Storage mode reduces float voltage when battery has not discharged during 24 hours
- Completely encapsulated; IP67 waterproof, shockproof, and ignition protected
- Protected against overheating
- 2 LED status indicators
- 5 year warranty

Part #	Volts	Amps	L x W x H	Weight
VIC BPC120715106	12	7	3.4" X 8.3" X 2.4"	4 lb
VIC BPC121315106	12	13	3.4" X 8.3" X 2.4"	4 lb
VIC BPC121715106	12	17	3.9" X 8.6" X 2.6"	5.3 lb
VIC BPC122547106	12	25	3.9" X 8.6" X 2.6"	5.3 lb
VIC BPC240515106	24	5	3.4" X 8.3" X 2.4"	4 lb
VIC BPC240815106	24	8	3.9" X 8.6" X 2.6"	5.3 lb
VIC BPC241247106	24	12	3.9" X 8.6" X 2.6"	5.3 lb

Victron Energy Blue Smart Charger IP65

NEW



- Up to 95% efficiency
- Water, dust, and chemical resistant; IP65
- Seven step smart charge algorithm
- Recovery of fully discharged "dead" batteries
- Automatic power supply function
- Severe cold performance down to -30°C
- Low power mode to charge smaller batteries
- Li-Ion battery mode
- Includes clamps and M8 eyelets
- UL 1236

VIC BPC121531104R	12V, 15A
VIC BPC122531124	12V, 25A
VIC BPC241331124	24V, 13A

Victron Energy Skylla-IP65 Battery Charger



A powerful, waterproof and intelligent battery charger with a 7-stage adaptive charge algorithm, suitable for a wide range of battery types and chemistries featuring a dedicated Lithium-ion charge algorithm.

- Features 2 isolated outputs; the second output is intended to top up a starter battery
- LCD display for status monitoring and adapting charge algorithms
- Synchronized parallel operation
- Variable absorption time
- BatterySafe and Storage modes
- Comes with a battery temperature sensor, and a voltage sense facility
- Control circuit allows the Skylla-IP65 to be used as a power supply with stabilized output voltage if batteries or large buffer capacitors are not available
- Li-Ion (LiFePO4) ready
- CAN-bus interface allows connection to CAN-bus network, a Skylla-i control panel, or to the Color Control digital display
- Input voltage: 120/230V
- Charge voltage: 12V
- Charge current: 70A
- IP65
- 15.8" x 11.8" x 6.5"; 14 lb
- 5 year warranty

VIC SKY012070000

Victron Energy Skylla-i Remote Panel



Remote panel works with all Skylla-I chargers, using the VE.Can bus, allowing you to alter the charge current and see the system status.

- 2.6" x 4.7" x 1.6"

VIC REC000300010R

Accessories:



VIC ASS050300010 Wall mounted enclosure

Victron Energy DC-DC Charger Cable

This cable is intended for applications where the remote on/off signal is referenced to the secondary battery.

- Max input voltage: 35V, Max output voltage: 70V
- Minimum input voltage needed for pull down: approx. 4V
- Maximum pull down current: approx. 30 mA

VIC ASS070300100

Victron Energy Orion XS DC-DC Charger

NEW



The Orion XS, engineered from the ground up, redefines DC-DC battery-to-battery charging. Ideal for dual battery systems charged by an intelligent alternator.

- Serves as a DC-DC battery charger or as a power supply
- Adaptive 4-stage charge algorithm
- Smart alternator compatibility
- Adjustable charging current via VictronConnect
- Unlimited number of units can be connected in parallel
- Bluetooth Smart enabled; via VictronConnect app, or VE.Smart Networking
- Low or excessive temperature, overload, input undervoltage, and short circuit protection
- Built-in mechanism to decrease HF interference on certain radio channels on ORI12127050 and ORI242417040 models
- Remote on/off
- IP65 protection
- 5 year warranty

- Input/Output: 12V, 50A
- 5.4" x 4.85" x 1.6"; 0.73 lb

VIC ORI121217050 700W

- Input: 9-35V, 50A / Output: 10-35V, 50A
- 5.44" x 4.9" x 2.1"; 1.14 lb

VIC ORI242417040 1400W

Victron Energy Orion-Tr Smart DC-DC Chargers



Non-isolated

The Orion-Tr Smart Chargers serve as a DC-DC battery charger, or as a power supply, as it has also been designed for use as a constant voltage source.

- Fully programmable configurable or fixed output battery charge algorithm
- Smart alternator compatibility
- Adaptive 3-stage charge algorithm
- Unlimited number of units can be connected in parallel
- Bluetooth Smart enabled; using the VictronConnect App allows display of key data, including warnings and alarms
- Short circuit proofed
- High temperature protection
- IP43 rated when installed with the screw terminals oriented downward
- 5 year warranty

Non-Isolated



Isolated

- 5.1" x 7.3" x 3.2"; 3 lb

VIC ORI121236140 12V/12V-30A

Isolated

- 3 lb

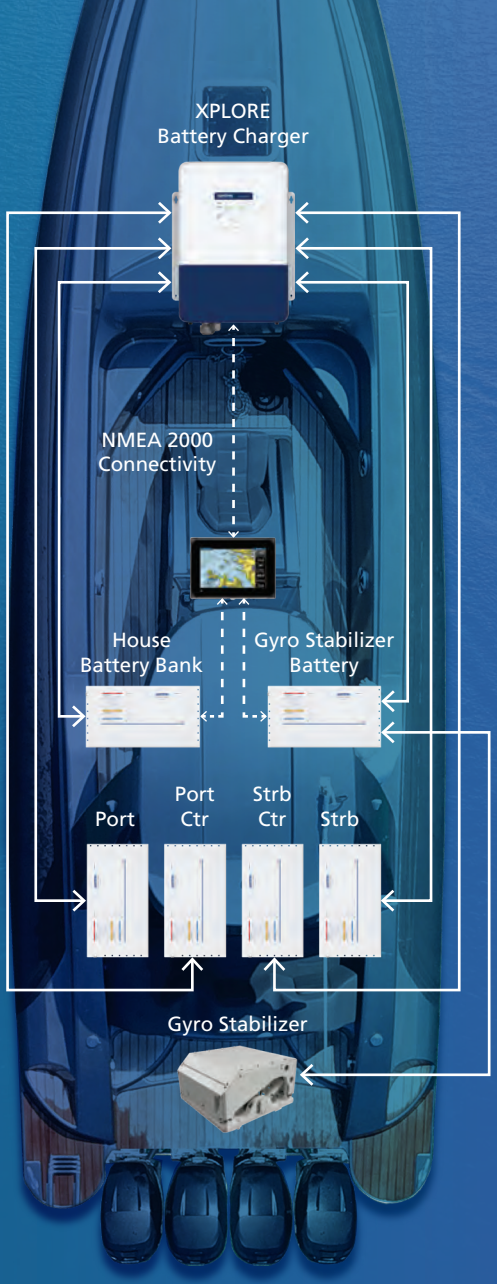
VIC ORI121222120 12V/12V-18A, 5.1" x 7.3" x 2.8"
VIC ORI121236120 12V/12V-30A, 5.1" x 7.3" x 3.2"

xantrex™
A MISSION CRITICAL ELECTRONICS BRAND

XPLORE
120A/12V Battery Charger



- Charge 6 battery banks at the same time
- Charge multiple chemistries simultaneously
- Confidently charges gyro stabilizers
- Bluetooth connectivity enabled
- Built-in NMEA 2000 communications



For additional information contact **marketing@xantrex.com**

TRUECHARGE™3

NEW. **TRUE. IMPROVED.**

Lithium-ion compatible with parallel stacking for up to two chargers.

20A **40A** **60A** **10A 24V** **20A 24V** **30A 24V**



MCE MARINE POWER

Mission Critical Electronics | AiSEA | MAGNUS | NEWMAR | xantrex

Copyright © 2026 Mission Critical Electronics LLC. All Rights Reserved. All trademarks are owned by Mission Critical Electronics LLC or its subsidiaries.



Xantrex
XPLORE 120/12 Battery Charger

- Six battery banks and dual-chemistry charging
- Supports AGM, FLD, GEL, LFP, Custom
- NMEA 2000 connectivity
- Xantrex App connectivity via included BLE module
- Auto-ranging universal input voltage (80-265VAC, 45-65 Hz)
- Power share automatically reduces charging output to prevent tripping of the AC input breaker
- Quiet and storage modes available
- Able to charge dead batteries as low as 0V back to full charge
- Output voltage: 12VDC
- Maximum output: 120A
- IP32
- ETL listed to CSA C22.2 No. 107.2, conforms to UL Std. UL1236 and UL1564, ABYC E-11, A-31
- Ignition protection SAE J1171, ABYC C-1500
- L: 16.26" x W: 12.34" x H: 6.5"
- 13 lb
- 5 year warranty

XAN 819-0120-12

Accessories:

XAN 808-0232-01 Temperature sensor



Xantrex TRUECharge2
12V & 24V Battery Chargers

- Microprocessor-controlled, multistage charging algorithms
- Settings for two and three-stage charging
- Charges flooded, gel, AGM or lead-calcium batteries
- Battery-equalization feature
- Auto-ranging universal input voltage (90-265 Vac, 47-63 Hz) is also compatible with a generator or other low-quality power sources
- Temperature-compensated charging
- Power factor corrected for efficient charging
- Mounting is possible in a variety of orientations and in areas where space is limited
- Ability to charge healthy batteries drained to low voltage
- Easy access to AC and DC wiring from one side
- Reverse battery polarity protection
- Drip-proof design
- Over and under-temperature protection
- DC over-voltage protection
- Battery overcharging protection
- Tested to conform to ingress protection rating IP32 and meets UL1564, UL1236 including marine supplement and ABYC standards
- Optional battery temperature sensor (Part #808-0232-01)
- Optional remote panel (#808-8040-01) allows for parallel stacking
- Two year warranty

Part #	Volts	Amps	L x W x H	Weight
XAN 804-1220-02 **	12	20	9.8" x 6.7" x 2.8"	4.8 lb
XAN 804-1260-02 **	12	60	13.4" x 6.7" x 3.5"	9.9 lb
XAN 804-2410 **	24	10	9.8" x 6.7" x 2.8"	4.8 lb

** While Stock Lasts



Xantrex
TRUECharge2 / XPLORE Temp Sensor

The BTS mounts on a terminal post of a battery in a bank or on the side of a battery and measures its temperature. It sends precise information to the charger or charge controller

XAN 808-0232-01 25'



Xantrex
TRUECharge2 Remote Panel

- Gives the user flexibility to set maximum charger output current
- Can be used to operate two chargers in parallel to increase output capacity
- Allows the charger to be powered on or placed into standby while AC power is connected
- Programs the charger for battery type and temperature
- Displays faults and warnings, basic battery level and settings
- Displays the current status of each battery or each battery bank
- Simple push buttons to set charger mode
- Allows for activation and termination of equalization
- FCC Class B compliant
- Two 7.6 m (25') communication cable
- Mounting template and 1 1/2" NPT locknut for mounting
- 4-9/16" x 1-3/4" x 3-8/16"

XAN 808-8040-01 **

** While Stock Lasts



Xantrex TRUECharge3
12V & 24V Battery Chargers

TRUEcharge3 battery chargers are ultra-compact, high performance chargers for worldwide charging.

- Microprocessor-controlled, multistage charging algorithms
- Two and three-stage charging settings
- Parallel stacking for up to two chargers (requires remote panel #808-8040-10, not included)
- Settings for flooded, gel, AGM, or Lithium-ion batteries
- Power factor corrected for efficient charging
- Battery-equalization feature
- Ability to charge batteries drained to extremely low voltage
- Quiet mode
- Reverse battery polarity protection
- Drip-proof design allows mounting in multiple positions
- Over temperature protection, DC over voltage protection, and circuit breaker protection
- Meet global safety and regulatory standards
- Two year warranty

Part #	Volts	Amps	L x W x H	Weight
XAN 804-1220-10	12	20	9.8" x 6.7" x 2.8"	4.8 lb
XAN 804-1240-10	12	40	9.8" x 6.7" x 2.8"	4.8 lb
XAN 804-1260-10	12	60	13.4" x 6.7" x 3.5"	9.9 lb
XAN 804-2410-10	24	10	9.8" x 6.7" x 2.8"	4.8 lb
XAN 804-2420-10	24	20	9.8" x 6.7" x 2.8"	4.8 lb
XAN 804-2430-10	24	30	13.4" x 6.7" x 3.5"	9.9 lb

Xantrex TRUECharge3 Remote Panel



Full function remote allows you to monitor and control battery charger performance from a remote location, including features not accessible from the TRUECharge3's onboard display.

- Designed for use with the TRUECharge3 battery chargers
- Reads like a fuel gauge and displays critical information on charging of battery banks
- Allows parallel stack charging
- Easy to install, read, and operate
- Connects to battery charger via included telephone cable
- LED display
- Off-state battery drain: < 40 mA
- On-state power consumption: < 150 mA
- FCC Class B
- L: 4.56" x W: 1.75" x H: 3.5"
- .44 lb

XAN 808-8040-10

Xantrex Digital Echo Battery Charger



- 15 A maximum charge current
- Automatically adjusts for 12 or 24 volt battery banks (both battery banks must be the same DC voltage and battery type)
- Automatically switches on/off without affecting the in-house battery bank or over-charging
- Utilizes excess current from the primary charging source
- Built-in thermal and over-current circuits
- Reverse polarity protection
- 5.5" x 4.5" x 1.25"

XAN 82-0123-01

► *Also See* Inverter/Chargers pg 03-119 to 125

Xantrex Solar MPPT Charge Controller



- Advanced Maximum Power Point Tracking (MPPT) technology increases daily energy harvest by 20-30% compared to PWM
- Dual-battery bank charging ports to simultaneously charge house and starter batteries
- Advanced multi-stage charging technology, Bulk, Absorption, Float, and Equalization
- DC/DC conversion with 98% efficiency
- Built-in LCD display provides real-time system data (Volts, Amps, Watts, Watt-hours, Temperature)
- Naturally-cooled by convection, -25°C to 45°C operating range
- Supports house battery types: Sealed (AGM), Gel, Flooded, Lithium Iron Phosphate (LiFePO4)
- Nominal system voltage: 12/24V Auto-Detect
- 30A
- 9.92" x 5.91" x 2.64"

XAN 710-3024-01

Xantrex MPPT Remote Panel



- Provides real-time data about your solar system
- Includes 25' cable
- 3.8" x 3.8"

XAN 710-0010

Mastervolt Solar MPPT Charge Regulator



The SCM60 MPPT-MB is Mastervolt's largest MPPT solar charge regulator, perfect for large and medium-sized systems.

- High efficiency charges batteries quickly – charges up to 30% faster with the same number of solar panels
- Capable of solar panel configurations of up to 3600 Wp (Max 900 Wp @12V, 1800 Wp @24V, 3600 Wp @48V)
- Suitable for all solar panels, including 60-cell
- Suitable for AGM, Gel, flooded, and Mastervolt Lithium Ion (LiFePO4) batteries, with fast and flexible settings for battery type
- Fully protected against over temperature, overload, high/low battery voltage, high/low PV voltage, short circuit, reverse polarity, and HV transients
- Monitoring and control via MasterBus
- Battery temperature sensor for long lifespan
- Automatic detection of 12V, 24V, and 48V
- Switchable output
- Noiseless operation
- Large backlit LCD display
- Audible signal
- Temperature range: -20°C to 55°C (-4°F to 131°F)
- Max charge current @40°C: 60A
- IP23 rated
- H: 15.7" x W: 6.6" x D: 4.1"
- 12.1 lb

MSV 131906000

Samlex PST Series Remote



- For use with PST-600 & PST-1000
- Remote push button on/off
- LED indicators for overload, over temperature and power 15' of cable
- 3.5" x 2.52" x 1.1"

SMX RC-15A **

** While Stock Lasts

Samlex PSE Series On/Off Remote



- Power ON/OFF
- 2" x 2.5" x 1"

SMX RC-15 **

** While Stock Lasts

Samlex SAM Series Remote



- Power ON/OFF
- 10' cable with RJ45 connector
- Bar meter monitor for battery charge level and output power
- LED indicator lights for: over & under voltage protection, over temperature protection and overload protection
- 4.5" x 2.6"

SMX SAM-RC **

** While Stock Lasts

Victron Energy Smart Solar MPPT Charge Controllers



- Bluetooth Smart built-in
- VE.Direct
- Ultrafast maximum power point detection and tracking
- Maximum conversion efficiency exceeds 98%, with full output current up to 40°
- Fully programmable charge algorithm, and eight preprogrammed algorithms that are selectable with a rotary switch
- Over-temperature, PV short circuit, PV reverse polarity, and PV reverse current protection
- Internal temperature sensor
- Add a Smart Battery Sense or BMV-712 SBM (sold separately) to communicate battery voltage and temperature to one or more SmartSolar charge controllers
- Will initiate battery charging even if the battery has been discharged to 0V, and will reconnect to a fully discharged Li-Ion battery with integrated disconnect function
- 5 year warranty

VIC SCC110030210 100/30A
VIC SCC110050210 100/50A

Victron Energy Smart Solar MPPT Charge Controller with Load Output



- Bluetooth Smart built-in
- VE.Direct
- Ultrafast maximum power point detection and tracking
- Load output prevents over-discharge of the battery by disconnecting at a pre-set voltage
- Intelligent battery management to prevent over cycling
- Programmable battery charge algorithm
- Internal temperature sensor
- Over temperature and output short circuit protection
- Add a Smart Battery Sense or BMV-712 SBM (sold separately) to communicate battery voltage and temperature to one or more SmartSolar charge controllers
- Will initiate battery charging even if the battery has been discharged to 0V, and will reconnect to a fully discharged Li-Ion battery with integrated disconnect function
- 12/24V (12/24/48 on SCC11020160R - MPPT 100/20-48V)
- 5 year warranty

VIC SCC075010060R 75/10A
VIC SCC110015060R 100/15A
VIC SCC110020160R 100/20A

Victron Energy Solar Accessories



VIC SCA000100000 Solar cable, 4mm, 1m
VIC SCA000300000 Solar cable, 4mm, 3m
VIC SCA000500000 Solar cable, 4mm, 5m
VIC SCA000100100 Solar cable, 6mm, 1m
VIC SCA000300100 Solar cable, 6mm, 3m
VIC SCA000500100 Solar cable, 6mm, 5m
VIC SCA001000100 Solar cable, 6mm, 10m
VIC SCA002000100 Solar cable, 6mm, 20mm



VIC SCA500100000 Solar adapter cable, MC4 male-MC3 female
VIC SCA500200000 Solar adapter cable, MC4 female-MC3 male

VIC SCA520500000 Solar splitter, pair
VIC SCA520300000 Solar connector, pair



Scanstrut Ventura Series Anderson 50A Solar Connection

NEW



Designed for outdoor life, this connection keeps your power flowing with no fuss, no compromise.

- Marine grade 316 stainless steel components with built-in gaskets
- UV resistant
- 90° holding bump feature
- Spring loaded lid
- Heavy duty connector won't work loose
- Anderson SB50 - red connection type
- Max Current: Rated 50A (6AWG cable)
- Max Voltage: Rated 600V DC
- Max Power Delivery: 600W - 12V, 1200W - 24V, 2400W - 48V

SCA SC-V-S1

NOTE: SB50 terminal crimps are not included.

Scanstrut Ventura Series SAE Solar Connection

NEW



- Provides a quick and dependable outdoor access to an SAE connection
- IP68, IP69K front only when lid closed
- Built-in gasket for watertight seal, spring loaded lid, and marine-grade 316 stainless steel components
- 6" 12 AWG tinned copper wire cable
- Standard 1" cutout
- 90° holding bump feature
- Max Current: 20A; Max Voltage: 24V
- Max Power Delivery: 240W (12V), 480W (24V)
- W: 2.37" x H: 2.68" x D: .63"

SCA SC-V-S2

Xantrex Cable and Battery Harness Install Kit



708-0150

- Weather resistant and certified cables to connect the solar panel to the charge controller and from the charge controller to the battery. The PV cables and battery cables, with a built-in fuse and ring terminals, built-in ferrule terminations for quick connections to the charge controller

XAN 708-0150

Xantrex Solar Panel Accessories

XAN 708-0040 PV single connector (pair)
XAN 708-0060 PV connector assembly tool
XAN 708-0080 Remote battery temperature sensor

Samlex
Inverter Installation Kits



Kit contains a pair of heavy duty gauge cables and a fuse assembly that is used to connect the inverter to the battery bank. The fuse protects your equipment in the event of a battery short-circuit and the cables provide a safe and easy plug and play connection.

- High strand count, annealed copper conductors

Part #	Inverter	Cable	Fuse
SMX DC-1000-KIT **	12V, 600-1000 W 24V, 600-2000 W	AWG #4	100 amp
SMX DC-2000-KIT**	12V, 1000-2000 W 24V, 2000-3000 W	AWG #2	200 amp

** While Stock Lasts

Victron Energy
Phoenix VE.Direct Inverters



- Pure sinewave inverter
- Fully configurable low battery alarm trip, reset, voltage cut-off and restart, load dependent cut-off, output voltage, frequency, and ECO mode sense levels
- Monitors in and output voltage, percentage load, and alarms
- ECO mode available to switch to standby when the load decreases below a preset value
- High start-up power
- Short circuit proofed and protected against overheating
- VE.Direct port can be connected to a computer (VE.Direct to USB interface cable needed), smartphones, tablets, and other devices (VE.Direct Bluetooth Smart dongle needed)
- 5 year warranty

Part #	Volts	Watts	L x W x H	Weight lb
VIC PIN122510510	12	250	3.4" x 6.5" x 10.3"	5.3
VIC PIN123750510	12	375	3.4" x 6.5" x 10.3"	6.6
VIC PIN125010510	12	500	3.4" x 6.8" x 10.8"	8.5
VIC PIN121800510	12	800	4.1" x 9.1" x 12.1"	12
VIC PIN122122510	12	1200	4.6" x 9.1" x 14.3"	16.3
VIC PIN245010510	24	500	3.4" x 6.8" x 10.8"	8.5
VIC PIN241800510	24	800	4.1" x 8.5" x 12.1"	12
VIC PIN242122510	24	1200	4.6" x 9.1" x 12.9"	16.3

Victron Energy
Phoenix 3kVA Inverters



This range of pure sine wave inverters is suitable for the widest range of applications. Employing hybrid HF technology, the result is a top quality product with compact dimensions, light weight, and the capability of supplying power problem free to any load.

- Very high start-up power for even difficult loads such as refrigeration compressors, electric motors, and similar appliances
- Up to 6 units can operate in parallel to achieve higher power output, and can also be configured in 3-phase or split phase
- VE.Bus capability
- 14.3" x 10.2" x 8.6"
- 38 lb
- 5 year warranty

VIC PIN123020100 12V, 3000W
VIC PIN243020100 24V, 3000W

Xantrex
Freedom X Inverters



- Extended Surge Rating: Surges to 2X continuous power for 2 seconds for motor loads
- True Sine Wave AC Power: For operation of sensitive and motor loads
- Ignition Control: Feature to turn inverter on/off via a 12 VDC signal and to minimize battery drain by switching the inverter off when the ignition key is turned off
- Wide 10-18 VDC Input Range: Ensures inverter operation on high voltage alternators found on many new vehicle chassis
- Built-in 30A AC Transfer Relay: Senses when outside AC Power is present and transfers the load from the inverter to the source of incoming power (shore or generator). The unit also automatically switches from invert mode to charge mode
- Quick Installation: Huge wiring bay for easy access and quick connect AC in/out terminals for fast & easy wiring
- Two year warranty

Part #	Watts	Continuous Current	L x W x H	Weight lb
XAN 817-1000	1000	8.4 amps	13.4" x 9.1" x 3.7"	11.5
XAN 817-2000	2000	16.7 amps	14.6" x 10.8" x 3.9"	14.7
XAN 817-3000	3000	25 amps	15.4" x 10.8" x 4.0"	16.5

Xantrex
PROwatt 1800W SW Inverter



True sine wave inverter

- Compact, easy-to-use, and easy-to-install
- 1800W continuous power, with 3000W peak surge capacity
- 12VDC input, 104-127 VAC output, 60 Hz
- Built-in digital display for DC volts and output power
- Built-in USB port with 5V/500 mA output
- Dual GFCI AC receptacles for safe operation
- Heavy duty terminals for trouble-free battery connection
- Protection Features: low voltage, over load, and over temperature shutdowns, over voltage and GFCI protection, and low voltage alarm
- Optional ON/OFF remote panel (808-9001)
- Meets stringent UL458 regulatory standard
- L: 13.7" x W: 11.8" x H: 3.9"
- Two year warranty

XAN 806-1220

Xantrex
PROwatt SW Remote Panel



- Adds ON/OFF remote function to the PROwatt SW inverter
- Automatic ignition lockout feature when ignition or 12VDC enable is not engaged
- Includes 25' remote cable
- 2-1/2" x 2" (Cutout: 1-15/16" x 1-6/16")

XAN 808-9001

Samlex EVO Remote



For use with the EVO series of inverter/chargers.
Real-time activity on the 32 character LCD screen while unit operates: output voltage, frequency, amps, watts, volt amps, power factor, battery voltage, battery current, solar input current.
Remote programs inverter and battery charging parameters. Save a parameter set on a removable SD Card, transfer saved parameters to other EVO inverter/chargers, or insert the SD card into a computer and make parameter adjustments there.
Data log historic power consumption, inverter functionality, battery charging activity, faults and all of the conditions leading up to them.

- 5.6" x 4.5" x 1.4"

SMX EVO-RC **

** While Stock Lasts

Samlex EVO F Series Pure Sine Inverter/Charger



- Pure sine wave inverter
- 6 programmable charging profiles – 2, 3 and 4 stages with equalization
- Lead acid or Lithium batteries
- Adaptive battery charging option for lead acid batteries
- Synchronized transfer: Zero transfer time when switching from inverter to AC input source.
- High surge inverter, and active power boost
- Input for solar charge controller
- Temperature controlled cooling
- Programmable power save mode (using optional EVO-RC-Plus)
- Inverter Watts: 1200; Charger Amps: 60 A; Relay Amps: 30
- Dimensions: W: 12.76" x D: 16.34" x H: 5.83"
- Weight: 38.8 lb

SMX EVO-1212F-HW ** 12VDC

** While Stock Lasts

Samlex EVO F Series Remote

- Advanced features for programming various parameters and modes of operation
- 4 rows of 20 character alpha numeric LCD display for messaging
- Up to 16 GB SD card slot for data logging
- Comes with 10m / 33ft RJ-45 data cable
- 5.6" x 4.5" x 1.4"



SMX EVO-RC-PLUS **

** While Stock Lasts

Victron Energy MultiPlus 2 kVA & 3 kVA Inverter/Chargers



The MultiPlus is a combined true sine wave inverter and charger in one elegant package.

- Virtually unlimited power thanks to parallel, split phase, and three phase operation
- Two AC outputs; the main output has no-break functionality
- Pair with a Multi Control Panel (sold separately) to access PowerControl and PowerAssist features which allow setting of maximum generator or shore power currents, or ensure that insufficient shore or generator power is compensated for by power from the battery
- Four stage adaptive charger and dual bank battery charging
- VE.Bus capability
- Lithium-Ion battery compatible
- Dimensions: A: 20.5" x 10" x 4.9", B:20" x 9.3" x 5.8", C: 14.3" x 10.2" x 8.6"
- 5 year warranty

Part #	Volts	Inv. Watts	Chg. Amps	lb	Dim
VIC CMP122200102	12	2000	80	28.6	A
VIC PMP122200102	12	2000	80	35	B
VIC PMP122301102	12	3000	120	39.6	C
VIC PMP242200102	24	2000	80	35	B
VIC PMP242301102	24	3000	120	39.6	C

Victron Energy MultiPlus 12V Inverter/Chargers



The MultiPlus is a powerful true sine wave inverter, sophisticated battery charger with adaptive charge technology, and a high-speed AC transfer switch in a single compact enclosure.

- Up to six MultiPlus units can operate in parallel to achieve higher power output, and can also be configured for three-phase output
- Adaptive charge software fine tunes the 3-stage process to suit the battery's condition and adds a fourth stage for long periods of float charging
- Dual bank battery charging: The MultiPlus will charge a second battery using an independent trickle charge output intended for a main engine or generator starter battery
- High start-up power for high inrush loads such as power converters for LED lights, halogen lights, or electric tools
- Search Mode: When 'on' the power consumption of the inverter in no-load operation is decreased by approx. 70%
- Pair with a Multi Control Panel (sold separately) to access PowerControl and PowerAssist features which allow setting of maximum generator or shore power currents, or ensure that insufficient shore or generator power is compensated for by power from the battery
- Pair with a Cerbo GX, Ekrano GX, or other GX product (sold separately) to enable remote configuring and monitoring
- 5 year warranty

Part #	Inv. Watts	Chg. Amps	H x W x D	lb
VIC PMP121500100	500	20	12.2" x 7.2" x 4"	9.7
VIC PMP122120100	1200	50	16" x 9.8" x 3.9"	18.1

Victron Energy MultiPlus-II 120V Inverter/Charger



The MultiPlus-II is a multifunctional inverter/charger with all the features of the MultiPlus, plus an external current sensor option which extends the PowerControl and PowerAssist function to 100A

- Use in off-grid as well as grid connected PV and other alternative energy systems, compatible with both solar charge controllers and grid-tie inverters
- PowerControl and PowerAssist features allow setting of maximum generator or shore power currents, or ensure that insufficient shore or generator power is compensated for by power from the battery
- Virtually unlimited power thanks to parallel, split phase, and three phase operation
- VEConfigure software (requires computer or laptop and MK3-USB interface) to easily configure settings
- Pair with a Color Control GX or other GX product (sold separately) to connect to the internet and access or change settings on the system remotely
- 22.8" x 10.9" x 5.8"
- 42 lb
- 5 year warranty

VIC PMP122305122 12V, 3000W

Victron Energy MultiPlus-II 2x120V Inverter/Chargers



The MultiPlus-II 2 x120V is the perfect one-box mobile solution for standard 50A 120/240VAC split-phase applications. Whether it is supplied from shore power or a generator, the MultiPlus-II 2x120V can accept and pass through both lines of a 120/240V supply, with the capability to utilize the full 50A for charging and AC loads.

- Virtually unlimited power due to parallel and 3-phase operation
- AC input can be supplied from a split phase 120/240V source, or a single phase 120V source
- Inverter output is 120V single phase, or can be 240V when supplied by a split phase AC source
- Inverter only when no AC source is available
- PowerControl and PowerAssist features allow setting of maximum generator or shore power currents, or ensure that insufficient shore or generator power is compensated for by power from the battery
- Pair with a Cerbo GX, or other GX product (sold separately) for additional monitoring and control options, as well as remote monitoring and control
- VEConfigure software (requires computer or laptop and MK3-USB interface) to easily configure settings
- UL 458
- 22.5" x 10.8" x 8.6"
- 48 lb
- 5 year warranty

VIC PMP122305102 12V, 3000W
VIC PMP242305132 24V, 3000W

Victron Energy Quattro 120V Inverter/Charger



- Use in off-grid as well as grid connected PV and other alternative energy systems
- PowerControl and PowerAssist features allow setting of maximum generator or shore power currents, or ensure that insufficient shore or generator power is compensated for by power from the battery
- Split phase and three phase capability
- Change settings in a matter of minutes with a DIP switch setting procedure
- VE.Bus compatible
- Pair with other Victron products for increased on-site and remote monitoring, configuration, or control
- Lithium-Ion battery compatible
- 18.5" x 14" x 11.2"
- 75 lb
- 5 year warranty

VIC QUA125021100 12V, 5000W

Victron Energy Quattro-II 2x120V Inverter/Charger



The Quattro-II 2x120V is a combined inverter and charger specifically designed for standard 50A 120/240VAC split-phase applications. Whether it is supplied from shore power or a generator, the Quattro-II 2x120V can accept and pass through both lines of a 120/240V supply, with the capability to utilise the full 50A for charging and AC loads.

- Virtually unlimited power due to parallel and 3-phase operation
- AC input can be supplied from a split phase 120/240V source, or a single phase 120V source
- Two AC inputs and two AC outputs allow the Quattro to be connected to two independent AC sources, or two generators
- Inverter output is 120V single phase, or can be 240V when supplied by a split phase AC source
- Inverter only when no AC source is available
- Pair with a Cerbo GX, or other GX product (sold separately) to connect to the internet and access or change settings on the system remotely
- VEConfigure software (requires computer or laptop and MK3-USB interface) to easily configure settings
- 22.8" x 12.6" x 6.6"
- 52 lb
- 5 year warranty

VIC QUA122305130 12V, 3000W

Victron Energy Quattro 3 kVA & 5 kVA Inverter/Charger



- Use in off-grid as well as grid connected PV and other alternative energy systems
- PowerControl and PowerAssist features allow setting of maximum generator or shore power currents, or ensure that insufficient shore or generator power is compensated for by power from the battery
- Split phase and three phase capability
- Change settings in a matter of minutes with a DIP switch setting procedure
- VE.Bus compatible
- Pair with other Victron products for increased on-site and remote monitoring, configuration, or control
- 12V
- 5 year warranty

Part #	Inv. Watts	Chg. Amps	H x W x D	lb
VIC QUA123020010 *	3000	120	14.3" x 10.2" x 8.6"	40
VIC QUA125020000 *	5000	220	18.5" x 13.8" x 11"	75

* Special Order

Victron Energy Digital Multi Control 200/200A GX



The Digital Multi Control 200/200A GX enables remote monitoring and control of inverter/charger systems in stand-alone, parallel, and 2- or 3-phase configurations. It seamlessly integrates with the helm, dashboard or control panel of your vessel, vehicle, or home system.

- Designed to work with all Multi/Quattro
- 2.6" x 4.7" x 1.6"



VIC DMC000200010R

Accessories:

VIC ASS050300010 Wall mounted enclosure

Victron Energy Digital Multi Control 200/200A



The Digital Multi Control 200/200A enables remote monitoring and control of inverter/charger systems in stand-alone, parallel, and 2- or 3-phase configurations. It seamlessly integrates with the helm, dashboard or control panel of your vessel, vehicle, or home system.

- Allows PowerControl and PowerAssist current limit setting for two AC sources (i.e. a generator and shore side current)
- Designed to work with all Multi/Quattro
- 2.6" x 4.7" x 1.6"

VIC REC020005010

Victron Energy Inverter Control Panels

NEW

- Intended for inverters equipped with a UTP remote monitoring and control socket, and can also be used on a MultiPlus inverter/charger when an automatic transfer switch but no charger function is desired
- LEDs automatically dim at night
- Only for models: 12/1200, 12/1600, 12/2000, 12/3000, 12/5000, 24/1200, 24/1600, 24/2000, 24/3000, 24/5000, 48/3000, and 48/5000
- 2.56" x 2.36"



REC030001210



REC040010210R

VIC REC030001210 Phoenix

VIC REC040010210R Phoenix V.E. Direct

Victron Energy Color Control GX



The Color Control (CCGX) provides intuitive control and monitoring for all Victron power systems.

- Monitor and control products locally on the CCGX itself, or on Victron's free remote monitoring website VRM Online Portal
- Monitor, control, and configure the CCGX remotely, or by local LAN network using Remote Console
- Highly customizable start/stop system
- Data logging: When connected to the internet, all data is sent to the VRM portal, when not connected, the CCGX will store data internally up to 48 hours, and storage capacity can be increased by inserting a micro SD card or USB stick
- 5.1" x 4.7" x 1.6"

VIC BPP010300100R

Accessories:

VIC BPP900100200 Wi-Fi Module simple, Nano USB

VIC BPP900200400 Wi-Fi Module long range, Netgear AC1200

Victron Energy Cerbo GX & GX Touch



The Cerbo GX communication-centre allows you to access your system via the Victron Remote Management (VRM) portal, or access it directly, using the optional GX Touch screen, a Multi-Functional Display (MFD), or our VictronConnect app thanks to its Bluetooth capability.

- Monitor, control, and configure remotely, over the internet, via local LAN network, or via built-in WiFi access point using Remote Console
- Simple mounting and configuration
- (1) VE.Can isolated port, (1) VE.Can non-isolated port, (3) USB host ports
- 1.9" x 6.1" x 3.1"

VIC BPP900450100 Cerbo GX MK2



GX Touch

Accessories:

VIC BPP900455050 GX Touch 50, 5"

VIC BPP900455070 GX Touch 70, 7"

VIC BPP900465050 Wall mount for GX Touch 50

VIC BPP900465070 Wall mount for GX Touch 70

VIC BPP900462050 Protective cover for GX Touch 50

VIC BPP900462070 Protective cover for GX Touch 70

Victron Energy Ekrano GX



- 7" touchscreen display allows you to monitor and control your system
- Touch function can be disabled/enabled via a recessed button on the back to prevent unauthorized use
- Monitor, control, and configure the Ekrano GX remotely, over the internet, via local LAN network, or via built-in WiFi access point using Remote Console
- Simple mounting and configuration
- 4.9" x 7.4" x 1.3"

VIC BPP900480100

Victron Energy Outdoor Antennas



- Screw mount
- 3m RG-316 cable with SMA male straight connector
- Frequencies 800/900/1800/1900/2100 MHz
- 3 dB

VIC GSM900100100 2G & 3G

VIC GSM900100400 4G

Victron Energy
VE.Direct Bluetooth Dongle



- View data (such as battery status and solar panel power as well as other useful data) from non-smart devices such as BlueSolar MPPTs, Phoenix Inverter VE.Direct, and BMV wirelessly on your iOS or Android mobile devices via our VictronConnect app
- VE.Smart Networking: wireless communication network between Victron products
- Works with iOS, Android, and macOS
- Two status LEDs for Bluetooth and errors
- Clear PIN code button

VIC ASS030536011

Victron Energy
VE.Bus Smart Dongle



The VE.Bus Smart dongle is two products in one: firstly, it is the Bluetooth accessory for the Victron range of inverter/chargers, and secondly, it can work as a voltage and temperature sensing device for the inverter/charger.

- Great alternative when the Color Control GX or Venus GX are a step too far
- When installed, use the VictronConnect app to monitor operation and operate the system
- Also adds instant readout to the VE.Bus product, and displays the inverter/charger's key data on the VictronConnect device list page without requiring a connection to the product, allowing at-a-glance diagnostics
- Works with the Victron range of inverter/chargers

VIC ASS030537010

Victron Energy
GX Tank 140



The GX Tank 140 accessory enables up to four tank level sensors to be connected and monitored when used with a Victron GX device.

- Interfaces with either 4-20 mA or 0-10V tank level sensors (including a combination of both)
- Connects to GX device by USB interface
- Channel 1 & 2 use a fused power source from the V(in) connection
- Channel 3 & 4 use an integrated 24V power source, which is powered via the USB interface, simplifying the installation/ wiring process
- Configurable input range, and averaging filter
- Sensor fault detection raises an alarm if the input signal is out of normal/acceptable operating range

VIC BPP920140100

Victron Energy
VE.Can Tank Sensor Adapter



The VE.Can resistive tank sender allows a standard resistive tank level sender to connect to the Color Control GX.

- Compatible with both the US standard 240-30 Ohm, and European 0-180 Ohm tank level senders, and is accurate to ±1%
- Easily configurable to senders from fuel, fresh water, waste water, well water, oil, and black water tanks
- Supports up to 16 tanks of each type
- Simple setup with two small rotary switches
- Powered via VE.Can network

VIC BPP900600100

Victron Energy
Smart Battery Management Systems



Dedicated Battery Management System (BMS) for the Victron Lithium Battery Smart batteries. NG models are designed specifically for the Lithium NG.

- Integrates seamlessly into the Lynx Distribution system
- Built-in contactor acts as a secondary safety system to protect the battery, and is also suitable as a remote controllable main system switch
- Pre-charge circuit prevents high inrush currents when connecting a capacitive load or other inverter, eliminating the need for external pre-charging
- Monitor and control the BMS via Bluetooth using the VictronConnect App or a GX device and the VRM Portal
- Programmable relay can be used either as an alarm relay (combined with the pre-alarm), or to control an alternator via its external regulator
- AUX terminal provides power to specific loads (i.e. a GX device) after the BMS has shut down the loads in the event of a low cell voltage event
- VE.Can and NMEA 2000 data communication capable
- Monitors up to 4 connected Lynx distributors and their fuses via VictronConnect or GX device

VIC LYN034160200	BMS 500 M8
VIC LYN034160310	BMS 500 NG, M10
VIC LYN034170210	BMS 1000, M10
VIC LYN034170310	BMS 1000 NG, M10

Victron Energy
Lynx Distributor



The Lynx Distributor contains a positive and a negative busbar. The positive busbar has four fuse-protected connections with fuse monitoring. The negative busbar has four connections and a ground connection. It is part of the Lynx Distribution system and is available in two versions, with M8 or M10 busbar.

Note that M10 refers to the busbar connection joints where the modules are connected to each other. Fuse and cable connections are always M8.

- Power LED and four fuse status indication LEDs
- If connected to a Lynx Smart BMS, up to 4 Lynx Distributors can send fuse status information to the Lynx Smart BMS (This feature is not available when connected to a Lynx Shunt VE.Can)
- Designed to hold MEGA fuses (not included)
- Includes a 40cm RJ10 cable

VIC LYN060102000	M8
VIC LYN060102010	M10

Victron Energy Lynx Shunt VE.Can



- Contains a positive and negative busbar, a battery monitor, and a fuse holder for the main system fuse
- LED power indication
- Can communicate via VE.Can with a GX device
- Includes two RJ45 VE.Can terminators
- Designed to hold a CNN fuse

VIC LYN040102100 M8

Accessories:

VIC CIP140325000 CNN fuse 325A/80V

Victron Energy Data Cables & Interfaces

VIC ASS030066003	RJ12 UTP cable, 0.3 meter
VIC ASS030066009	RJ12 UTP cable, 0.9 meter
VIC ASS030066018	RJ12 UTP cable, 1.8 meter
VIC ASS030066030	RJ12 UTP cable, 3 meter
VIC ASS030066050	RJ12 UTP cable, 5 meter
VIC ASS030066100	RJ12 UTP cable, 10 meter
VIC ASS030066150	RJ12 UTP cable, 15 meter
VIC ASS030066300	RJ12 UTP cable, 30 meter
VIC ASS030064900	RJ45 UTP cable, 0.3 meter
VIC ASS030064920	RJ45 UTP cable, 0.9 meter
VIC ASS030064950	RJ45 UTP cable, 1.8 meter
VIC ASS030064980	RJ45 UTP cable, 3 meter
VIC ASS030064981	RJ45 UTP cable, 3 meter
VIC ASS030065000	RJ45 UTP cable, 5 meter
VIC ASS030065010	RJ45 UTP cable, 10 meter
VIC ASS030065020	RJ45 UTP cable, 15 meter
VIC ASS030065030	RJ45 UTP cable, 20 meter
VIC ASS030065050	RJ45 UTP cable, 30 meter
VIC ASS030065510	RJ45 splitter
VIC ASS030530203	VE.Direct cable, 0.3 meter
VIC ASS030530209	VE.Direct cable, 0.9 meter
VIC ASS030530218	VE.Direct cable, 1.8 meter
VIC ASS030530230	VE.Direct cable, 3 meter
VIC ASS030530250	VE.Direct cable, 5 meter
VIC ASS030530310	VE.Direct cable, 10 meter
VIC ASS030531203	VE.Direct cable, 0.3 meter, 1 RT angle
VIC ASS030531209	VE.Direct cable, 0.9 meter, 1 RT angle
VIC ASS030531218	VE.Direct cable, 1.8 meter, 1 RT angle
VIC ASS030531230	VE.Direct cable, 3 meter, 1 RT angle
VIC ASS030531250	VE.Direct cable, 5 meter, 1 RT angle
VIC ASS030531320	VE.Direct cable, 10 meter, 1 RT angle
VIC ASS030532230	VE.Direct to BMV60xS cable, 3 meter
VIC ASS030530010	VE.Direct to USB interface
VIC ASS030530030	VE.Direct to USB-C interface
VIC ASS030130010	MK2-USB interface (for Pheonix charger)
VIC ASS030140000	MK3-USB interface (VE.Bus to USB)
VIC ASS030140030	MK3-USB interface (VE.Bus to USB-C)
VIC ASS030520200	VE.Can to NMEA2000 Micro-C male
VIC ASS030550120	Inverting remote on-off cable
VIC ASS030550220	Non-inverting remote on-off cable
VIC ASS000001000	Temperature sensor
VIC ASS000020000	Temperature sensor, Type C
VIC ASS000100000	Temperature sensor, BMV-702/712

Victron Energy Lynx Power In



The Lynx Power In contains a positive and negative busbar with 4 connections for batteries, loads or chargers and a ground connection. It is part of the Lynx Distribution system and is available in two versions, with M8 or M10 busbar.

Note that M10 refers to the busbar connection joints where the modules are connected to each other. Fuse and cable connections are always M8.

VIC LYN020102000 M8
VIC LYN020102010 M10

Victron Energy Lynx Class-T Power In



The Lynx Class-T Power In connects and fuses up to two strings of lithium batteries. It features a positive and negative busbar, connections for two Class-T fuses, and a connection to ground the DC system.

- Class T-fuses sold separately
- For installations using three or more strings of Lithium batteries, use multiple Lynx Class-T modules

VIC LYN060404010 M10

Xantrex Freedom 12V XC Inverter/Chargers



Inverter Features

- Extended Surge Rating: Surges to 2X continuous power for 2 seconds for motor loads
- True Sine Wave AC Power: For operation of sensitive and motor loads
- Ignition Control: Feature to turn inverter on/off via a 12 VDC signal and to minimize battery drain by switching the inverter off when the ignition key is turned off
- Wide 10-18 VDC Input Range: Ensures inverter operation on high voltage alternators found on many new vehicle chassis
- Built-in 30A AC Transfer Relay: Senses when outside AC Power is present and transfers the load from the inverter to the source of incoming power (shore or generator). The unit also automatically switches from invert mode to charge mode
- Quick Installation: Huge wiring bay for easy access and quick connect AC in/out terminals for fast & easy wiring

Charger Features

- Power Factor Corrected Multi-Stage Charging: Utilizes less shorepower when charging batteries. This frees up more usable AC power for running electrical devices and appliances and reduces the likelihood of tripping shorepower breakers
- Programmable: Configurable 3 stage temperature compensated battery charge algorithm for optimal charging of almost any battery type up to 18V
- Battery Equalization: Maximizes flooded battery life
- Dead Battery Charging Down to 0 VDC
- Power Share: Prioritizes AC loads by reducing the charge current and maintaining the total input current to less than the breaker setting
- Two year warranty

Part #	Inverter Output	Charger Output	L x W x H	Lb
XAN 817-1050	1000 W	50 A	14.2" x 10.6" x 3.7"	13.4
XAN 817-2080	2000 W	80 A	15.4" x 10.8" x 4.0"	16.3

Accessories:

XAN 808-9817 GFCI 20 A plug kit

Xantrex Freedom XC PRO Marine 12V Inverter/Chargers



Inverter Features

- Extended Surge Rating: Surges to 2X continuous power for 5 seconds for motor loads
- True Sine Wave AC power
- Ignition control
- Wide 10-18 VDC input range
- Programmable AC under-voltage (85-110VAC) shutdown
- Built-in 50A AC Transfer Relay: Senses when outside AC Power is present and transfers the load from the inverter to the source of incoming power

Charger Features

- Power Factor Corrected Multi-Stage: Utilizes less shorepower when charging batteries. This frees up more usable AC power for running electrical devices and appliances and reduces the likelihood of tripping shorepower breakers
- Programmable: Configurable 3 stage temperature compensated battery charge algorithm for optimal charging of almost any battery type up to 18V
- Battery Equalization: Maximizes flooded battery life
- Dead battery charging down to 0 VDC
- Power Share: Prioritizes AC loads by reducing the charge current and maintaining the total input current to less than the breaker setting
- Lithium-Ion/Battery Support: BMS required
- Two year warranty

Part #	Inverter Output	Charger Output	L x W x H	Lb
XAN 818-2015 *†	2000 W	100A	15.4" x 10.8" x 4.9"	17.1
XAN 818-3010 ‡	3000 W	150A	15.4" x 10.8" x 4.9"	18.6
XAN 818-3015 †	3000 W	5 - 150A	15.4" x 10.8" x 4.9"	18.6

† Built-In Micro-C NMEA 2000 connector port; NRTL listed
‡ Built-in communications card, not NMEA 2000; ETL listed

* Special Order

Accessories:

XAN 808-0817-01 Remote panel w/25' network cable
XAN 808-0817-02 Bluetooth remote panel w/25' network cable
XAN 808-9817 GFCI 20A plug kit
XAN 808-0232-01 Battery temperature sensor

Xantrex X/XC Remote Panel



- The Xantrex remote panel for the Freedom X inverters and Freedom XC inverter/chargers features a LED screen, LED indicator lights and function buttons for easy operation
- Monitor AC IN/OUT voltage/current, battery voltage/current, percentage status bar for inverter AC output and fault & error codes
- Includes a 25-ft. 6-conductor com cable kit
- 5.5" x 2.7" x 1.5"

XAN 808-0817-01
XAN 808-0817-02 With Bluetooth output for FXC App

Xantrex Freedom SW Inverter/Chargers

- Pure sine wave output to operate sensitive electronics
- Advanced configuration options for customized applications*
- Parallel and series stacking capability
- Built-in transfer switch automatically transfers between inverter power and incoming AC power
- Power factor corrected, multi-stage charger
- Temperature compensated charging
- Ignition lockout feature helps prevent unnecessary battery drain when the alternator is not providing power*
- Operating temperature range: -4°F to 140°F (-20°C to 60°C)
- Conformal coated circuit boards for humid environments
- Dual input / Dual output AC interface for 3000 W model
- Ability to charge batteries drained to extremely low voltage
- Compatible with the Xantrex Automatic Generator Start (Part# 809-0915, sold separately)
- Battery over-voltage and under-voltage protection
- Over-temperature shutdown
- Automatic overload protection
- Short-circuit protection
- Integrated, resettable AC breakers
- 15.25" x 13.5" x 7.75"
- Two year warranty

* When used with the remote panel


815-2012

Part #	Volts	Inverter Output	Charger Output	Weight lb
XAN 815-2012	12	2000 W	100 A	60.5
XAN 815-3012	12	3000 W	150 A	77.0

Accessories:

XAN 809-0940 25' network cable

Xantrex System Control Panel

- Works with the Freedom SW 2012 and 3012
- Easy-to-use interface of a Xanbus-enabled power management system
- 6" x 4" x 1.5625"



XAN 809-0921

Mastervolt CombiMaster Inverter/Chargers

With the CombiMaster, power dips and failures belong to the past. The automatic AC transfer system switches between generator or mains and inverter output, ensuring a constant power supply. Its Power Assist function prevents tripping of the mains fuse in case you're connected to a weak land line or small generator.
The CombiMaster comes with MasterBus, CZone and NMEA 2000 compatible communication, allowing for a broad range of monitoring and system integration options.



- Most compact and lightweight Combi in its class
- Reliable, hum-free and longer operation from your batteries
- Starts even the heaviest and most sensitive loads
- Intelligent 3-step+ battery charger for faster and safer charging
- Automatic switching between mains and inverter mode
- Power Assist prevents blown mains fuses
- Generator compatible
- Integrated CZone*, MasterBus and NMEA 2000 communication
- Quick installation with heavy duty connections
- E-mark certified
- Two year warranty

Part #	AC Output Voltage	Continuous Power	Surge Capability	DC Charger Output	Weight lb	H x W x D
MSV 35512000	120	2000W	4000W	12V / 17A	20.5	17.6" x 11.2" x 6.1"
MSV 35513500	120	3500W	7000W	12V / 32A	37.5	22.4" x 14.1" x 6.7"
MSV 35522000	120	2000W	4000W	24V / 21A	20.5	17.6" x 11.2" x 6.1"
MSV 35523500	120	3500W	7000W	24V / 32A	37.5	22.4" x 14.1" x 6.7"

Mastervolt EasyView 5



- Intuitive touch control
- Waterproof, IP67 (front), daylight readable colour display (480 x 272 pixels)
- Favourite pages can be customized
- Logbook to track warnings and alarms
- Buzzer and Home button
- Front mount, wall mount or retrofit
- Easy updating through MasterBus and USB
- MasterBus powered, or 12/24 V input
- 4.4" x 5.0" x 1.7"

MSV 77010310

Mastervolt SmartRemote



- Full colour display for local device monitoring
- Displays four key parameters
- Control key device functions
- CZone* and MasterBus network compatible
- Universal, easy mounting
- Plug & Play - no configuration, no power supply needed
- Blue Sea Systems Custom 360 integration
- Display: 320 x 240 pixels
- 2.8" x 2.8" x 1.2"

MSV 77010500

Mastervolt Masterlink MICC Panel



Remote control for a battery charger, inverter or charger/inverter combination (Combi). The information provided includes reading voltage, current, Ah, time remaining and remaining capacity in percentage terms of two independent batteries. The Masterlink MICC has LED indicators for remote monitoring of the battery level. LCD screen also displays direct online data or historical information. A back box, easy to install, is included as standard for protecting the electronic components against moisture and dust.

- With LCD readout and LED bar
- Included shunt for precise measuring
- W: 120 x H: 65 mm

MSV 70403105

Mastervolt Remote Panel



For use with the Mass Sine Series inverters Model C4-RI, has an inverter on/off switch, an 'on' indicator and a 'fault' indicator. Possible faults include battery voltage too low, overload, or a short circuit in the AC circuitry.

- 60 x 65 mm x D: 60 mm

MSV 70404110

Mastervolt
Masterlink BTM-III Panel



- Monitoring for three independant batteries
- State of charge for house battery
- Automatic calculation of charge efficiency factor
- More historical data than ever before, including 'abuse counter' (excessive & very slow discharges)
- Includes protective housing
- NMEA 0183 connection
- One shut (500A/50mV) included (precise measuring of one battery)
- 120 x 65 x 40mm

MSV 70403163

Parts:

MSV 6502001030 6 m remote cable

Mastervolt Mass Combi AC Remote



- Add on to standard Mass Combi control panel.
- LED bars for read out of actual AC load, actual AC voltage and selected AC input limitation
- Status LED's for external AC source and failure
- W: 120 x H: 65 mm

MSV 70405050

Mastervolt USB Interface



The MasterBus USB Interface enables you to read and configure the MasterBus network via your PC.

- 2.6" x 3.1" x 1.3"

MSV 77030100

Mastervolt Master Shunt



This integrated battery monitor shares information about the battery bank with other Mastervolt devices such as battery chargers, Combis, and displays. All information needed for monitoring your battery bank and control of your system, such as voltage, current, state of charge and time remaining. Programmable events and an integrated real time clock make it possible to fully automate your system.

- MasterBus, CZone and NMEA 2000 communication
- Fits in a CZone system including setup tools and configuration files
- Digital shunt providing the energy system with extensive information and historical data
- Very accurate and reliable determination of State of Charge (SOC)
- Service mode prevents memory loss during system maintenance
- Realistic and precise indication of the time remaining
- For higher current, multiple MasterShunt models may be installed in parallel
- MasterConnect system makes connecting to the DC Distribution product very easy
- Straightforward, easy to install
- Freedom of choice for fuse type, rating and location. Suitable for T-fuse and ANL-fuse (to be ordered separately)
- Robust housing with isolation of the DC connections
- 5.9" x 5.9" x 2.6"

MSV 77020115

Mastervolt Multi Contact Output

NEW



This potential-free programmable contact can be customised and programmed to give your MasterBus network unprecedented possibilities.

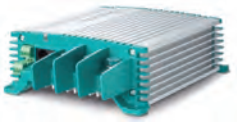
- 3.1" x 2.6"x 1.3"

MSV 77030500

Mastervolt MasterBus Accessories

MSV 77040000	MasterBus terminator
MSV 77040050	MasterBus communication cable, 1.5' (.5m)
MSV 77040100	MasterBus communication cable, 3' (1m)
MSV 77040300	MasterBus communication cable, 10' (3m)
MSV 77040600	MasterBus communication cable, 20' (6m)
MSV 77041000	MasterBus communication cable, 33' (10m)

Mastervolt
MAC PLUS DC-DC Converters



- Converter and 3-step battery charger monitors the service battery and compensates the voltage loss
- Suitable for flooded, Gel, AGM, and Li-Ion (including LiFePO4)
- Charges even fully depleted batteries
- Engine run detection protects starter battery
- Voltage stabilisation protects sensitive equipment, lights, etc
- Parallel operation to obtain charging capacities well over 100A
- Temperature compensation and voltage sense
- MasterBus compatible
- Ignition protected

Part #	Max Amps	Input VDC	Output VDC	L x W x D Inches
MSV 81205100 **	50	12	12	10" x 6.5" x 2.6"
MSV 81205505	50	24	24	10" x 6.5" x 2.6"

** While Stock Lasts

Mastervolt
Magic 12/24-10 Voltage Regulator



The Magic models can regulate the voltage both up and down to ensure an optimal voltage stabilisation, even when the battery voltage fluctuates due to heavy loads. The galvanic isolation between input and output prevents disruptions to, for instance, communication equipment.

- Converter and 3-step battery charger
- Parallel switchable
- Adjustable and programmable output voltage
- Voltage stabilisation for a longer lifespan of halogen lights, etc.
- Dimmer function for Mac & Magic models
- The isolated Magic models provide galvanic isolation between input and output circuits
- Interference suppression for sensitive equipment
- Dimensions: 8.9" x 6.1" x 3.2"
- Weight: 4 lb

MSV 81300300 10 amp

Newmar StartGuard



The abrupt DC system voltage drop that accompanies engine starting can cause microprocessor-driven communication and navigation electronics to "dump" programmed memory.
StartGuard solves this problem by providing supplemental voltage to sensitive electronics while the engine is cranked. It contains a sealed rechargeable battery which is switched on-line to electronics when the starter switch or solenoid is engaged. When the engine is running StartGuard automatically goes off-line and the internal battery is recharged by the alternator.

- Input Voltage: 13.8 - 14.8VDC nominal, 15.5VDC max.
- Relay Activation Input Voltage: 7-15VDC
- Output: 20 amps max.
- Battery: 12VDC, sealed rechargeable, 5 - 7 year life (typical), 5 amp-hour capacity
- Certified by DOT and IATA for shipment by air
- H: 8.25" x W: 4.9" x D: 3.5"
- 5.5 lb

NEW NS-12-20

Newmar Automatic Power Selector

A solid state device which enables installation of a seamless, redundant power system for critical electronic loads. It selects the higher voltage of two isolated DC power sources and routes power to the load. Should one source falter or fail, the other will automatically supply the load with no transfer delay, operation continues uninterrupted.



- 70A, 6-50V
- 6mm studs
- 3.25" x 4.5" x 3.1"
- 2 lb

NEW APS-70

IDC-360

Samlex DC-DC Converter



- High efficiency fully isolated DC-DC converter
- Compact housing
- Fold-back current limiting
- Protection against short-circuit, overheating, over-voltage, and reverse polarity connection
- Comes with 1/4" push-on flat blade quick disconnectors

Part #	Amps / Watts	Input VDC	Output VDC	L x W x H Inches
SMX IDC-360A-12 **	30 360	9-18	12.5	5.23 x 7.5 x 3.27

** While Stock Lasts

Sure Power 24-12 Volt Converter

In dual battery (24V systems) it is often desirable to have 12V power available. Converters provide fixed outputs to power 12V loads directly where a 12V battery is not available.

- Under and over voltage protection
- Reverse voltage protection
- Voltage transient protection
- Over load and short circuit protection
- Thermal overload shutdown
- Equalization status indicator
- Protected from the elements
- Rated @80 amps
- 11.9" x 8.46" x 3"
- Weight: 10.8 lb



SUR 21080C00

Victron Energy Orion-Tr DC-DC Converter



- Non-isolated
- High efficiency exceeding 95% by use of synchronous rectification
- IP43 protected when installed with screw terminals oriented downwards
- Input range: 18-35V
- Output: 12V
- Continuous output current: 20A
- 2.9" x 3.7" x 1.8"
- 0.6 lb

VIC ORI241220200R 240W

Sure Power Battery Equalizer

In dual battery (24V systems) it is often desirable to have 12V power available. Often this 12V power is available by tapping the battery stack at the junction of the lower and upper battery. Tapping the battery stack will result in unequal current draw from the lower and upper battery. Unequal current draw from the batteries will result in a state of charge unbalance.
The lower battery will be discharged more than the upper battery. Eventually this will lead to damage and reduced life from the batteries. The battery equalizer provides an effective method for ensuring that the two batteries maintain voltage balance by providing all of the 12V current. The battery is only called upon to supply transient currents that exceed the output capability of the equalizer. The equalizer thus maximizes the life of the batteries in dual battery systems. Converters provide fixed outputs to power 12V loads directly where a 12V battery is not available.

- Under and over voltage protection
- Reverse voltage protection
- Voltage transient protection
- Overload and short circuit protection
- Thermal overload shutdown
- Equalization status indicator
- Protected from the elements
- Rated @60 amps
- 11.9" x 8.46" x 3"
- Weight: 10.8 lb



SUR 21060E-00

Sure Power Battery Equalizer



Equalizers provide equalization for dual battery systems where high 12V loads are required, enhancing battery life and ensuring maximum performance for vehicle charging systems.

- Under and over voltage protection
- Reverse voltage protection
- Voltage transient protection
- Overload and short circuit protection
- Thermal overload shutdown
- Equalization status indicator
- Protected from the elements
- W: 8-1/2" x H: 3-1/4" x D: 7-1/4"
- Weight: 9 lb

SUR 52204 40 amp

Mastervolt Battery Mate



Battery Mate's technology is electronic and includes mosfets (transistors). Its components compensate for the voltage drop and ensure that charging continues at the right voltage level, even with several battery banks. The Battery Mate is compatible with any type of alternator/battery charger, in both existing and new systems.

- LED display indicates whether the power input is active
- Completely corrosion-proof material with aluminium heat sinks, the electronic components are encased in synthetic material
- 8.1" x 5.5" x 3.1"
- 2.2 lb

Part #	Batteries	Output Charger	Output Alternator
MSV 83116025	2	120 amps	160 amps
MSV 83116035	3	120 amps	160 amps

Mastervolt Masterswitch



Masterswitch gives you the option to switch automatically between available power sources, connecting the output to the highest priority input, if available.

- Selectable time delay for generator stability
- Two inputs (120V): inverter, shore power or generator
- Single outlet to the 120V power group
- Fully automatic or manual switching
- Power transfer up to 7 kW
- Can be combined with circuit breakers
- 200 x 154 x 148 mm

MSV 55106100 For AC

Sure Power Battery Separators



- Connects to primary battery, auxiliary battery and ground
- No system modifications are necessary
- Works with any type of 12V negative ground charging system 100 amps or less
- Allows multiple batteries to be charged from one charging source
- Charges primary and auxiliary battery after 13.2V

SUR 1314A-B Uni-Directional
SUR 1315 Bi-Directional

ProMariner Battery Isolators ProIsocharge Series



ProIsoCharge delivers digitally controlled alternator output distribution while protecting the health of engine start batteries, isolating and charging up to 3 other independent battery banks off of a single alternator.

- Zero volt loss isolation and charging
- Intelligent software control provides priority charging to a battery bank that is under load
- Real time LED status indicators
- Distributed On Demand battery bank management will only activate with ignition power on
- 5 year warranty

Part #	Volts	Amps	Banks	L x W x H"	Lb
PRO 23121 **	12	120	2	5.35 x 5.875 x 3.125	2
PRO 23125 *	12	180	3	7.55 x 5.875 x 3.125	5
PRO 23126 **	12	250	3	8.875" x 5.875" x 3.125"	6
PRO 23127 *	12	130	4	12.05 x 5.875 x 3.125	7

* Special Order
** While Stock Lasts

Sure Power Battery Isolators



2703

Solid state isolators provide automatic charge distribution and load isolation of batteries, eliminating the need for operator intervention. Designed for negative ground alternator systems and batteries of the same nominal voltage. Will operate at full rated load over the ambient temperature range of -40ºF to +250ºF.

- 6mm terminals

Part #	Charging Sources	Charging Amps	Banks	Dimensions (L" x W" x H")
SUR 702D	1	70	2	4.5 x 3.25 x 3.25
SUR 1202	1	120	2	6.5 x 4.5 x 3.25
SUR 1203	1	120	3	6.5 x 4.5 x 3.25
SUR 1302	1	130	2	6.5 x 4.5 x 3.25
SUR S2002	1	200	2	9 x 4.5 x 3.25
SUR 2403	1	240	3	12 x 4.5 x 3.25
SUR 2702	2	70	2	6.5 x 4.5 x 3.25
SUR 2703	2	70	3	6.5 x 4.5 x 3.25
SUR 3202	2	120	2	12.5 x 4.25 x 3.25
SUR 3203	2	120	3	12.5 x 4.25 x 3.25

Victron Energy
Battery Balancer



- Equalizes the SOC of two series connected 12V batteries, or of several parallel strings of series connected batteries
- Turns on and compares the voltage when the charge voltage of a 24V system increases to more than 27V, drawing up to 1A from the battery (or parallel connected batteries) with the highest voltage to ensure batteries converge to the same state of charge
- Multiple balancers can be paralleled; a 48V battery bank can be balanced with three Battery Balancers
- 4.49" x 3.94" x 1.85"

VIC BBA000100100

Victron Energy
Argofet Battery Isolators



- Allows simultaneous charging of two or more batteries from one alternator (or a single output battery charger) without connecting the batteries; discharging one battery will not discharge both
- Virtually no voltage loss, voltage drop is less than 0.02V at low current, and averages 0.1V at higher currents, removing the need to increase alternator output voltage
- The Argofet isolators have a special current limited energize input that will power the B+ when the engine run/stop switch is closed

VIC ARG100201020R	100-2, two battery, 100A
VIC ARG100301020R	100-3, three battery, 100A
VIC ARG200201020R	200-2, two battery, 200A
VIC ARG200301020R	200-3, three battery, 200A

Victron Energy
Argodiode Battery Isolators



- Allows simultaneous charging of two or more batteries from one alternator without connecting the batteries; discharging one battery will not discharge both
- Low voltage drop thanks to the use of Schottky diodes
- All models are fitted with a compensation diode that can be used to slightly increase the output voltage of the alternator
- The 'AC' diode isolators feature a special current limited energize input that will power the b+ when the engine run/stop switch is closed

VIC ARG080201000R	80-2AC2, 2 battery, 80A
VIC ARG080202000R	80-2SC, 2 battery, 80A
VIC ARG100301000R	100-3AC, 3 battery, 100A
VIC ARG120201020R	120-2AC, 3 battery, 120A
VIC ARG140301020R	140-3AC, 3 battery, 140A

Victron Energy
Smart BatteryProtect

NEW



- Protects the battery against excessive discharge, and can be used as a system on/off switch
- 12/24V auto ranging
- Bluetooth programming enabled
- VictronConnect app allows instant readout of important data without the need to pair with the product
- Current consumption: 1.2mA with BT on, 1.4mA with BT on
- Over voltage protection
- Ignition proof
- Delayed alarm output, as well as delayed load disconnect and reconnect

VIC BPR065022000	12/24V, 65A
VIC BPR110022000	12/24V, 100A
VIC BPR122022000	12/24V, 220A

Asea
Marine Dock Boost Transformer



- Provides precision voltage regulation to the vessel, for complete protection from the most common shore power problems
- Compact, lightweight footprint with an industry recognized mounting pattern
- Input voltage: 167-264V
- Output Voltage: Split phase 120/240V
- Input/Output current: 50A continuous / 125A overload
- Frequency: 57-70 Hz
- Conformal printed circuit boards and steel housing
- Auto-Restart from shore brownout, blackout and overload
- Fault shield for bonded, galvanic bridged/isolated ground
- Modbus (RS-485) remote diagnostics
- Advanced power monitoring (input/output parameters)
- kWh meter
- Microprocessor based over and under voltage/current protection
- H: 12" x W: 13.1" x D: 18.7"
- 128 lb

ASE 628009-001

Asea Isolation Transformer

NEW



- Drop-in replacement for Charles IsoG2
- Completely isolates vessel electrical systems from shore power
- Prevents electrical leakage currents into the surrounding water, reducing galvanic corrosion, and reduces risk of electric shock drowning
- Ignition protected
- Ensures clean and stable AC power for on-board equipment
- Meets NEC 555.35 marina code, ABYC E-11.7.1 compliant; ABYC C-1500, UL 1500, and UL 1561 certified
- 120VAC, 30A; 60 Hz
- H: 8.5" x W: 8.5" (10.8" with flange) x D: 10.5"
- 55 lb

ASE 634003

Mastervolt
Marine Isolation Transformers



- Ultra modern high-frequency electronic switch technology
- Lightweight and compact
- Integrated Soft Start function
- Connect to voltages from 90 to 255 V and from 45 to 65 Hz
- Units can be parallel coupled for higher capacity
- Higher efficiency, limited heat development
- LED lights on casing indicate load and overload
- Fit in any position on wall or floor - no rubber mountings are necessary as the unit does not vibrate or hum

MSV 88000355 GI 3.5
- 16A @ 230V
- H: 13.4" x W: 10.3" x D: 5.7", 13.2 lb

MSV 88000705 GI 7.0
- 32A @ 230V
- H: 13.4" x W: 10.3" x D: 9.8", 22 lb

Newmar Battery Integrators



- Enables charging of two separate banks without voltage drop, yet maintains 100% isolation at all other times
- For systems of three banks or more, an additional unit may be installed for each additional bank
- Easy three-wire hook up for two bank systems
- Terminal for optional wiring of remote light indicating when battery banks are integrated

NEW BI-100 12 volt, 100 amp
NEW BI-200 12 volt, 200 amp
NEW BI-24-100 24 volt, 100 amp

Newmar Noise Filter



These specialized noise filters can be used singly or in combination to attenuate conducted line noise, either at the affected equipment or at the noise source.
- Audio – 200 MHz
- Heavy duty aluminum construction
- 6-48VDC systems
- Integral mounting flanges, brass stud connectors on alternator filters, and colour coded wire leads

NEW PC-10

Victron Energy
Filax 2 Transfer Switches



The Filax has been designed to switch sensitive loads, such as computers or modern entertainment equipment from one AC source to another.
- Switching time of <20 milliseconds
- 50 Hz
- Maximum current: 16A
- IP65

VIC SDFI0000000 230V
VIC SDFI0000110 110V

Victron Energy
Isolation Transformers



- Eliminates electrical continuity between shore power and the boat, and eliminates the need for galvanic isolators and polarity alarms
- Soft start feature prevents the shore power fuse from blowing due to inrush current of the transformer
- 115 or 230V input/output
- 5 year warranty

2000W

- 14.8" x 8.4" x 4.3"
- 22 lb

VIC ITR040202041

3600W Auto

- Automatically switches to 115 or 230V supply, depending on input voltage
- 14.3" x 10.2" x 8.6"
- 50.6 lb

VIC ITR050362041

Forespar Lightning Master



Lightning Master Static Dissipaters lower the exposure to a direct lightning strike by controlling the conditions which trigger direct strikes (i.e. they reduce the buildup of static ground charge and retard the formation of the ion "streamers" which complete the path for a lightning strike). The Dissipater employs the point-discharge principal to continually leak off the lightning causing ground potential in low amperage dissipation over a long period of time instead of the short duration.
- Length: 21"

FRS 151100

Guest Dynaplate Hull Bonding and Grounding Plate



Reduces problems of RF interference, poor SSB or AM transmission / reception and poor reception of low frequency navigational bands such as Loran. Takes the ground away from your engine, providing a static-free line, eliminating interference and improving performance. Reduces the occurrence of electrolysis and galvanic corrosion due to differences between dissimilar metals. The bronze material serves as the next sacrificial metal on the galvanic scale after your zincs, providing another buffer against corrosion of stainless steel parts. Low drag, non-fouling shape scrapes clean with a wire brush. Each plate includes one gold plated mounting bolt and silver contact paste.

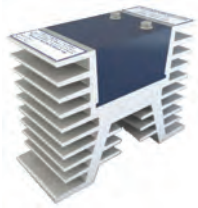
Part #	Plate Size	Equals Copper Sheathing
GUE 4006	6" x 2" x 1/2"	12 sq ft
GUE 4012	12" x 3" x 1/2"	40 sq ft

Newmar Copper Ground Strap



- 10 mil thick x 2" wide copper ground strap
- 100' rolls

NEW GS-2"X100'



Maddox Electrolysis Blocker

This approved galvanic isolator is designed to block corrosion causing current that travels between vessels at a marina using a common shore power connection. Compact and easy to install.

- AS/NZS standards approved in compliance with ABYC A28 requirements & ISO standards
- 67A AC current rating with a 5000A fail safe rating
- Ignition-proof
- Waterproof-solid state components - no service required
- Proven high performance heat sink and design
- 5-1/2" x 2-1/4" x 4"

MAD MPS.EB67

Maddox Shaft Straps



- Spring tension for easy installation and use
- Tinned copper braid strap for superior operation
- Back up bonding features for redundancy
- Tested over 4.500 hours of operation
- 11 positioning holes to suit most drive shafts
- 316 marine grade stainless steel pivot arm and mount
- Includes conductive lubricant for best efficiencies
- Spring loaded locking pins for easy adjustment
- MPS.SS07, recommended 1-4" shafts, 320mm braid length
- MPS.SS10, recommended 3-6" shafts, 430mm braid length
- 250mm long x 24mm wide stainless arm

MAD MPS.SS07 Shaft strap
MAD MPS.SS10 Commercial shaft strap

Electro-Guard Heavy Duty Shaft Wiper Assembly



- Heavy duty shaft wiper suitable for use on propeller shafts up to 1.5" diameter
- Functions as an electrical contact to provide cathodic protection current to shafts and propellers
- Stainless steel
- L: 13-1/2" x W: 1-1/2" x D: 1/16"

ELE HDSB Large shaft brush
Parts:
ELE 6B-2 Replacement shoe

Electro-Guard Shaft Wiper Assembly



- Standard duty shaft wiper suitable for use on propeller shafts up to 1.5" diameter
- Functions as a sense wiper for cathodic protection monitoring systems
- Stainless steel
- L: 13-1/2" x W: 3/4" x D: 1/16"

ELE SB6B Standard shaft brush
Parts:
ELE 6B-1 Replacement shoe

Electro-Guard Shaft Wiper Mount



- Mount is designed to work with the Electro-Guard SB6 and HDSB Shaft Wipers
- Allows the shaft wiper to be mounted on the engine stringer for extended reach
- Plastic
- L: 7-1/2" x W: 3-1/2" x D: 5-1/2"

ELE WM1

Newmar Galvanic Isolators



- Meets latest ABYC A-28 2015 standards, including fail-safe
- UL1500 ignition protected
- Tested to 50°C ambient temperature
- Large capacitor provides a secondary low impedance path for AC current to the ground
- Fail-safe feature ensures ground maintenance connection in event of isolator failure
- Maximum short circuit: 5000A
- Stray current protection: Up to 1.4V
- Shore power voltage: 115-230V

Part #	Amps	lb	Dimensions (LxWxH)
NEW GI-30FS	30	4.24	7.87" x 7.44" x 2.7"
NEW GI-60FS	60	5.16	9.05" x 7.44" x 2.7"

ProMariner ProSafe FS Galvanic Isolator



ProSafe FS installs easily and does not require a dedicated monitor to verify the operational status of the galvanic isolator as required by non FailSafe Certified galvanic isolators.

- Built on a robust FlatPack semiconductor platform (in the event of a failure, the ground continuity on-board is not compromised when connected to AC Shore Power)
- ABYC A-28 July '08 Compliant and Fail Safe Certified
- Certified by Underwriters Laboratories (UL)
- Robust high power diodes
- Ignition Protected
- Meets ISO 8846, can be mounted in an engine room
- Shore cord inlet compatibility: Single 15, 16, 20 or 30
- Gold plated terminations
- Input: 120 VAC, 50/60Hz
- L: 6.75" x W: 7" x H: 2.5"
- 3 lb

PRO 22034

SEA-DOG® LINE

QUALITY MARINE GEAR



HARDWARE MADE EASY

EXPERIENCE THE SEA-DOG DIFFERENCE



671497
Folding Coat Hook



431431 (also available as High-Tone)
Low-Tone Mini Compact Horn w/ Bracket



520860 (options available)
Dripper Guard® by Sea-Dog Thru-Hull w/ Stainless Cap



520830 (options available)
90° Thru-Hull w/ Stainless Cap



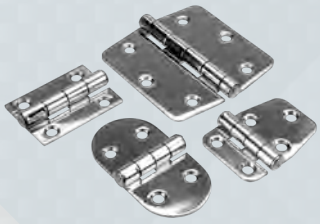
336410 (options available)
Low Profile Pop-Out Deck Plate



076102
Recessed Anchor Point / Horizontal



254601 (options available)
Stud Mount Handrail
Available with and without flanges, in matte black or stainless finish

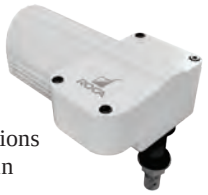


Dampening Hinges
Full line of styles and sizes featuring an ultra-smooth slow-close mechanism.

SEA-DOG.COM

Wipers & Accessories	Wipers	04-002 to 010
	Windshield Wash Systems	04-010
Cleats, Chocks, & Deck Pipes		04-011 to 015
Deck Fills & Deck Plate Keys		04-016 to 019
Rail Fittings	Rail Fittings / Tubing	04-020 to 023
	Handrails	04-024
	Boat Top Fittings	04-024 to 027
Ladders, Steps, & Non-Slip Tapes		04-028 to 032
Flag Poles, Flag Holders, & Flags		04-032 to 033
Ventilation	Bilge Blowers / Collector Boxes	04-034 to 035
	Vents	04-035 to 039
	Tank Vents	04-039 to 041
Deck Plates		04-041 to 043
Hatches & Portlights		04-043 to 048
Hatch Adjusters & Gas Springs		04-048 to 051
Moldings & Rub Rail	Molding / Rub Rail / Trim	04-052 to 056
	Weather Seals / Drip Rail	04-056 to 057
	Stazo Marinedeck / Starboard	04-057
Cabinet Hardware	Door Latch Sets	04-058 to 059
	Latches / Pulls / Glove Boxes / Catches	04-059 to 065
	Barrel Bolts / Hasps / Hold Down Clamps	04-066 to 068
	Door Hooks / Handles / Pulls	04-069 to 070
	Hinges	04-071 to 076
	Coat & Utility Hooks	04-077 to 078
Brackets & Storage Clips		04-078 to 079

Roca Industry W12 Wiper Motors





- Outside or inside mounting
- 12 Nm torque
- Powers up to 24" x 22" arm/blade combinations
- Dual speed: 35 sweep/min and 55 sweep/min
- Adjustable sweep angle from 45° to 110°
- Insulated ground
- EMC protected
- IP65
- Stainless steel driveshaft
- Self-parking, left or right
- L: 6.69" x H: 3.94" x D: 2.32"
- M16 thread
- 3 year warranty

ROC 533011	12V, 1", White
ROC 533511	12V, 1", Black
ROC 533021	12V, 2", White
ROC 533521	12V, 2", Black
ROC 533031	12V, 3", White

Roca Industry W25 Wiper Motors



- Heavy duty single-driven wiper motor
- Powers up to 30" pantographic or pendulum arms and blades
- Dual speed: 35 sweep/min and 55 sweep/min
- Adjustable sweep angle from 45° to 110°
- Internal thermo switch
- Insulated ground
- EMC protected
- Stainless steel driveshaft
- Dynamic parking can be changed from left to right
- Inner shaft: in 1" or 2" thread lengths
- L: 7.64" x H: 4.53" x D: 4.09"
- M20 thread
- 3 year warranty

ROC 531015	12V, 1"
ROC 531016	24V, 1"
ROC 531025	12V, 2"
ROC 531026	24V, 2"

Roca Industry W38 Wiper Motors



- Heavy duty single-driven wiper motor
- Powers up to 35" pantographic or pendulum arms and blades
- Dual speed: 35 sweep/min and 55 sweep/min
- Adjustable sweep angle from 45° to 110°
- Internal thermoswitch
- Insulated ground
- EMC protected
- Stainless steel driveshaft
- Dynamic parking can be changed from left to right
- Inner shaft: in 1" or 2" thread lengths
- L: 8.27" x H: 4.69" x D: 4.92"
- M20 thread
- 3 year warranty

ROC 531017	12V, 1"
ROC 531018	24V, 1"
ROC 531027	12V, 2"
ROC 531028	24V, 2"

Roca Industry W38 Dual Wiper Motors



- Heavy duty dual drive motor
- Powers up to 35" arms and blades
- Dual speed: 35 sweep/min and 55 sweep/min
- Adjustable sweep angle from 45° to 110°
- Internal thermo switch
- Insulated ground
- EMC protected
- Stainless steel driveshaft
- Dynamic parking can easily be changed from left to right
- Inner shaft: in 1" or 2" thread lengths
- L: 8.27" x H: 4.69" x D: 4.92"
- M20 thread
- 3 year warranty

ROC 531011	12V, 1"
ROC 531012	24V, 1"
ROC 531021	12V, 2"
ROC 531022	24V, 2"

Roca Industry Wiper Control



- User-friendly, all-in-one wiper control system suitable for one low power wiper motor with a parking switch
- Single or double speed motors
- Three intermittent settings
- One or two continuous speeds; slow and high speed
- Motor brake
- Wash/Wipe program
- No screws required - pigtails are included

ROC 532311

Roca Industry Wiper Control, Single Motor



- Control for single wiper motor
- Full control of wiper, including interval, speed, and washer output
- Small and easy to install
- Includes switch and cable
- Plastic construction
- 12/24V
- L: 3.9" x W: 1.3" x D: 2.32"

ROC 532201

Roca Industry Wiper Control, 1-3 Motor

NEW



- Controls from 1 to 3 wiper motors (W10 or W12) with synchronized sweeps and multiple speed settings
- Speed settings: 5 second interval, low speed (35 sweep/min), high speed (55 sweep/min), and washing function
- Minimizes interference with other electronics
- Completely powerless when turned off; no standby consumption
- 12/24V

ROC 532083

Roca Industry
Wiper Control, 2-5 Motor





Visible fixing panel



Concealed fixing panel

Wiper control system for 2 to 5 wiper motors. With the microcontroller-based control panel you can operate each wiper separately.

- System is composed of one control panel (or switch) and one control box, which are sold separately
- Fits Roca W10, W12, W38, W38L, W25, and W50
- Three intermittent speeds
- One or two continuous speeds
- Synchronized sweeps at any mode
- Motor brake
- Washing program
- An additional control panel can be added to work from different stations



ROC 532212	Control Box, 2 wiper
ROC 532213	Control Box, 3 wiper
ROC 532215	Control Box, 5 Wiper
ROC 532223	Panel, Visible fixing, 3 wiper
ROC 532225	Panel, Visible fixing, 5 wiper
ROC 532232	Panel, Concealed fixing, 2 wiper
ROC 532200	Switch and cable set

Roca Industry
Adjustable Wiper Arms



- AISI 304 stainless steel
- Adjustable length, and tip is adjustable ±40°
- J-hook connection fits most wiper blades

ROC 536218	12.8" - 18", Electropolished
ROC 536224	18" - 23.3", Electropolished
ROC 538212	9.5" - 12", Black
ROC 538218	12.8" - 18", Black
ROC 538224	18" - 23.3", Black

Roca Industry
Adjustable Wiper Arms



- AISI 304 stainless steel
- Pendulum wiper arm with adjustable length, and tip is adjustable ±40°
- 16mm saddle width
- Includes wiper blade adapter and spray nozzle

ROC 536235	25" - 35", Electropolished
ROC 538230	18" - 30", Black
ROC 538235	25" - 35", Black

Roca Industry
Pantographic Arms



- AISI 304 stainless steel
- Pantographic arm with adjustable length
- J-hook connection fits most wiper blades

ROC 536318	12.8" - 18", Electropolished
ROC 536324	18" - 23.3", Electropolished

Roca Industry
Pantographic Arms



- AISI 304 stainless steel
- For single drive motors
- Pantographic arm with adjustable length
- 16mm saddle width
- Includes wiper blade adapter and spray nozzle

ROC 536330	18" - 30", Electropolished
ROC 538330	18" - 30", Black

Roca Industry
Pantographic Arms



- AISI 304 stainless steel
- For dual drive motors
- Pantographic arm with adjustable length
- 16mm saddle width
- Includes wiper blade adapter and spray nozzle

ROC 536335	25" - 35", Electropolished
ROC 538335	25" - 35", Black
ROC 538430	18" - 30", Black

Roca Industry Wiper Blades

- Natural rubber and stainless steel with anti-glare paint
- Suitable for wiper arms with a saddle width of 16mm

ROC 520809	9"
ROC 520818	18"
ROC 520820	20"
ROC 520822	22"
ROC 520824	24"
ROC 520828	28"
ROC 520830	30"
ROC 520832	32"
ROC 520833 **	33"
ROC 520834	34"



** While Stock Lasts

Roca Industry
Wiper Tank Set



- 2.5 litre tank with pump
- Plastic tank
- Stainless steel bracket
- Includes T-connection and mounting attachment
- 12V, max 3.5A
- H: 8.9" x W: 4.92" x D: 5.91"

ROC 531161

Roca Industry Accessories

ROC 531147	Bulkhead fitting, Max 80 mm
ROC 531153	Wash hose, 3/16"
ROC 531157	Spray kit, includes nozzle and tube
ROC 531333	Plate and shaft for pantographic arm




Wexco Heavy Duty Wiper Motors - 4R Series

- NOTE: Use only with Wexco 4R/4A series arms
- These wiper motors offer reliable performance driving arms and blades up to 600mm/24"
- Motor: 14 N-m torque, 12 volt, CE certified
- Speeds: low: 35 sweeps/min, high: 55 sweeps/min
- Park: coast-to-park circuitry; set to park left or right
- Pivots: available in 1", 2", 3"; shaft diameter: 1/2"
- Sweep: 40-110 degrees, in 10 degree increments
- Case: weatherproof, UV resistant
- 5/8" shaft diameter, 1/2" drive
- L: 7-3/4" x H: 4" x D: 2-1/4"

WEX 4R1.12R110CEB	1" threaded shaft, black
WEX 4R1.12.R110CE	1" threaded shaft, white
WEX 4R2.12R110CEB	2" threaded shaft, black
WEX 4R2.12.R110CE	2" threaded shaft, white
WEX 4R3.12R110CEB	3" threaded shaft, black
WEX 4R3.12.R110CE	3" threaded shaft, white
Parts:	
WEX 400300	Hardware Kit, includes nut, washer, seal




Wexco Sealed Wiper Motors - 4A Series

- NOTE: Use only with Wexco 4R/4A series arms
- These wiper motors offer reliable performance driving arms and blades up to 600mm/24"
- Sealed with an integrated aluminum cover to IP66 standards
- Motor: 18 N-m torque, 12 volt, CE certified
- Speeds: low: 25 sweeps/min, high: 55 sweeps/min
- Park: coast-to-park circuitry; set to park left or right
- Pivots: available in 1", 2", 3" lengths; shaft diameter: 1/2"
- Sweep: 40-110 degrees, in 10 degree increments
- Case: aluminum, weatherproof
- Color coded wiring for high speed, low speed, park, and ground
- 5/8" shaft diameter, 1/2" drive
- L: 7-1/2" x H: 4" x D: 2-1/2"

80° preset sweep

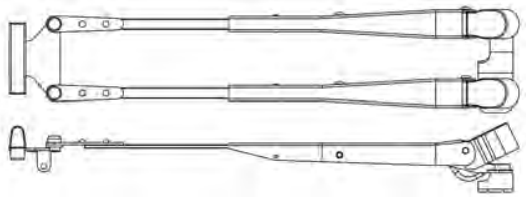
WEX 4A1.12.R80CEB	1" threaded shaft, black
WEX 4A1.12.R80CE	1" threaded shaft, white
WEX 4A2.12.R80CEB	2" threaded shaft, black
WEX 4A2.12.R80CE	2" threaded shaft, white
WEX 4A3.12.R80CEB	3" threaded shaft, black
WEX 4A3.12.R80CE	3" threaded shaft, white

110° preset sweep

WEX 4A2.12.R110CE	2" threaded shaft, white
Parts:	
WEX 400300	Hardware Kit, includes nut, washer, seal

► Note *Shaft sizes given are the thread length, not the overall length*

► Note *Motors also available special order as 24 volt and/or with a white powder coat finish.*




Wexco Pantographic Arms - 4R/4A Series

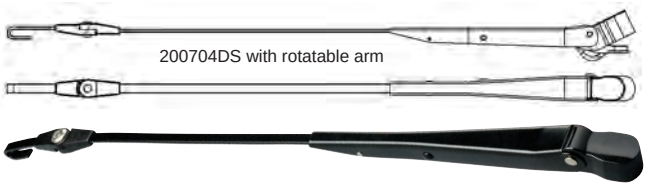
- Compatable with the 4R and 4A series wiper motors
- For windows that are taller than wide
- Adjustable length
- Black powder coated 304 stainless
- 1/2" drive diameter

WEX 200701DS	14" to 18"
WEX 200703DS	20" to 24"

Wet Kit

- Includes spray jet head, 26" hose, clips and a bulkhead adaptor

WEX WE19491	Wet kit
Accessories:	
WEX 19482	Hose connector 3/16"
WEX 200257	Bulkhead cowl fitting assembly, 3/16" hose



Wexco Radial Arms - 4R/4A Series

- Adjustable length
- Hook blade connection
- Black powder coated 304 stainless
- Standard or rotatable arm available
- 1/2" drive diameter

WEX 200722DS	8" to 11", standard arm
WEX 201211DS	11" to 14", standard arm
WEX 200704DS	14" to 18", rotatable arm
WEX 200705DS	18" to 22", rotatable arm
WEX 200706DS	20" to 24", rotatable arm



Wet Kit

- Includes spray jet head, 26" hose, clips and a bulkhead adaptor

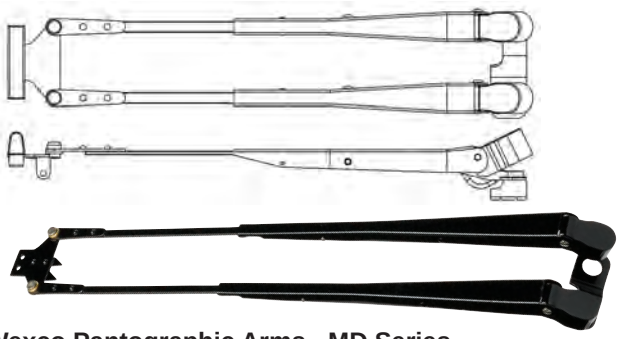
WEX WE19492	Wet kit
Accessories:	
WEX 19482	Hose connector 3/16"
WEX 200257	Bulkhead cowl fitting assembly, 3/16" hose

Wexco Compact Wiper Motors - MD Series

- NOTE: Use only with Wexco MD series arms
- For radial and pantograph arms and blades from 20" - 32"
- Two speed, 32 N-m motor provides plenty of torque
- Uses 5 wire switch
- Comes with 6 pin Deutsch connector
- Motor: 32 N-m torque; CE certified
- Stainless steel inner shaft: in 1", 2", or 3" thread lengths
- Speeds: Low speed = 40 sweeps/min, High speed = 60 sweeps/min
- Park: Dynamic park; user adjustable for park left or right
- Sweep: Infinite wipe angles from 40 degree - 108 degree; easily changed in the field



WEX MD2.12.D.A	12V, 2"
WEX MD3.12.D.A	12V, 3"
WEX MD1.24.D.A	24V, 1"
WEX MD2.24.D.A	24V, 2"
WEX MD3.24.D.A	24V, 3"



Wexco Pantographic Arms - MD Series

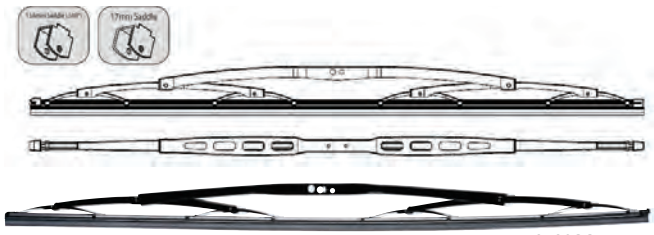
- Compatable with the MD series of wiper motors
- A12 x C8 DIN adjustable length 304 stainless steel arms
- Black powder coated 304 stainless
- DIN drive

WEX 200708DSR	20" to 24"
WEX 200712DS	26" to 32"

NOTE: New installations of the #200712DS require the SP-30260003 adapter below



WEX SP-30260003	Slave pivot adapter kit



13730SSM

Wexco 7 Series Wiper Blades

- An all-metal, solid bridge frame with multiple pressure points to ensure a uniform wipe across the windshield
- Articulated pinned joints, a dual stainless steel spine, a zinc coated frame, and a molded chlorinated rubber insert guarantee better stability and excellent performance
- 13.6mm saddle

WEX 13728SSM	28"
WEX 13730SSM	30"



13628M-C

Wexco 6M Series Wiper Blades

- Molded double chlorinated natural rubber elements
- Black powder coated 304 stainless
- Come with an adapter which allows them to fit 9x3 hook arms, and saddle arms

WEX 13612M-C	12"
WEX 13614M-C	14"
WEX 13616M-C	16"
WEX 13618M-C	18"
WEX 13620M-C	20"
WEX 13622M-C	22"
WEX 13624M-C	24"
WEX 13626M-C	26"
WEX 13628M-C	28"



Wexco Straight Blade

- Flat wiper

WEX 13120	20"

Wexco Parts

WEX 200241	Adapter plate
WEX 300637	Knurl, 3/8"

Marinco Wiper Arm Compatibility Chart

					Motor Compatability				
Part #	**Style**	**Wet/Dry**	**Length**	**Colour/Material**	**2.5**	**3000**	**1.5**	**1000**	**MRV**
Premier									
33084W	single	wet	15" - 20"	stainless/stainless	☑	☑	☑	–	☑
33086W	single	wet	20" - 25"	stainless/stainless	☑	☑	–	–	–
33090	pantographic	dry	12" - 17"	stainless/stainless	☑	☑	☑	–	☑
33092 **33092W**	pantographic	dry wet	17" - 22"	stainless/stainless	☑	☑	–	–	max 20" max 20" ≤ 80°
33094	pantographic	dry	22" - 26"	stainless/stainless	☑	☑	–	–	–
Deluxe Adjustable									
33006A	single	dry	6.75" -10.5"	stainless/stainless	☑	☑	☑	☑	☑
33007A	single	dry	10" - 14"	stainless/stainless	☑	☑	☑	☑	☑
33010A	single	dry	14" - 20"	stainless/stainless	☑	☑	☑	max 18" ≤ 80° max 16" @ 110°	☑
33012A	single	dry	10" - 14"	black/stainless	☑	☑	☑	☑	☑
33014A	single	dry	14" - 20"	black/stainless	☑	☑	☑	max 18" ≤ 80° max 16" @ 110°	☑
33070A	single	dry	18" - 24"	black/stainless	☑	☑	–	–	max 22"
Deluxe Pantographic									
33032A	pantographic	dry	12" - 17"	black/stainless	☑	☑	☑	–	☑
33037A	pantographic	dry	17" - 22"	black/stainless	☑	☑	☑	–	☑

Marinco Wiper Blade Compatibility Chart

	Deluxe Blades								Hybrid Blades						
Length	12"	14"	16"	18"	20"	22"	24"	26"	12"	14"	16"	18"	20"	22"	24"
Item #	34012S 34012B	34014S 34014B	34016S 34016B	34018S 34018B	34020S 34020B	34022S 34022B	34024S 34024B	34026S 34026B	32012B	32014B	32016B	32018B	32020B	32022B	32024B
Premier Wiper Arms															
Single Arm															
33084W	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
33086W	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
Pantographic Arm															
33090	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	80º only	80º only	80º only	–	–
33092 **33092W**	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	80º only
33094	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
Deluxe Wiper Arms															
Single Arm															
33006A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	–	–	–	–
33007A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	–	–
33010A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
33012A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	–	–
33014A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
33070A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
Pantographic Arm															
33032A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	–	–
33037A	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

Pantographic wiper arms will only function properly with wiper motor sweep angles 80° or less

Marinco "MRV" Heavy Duty Wiper Motors





- Left or right parking
- Accommodates blades 16" to 24"
- 12 volt draws max: 3.5 amp
- Includes 5 amp fuse and holder
- 2 speed motor
- Selectable 45º, 60º, 80º or 110º sweep
- 5/8" shaft diameter, 1/2" drive
- 12VDC
- L: 7-7/16" x W: 4" x D: 2"
- 3 year warranty
- Not recommended for exterior use

Part #	Volts	Length	Sweep
MAR 34000	12	2-1/2" shaft	80°
MAR 34001	12	1-1/2" shaft	80°
MAR 34005	12	3-1/2" shaft	80°
MAR 34011	12	1-1/2" shaft	110°
MAR 34210	24	2-1/2" shaft	110°

Requires the use of a three position switch.
Accessories:

MAR 33025 Motor cover - White

Marinco Heavy Duty Wiper Motors



- Fully sealed powder coated aluminum waterproof base and housing
- Factory preset sweep angles of 80° or 110°, with easy adjustment to 45° or 60°
- Chrome plated solid brass knurled drive nut with brass and stainless steel drive shaft
- Two speed motor
- Sealed 6" wire leads, 16 AWG
- Adjustable right or left self parking (coast to park)
- 5/8" shaft diameter, 1/2" drive
- RF shielded circuitry filters noise from electronics
- 12VDC
- 3 year warranty

Marinco HD 1.5 Wiper Motors

- Powers up to a 22" deluxe arm and deluxe blade combination or a 20" Premier arm and Premier blade combination
- Includes 5 amp fuse and holder
- L: 7-3/4" x W: 4" D: x 2-3/4"

Part #	Shaft Length	Sweep
MAR 71012	2-1/2"	110°
MAR 71081	1-1/2"	80°
MAR 71082	2-1/2"	80°

Marinco 1000 Series Heavy Duty Wiper Kits



- Waterproof housing of stabilized high impact thermal plastic
- Max current draw: 5 amps
- Kit includes #31014B 14" polymer blade and #33007 deluxe adjustable arm
- Up to 16" x 16" arm x blade combination recommended
- Self parking left or right
- Includes 5 amp fuse and holder
- 5/8" shaft diameter, 1/2" drive
- 12VDC
- L: 6-5/8" x W: 3-3/8" x D: 2"
- 3 year warranty

Part #	Description	Shaft Length	Sweep
MAR 37100	Frame mount kit	2-1/2"	80º
MAR 37200	Frame mount kit	2-1/2"	110º
MAR 37110	Motor only	2-1/2"	110º
MAR 37180	Motor only	2-1/2"	80°

Marinco MAR-500 Standard Wiper Kits



- Waterproof housing made of UV stabilized, high-temperature, high-impact thermoplastic
- Maximum current draw: 2 amps
- Includes 11" deluxe curved blade 33004 and deluxe adjustable arm 33006AS
- 1/2" shaft diameter
- Self parking
- Frame mount
- Shaft length: 2-1/2"
- 12VDC

MAR 30004 80°
MAR 30005 110°

Marinco STD Standard Wiper Kits



32000

- Case construction is of corrosion-proof, aluminum alloy
- Base plate and mounting plate are naval brass with heavy chrome plating
- Black crackle, nonreflective finish
- Includes 11" deluxe curved blade 33004 and deluxe adjustable arm 33006AS
- Self parking
- Not waterproof - Interior installations only
- 3/8" shaft diameter, 1/4" drive
- 12VDC, max. 2 amp draw

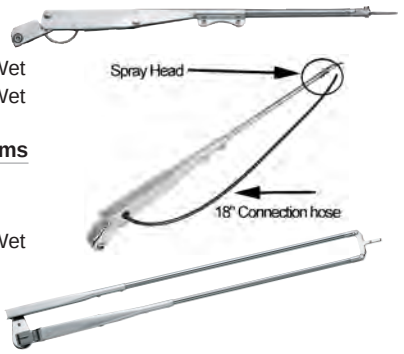
Part #	Description	Shaft Length	Sweep
MAR 32000	Frame mount	2-1/2"	80º
MAR 32001	Deck mount	3-1/2"	80º
MAR 32002	Frame mount	2-1/2"	110º

► *Also See* Wiper Motor Switches pg 02-004

Marinco
Premier Wiper Arms

- 316 Stainless steel and brass construction
- Features "Articulating/Bend-Back" design that locks the arm in an upright position for window cleaning
- Chrome plated solid brass motor shaft mount with set screw for a secure installation
- 1/2" drive diameter

*Wet version has a built-in, two sided spray head and hose (with 18" lead)



Premier Arms

MAR 33084W	15" - 20" Wet
MAR 33086W	20" - 25" Wet

Pantographic Premier Arms

MAR 33090	12" - 17"
MAR 33092	17" - 22"
MAR 33092W	17" - 22" Wet
MAR 33094	22" - 26"

Marinco
Deluxe Stainless Steel Wiper Arms

- Articulating/bend back feature
- Set screw motor shaft clamping
- 1/2" drive diameter



MAR 33006A	6-3/4" to 10-1/2"
MAR 33007A	10" to 14"
MAR 33010A	14" to 20"

*Includes 1/4" to 1/2" shaft adapter

- Black epoxy coated stainless steel



MAR 33012A	10" to 14"
MAR 33014A	14" to 20"

Pantographic Wiper Arms

- Adjustable pantographic stainless steel arm



MAR 33032A	12" to 17"
MAR 33037A	17" to 22"

► Note *Pantographic arms will only function properly with a sweep angle of 80° or less.*

Marinco
Hybrid Wiper Blades



- Conforms to all windshield shapes and reduces wind lift while underway
- Performance tested to 500,000 cycles
- Black multi-material construction for maximum flexibility and durability

MAR 32012B	12"
MAR 32014B	14"
MAR 32016B	16"
MAR 32018B	18"
MAR 32020B	20"
MAR 32022B	22"
MAR 32024B	24"



Marinco
Deluxe Stainless Steel Wiper Blades

- Works well on curved or flat windshields
- All stainless steel construction
- Marine grade silicone squeegee

MAR 34012S	12"
MAR 34014S	14"
MAR 34016S	16"
MAR 34018S	18"
MAR 34020S	20"
MAR 34022S	22"
MAR 34024S	24"
MAR 34026S	26"
MAR 34012B	12", Black
MAR 34014B	14", Black
MAR 34016B	16", Black
MAR 34018B	18", Black
MAR 34020B	20", Black
MAR 34022B	22", Black
MAR 34024B	24", Black
MAR 34026B	26", Black



Marinco
Classic Straight Stainless Steel Wiper Blade

- Replaces blades on boats manufactured before 1990
- Straight - Hook & Catch
- Not for use with MAR deluxe and standard arms

MAR 33901	11"

Sea-Dog Wiper Arms



- Adjustable J-hook style wiper arms
- Fits a 5/8" splined wiper motor shaft
- Black powder coated 304 stainless

SED 413168B-1	13" - 18"
SED 413174B-1	19" - 24"

Sea-Dog Wiper Arms



- Adjustable wiper arm
- Formed 304 stainless steel
- 1/2" drive diameter

SED 413111B-1 †	6-3/4" to 10-1/2" Black
SED 413114B-1 †	10" to 14" Black
SED 413120B-1	14" to 20" Black
SED 413124B-1	18" to 24" Black
SED 413114S-1 †	10" to 14" Silver
SED 413118S-1	12" to 18" Silver
SED 413120S-1	14" to 20" Silver
SED 413124S-1	18" to 24" Silver

† Includes 1/4" to 1/2" shaft adapter

Sea-Dog Pantographic Arm



- Adjustable pantographic wiper arm
- 304 stainless steel
- 1/2" drive diameter

SED 413322-1	17" to 22"

Sea-Dog Stainless Steel Wiper Blades



- 304 stainless steel

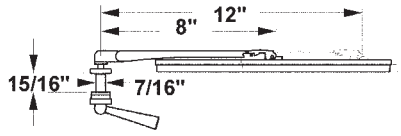
SED 414212B-1	11-1/2" Black
SED 414214B-1	14" Black
SED 414216B-1	16" Black
SED 414218B-1	18" Black
SED 414220B-1	20" Black
SED 414222B-1	22" Black
SED 414212S-1	11-1/2" Silver
SED 414214S-1	14" Silver
SED 414216S-1	16" Silver
SED 414218S-1	18" Silver
SED 414220S-1	20" Silver
SED 414222S-1	22" Silver

Sea-Dog Hook Style Wiper Blade



- Old style wiper blade will fit most older wipers, including Sea-Dog wipers prior to 1993, AFI, Wilcox, NA Taylor, GEM, L.S. Brown, and others
- Blades do not fit 413 series arms

SED 411111-1	11"



Sea-Dog Manual Windshield Wipers

- Combination chromed brass & stainless steel construction
- Comes with an 11" blade
- For up to 15/16" panel thickness

SED 412601-1

Parts:

SED 411151-1	11" blade only
SED 411154-1	14" blade only

Sea-Dog Windshield Wiper Kits



- Self parking windshield wiper
- Stamped powder coated steel cover
- Adjustable standard wiper arm (11" - 13") and an 11" blade
- Pre-wired for 12 volt DC systems
- 3/8" shaft diameter, 1/4" drive

SED 412421B-1	110°
SED 412428B-1	80°

Sea-Dog Waterproof Windshield Wiper Kits



- Self parking windshield wiper
- Waterproof standard motor
- Adjustable standard wiper arm (11" - 13") and an 11" blade
- Pre-wired for 12 volt DC systems
- 3/8" shaft diameter, 1/4" drive

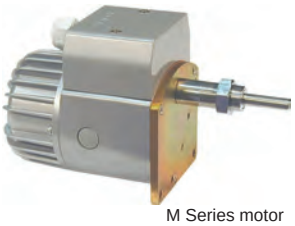
SED 412421W-1	110°
SED 412428W-1	80°

► *Also See* Wiper Motor Switches pg 02-004

speich

Speich from Italy is a specialized high quality manufacturer of windshield wiper blades, arms, motors, clear view units, control panels and washing devices. They build according to demanding standards, such as ISO 9002, and do work for such customers as the Italian Navy.

Speich Heavy Duty Wiper Systems



M Series motor

Heavy duty wiper systems for large yacht and commercial applications. All systems are custom engineered for each situation.

Motor unit type M is designed to be used on medium sized windscreen wipers installed on work boats for civil and military applications. This motor has a variable wiping angle and it is designed for heavy duty applications. Self-parking position, can be set either left or right. Available rated voltage DC: 12V - 24V - 110V - 220V, AC: 110V - 220V.

Motor unit type S is used with arms up to 1200mm and blades up to 1300mm in length are needed. This motor has variable wiping angle and it is designed for heavy duty applications. Self-parking position, can be set either left or right.

Motor unit type SF is used when it is necessary to employ a powerful wiper with arms up to 1200mm and blades up to 1300mm length. This motor units is equipped with an electromagnetic brake in order to have a stable park position.

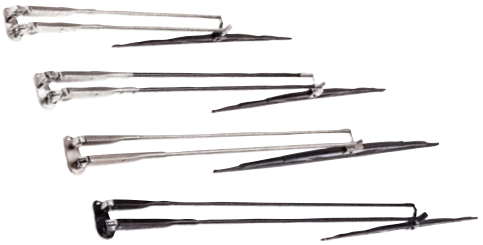
Speich Rocker Switch



- Suitable to drive two speed wiper motors that don't require dynamic parking
- 3-position (ON-ON-ON)
- Volts: 20A @ 12VDC, 15A @ 24VDC
- Cutout: 21 x 37mm

SWP ESB * 12 - 24 V

* Special Order - may have stock



Speich Commercial Wiper Arms

All arms are custom made using AISI316 stainless steel with the standard finish being hand-polished (Black arms are available on request).

Speich Commercial Wiper Blades

Available in three styles:

- MG series for all flat surfaces 300,350,400,450,500mm lengths
- AR series for flat and curved surfaces (anti ice cover). 390, 470mm lengths
- BH series for flat and curved surfaces 600, 700, 800, 1000mm lengths

Please call us or visit www.speich.it for more information



Speich Commercial Wiper Arms

- Adjustable between 11 and 22"
- Fits on any 1/2" shaft
- 316 stainless steel with brushed finish
- Very heavy duty
- Fits standard blades

SWP E-95-P * Pantographic Style

SWP E-95-F * Pendulum Style

* Special Order - may have stock

Marinco Windshield Washer Kit



Kit includes everything needed for the installation of a washer system on two Marinco Deluxe wiper arms.
Includes: water tank, 12V pump motor, two thru-deck nozzles, tee fitting, two spray nozzles, 16' of below deck clear plastic tubing, and 6' of above deck black tubing.
Also includes 4 clips to attach tubing to the extension portion of wiper arm, and 4 clips to attach tubing to the main portion of the arm.

- Designed to install on Marinco Deluxe wiper arms and blades (may not be compatible with other brands)
- Easy to install using basic tools
- Each spray head has four adjustable nozzles
- Spray nozzles snap onto the end of the wiper arm providing complete spray coverage
- Water tank capacity: 3 Litres/3.2 quarts
- Water tank dimensions: H: 9-1/4" x W: 7" x D: 4-1/2"

User supplied items needed for installation: 3A fuse and carrier, 3A minimum momentary on/off switch, and black and white stranded wire.

MAR 33505 Complete kit

Above Deck Kit for One Small Arm

Includes:small rivet clip, wiper arm clips, sprayer fitting with narrow clamp, thru deck fitting and 6' of above deck black tubing.

MAR 33517 Single arm kit

Sea-Dog Windshield Washer Kit



This windshield washer kit comes complete with everything needed for a new installation

- Kit includes: Tank with pump, wiring harness for the pump motor connection, toggle switch, 15' of clear tubing, hose barb tee, two spray nozzles and mounting bracket
- Tank capacity is 2.5 liters/2.66 quarts
- Two #10 RH installation fasteners included
- 12VDC
- H: 8-1/2" x W: 4-7/8" x 3-7/8"

SED 414900-3

Accon Marine Folding Stainless Cleats



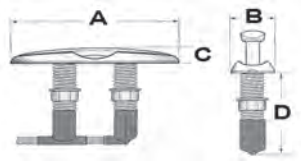
- Mounts on surface of boat
- No cut-outs or hole saws required
- Cleat locks down when not needed, and springs up when locking slide is retracted
- No drain tubes or drain receptacles required
- Constructed of marine grade 316 cast stainless steel

ACC 333-4 2-3/8" x 6-1/4"
ACC 332-6 3-1/4" x 7-1/2"

Attwood Stainless Neat Cleats



- Retractable cleats with a slim profile that install easily on narrow gunwales
- Cleats stays up when pulled up and, when lowered, are only 1/2" above deck
- Its neat, continuous contour to prevent snags and stubbed toes
- Post rods are 7/16" solid stainless steel
- Drainage receptacles (included) press-fit onto the threaded studs to capture moisture and send it to the bilge
- The receptacle outlet is sized for standard 1/4" pitot tubing (not included)



Part #	A	B	C	D	
ATT 66515-1	4-1/2"	1-5/16"	1/2"	3-1/8"	Bulk
ATT 66515-7	4-1/2"	1-5/16"	1/2"	3-1/8"	Pkg
ATT 66517-1	6"	1-1/2"	1/2"	3-1/8"	Bulk
ATT 66517-7	6"	1-1/2"	1/2"	3-1/8"	Pkg
ATT 66519-1	8"	1-15/16"	3/4"	3-3/4"	Bulk
ATT 66538-1 *	10"	2-7/16"	13/16"	5-1/4"	Bulk

* Special Order - may have stock

Sea-Dog Folding Stainless Cleat



- Investment cast 316 stainless steel construction
- Stud mount
- L: 6-7/16" x W: 2-1/8" x D: 2-9/16"

SED 041404-1

Sea-Dog S-Style Pull-up Stainless Cleat



- Recess flush to the deck
- Includes backing plate
- L: 6-1/4" x W: 1-1/2" x D: 2-9/16"

SED 041304-1

Sea-Dog Folding Stainless Cleat



- Positive locking feature with audible click
- Fits up to 1/2" line
- Hidden removable hex bolts (1/4"-20 x 2"), washers, and nuts are included
- L: 5" x W: 1-11/16" x D: 1/2"

SED 041115-1

Sea-Dog Folding Stainless Cleat



- Positive locking feature with audible click
- Fits up to 1/2" line
- Installs with two 1/4"-20 through bolts (not included)
- L: 5" x W: 1-11/16" x D: 1/2"

SED 041125-1

Whitecap Folding Cleat



- Great for use as a fender holder
- 316 stainless steel
- L: 2-1/2" x W: 1-1/2" x H: 1-3/8"
- Use (2) #10 fasteners

WHI 6742

Whitecap Folding Cleats



- 316 stainless steel, except 6744B = black ion coated stainless steel
- Use (2) 1/4" fasteners
- 6744LED includes 12V LED light with 6" wire leads

Part #	Length overall	Length Cleat	Height	Width	Max Rope
WHI 6744	4-9/16"	4-1/2"	1-1/2"	1-3/8"	1/2"
WHI 6744B	4-9/16"	4-1/2"	1-1/2"	1-3/8"	1/2"
WHI 6744LED	4-9/16"	4-1/2"	1-1/2"	1-3/8"	1/2"
WHI 6746	6"	6"	1-13/16"	1-15/16"	3/4"
WHI 6748	8"	8"	2-5/16"	2-1/2"	1-1/16"

Whitecap 3-Hole Folding Cleats

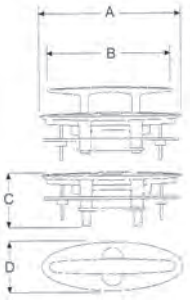


- For top mount applications where depth under the deck is a concern or when thin gunnel material does not provide proper strength to pass pull-test
- L: 4-9/16"(overall) / 4-1/2"(cleat) x W: 1-3/8" x H: 1-1/2"
- Fits 1/2" rope maximum
- Use (2) 1/4" fasteners

WHI 6745 316 stainless steel
WHI 6745B Black ion coated stainless steel

Attwood Pull-Up Stainless Cleats





- 316 stainless steel construction
- Easy to operate–simply pull up the cleat from its body
- Designed for safety–cleat recesses below deck when not in use
- Water resistant–cleat recesses into cast body and is captured with rubber seals and ball detents
- Durable–cast stainless steel construction and simple design assures long-life and dependable operation
- Stud mount, flush cleat

Part #	Description	A	B	C	D
ATT 66512-7	4-1/2"	5-1/4"	4-1/2"	3-1/8"	2"
ATT 66516-7	6"	7"	6"	3-1/3"	2-3/8"
ATT 66524-1	8"	8-1/2"	7-3/4"	3-7/8"	2-13/16"

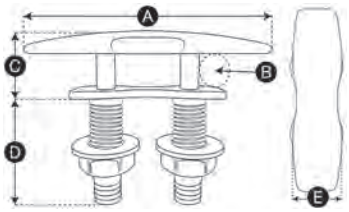
Sea-Dog Pull-up Stainless Cleats



- Investment cast 316 stainless steel
- Recess flush to the deck
- Fasteners are hidden and will accept optional drain fittings (sold separately) for water drainage to bilge
- Backing plates sold separately
- 7/8" mounting holes

SED 041426 L: 6-1/4" x W: 1-3/8" x D: 3", 2-1/4" hole centre
SED 041428 L: 8-1/2" x W: 2-1/8" x D: 3-7/16", 2-13/16" hole centre





Whitecap Pull Up Cleats

- 316 stainless steel with high shine finish
- Contoured body with absolute flush
- For use in both fresh and salt water

Part #	A	B	C	D	E
WHI 7719	6"	1"	1-1/2"	2-13/16"	1-1/2"
WHI 7720	8"	1-1/4"	1-7/8"	5"	1-1/4"
WHI 7721	10"	1-1/2"	2-3/16"	3-1/2"	1-7/8"



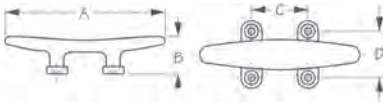


Sea-Dog Herreshoff Pattern Stainless Cleats

- Investment cast 316 stainless steel

Part #	A	B	C	D	Fastener
SED 041604	4"	5/16"	1-3/4"	1"	#10 FH
SED 041604-1	4"	5/16"	1-3/4"	1"	#10 FH
SED 041605-1	5"	1-1/8"	2-1/8"	1"	#10 FH
SED 041606-1	6"	1-1/4"	2-1/4"	1-1/8"	1/4" FH
SED 041608-1	8"	1-1/2"	2-13/16"	1-3/8"	1/4" FH
SED 041610-1	10"	1-7/8"	3-5/8"	1-3/4"	5/16" FH
SED 041612-1	12"	2-1/8"	3-3/4"	1-7/8"	5/16" FH
Heavy Duty					
SED 041708	8"	2"	3-5/16"	1-3/4"	1/4" FH
SED 041710	10"	2-3/8"	3-3/4"	1-7/8"	5/16" FH

Suffix (-1) indicates display package.





Sea-Dog Low Profile Stainless Cleats

- Investment cast 316 stainless steel

Part #	A	B	C	D	Fastener
SED 041906-1	6"	1-1/4"	2-1/16"	1-5/8"	1/4" FH
SED 041908-1	8"	1-11/16"	2-1/4"	1-5/8"	1/4" FH





Transat Open Base Stainless Cleats

Part #	A	B	C	D	Fastener
TMS Q30002	4"	1"	2"	15/16"	#10 FH
TMS Q30002-P					
TMS Q30003	5"	1-1/8"	2-1/4"	1"	#10 FH
TMS Q30003-P					
TMS Q30004	6"	1-3/16"	2-3/8"	1-1/8"	1/4" FH
TMS Q30004-P					

Suffix (-P) indicates display package.



Perko Open Base Chrome Cleat

- Chrome plated zinc w/black plastic base

Length	Base	Max Line	Fastener	Qty
PER 1326-DP2-CHR				
5-3/4"	3-5/8" x 7/8"	1/2"	1/4"	Each

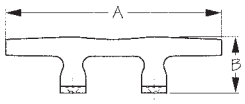
► Also See Dock Cleats pg 14-029

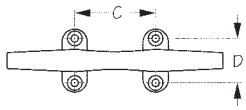
Perko Chrome Cleats



- Chrome plated zinc/black plastic
- Open base type

Length	Base	Max Line	Fastener	Qty
PER 1306-DP1-CHR				
4-1/2"	2-1/2" x 1-1/16"	3/8"	#10	2/pkg
PER 1306-DP2-CHR				
6"	3-1/2" x 1-3/8"	1/2"	1/4"	1/pkg



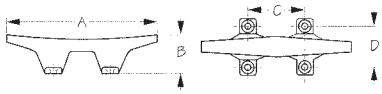


Sea-Dog Open Base Chrome Cleat



- Die cast zinc, chrome plated
- These cleats are interchangeable with Perko style 1188 cleats

Part #	A	B	C	D	Fastener
SED 044604-1	4"	1-1/4"	1-1/2"	1-1/16"	#10 FH



Sea-Dog 4-Hole Chrome Cleats



- Chrome plated die cast zinc

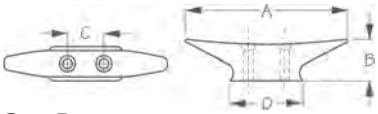
Part #	A	B	C	D	Fastener
SED 044104-1	4-1/2"	1-1/16"	1-3/4"	1-3/16"	#8 FH
SED 044106-1	6"	1-3/8"	2-3/16"	1-9/16"	#10 FH

Perko Streamline Chrome Cleat



- Chrome plated zinc
- 2/pkg

Part #	Length	Base Size	Max Line
PER 566-DP2-CHR	2"	2-3/16" x 1-1/8"	5/16"



Sea-Dog Closed Base Brass Cleats



- Polished cast brass
- 2/pkg

Part #	A	B	C	D	Fastener
SED 042103-1	3-3/16"	13/16"	11/16"	9/16"	#6 FH
SED 042104-1	4"	1"	3/4"	1-11/16"	#12 FH
SED 042105-1	5"	1-1/4"	1"	1-15/16"	#12 FH



Sea-Dog Line Brass Cleats



- Polished cast brass
- 2/pkg

Part #	A	B	C	D	Fastener
SED 672110-1	2-1/2"	1/2"	1/2"	1"	#6 FH
SED 672115-1	4-1/16"	3/4"	11/16"	1-1/2"	#8 FH

Whitecap Junior Cleat



- Chrome plated brass
- Cleat: 2-1/2" x 5/8"; Base: 1" x 7/16"
- Fits 1/8" rope maximum
- Use (2) #8 fasteners

WHI S-0541

Whitecap Fender Cleats



- Cleat: 2" x 7/8"; Base: 1-1/16" x 1-9/16"
- Fits 1/4" rope maximum
- Use (4) #6 fasteners

WHI S-0976 Chrome plated brass
WHI S-0976B Polished brass

Perko Cast Aluminum Cleats



- Plain aluminum finish

Part #	Length	Base Size	Max Line	Screw Size
PER 530-008-ALU	8"	4" x 2-1/4"	3/4"	1/2"
PER 530-010-ALU	10"	4-1/2" x 3"	7/8"	1/2"
PER 530-012-ALU	12"	6-1/2" x 2-7/8"	1"	5/8"





Perko Cast Aluminum Cleats

- Plain aluminum finish

Part #	Base Size	L	Max Line	Screw Size	Qty
Closed Base					
PER 545-DP3-ALU **	1-1/2" x 5/8"	3"	1/4"	#8	2
PER 545-DP4-ALU	1-5/8" x 3/4"	4"	5/16"	#10	2
Open Base					
PER 545-DP8-ALU	2-5/8" x 1-7/8"	8"	5/8"	1/4"	1

** While Stock Lasts

► *Also See* Dock Cleats pg 14-029

Sea-Dog Aluminum Cleats



- Sand cast aluminum

Part #	Length	Height	Fastener	Style
SED 046106-1	6"	1-3/8"	1/4" FH	Closed base
SED 046108-1	8"	1-7/8"	5/16" FH	Open base
SED 046110	10"	2-1/4"	3/8" FH	Open base



046046 / 046048



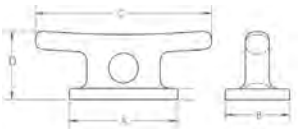
046210

Sea-Dog Weldable Aluminum Cleats

- Sand cast aluminum construction
- Weldable base for permanent installations
- Designed for use on aluminum vessels

Part #	Length	Height	Width
SED 046046	6"	1-3/8"	1-1/4"
SED 046048	8"	1-11/16"	1-3/8"
SED 046210	10"	2-7/8"	1-3/4"



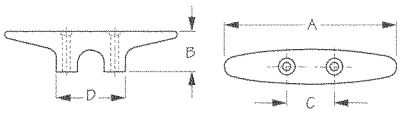


Fraser Bronze Cleats

- Cast from marine grade aluminum alloy

Part #	A	B	C	D
FRB FR-001.7	4.02"	1.8"	7.5"	2.33"
FRB FR-001.85	6.01"	3.07"	8"	3.23"
FRB FR-002.0	7"	4"	10"	3.5"
FRB FR-003.0	7.38"	4.35"	12.13"	4.4"
FRB FR-003.5	7.56"	4.25"	14"	4.5"
FRB FR-005.0	7.56"	4.31"	14.90"	4.5"
FRB FR-006.0	8.13"	5.25"	18"	5"

► *Also See* Dock Cleats pg 14-029





Sea-Dog Open Base Nylon Cleats

- Injection molded nylon

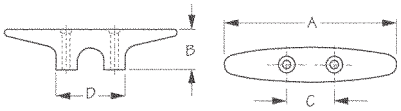
Part #	A	B	C	D	Fast	Qty
Black						
SED 043030	3"	11/16"	1"	1-5/8"	#6 FH	1
SED 043030-1	3"	11/16"	1"	1-5/8"	#6 FH	2
SED 043040-1	4"	7/8"	1-1/8"	2"	#6 FH	2
SED 043050	5"	1-1/16"	1-7/16"	2-1/2"	#10 FH	1
SED 043050-1	5"	1-1/16"	1-7/16"	2-1/2"	#10 FH	2
SED 043065-1	6.5"	1-3/8"	1-11/16"	2-15/16"	1/4" FH	1
SED 043080-1	8"	1-11/16"	2"	3-3/8"	1/4" FH	1
White						
SED 043051	5"	1-1/16"	1-7/16"	2-1/2"	#10 FH	1

Forespar Marelon Cleats

Molded from high-strength Marelon for strength, light weight and low cost. The use of Marelon allows these cleats to take up the curve of a deck without breaking, while maintaining strength and resisting abrasion - will not soften on hot days or freeze in winter.

Part #	Length	Hole Dia
FRS 941018	3"	5/32"
FRS 941016	4"	3/16"
FRS 941013	5"	3/16"
FRS 941014	6-1/2"	1/4"
FRS 941015	8"	1/4"







Sea-Dog Heavy Duty Nylon Cleats

- Injection molded nylon
- 2/pkg

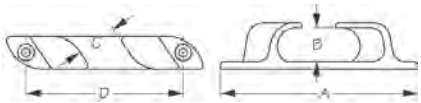
Part #	A	B	C	D	Fast
SED 043340-1	4-1/4"	1"	1-1/4"	1-3/4"	#10 FH
SED 043360-1	6-1/16"	1-1/4"	1-9/16"	2-1/4"	1/4" FH
SED 043380-1	8-1/16"	1-3/4"	2-1/4"	4-3/16"	5/16" FH
SED 043390-1	9-7/8"	1-13/16"	3"	5-7/16"	5/16" FH

Sea-Dog Zig Zag Cleat



- Great primary cleat for kayaks, canoes, and other small vessels
- No knots required; weave rope around cleat arms
- Fits line up to 3/8”
- UV stabilized injection molded nylon
- Uses (2) #10 FH fasteners (not included)

SED 043540-1 L: 3-1/2" x W: 1-3/4" x H: 15/16"

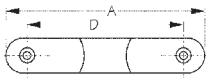




Sea-Dog Stainless Bow Chocks

- Investment cast 316 stainless
- 2/pkg

Part #	A	B	C	D	Fast
SED 060040-1	4-1/2"	5/8"	1/2"	3-1/4"	#10 FH
SED 060043-1	6"	1"	1"	4-3/4"	1/4" FH



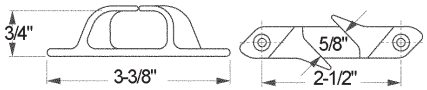




Sea-Dog Stainless Straight Chocks

- Investment cast 316 stainless
- Sold by the each

Part #	A	B	C	D	Fast
SED 060200-1	5"	3/4"	1-1/16"	3-15/16"	#10 FH
SED 060210-1	6"	1"	1-13/16"	5"	1/4" FH

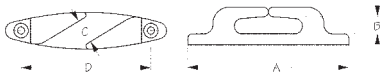




Sea-Dog Zinc Skene Chocks

- Die cast zinc, chrome plated
- 2/pkg
- Use #10 FH fasteners

SED 064030-1

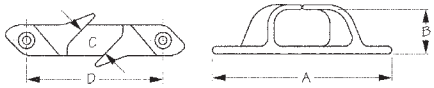




Sea-Dog Nylon Skene Chocks

- Injection molded black nylon
- 2/pkg

Part #	A	B	C	D	Fast
SED 067360-1	4-1/2"	7/16"	1/2"	3-5/8"	#10 FH





Sea-Dog Stainless Skene Chocks

- Investment cast 316 stainless
- 2/pkg

Part #	A	B	C	D	Fast
SED 060060-1	4-1/2"	13/16"	11/16"	3-15/16"	#10 FH
SED 060065-1	6"	1-1/8"	13/16"	4-5/8"	1/4" FH

► *Also See* Dock Cleats pg 14-029

Sea-Dog Hawse Pipe

- Investment cast 316 stainless steel
- L: 5-1/2" x W: 2-1/2" x D: 7/8"
- Use #10 FH fasteners

SED 328160



Sea-Dog Hawse Pipe

- Investment cast 316 stainless steel
- L: 9-1/4" x W: 2-7/8"
- Use #10 FH fasteners

SED 328170



Sea-Dog Hinged Deck Pipe

- Investment cast 316 stainless
- Hinged cap
- Use #10 FH screws
- L: 5-5/8" x W: 4-1/16" x Centre: 2-3/4"

SED 321805



Sea-Dog Chain Deck Pipe

- Chromed brass construction
- Includes cap tether chain, cap securing hook, and rubber gasket
- For maximum 3/8" chain and 1" rope
- L: 6-1/4" x W: 4-1/2" x Centre: 2-1/4"
- Use #8 FH fasteners

SED 322070

Parts:

SED 322075-1 Replacement cap and chain only



Sea-Dog Chain Deck Pipe

- Investment cast 316 stainless
- Includes cap tether and cap securing hook
- Use #10 FH screws
- L: 5-5/8" x W: 4-1/16" x Centre: 2-1/2"

SED 321800

Parts:

SED 321810-1 Replacement cap and chain only



Perko Rope Deck Pipes

- Fibre reinforced, UV stabilized plastic
- Hinged, snap-down cover
- For ropes up to 7/8"
- Flange diameter: 3-3/4"
- Use #8 screws

PER 1057-DP-BLK Black
PER 1057-DP-WHT White



Sea-Dog Rope Deck Pipe

- Chrome plated brass
- For rope up to 1" diameter
- Dia: 3-1/8" x Centre: 1-1/2"
- Use #8 FH fasteners

SED 322080-1



Perko Deck Fills



- Chrome plated zinc and black plastic
- Includes grounding lug and screw.
- Cap has integral retainer and gasket to assure water tightness
- Overall diameter: 3-1/8"
- Hose size: 1-1/2"

PER 1313-DP-CHR Gas
Parts:
PER 126-DP-BLK Spare Cap

Chrome Locking Gas Fill



Same as above but with locking feature.
- Use #6 FH fasteners

PER 1399-DP-CHR Gas
Parts:
PER 1324-DP0-BLK Spare locking cap

Perko Locking Gas Caps



- Locking caps come with 2 keys
- Fits Perko 1313 & 1399 series fills & Mirax M-79 & Tempo 109 DPF fills

PER 1324-DP0-BLK

- Fits Perko 0520, 0527, 0528, 0557, 0599 & 1270 series fills

PER 1324-DP1-BLK

Perko Deck Fills



520-DPG-CHR

- Chrome plated bronze
- Fill type marked on flange
- Cap has slot between holes, O-ring and integral retainer
- Comes with deck key
- Fits 1-1/2" I.D. hose
- Flange diameter: 3-1/8"
- Length neck: 3-1/2"
- Use #8 FH fasteners

PER 520-DPD-CHR Diesel
PER 520-DPG-CHR Gas
PER 520-DPW-CHR Water
PER 507-DP-CHR Waste (No retainer on cap)
Parts:
PER 520-DP-99A Spare cap and O-ring
PER 513-DP8 Spare O-rings 2/pkg
PER 507-DP-99A Spare waste cap & O-ring
PER 1324-DP1-BLK Spare locking cap

Perko Gas Fill



- Black plastic, fibre reinforced, UV stabilized
- Easy-grip cap comes with O-ring and integral retainer
- No deck plate key required
- Takes 1-1/2" I.D. hose
- O.D. 3-1/16"
- Length neck 2-7/16"

PER 1613-DP-BLK
Parts:
PER 513-DP8 Spare O-ring, 2/pkg

Perko Deck Fills



- Chrome plated zinc
- Fill type marked on flange and cap
- Black plastic caps have a slot between holes, O-ring and integral retainer
- Comes with deck key
- Fits 1-1/2" hose
- Flange diameter: 3-1/2"
- Length neck: 2-1/2"
- Use #8 FH fasteners

PER 1270-DPD-CHR Diesel
PER 1270-DPG-CHR Gas
PER 1270-DPW-CHR Water
PER 1269-DP-CHR Waste (No retainer on cap)
Parts:
PER 1269-DP-99A Cap only (Waste)
PER 1270-DPG-99A Cap only (Gas)
PER 1270-DPW-99A Cap only (Water)
PER 1270-DPD-99A Cap only (Diesel)
PER 513-DP8 Spare o-ring, 2/pkg

Perko Fuel Fill Replacement Cap



- Replacement cap and O-ring fits Perko 528 series 1-1/2" fuel/water fills for pipe.

PER 528-DP8-99A Cap
Parts:
PER 513-007 O-ring 2/pkg

Roca Industry Deck Fills



- Aluminum body, and colour-coded plastic plug
- The lid is securely attached to the body with a ball chain
- L: 2.87"



ROC 422551 ** Fuel, 2" hose
ROC 422562 ** Water, 1.5" hose
ROC 422566 Waste, 1.5" hose
Parts:
ROC 422581 ** Spare red plug - fuel
ROC 422582 Spare blue plug - water
** While Stock Lasts

Perko Combination Fill and Tank Vents



1318-DPG-BLK

- Plastic, flip top fill incorporates an integral tank vent with flame arrester
- Fuel splash back returns down the fill neck instead of overboard when filling
- With the lid closed continuous venting is provided while effectively preventing water intrusion
- All plastic construction eliminates the need for installation of ground wire
- Use #10 FH fasteners

PER 1318-DPG-BLK Black gas 35° angled neck
PER 1319-DPG-BLK Black gas
PER 1319-DPW-BLK Black water
PER 1319-DPG-WHT White gas
Accessories:



Fuel system locking insert for 1-1/2" vented fills
- Black plastic with zinc alloy lock cylinder
- Dual purpose key opens fill cap & locking insert
- Fits most Perko vented fills

PER 525-DP0-BLK

Perko Fuel Fill Locking Insert



Just open the fill cap, insert lock cylinder, remove the key and replace the cap. Comes with 2 dual purpose lock/deck keys.

- Fits most Perko vented fills

PER 525-DP0-BLK

Perko Combination Gas Fill / Tank Vents



- Angled or straight head deck fills combined with the tank vent
- Vent flame arrester and anti-surge valve
- Requires deck plate key
- Uses 1-1/2" fuel fill and 5/8" vent hose
- Use #8 FH fasteners

Angled

PER 540-DPG-CHR	Chrome bronze cap & plastic base
PER 542-DPG-BLK	Black plastic cap & base
PER 542-DPG-WHT	White plastic cap & base

Straight

PER 541-DPG-CHR	Chrome bronze cap & plastic base
Parts:	
PER 540-DPG-99A	Spare chrome cap with chain
PER 525-DP0-BLK	Lock

► *Also See* EPA Tank Vents pg 09-018 to 019

Attwood Replacement Cap



- Stainless steel construction
- Threads for 1-1/4" straight pipe deck fills
- Fits Attwood #'s 66406, 66407, 66408 and 66408C1
- Includes retaining chain

ATT 66074-3

Marelon Deck Fills



907003



907004

- Molded non-corrosive Marelon
- Three colour-coded models clearly marked for use with either water, fuel or waste
- Easy-open cap is fitted with nylon retaining cord and rubber O-ring
- Hose: 1-1/2"
- Flange: 4", Cutout: 2-1/8", Length: 3"

MPS 907003	Water
MPS 907004	Waste

Sea-Dog Gas Deck Fills



- Gas deck fill with splash guard
- Die cast chrome plated zinc
- Fitting for 1-1/2" hose
- Use #10 FH fasteners

SED 351750	Bulk
SED 351750-1	Packaged
Parts:	
SED 351755-1	Replacement cap

► *Also See* Sea-Dog Water Hose Lock pg 06-055

Sea-Dog Stainless Steel Hose Deck Fills



- Comes with cap, safety chain
- Investment cast 316
- Use #10 fasteners

Part #	Hose Barb	Marking	Flange Dia.
SED 351320-1	1-1/2"	Gas	3"
SED 351321-1	1-1/2"	Diesel	3"
SED 351322-1	1-1/2"	Water	3"
SED 351323-1	1-1/2"	Waste	3"
SED 351330	2"	Gas	3-1/2"
SED 351331	2"	Diesel	3-1/2"

Parts:

SED 351390-1	Replacement cap (1-1/2" hose)
SED 351391-1	Replacement cap (2" hose)

Sea-Dog Locking Deck Fills



351320L-1

- Investment cast 316 stainless steel
- Includes 2 keys
- 1-1/2" hose
- #10 FH fasteners
- 1-1/4" cap threads

SED 351320L-1	Gas
SED 351321L-1	Diesel
Parts:	
SED 351390-1	Replacement non-locking cap (1-1/2" hose)

Sea-Dog Stainless Steel Hose Deck Fill



- Cap thread 1-1/2" - 11-1/2 NPSM straight threaded pipe
- Cap diameter 2-1/8"
- Investment cast 316
- Use #10 fasteners
- USCG regulations require bonding wire to prevent sparking

SED 351353-1 Waste

Sea-Dog Deck Fills With Keyless Caps



- Investment cast 316 stainless
- Cap has a built in hinged key that can be locked in the upright position to open or close the fill
- Caps are molded in special colours
- Use with 1-1/2" I.D. hose
- Use #10 FH fasteners

Part #	Marking	Cap
SED 351311-1	Diesel	Green
SED 351312-1	Water	Blue
SED 351313-1	Waste	Black

Replacement Caps:

SED 357090-1	Red gas cap only
SED 357091-1	Green diesel cap only
SED 357093-1	Blue water cap only
SED 357094-1	Black waste cap only

► *Also See* Tank Vents pg 04-039 to 041

Sea-Dog Keyless Cap Deck Fills



- Fibreglass filled nylon
- Cap has a built in hinged key that can be locked in the upright position to open or close the fill
- Caps are molded in special colours
- Use with 1-1/2" I.D. hose
- Use #10 FH fasteners

Part #	Marking	Cap	Body
SED 357030-1	Gas	Red	Black
SED 357031-1	Diesel	Green	Black
SED 357033-1	Water	Blue	Black
SED 357034-1	Waste	Black	Black

Replacement Caps:

SED 357090-1	Red gas cap only
SED 357091-1	Green diesel cap only
SED 357093-1	Blue water cap only
SED 357094-1	Black waste cap only

Sea-Dog Deck Fills



- Fibreglass/nylon construction
- For use with 1-1/2" I.D. hose
- Flange diameter: 3-5/16"
- Comes with safety chain
- Use #10 fasteners

Part #	Marking	Cap
SED 357000-1	N/A	Body Only Black
SED 357010-1	Gas	Red
SED 357011-1	Diesel	Green
SED 357013-1	Water	Blue
SED 357014-1	Waste	Black

Replacement Caps:

SED 357015-1	Cap & chain for Gas unit
SED 357016-1	Cap & chain for Diesel unit
SED 357017-1	Cap & chain for Water unit
SED 357018-1	Cap & chain for Waste unit

Sea-Dog Emergency Deck Fill Plug



- Fits most 1-1/2" hose deck fills in the event you lose your cap
- For temporary use only until you can replace your OEM cap
- Constructed of fuel resistant Nitrile-Buna rubber

SED 357390-1	Each
SED 357390-5	Display (10)

Buck Algonquin Pipe Deck Plates



- Cast bronze with machined brass finish
- Complete with beaded chain, cap spanner key and O-ring seal
- Machine finish
- Use #10 FH fasteners

Part #	Pipe	Marked	Flange
BUC PDP150MF-GAS *	1-1/2"	Gas	3-3/4"
BUC PDP150MF-WSTE *	1-1/2"	Waste	3-3/4"
BUC PDP200MF-PLN	2"	Plain	4-5/8"
BUC PDP200MF-GAS	2"	Gas	4-5/8"
BUC PDP200MF-FUEL	2"	Fuel	4-5/8"
BUC PDP200MF-WTR	2"	Water	4-5/8"
BUC PDP200MF-WSTE	2"	Waste	4-5/8"
BUC PDP200MF-DIE	2"	Diesel	4-5/8"

Replacement O-Rings:

BUC ORING-125	Fits all 125 deck plates
BUC ORING-150	Fits all 150 deck plates
BUC ORING-200	Fits all 200 deck plates

Replacement Caps:

BUC PDPC-150-MF	1-1/2" cap
BUC PDPC-200-MF	2" cap

* Special Order - may have stock

Buck Algonquin Pipe Deck Plates



- Investment cast 316 stainless steel, polished to a mirror finish
- Complete with bead chain, cap spanner key and O-ring seal

Use #10 FH fasteners

Part #	Pipe	Marked	Flange
BUC PDPS150-GAS	1-1/2"	Gas	3-3/4"
BUC PDPS150-WTR	1-1/2"	Water	3-3/4"
BUC PDPS150-DIE	1-1/2"	Diesel	3-3/4"
BUC PDPS150-PLN	1-1/2"	Plain	3-3/4"
BUC PDPS150-WSTE	1-1/2"	Waste	3-3/4"
BUC PDPS200-DIE	2"	Diesel	4-5/8"
BUC PDPS200-PLN	2"	Plain	4-5/8"
BUC PDPS200-GAS	2"	Gas	4-5/8"

Replacement Caps:

BUC PDPS-150C-S/S	1-1/2" stainless steel
BUC PDPS-200C-S/S	2" stainless steel

Davis Deck Multi Tool



The button snap and zipper pull features make working with canvas a "snap" instead of a chore. This is a deck plate key that fits most deck plate caps. It's also a pocket-sized hex wrench and screwdriver with both slot and Phillips heads. The cutting blade is designed to cut fishing line and small cord-and the shackle key works on stainless or galvanized pin shackles

- 2.75" × 4.48"

DIN 382

Sea-Dog Universal Deck Plate Key



- Stamped 304 stainless steel
- Fits deck plates with holes or slots
- Opens shackles, bottles and slotted fasteners

SED 335690-1

Perko Deck Plate Keys



Part #	Lug Centres	Length	Plate Size	Finish
PER 1248-006-DP	5/8"	3-3/8"	1"	Zinc
PER 1248-7-8-DP	1-1/8"	3-3/8"	1-1/2"	Plastic
PER 1248-009-DP	1-11/16"	4-3/8"	2"	Zinc

Perko Deck Plate Key



Fits Perko 1-1/4" and 1-1/2" deck plates and many other "slot" type opening deck plates.

- Rugged black plastic

PER 1247-DP-BLK

Sea-Dog Deck Fill Key



- Investment cast 316 stainless steel
- Distance between teeth 1-3/16"

SED 351399-1

Sea-Dog Adjustable Deck Plate Key



- Satin finished bronze
- Opens to a maximum of 6"
- Comes with two sizes of stainless steel pins, 3/16" and 5/16"

SED 335680-1

Perko Deck Plate Key



- Chrome plated zinc
- Will fit up to 8" diameter plates
- Overall length 8-1/2"

PER 826-DP-CHR

Sea-Dog Deck Plate Key



- Formed 304 stainless, 7" overall
- Fits all cast stainless steel Sea-Dog deck fill caps: 351320 - 351331 and 351350 - 351353 and deck plates: 335633 - 335646

SED 335699-1 Carded
SED 335699 Bulk

Perko Safety Cord



- Prevents loss of deck plate caps
- 24" monofilament

PER 537-DP

Sea-Dog 7/8" Base Rail Fittings (Chrome Plated Die Cast Zinc)

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Base	Fastener
SED 286060-1	60° Round base	7/8"	2-5/8"	#10 FH
SED 286090-1	90° Round base	7/8"	2-5/8"	#10 FH
SED 286160-1	60° Rectangular base	7/8"	1-5/8" x 2-3/4"	#10 FH
SED 286190-1	90° Rectangular base	7/8"	1-5/8" x 2-3/4"	#10 FH


286060


286090


286160


286190

Sea-Dog 7/8" Rail Tee Fitting (Chrome Plated Die Cast Zinc)

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD
SED 296090-1	90° Tee	7/8"



Sea-Dog 7/8" Hand Rail Fittings (Chrome Plated Die Cast Zinc)

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Rail Height	Fastener
SED 286560-1	60° Center	7/8"	2-1/8"	#10 FH
SED 286565-1	60° End-left hand	7/8"	2-1/8"	#10 FH
SED 286566-1	60° End-right hand	7/8"	2-1/8"	#10 FH
SED 286290-1 **	Bullet end	7/8"	-	#10 FH

** While Stock Lasts


286560


286565


286566


286290

Sea-Dog 316 Stainless Steel Round Base Rail Fittings

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Base OD	Fastener
SED 280300-1	30° Round base	7/8"	2-5/8"	#10 FH
SED 280301-1	30° Round base	1"	2-3/4"	1/4" FH
SED 280450-1	45° Round base	7/8"	2-5/8"	#10 FH
SED 280451-1	45° Round base	1"	2-3/4"	1/4" FH
SED 280600	60° Round base	7/8"	2-5/8"	#10 FH
SED 280600-1	60° Round base	7/8"	2-5/8"	#10 FH
SED 280601-1	60° Round base	1"	2-3/4"	1/4" FH
SED 280900-1	90° Round base	7/8"	2-5/8"	#10 FH
SED 280901-1	90° Round base	1"	2-3/4"	1/4" FH

Suffix (-1) indicates display package.


280300


280450


280600


280900

Sea-Dog 316 Stainless Steel Handrail/Lifeline Fittings

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Base	Pin Dia.	Fastener
SED 270530-1	Stanchion sleeve w/eye	7/8"	N/A	3/8"	N/A
SED 270531-1	Stanchion sleeve w/eye	1"	N/A	3/8"	N/A
SED 270540-1	4° Rectangular base	1"	2-13/16" x 3-9/16"	N/A	1/4" FH
SED 270550-1	Lifeline base	N/A	2-7/16" x 1-1/2"	3/8"	#10 FH


270540


270530


270550

Sea-Dog 316 Stainless Steel Rectangular Base Rail Fittings

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Base	Fastener
SED 281300-1	30° Rectangular base	7/8"	1-3/4" x 2-5/8"	#10 FH
SED 281301-1	30° Rectangular base	1"	1-7/8" x 3-3/16"	1/4" FH
SED 281450-1	45° Rectangular base	7/8"	1-11/16" x 3"	#10 FH
SED 281451-1	45° Rectangular base	1"	1-7/16" x 3-1/4"	1/4" FH
SED 281600-1	60° Rectangular base	7/8"	1-3/4" x 3-1/16"	#10 FH
SED 281601-1	60° Rectangular base	1"	1-7/8" x 3-1/4"	1/4" FH
SED 281900	90° Rectangular base	7/8"	1-11/16" x 3"	#10 FH
SED 281900-1	90° Rectangular base	7/8"	1-11/16" x 3"	#10 FH
SED 281901-1	90° Rectangular base	1"	1-7/8" x 3-3/16"	1/4" FH
SED 281931-1	90° Volcano base	1"	2-1/16" x 3"	1/4" FH
SED 281936-1	90° Volcano base	1"	3-11/16" x 3-3/8"	1/4" FH

Suffix (-1) indicates display package.


281300


281450


281600


281900


281936

Sea-Dog 316 Stainless Steel Rail Tee Fittings

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD
SED 290600-1	60° Universal tee	7/8"
SED 290601-1	60° Universal tee	1"
SED 290900-1	90° Tee	7/8"
SED 290901-1	90° Tee	1"
SED 291600-1	60° Tee left-hand	7/8"
SED 291601-1	60° Tee left-hand	1"
SED 292600-1	60° Tee right-hand	7/8"
SED 292601-1	60° Tee right-hand	1"
SED 293100-1	3-Way corner	7/8"
SED 293101-1	3-Way corner	1"
SED 293131-1	4-Way corner	1"


290600


290900


293100


293131

Sea-Dog 316 Stainless Steel Elbow Fittings

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Degree
SED 293190-1	90° Cable anchor	7/8"	N/A
SED 293191-1	90° Cable anchor	1"	N/A
SED 295090-1	90° Elbow	7/8"	N/A
SED 295091-1	90° Elbow	1"	N/A
SED 295095-1	Elbow & anchor eye	7/8"	N/A
SED 295096-1	Elbow & anchor eye	1"	N/A
SED 295110-1	Bow form	7/8"	110°
SED 295111-1	Bow form	1"	110°
SED 295125-1	Bow form	7/8"	125°


293190


295090


295095


295110

Sea-Dog 316 Stainless Steel Stanchions & End Fittings

▪ Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Rail Height	Fastener
SED 289155-1	5-1/2° Rail (end in)	N/A	7/8"	#10 FH
SED 289165-1	16-1/2° Rail (end out)	N/A	7/8"	#10 FH


289155


289165

Sea-Dog 316 Stainless Steel Handrail Fittings

- Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Rail Height	Fastener
SED 285060-1	60° Center	7/8"	1-13/16"	#10 FH
SED 285061-1	60° Center	1"	2-3/16"	1/4" FH
SED 285065-1	60° End left-hand	7/8"	1-13/16"	#10 FH
SED 285120-1	120° End	7/8"	1-13/16"	#10 FH
SED 285160	60° End	7/8"	1-13/16"	#10 FH
SED 285160-1	60° End	7/8"	1-13/16"	#10 FH
SED 285161-1	60° End	1"	2-3/16"	1/4" FH
SED 285165-1	60° End left-hand	7/8"	1-13/16"	#10 FH
SED 285166-1	60° End right-hand	7/8"	1-13/16"	#10 FH
SED 288290-1	Bullet end	7/8"	N/A	N/A
SED 289900-1	90° End-bottom mounted	7/8"	1-7/8"	1/4" Bolt
SED 289901-1	90° End-bottom mounted	1"	2"	1/4" Bolt
SED 289905-1	60° Center-bottom mounted	7/8"	1-7/8"	1/4" Bolt

Suffix (-1) indicates display package.



Sea-Dog 316 Stainless Steel Hinged Rail Tee Fittings



- Hinged feature allows installation without disassembling existing bimini setup
- Reduces possibility of scratching tubing during installation
- Includes 1/4-28 x 3/16" set screws (where necessary)

SED 290603-1 60° Hinged universal tee 7/8"
SED 290604-1 60° Hinged universal tee 1"
SED 290903-1 90° Hinged tee 7/8"
SED 290904-1 90° Hinged tee 1"

Sea-Dog 316 Stainless Steel Stanchion Fittings



- Includes 1/4-28 x 3/16" set screws (where necessary)

Part #	Description	Tube OD	Eye Dia.
SED 270500-1	Stanchion eye	1"	1/2"
SED 270510-1	Stanchion cap	7/8"	5/16"
SED 270511-1	Stanchion cap	1"	5/16"

Transat Stainless Rail Fitting Rectangle Base - Bulk



- 316 stainless steel
- Includes set screws (where necessary)

Part #	Type	Tube OD	Base	Fastener
TMS Q30053	60°	7/8"	1-3/4" x 3-1/16"	#10 FH
TMS Q30054	60°	1"	1-7/8" x 3-1/4"	1/4" FH
TMS Q30035	90°	7/8"	1-3/4" x 3-1/16"	#10 FH
TMS Q30036	90°	1"	1-7/8" x 3-3/16"	1/4" FH

Transat Stainless Stanchion Cap - Bulk



- 316 stainless steel
- Includes set screws (where necessary)

Part #	Tube OD	Eye Dia.
TMS Q30022	7/8"	5/16"
TMS Q30023	1"	5/16"

Transat Stainless Stanchions - Bulk



- 316 stainless steel

Part #	Type	Tube OD	Rail Height	Fastener
TMS Q30025	60° Center	7/8"	1-13/16"	#10 FH
TMS Q30026	60° Center	1"	2-3/16"	1/4" FH
TMS Q30027	60° End	7/8"	1-13/16"	#10 FH
TMS Q30028	60° End	1"	2-3/16"	1/4" FH

Transat Stainless Stanchion Sleeve w/Eye - Bulk



- 316 stainless steel
- Includes set screws (where necessary)

Part #	Tube OD	Pin Dia.
TMS Q30017	7/8"	3/8"
TMS Q30018	1"	3/8"



Transat Stainless Rail Tee Fittings - Bulk

- 316 stainless steel
- Includes set screws (where necessary)

Part #	Description	Tube OD
TMS Q30057	60° Universal tee	7/8"
TMS Q30058	60° Universal tee	1"
TMS Q30059	90° Tee	7/8"
TMS Q30060	90° Tee	1"
TMS Q30020	3-Way corner	7/8"
TMS Q30021	3-Way corner	1"

Transat Stainless Rail Fittings Round Base - Bulk



- 316 stainless steel
- Includes set screws (where necessary)

Part #	Type	Tube OD	Base OD	Fastener
TMS Q30047	60°	7/8"	2-5/8"	#10 FH
TMS Q30048	60°	1"	2-3/4"	1/4" FH
TMS Q30038	90°	7/8"	2-5/8"	#10 FH
TMS Q30039	90°	1"	2-3/4"	1/4" FH

Transat Stainless 90° Elbows - Bulk



- 316 stainless steel
- Includes set screws (where necessary)

Part #	Tube OD	Degree
TMS Q30063	7/8"	N/A
TMS Q30064	1"	N/A

Perko Grab Rail Posts



- Chrome plated bronze
- For 1" O.D. tubing
- Height: 3-3/8"
- Base diameter: 2-1/2"
- Use #8 FH fasteners

PER 380-000-CHR End post
PER 380-A00-CHR Centre post

Sea-Dog Rail Mount Brackets



- Injection molded nylon and stainless steel
- Clamps easily to 7/8" - 1" tubing
- Fasteners are included



SED 327100-1 1 pr. brackets, black
SED 327105-1 1 pr. brackets, white
SED 327101-1 1 pr. brackets, and 2 oval plates
SED 327102-1 1 pr. brackets, and 2 square plates

Sea-Dog Rail Mount Brackets



- Injection molded nylon and stainless steel
- Clamps easily to 7/8" - 1" tubing
- Fasteners are included

SED 327190-1 Pair, black

Sea-Dog Removeable Rail Mount Clamps



- Includes shims, thumb screws and all mounting hardware
- Great for mounting a wide variety of items including cup holders, GPS, cell phone holder, etc. to your existing rails

Square Rail Clamps

- Fit 1" to 1-1/4" tubing

SED 327197-1



Round Rail Clamps

- Fit 3/4" to 1-1/4" tubing

SED 327199-1

Stainless Steel Rail Tubing



- 304 SS, 600 grit, polished finish
- Standard length 20 feet
- Sold by the foot

WES 7/8"S/S 7/8" OD x .049 wall thickness
WES 1"S/S 1" OD x .065 wall thickness

Taco Aluminum Tubing



- Bright anodized finish
- .058" wall

TAC A233458BLY20 3/4" OD, 20' length
TAC A237858BLY16 7/8" OD, 16' length

Attwood Flexible Grab Handles



- Constructed of soft black polypropylene webbing over a semi rigid core
- UV stable and mildew resistant
- 7-1/2' grip opening
- Use 4 x #12 screws

ATT 2061-5

Railblaza Grab Handles



- Stylish, low-profile grab handles for ribs and inflatable boats
- UV-stable, non-leaching PVC withstands prolonged sun exposure without fading or embrittling
- Attach using a 2-part inflatable boat adhesive (not included)
- L: 9.45" x H: 3.93" x D: 1.75"

RBZ NTD-001BK	Black
RBZ NTD-001GY	Gray
RBZ NTD-001WH	White

Sea-Dog Grab Handles



- Injection molded nylon/PVC coated
- Soft grip, concealed fasteners
- L: 9-3/4" x H: 2-1/2"
- Fasteners included

SED 227560-1	Black, each
SED 227561-1	White, each

Sea-Dog Suction Cup Handle



- Portable, dual suction cup handle installs instantly
- Mounts on any non-porous surface
- For use above or below the waterline
- Injection molded nylon and Nitrile-Buna rubber
- Length: 5-7/8", suction cup dia: 4"

SED 490050-1

Sea-Dog Handrails



- Formed 304 stainless
- Rail height: 2-3/8"
- Use 5/16 FH fasteners

SED 254312-1	12-1/4"
SED 254318-1	18-1/4"
SED 254324-1	24-1/4"

Sea-Dog Handrails

NEW



- Formed 304 stainless
- 5/16"-18 thread stud mounts
- 3/4" OD tube
- Rail height: 2" (1-3/4" on 8-3/4")
- Stainless or matte black finish

SED 254601-1	8-3/4", Stainless
SED 254611-1	8-3/4", Black
SED 254603-1	12", Stainless
SED 254613-1	12", Black
SED 254607-1	18-1/2", Stainless
SED 254617-1	18-1/2", Black
SED 254609-1	24", Stainless
SED 254619-1	24", Black

Sea-Dog Handrails



- Formed 304 stainless
- 5/16"-18 thread stud mounts
- 3/4" OD tube
- Rail height: 2" (1-1/2" on 7-1/4")

SED 254106-1	7-1/4"
SED 254112	12", bulk
SED 254112-1	12"
SED 254118-1	18-1/2"
SED 254124-1	24"

Sea-Dog Flanged Handrails

NEW



- Formed 304 stainless
- 5/16"-18 thread stud mounts
- 7/8" OD tube
- Rail height: 2-1/4"
- Stainless or matte black finish

SED 254620-1	10", Stainless
SED 254630-1	10", Black
SED 254622-1	13-1/2", Stainless
SED 254632-1	13-1/2", Black
SED 254626-1	19-3/8", Stainless
SED 254636-1	19-3/8", Black
SED 254628-1	25-1/4", Stainless
SED 254638-1	25-1/4", Black

Sea-Dog Flanged Handrails



- Formed 304 stainless
- 5/16"-18 thread stud mounts
- 7/8" OD tube
- Rail height: 2-1/4"

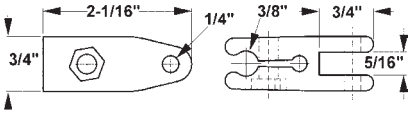
SED 254212	12"
SED 254224	24"

Whitecap Teak Handrails



- Solid teak
- 10-1/16" centre to centre, except
- 60101, which is 10-5/16"

WHI 60101	L: 13" x H: 2-3/8" x D: 1"
WHI 60102	L: 23" x H; 2-3/8" x D: 1"
WHI 60104	L: 33" x H: 2-3/8" x D: 1"

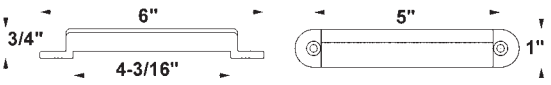




Sea-Dog Canvas Top Fittings

- Injection molded black nylon bracket mount jaw slide

SED 273565-1 2/pkg





- Injection molded black nylon slide bracket
- Uses #8 FH fasteners

SED 273665-1 2/pkg



- 1/4"-28 x 3/4" head screw

SED 273568 Each

Sea-Dog Bimini Straps



- Nylon/stainless/chrome plated brass
- 1" x 8'

SED 298172-1 2/pkg, black

Sea-Dog Bumper Pad



- Injection molded PVC windshield/door bumper pad
- Dia: 3/4" x 3/8" fastener hole

SED 324390-1 Black, 2/pkg

T-H Marine Windshield Fastener



- Base mounts to the boat and the quick twist fastener passes thru windshield
- Great for preventing broken windshields in shipping, installation and for cleaning
- Molded of uv stable polymer that will not corrode
- Wing nut style, slotted flush head

THM WSH-1PR-DP 2/pkg

Sea-Dog Injection Molded Rail Top Fittings

Part #	Description	Colour	Tube OD	Pin	Qty
SED 273100-1	Top cap	Black	7/8"	1/4"	Pair
SED 273101-1	Top cap	White	7/8"	1/4"	Pair
SED 273110-1	Top cap	Black	3/4"	1/4"	Pair
SED 273111-1	Top cap	White	3/4"	1/4"	Pair
SED 273160-1	Jaw slide	Black	7/8"	3/16"	Pair
SED 273161-1	Jaw slide	White	7/8"	3/16"	Pair
SED 273162-1	Hinged top slide	Black	7/8"	1/4"	Each
SED 273163-1	Hinged top slide	White	7/8"	1/4"	Each
SED 273165-1	Jaw slide	Black	3/4"	3/16"	Pair
SED 273166-1	Jaw slide	White	3/4"	3/16"	Pair
SED 273175-1	Top insert	Black	3/4"	1/4"	Pair
SED 273176-1	Top insert	White	3/4"	1/4"	Pair
SED 273180-1	Top insert	Black	7/8"	1/4"	Pair
SED 273181-1	Top insert	White	7/8"	1/4"	Pair


273101


273110


273160


273176


273180


273162

Sea-Dog Injection Molded Track Fittings

Part #	Description	Colour	Width	Length	Qty	Fastener
SED 273213-1	.85 Track end cap stop	Black	7/8"	1-1/4"	Pair	#8 FH
SED 273220-1	.85 Track slides	Black	11/16"	2-3/8"	Pair	-


273213


273220

Sea-Dog Injection Molded Hinge Fittings, 3/16" Pin

- 2/pkg

Part #	Description	Colour	Width	Length
SED 273200-1	Large deck hinge	Black	13/16"	2-7/16"
SED 273201-1	Large deck hinge	White	13/16"	2-7/16"
SED 273205-1	Small deck hinge	Black	13/16"	2-3/8"
SED 273206-1	Small deck hinge	White	13/16"	2-3/8"
SED 273230-1	Large deck hinge/angled	Black	7/8"	2-7/16"
SED 273231-1	Large deck hinge/angled	White	7/8"	2-7/16"
SED 273240-1	Concave deck hinge	Black	13/16"	2-7/16"
SED 273286-1	Deck hinge slide Stbd & Prt	White	7/8"	2-7/16"
Use #10 FH screws				


273200


273206


273240


273230

Sea-Dog Injection Molded Canvas Top Fittings

- 2/pkg

Part #	Description	Colour	Tube OD*	Hole Space	Fastener
SED 273350-1	90° Inside eye end	Black	3/4"	-	-
SED 273351-1	90° Inside eye end	White	3/4"	-	-
SED 273369-1	90° Inside eye bracket	Black	N/A	15/16"	#8 FH
SED 273370-1	90° Inside eye bracket	White	N/A	15/16"	#8 FH


273351


273369

Sea-Dog Injection Molded Hinge Fittings

- 2/pkg
- 1/4" pin
- Use #10 FH fasteners

Part #	Description	Colour	Width	Length
SED 273250-1	Deck hinge	Black	7/8"	2-7/16"
SED 273251-1		White		
SED 273255-1	4 Hole side mount	Black	1-3/4"	2"
SED 273260-1	.85 Slide mount	Black	7/8"	2-1/4"
SED 273261-1		White	7/8"	2-1/4"
SED 273265-1	1.050 Slide mount	Black	1"	2-1/4"
SED 273295-1	.85 Track slide lock	Black	11/16"	13/16"
SED 273296-1		White		


273251


273255


273261


273265


273295

Sea-Dog Injection Molded Head Screws

- 2/pkg

Part #	Description	Colour	Width	Length
SED 273298-1	Head screw 1/4-20 x 7/8"	Black	7/8"	1-3/8"
SED 273299-1	Head screw 1/4-20 x 7/8"	White	7/8"	1-3/8"
SED 273309-1	Head screw 1/4-20 x 1/2"	White	13/16"	15/16"

Suffix (-1) indicates display package



Sea-Dog 316 Stainless Steel Fittings

- Sold by the each
- Requires 1/8" Allen wrench to install
- Set screws can be purchased separately (299999-1)

Part #	Description	Tube OD	Pin
SED 270100	Top cap	7/8"	1/4"
SED 270100-1	Top cap	7/8"	1/4"
SED 270101-1	Top cap	1"	1/4"
SED 270102	Top cap	1-1/4"	5/16"
SED 270111-1	Top cap heavy duty	1"	5/16"
SED 270160-1	Top slide with bolt	7/8"	1/4"
SED 270161-1	Top slide with bolt	1"	1/4"
SED 270162	Top slide with bolt	1-1/4"	1/4"
SED 270165-1	Top slide with bolt	3/4"	1/4"
SED 270166-1	Hinged top slide with bolt	7/8"	1/4"
SED 270167-1	Hinged top slide with bolt	1"	1/4"
SED 270175-1	Top insert	3/4"	1/4"
SED 270180-1	Top insert	7/8"	1/4"
SED 270505	Stanchion Eye	1"	n/a


270100


270101


270111


270160


270505


270162


270175


270166

Suffix (-1) indicates display package.
Parts:

SED 299999-1 1/4-28 x 3/16" set screws (Set of 10)

Sea-Dog 316 Stainless Steel Hinge Fittings

- Sold by the each


270200


270205


270210


270230


270240


270245

Part #	Description	Base	Pin	Fastener
SED 270200	90° Deck hinge	3/4" x 2-1/4"	1/4"	#10 FH
SED 270200-1	90° Deck hinge	3/4" x 2-1/4"	1/4"	#10 FH
SED 270205-1	90° Deck hinge - heavy duty	1" x 2-1/16"	5/16"	1/4" FH
SED 270210-1	90° Deck hinge - removable pin	3/4" x 2-1/4"	1/4"	#10 FH
SED 270230-1	Angle back deck hinge	3/4" x 2-1/4"	1/4"	#10 FH
SED 270240-1	Concave base deck hinge	3/4" x 2-1/4"	1/4"	#10 FH
SED 270245-1	Concave base deck hinge - removable pin	3/4" x 2-1/4"	1/4"	#10 FH
SED 270250-1	Side mount deck hinge	7/8" x 2"	1/4"	#10 FH
SED 270255-1	Side mount deck hinge - heavy duty	1-7/8" x 2-13/16"	5/16"	1/4" FH
SED 270260-1	Adjustable angle deck hinge - heavy duty	1" x 2-3/4"	N/A	#10 FH


270250


270255


270260

Suffix (-1) indicates display package.
Parts:

SED 0P-27002-1 S/S replacement hinge pin

► *Also See* Replacement Pins pg 18-015

Transat Stainless Hinge Fittings - Bulk

- 316 stainless steel

Part #	Description	Base	Pin	Fastener
TMS Q30086	90° Deck hinge	3/4" x 2-1/4"	1/4"	#10 FH
TMS Q30088	Angle back deck hinge	3/4" x 2-1/4"	1/4"	#10 FH
TMS Q30090	Concave base deck hinge	3/4" x 2-1/4"	1/4"	#10 FH
TMS Q30098	Side mount deck hinge	7/8" x 2"	1/4"	#10 FH
TMS Q30093	Side mount deck hinge - heavy duty	1-7/8" x 2-13/16"	5/16"	1/4" FH


Q30086


Q30090


Q30093


Q30098

Transat Stainless Top Fittings - Bulk

- 316 stainless steel
- Includes set screws

Part #	Type	Tube OD	Pin
TMS Q30074	Top cap	7/8"	1/4"
TMS Q30075	Top cap	1"	1/4"
TMS Q30076	Top cap	1-1/4"	1/4"
TMS Q30081	Top slide with bolt	7/8"	1/4"
TMS Q30082	Top slide with bolt	1"	1/4"
TMS Q35081	Hinged top slide with bolt	7/8"	1/4"
TMS Q35082	Hinged top slide with bolt	1"	1/4"


Q30076


Q30082


Q35081

Windline Under Platform Telescoping Slide Mount Ladders



Stainless steel steps w/plastic pads
- Slides under the platform for stowage
- Requires a minimal amount of depth, fore and aft

- Includes quick lock nylon strap
- Width overall: 12.5"
- Length stowed: 15" (4" overhang)
- Length deployed: 35"

WIN SM-3X 3 step

Accessories:

WIN ST04 Quicklock strap



- Includes quick lock urethane strap
- Width overall: 12-1/4"
- Width centerline: 10"
- Length stowed: 15-3/4" (2" overhang)
- Length deployed: 34"



WIN SM-3XOC 3 step

Parts:

WIN ST47 Replacement rubber strap



- Includes quick lock urethane strap
- Width overall: 14"
- Width centerline: 12"
- Length stowed: 16" (No overhang)
- Length deployed: 44"



WIN SM-4XB 4 step

Parts:

WIN ST47 Replacement rubber strap

Windline Under Platform Telescoping Ladders



- Slides under platform for compact storage
- Complete with bracket mounts
- Electro-polished stainless steel with plastic treads

Part #	Steps	Length Deployed	Length Stowed	Overall Width
WIN UP-2X	2	28"	18.5"	13.5"
WIN UP-3X	3	39"	21"	14"

Accessories:

WIN ST04 Quicklock strap

Windline Over Platform Telescoping Ladders



TDL-3X

- Folds and stores on top of platform
- Complete with bracket mounts
- Electro-polished stainless steel with plastic treads

Part #	Steps	Length Deployed	Length Stowed	Overall Width
WIN TDL-3X	3	34"	15"	12"
WIN TDL-4X	4	44"	16.5"	13"

Sea-Dog Emergency Folding Ladders



- Molded-in, high-visibility orange polycarbonate with nylon rope supporting the frame
- Supports up to 300 pounds
- Steps are spaced at 1' 6" and are 11-3/4" wide

SED 582503-1 3-steps, 1'6" long
SED 582502-1 4-steps, 2'5" long
SED 582501-1 5-steps, 3'2" long

JIF Marine Telescoping Ladders



- Fold out and over, telescope down easily
- Stainless steel steps, non-skid plastic tread
- Electropolished stainless steel 304
- 400 lb. capacity
- Mounting hardware not included

Part #	Steps	H	W	Gudgeon	Weight
JIF DMX3	3	34.5"	11.5"	5.83"	10 lbs
JIF DMX4	4	45.5"	12"	6.5"	12 lbs

JIF Marine Under Platform Sliding Ladders



- Steps telescope down easily
- Flat poly treads for increased comfort
- Securing strap included
- Electropolished stainless steel 316
- 400 lb. capacity
- Mounting hardware not included

Part #	Steps	H	W	Weight
JIF FOG3	3	34.5"	11.5"	8 lbs
JIF FOG4	4	45.5"	11.5"	11 lbs

JIF Marine Pontoon Boarding Ladder



- Under-deck ladder, round front pontoon decks
- Convenient, under-deck design stays out of the way
- Safer boarding away from prop and motor
- Aluminum
- 300 lb. capacity
- Drilling required, mounting hardware included
- L: 59" x W: 18" x D: 5.5"
- Weight: 21 lbs

JIF CSD2-5

JIF Marine Pontoon Boarding Ramp



- Lightweight, sturdy pontoon boarding ramp designed specifically for your pontoon boat
- Stows under deck
- Slides in & out easily on plastic wheels
- Permanent non-skid surface prevents slippage even in wet conditions
- Aluminum
- 300 lb. capacity
- Mounting hardware included (Drilling required)
- Length: 80" x Width: 26"
- Weight: 51 lbs

JIF EPP *

* Special Order - may have stock

JIF Marine O/B Transom Platform Ladders



- Durable HDPE platform is pre-drilled for easy assembly
- 1" diameter 304 stainless steel arms and underside support rails
- Flat treads for extra comfort
- 300 lb. capacity
- Mounting hardware not included

Part #	Steps	Platform W x L	Length Out - In	Weight
JIF EKU	2	18" x 15.5"	23" - 13.5"	15 lbs
JIF EKU3	3	18" x 15.5"	34" - 14.5"	16 lbs

JIF Marine Gunwale Hook Ladders



- Folding vinyl covered hooks

Part #	Steps	H	W	Hook Depth	Weight
▪ Anodized aluminum, 250 lb capacity					
JIF DMT3A-11	3	40"	15"	11"	8 lbs
JIF DMT4A-11	4	50"	15"	11"	9 lbs
▪ 304 Stainless steel, 400 lb capacity					
JIF DMT5-11	5	60"	15"	11"	10 lbs

JIF Marine Transom Telescoping Dive Ladder



- Dual 1.25" centre post design
- Electropolished stainless steel
- Includes quick release mounting bracket
- 400 lb capacity
- H: 42" x W: 13.5"

JIF IBD4 4 step

JIF Marine Gunwale Ladder



- Contour design hugs the hull for side boarding
- Vinyl sleeve will not mar hull fabric
- 1" dia anodized aluminum tube with molded poly steps
- 250 lb capacity
- H: 27" x W: 13.5"

JIF EOO3 3 step

Garelick Swim Platform/Ladders



- For use on outboard transoms
- One stainless wrap around rail and one underside
- Durable, platform is easy to clean
- Stainless steel hardware
- W: 14-1/2" x D: 12.5" x H: 13"

GAR 19535



- For use on outboard transoms
- One stainless wrap around rail and one support rail
- Durable, platform is easy to clean
- Ladder slides up and under platform for storage
- Stainless steel hardware
- W: 18" D: x 15-1/2" x H: 22-3/4"

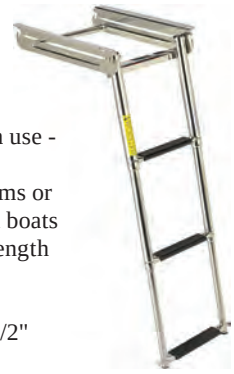
GAR 19536



- For use on inboard/outboard transoms
- Two stainless wrap around rails
- Durable, platform is easy to clean
- Stainless steel hardware
- L: 13" x W: 14-1/2" x H: 12-1/2"

GAR 19545

Garelick Under Platform Ladder



- 3-step ladder designed for under platform use - stows easily and compactly
- Ideal for installations under swim platforms or under the deck on bow or side of pontoon boats
- Ladder stows compactly within its own length
- Spring loaded, self-locking for stowage
- Flat poly treads for increased comfort
- L: 33-1/2" deployed/16" stowed x W: 11-1/2"
- 3" high when folded
- Support frame: L: 14-3/4" x W: 13-3/4"
- Three 1/4" mounting holes each side with 6" spacing

GAR 19643

Garelick Folding Pontoon Ladder



- Permanent mount at transom, ideally at stern gate door
- Comfortable black contour traction molded steps extra deep for added step surface (5" x 12")
- Durable 1" (3 cm) diameter anodized aluminum tube
- Includes securing clip, and second step abuts end of pontoon log
- 400 lb capacity
- 2 - 4 step, Fold Down L: 14" + 32", OL: 46", 16"

GAR 12380

Garelick Integrated Transom Ladders





Step



Stowed

- The only component visible during storage is the faceplate and locking/release mechanism
- Pull the release pin, slide the ladder out of the storage tube and fold out the molded steps
- Semi-automatic function with all steps folding out on common side at once
- Fits fully within the transom of the boat when stowed
- All aluminum construction with plastic steps

GAR 19902-34 3-step, 38" long
GAR 19902-44 4-step, 48" long

Garelick Sport/Diver Ladders



19803

- Angled design for stair-like ease of boarding
- Centre vertical allows easy use with diving gear
- Oval steps with nonskid surface
- Quick release mounting bracket with lock for easy storage
- Heavy duty - rated to 400 lbs. boarding weight
- Transom mounting bracket and ladder storage brackets included

GAR 19803 3-step x 13", 38" length
GAR 19804 4-step x 13", 48" length

► *Also See* Dock Ladders pg 14-030

Garelick Shur-Loc Ladder Catches



- Mounts on hulls or decks for attaching Garelick boarding ladders
- For permanent or temporary mounting
- Stainless steel with self locking design
- 2-1/2" x 1-3/4"
- Fasteners included
- Sold in pairs

GAR 76000

Garelick Sport/Diver Ladder Mounting Bracket



- Create multiple mounting locations
- Mounted on 1" thick poly spacer with 10^0 angle and lock and stainless steel face plate mounting bracket
- 2.75" W x 3.62" H
- Mounting hole diameter: 5/16"

GAR 99180

Garelick Sport/Diver Transom Mounting Shims



- Used with face plate and 10 degree poly spacer included with ladder
- Stainless steel
- 2.75" W x 3.62" H

GAR 99181 2"
GAR 99184 3"

Garelick Ladder Standoffs



- Boarding ladder standoffs
- Includes poly tips, screws and nuts
- Can be cut for exact length desired
- Sold in pairs
- Length: 4-1/2"

GAR 99000 **
** While Stock Lasts

Marinco Swim Platform Bracket



- Stainless steel 7/8" tubing and 3/16" flat bar
- 65° angled bracket
- Sold individually

MAR 60996 ** H: 14" x L: 21-1/2" x W: 1-1/2"
** While Stock Lasts

Sea-Dog Brass Ladder Locks



Ladder locks commonly used with wood step ladders. Ladder slips into tapered locks and becomes secure as it is lowered in to place.

- H: 1-5/8" x W: 1-1/4" x D: 1-5/8"
- Use #10 fasteners

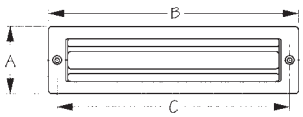
SED 322271-1

Whitecap Boarding Handle



- Includes push bottom feature to separate pole for storage
- Tube fits standard rod holders with 1-5/8" ID
- 304 stainless steel construction
- 45-1/2" high

WHI S-6242





Sea-Dog Deck Steps

- Injection molded rubber step with stamped stainless steel trim

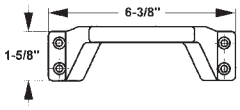
Part #	A	B	C	Fastener
SED 328012-1	2-1/4"	8-3/8"	7-11/16"	#8 FH
SED 328017-1	Replacement pad for 328012			
SED 328013-1	3-3/8"	8-7/8"	8-3/16"	#8 FH

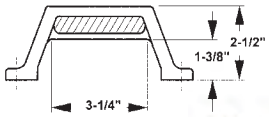
Perko Step Plates



- Chrome plated zinc frame
- Black molded soft plastic pad
- Use #8 FH fasteners

PER 1325-DP1-CHR 8-3/4" x 3-1/4", 2/pkg
Spare pads:
PER 1050-DP1-BLK 2/pkg



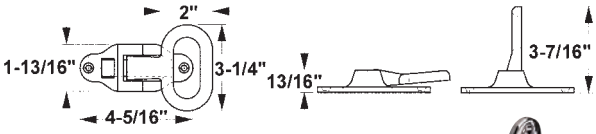




Sea-Dog Step Handle

- Injection molded nylon
- Step handles can be used as a lift on small boat transoms or as a step
- Use #10 RH fasteners

SED 227260-1 Black

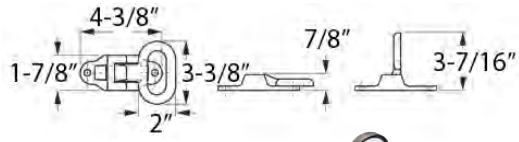




Sea-Dog Folding Step

- Chrome plated cast brass

SED 322620-1

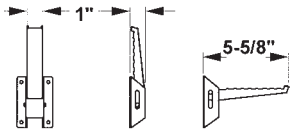




Sea-Dog Folding Steps

- Investment cast 316 stainless steel
- Fasteners: 5/16" RH

SED 328020 Bulk
SED 328020-1 packaged



Sea-Dog Folding Step

- 304 stainless steel
- Steps lock in a rattle-free upright position when not in use
- 4-1/4" long step provides secure footing
- Use #10 PH

SED 328025-1



Perko Boarding Step



- Cast bronze chrome plated
- Step size: 6" x 4-1/4"
- Mount bracket size: 6" x 2"
- Use 5/16" RH fasteners

PER 351-DP-CHR

LifeSafe Traction Strips

- Textured vinyl helps reduce the risk of slipping

Part #	Size	Colour	Qty
LIF RE3902WH	1" x 12"	White	10
LIF RE3906WH	6" x 21"	White	1
LIF RE3923GR	2" x 12"	Grey	6
LIF RE3924WH	2" x 12"	White	6



LifeSafe Traction Tape

- Textured vinyl helps reduce the risk of slipping

LIF RE3954 2" x 15' Grey
LIF RE3955 2" x 15' White



LifeSafe Anti-Slip Grit Tape

- Durable in wet or dry conditions
- Self-adhesive rolls, simply cut, peel and stick
- Black

LIF RE3950 1" x 15'
LIF RE3951 2" x 15'



Harken Marine Grip



- Thin, reliable, non-abrasive grip tape that is more effective than adhesive alternatives, waxes, and other products that reduce slipping
- Stands up to extreme marine conditions on boats, docks, and stairs
- Easy to install and clean, remains in place without peeling, sheds water and grime, and won't burn feet
- Non-absorbent, UV stable, and good for all temperatures
- Colour: Translucent white



6" Honeycomb

HAR MG10HC-BLK ** Black, 12/pkg
HAR MG10HC-GRY ** Grey, 12/pkg
HAR MG10HC-TWH ** Translucent White, 12/pkg

2" x 12" Strip

HAR MG1002-BLK ** Black, 10/pkg
HAR MG1002-GRY ** Grey, 10/pkg



6" x 12" Strip

HAR MG1006-BLK ** Black, 6/pkg
HAR MG1006-GRY ** Grey, 6/pkg

** While Stock Lasts

T-H Marine Gator Skinz Non-Slip Pads

NEW



- High quality and long lasting solution for boat step pads, swim platforms, ladders, and more.
- Easy to use and apply, with a simple Prep-Peel-Stick application
- No cure time, and no peeling or lifting edges
- UV stable for long life
- Uses the 3M KeelShield adhesive
- 2/pkg

THM GSSTEPBLK-GRIT-DP Black
THM GSSTEPLGY-GRIT-DP Grey
THM GSSTEPWHT-GRIT-DP White

3M Safety Walk



General Purpose

Aluminum oxide abrasive particles bonded by a tough, durable polymer to a dimensionally stable plastic film. Backing is coated with a pressure sensitive adhesive.

- Length per roll: 60', sold by the foot

THR 19224 ** 6" Black

Medium Grade

Similar to the above product but made from a high friction medium grade resilient, slip resistant surface.

- Length per roll: 60', sold by the foot

THR 19297 ** 6" Black
THR 59504-7741 4" Grey

Heavy Duty

Surfacing has a diamond hard mineral surface for extra traction. It is designed for use around areas of heavy traffic.

- Length per roll: 60', sold by the foot

THR 59514-7731 ** 1" Black
THR 59515-7732 2" Black
THR 59512-7733 4" Black

** While Stock Lasts

3M Safety Walk Edge Sealing Compound



- Protects exposed edges of slip-resistant tapes and treads from excessive moisture or liquids
- One 5-ounce tube with convenient tube applicator seals approximately 75 to 100 linear feet

THR F-999-5OZ

► Also See KiwiGrip pg 07-014

Sea-Dog Adjustable Rail Mount Flagpoles



- 304 stainless steel, injection moulded nylon and polypropylene
- Attach to 7/8" or 1" tubing

SED 327122-1 17"
SED 327124-1 30"

Sea-Dog Bow Form Flagpole



- Formed 304 stainless steel
- Fits bow forms with 1/2" diameter flag pole mounting holes
- Comes with split rings
- Length: 13-3/16"

SED 328110-1

Sea-Dog Pulpit Flagpole



- Formed 304 stainless steel
- Fits 7/8" - 1" tubing
- Comes with fasteners and split rings
- Length: 15-1/2"

SED 328115-1

Sea-Dog Side Mount Flagpole



- Formed 304 stainless and injection moulded nylon
- Pole easily removed for storage
- Length: 20-1/4"
- Use #8 FH fasteners

SED 328120-1

Sea-Dog Adjustable Bow Form Flagpole

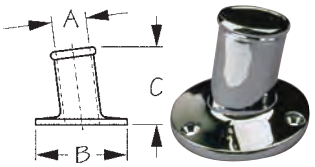
NEW



- Attaches flags using nylon pennant mounts with spring wire quick release clips
- Pennant mounts can move in either direction on the flagpole
- 1/2" pole constructed of highly polished heavy wall stainless steel tubing

SED 328112-1 17"

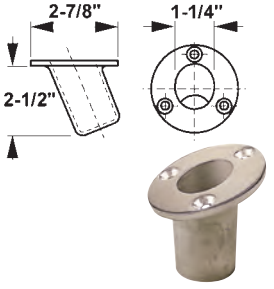
Sea-Dog Flag Pole Sockets



- 10° angled design stern socket
- Chrome plated sand cast brass

Part #	A	B	C	Fastener
SED 492211-1	3/4"	2"	1-3/4"	#6 FH
SED 492212-1	1"	2-1/2"	2"	#6 FH
SED 492213-1	1-1/4"	2-3/4"	2-1/8"	#6 FH

Sea-Dog Flush Mount Flag Pole Socket



- Investment cast 316 stainless steel
- 25° angle
- Use #12 FH screws

SED 491713-1

Sea-Dog Flag Pole Sockets



- Investment cast 316 stainless steel
- 10° angle
- Flag pole is held in place by a set screw
- Use #10 FH screws

SED 491912-1 1" socket
SED 491913-1 1-1/4" socket

Taylor Made Charlevoix Flag Clips



- One piece clip attaches semi-permanently
- Keep flags in place at speeds to 50 mph
- Flags can be attached or removed in seconds
- The clips can also be removed, if desired

TAY 57928 7/8" to 1" Poles

Taylor Made Stainless Flag Pole



- All 304, highly npolished, stainless steel construction
- Rake is 10 degrees
- 18"
- Fits 12" high flag
- Includes #10 PH fasteners

TAY 902

Taylor Made Rail Mount Flag Sockets



- Stainless steel mounts
- Fasten to 7/8"- 1" or 1-1/8" - 1-1/4" rails
- Mount perpendicular to the rail and are made for 1" diameter flag poles

TAY 973 7/8" to 1" rails
TAY 974 1-1/8" to 1-1/4" rails

Whitecap Teak Flag Poles



- Solid teak
- Traditional ball cap style

WHI 60748 18" L, 3/4" dia
WHI 60750 24" L, 1" dia
WHI 60752 30" L, 1" dia
WHI 60754 36" L, 1-1/4" dia
WHI 60756 48" L, 1-1/4" dia

Whitecap Flag Pole Sockets



- Polished brass
- Top mounted

Part #	Tube ID	Base	Height
WHI S-5001B	3/4"	2"	1-3/4"
WHI S-5002B	1"	2-1/2"	2"
WHI S-5003B	1-1/4"	2-3/4"	2-1/8"

Du-Bro Flag Clips

1500



Made of stainless steel and spring loaded to hold on securely at speeds up to 65 mph.

- 2/pkg

1501



Halyards/Outriggers
DUB 1500 Standard clips

Antennas
DUB 1501 Wide w/soft grips

1502



Sternlights/Flagpoles
DUB 1502 Large diameter attachments

Scythes Inglefield Clips



- All zinc die-cast clips sold as sets

FLY 16-411004

Sea-Dog Nylon Flagpole Pennant Mounts & Stainless Clips



- Set of 2

SED 328197-1

Sea-Dog Rail Mount Flagpole



- 304 stainless steel and injection moulded nylon
- Length: 15-1/2"

SED 327120-1

Flying Colours Flags

- Screen printed on standard weight nylon
- Individually packaged
- Sizes to 30" use brass grommets, 36" up have a wood toggle

FLY CDN-18x9"
FLY CDN-24x12"
FLY CDN-30x15"
FLY CDN-36x18"
FLY CDN-54x27"
FLY CDN-72x36"
FLY CDN-90x45"



FLY 34003618TA Heavy sewn, 36" x 18"
FLY 34005427TA Heavy sewn, 54" x 27"
FLY 34007236TA Heavy sewn, 72" x 36"

FLY BC-18x9"
FLY BC-24x12"
FLY BC-36x18"
FLY BC-54x27"
FLY BC-72x36"



FLY USA-18x9"
FLY USA-24x12"
FLY USA-36x18"
FLY USA-54x27"
FLY USA-72x36"



Jabsco 4" Bilge Blowers



- Reinforced plastic housing
- Automotive type motor for long life
- Low current operation
- 250 CFM
- H: 9" x W": -3/4" x L: 8-3/4"

JAB 35400-0000 12V, 15 amp
JAB 35400-0010 24V, 7.5 amp

Jabsco 4" Continuous Duty Bilge Blowers



- Flange mount
- 250 CFM
- Minimum 10,000 hour motor
- H: 9-1/8" x W: 8-3/16" x L: 8"

JAB 35760-0092 12V, 11 amp
JAB 35760-0094 24V, 6 amp

Jabsco 3" Flexmount Bilge Blower



- Reinforced plastic housing
- Automotive type motor for long life
- Low current operation
- Can be rotated in the mounting bracket to facilitate installation
- 3" intake
- 105 CFM
- 5-1/2" H x 5" W x 6-3/4" L

JAB 35515-0010 12V, 4.3 amp

Delta 'T' Marine LIL' Champ 4" Bilge Blowers

- High-impact marine grade plastic housing
- Internally mounted motor for compact design
- Sealed D/C direct-drive motor. The motor is a totally enclosed (TEAO), double-shielded, ball bearing type, which is constructed with die cast aluminum end plates, O-ring seals, stainless steel shaft and tough black Teflon epoxy coating for superior corrosion resistance.
- Dynamically balanced armatures for quiet vibration-free operation
- Includes universal powder coated bracket
- 4" with flow rates to 350 CFM
- H: 10" x W: 4.43" x D: 11.5"



DTS 500-304121-IP 12V
DTS 500-304242-IP 24V

Parts:

DTS 505-201251 Hose adapter for intake

Sea-Dog Hose Vent Elbow



- Injection molded ABS
- Hose vent elbow works in conjunction with flush thru-vent part numbers, SED 337326, SED 337316 and SED 337376
- Diameter: 3"

SED 337350

Rule Inline Bilge Blowers

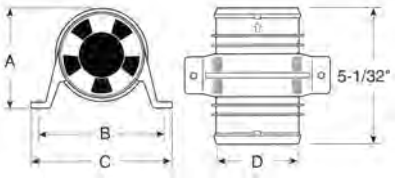


- Front and rear seals
- Corrosion resistant motor housing

Part #	Size	Volts	CFM	Amps
RUL 140	3"	12	135	2.9
RUL 240	4"	12	235	4.3

Attwood Inline Turbo Bilge Blowers

- Corrosion-proof ABS housing dampens sound and vibration
- Small compact straight-thru design, integral mounting bracket and hose retention tabs
- Fan features a nose cone and specially cambered stator vanes
- 3-year warranty





Size	A x B x C x D
3"	3-5/8" x 4-1/2" x 5-1/16" x 3"
4"	4-17/32" x 5-1/2" x 6-1/16" x 4"

Part #	Size	Volts	CFM	Amps
Water-resistant				
ATT 1733-4	3"	12	120	2.6
ATT 1749-4	4"	12	200	2.5
ATT 1751-1 †	4"	24	200	1.5

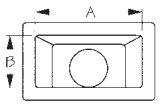
† Sold in bulk

Sea-Dog 3" Bilge Blower



- 12V, 3 amp
- ABS construction
- 100 cubic feet per minute
- Use 1/4" fasteners
- H: 5-1/2" x W: 7-1/4" x D: 5-1/4"

SED 435210





Sea-Dog Collector Boxes

- Vacuum formed ABS plastic
- Depth: 5"

Part #	Hose	A	B	Use W/Vent	Mount
SED 331293	3"	12-1/4"	3-5/8"	331290 337290	Right
SED 331294	4"	12-1/4"	3-5/8"	331290 337290	Right
SED 331296	3"	12-1/4"	3-5/8"	331290 337290	Left
SED 331298	4"	12-1/4"	3-5/8"	331290 337290	Left

Attwood Collector Boxes

- Black polystyrene construction
- Designed for air intake or exhaust



- For 3" hose
- Use with model 1494 and 1425 vents
- W: 15/16" x L: 15-7/16" x D: 4"

ATT 1341-1



- For 3" hose
- Use with model 1495 vent
- W: 2-3/16" x L: 16" x D: 3-15/16"

ATT 1345-1



- For 4" hose
- Use with model 1438 and 1439
- W: 2-3/4" x L: 18" x D: 5"

ATT 1348-1

► *Also See* Blower Hose pg 10-009

Attwood Flush Louvered Vent

- Canted louvres
- Vent can be painted to match boat gelcoat
- ASA plastic UV stable, will not discolour
- Use #8 screws
- W: 2-3/4" x L: 17-9/16" x H: 1/4"



ATT 1425-5 White

Attwood Venturi Vents

- ABS plastic, will not discolour or corrode
- W: 2-3/4" x L: 17" x H: 11/16"
- Installation hole: 2-1/8" x 15-1/2"



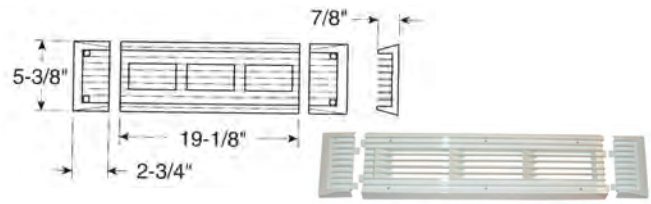
ATT 1494-A5 Black
ATT 1494-F1 White

Attwood Louvered Vents

- Made from rugged ABS plastic
- Installation hole: 2-1/4" x 16"
- L: 17-7/8" x W: 3-7/16" x D: 3/4"



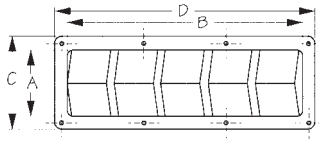
ATT 1495-1 Off-White
ATT 1495-A1 Black



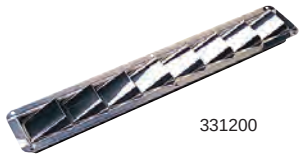
Attwood Modular Vents

- Modular construction allows vents to fit many ventilation openings by interlocking two or more centre sections
- A.B.S plastic will not corrode or discolour

ATT 1438-F1 Centre white
ATT 1439-F1 End white



Sea-Dog Slotted Vents



331200

- Stamped 316 stainless steel
- Use #6 R.H. fasteners

Part #	A	B	C	D	Louvers
SED 331200	1-7/8"	15-1/4"	2-7/8"	16-3/8"	8
SED 331290-3	3-5/8"	12"	4-1/2"	12-7/8"	5
SED 331300	3-5/8"	7-1/8"	4-1/8"	8-1/8"	3

Sea-Dog Louvered Vents

- Injection molded ABS plastic
- L: 17-1/2" x W: 2-5/8" x D: 1-7/8"



SED 337210-1 White
SED 337211-1 Black

Sea-Dog Slotted Vents

- Injection molded ABS plastic
- 5 louvre engine vent
- L: 13-1/4" x W: 4-3/4" x D: 1-1/16"



SED 337290 White
SED 337291 Black

Perko Louvered Vents

- Chromed brass
- Use #4 RH fasteners



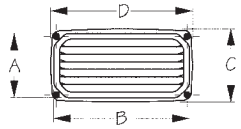
334



335

Part #	Size	Louver Length	# of Louvers
Horizontal x 2			
PER 334-002-DP **	3" x 2-1/2"	2"	2
Horizontal x 3			
PER 335-009-DP **	8" x 3"	2"	9
PER 335-09A-DP **	11" x 3-1/2"	3"	9

** While Stock Lasts

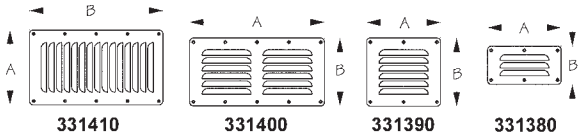


Sea-Dog Louvered Vents



- Injection molded black ABS plastic
- Use #8 FH fasteners

Part #	Colour	Cutout		Overall	
		A	B	C	D
SED 337500	Black	2-15/16"	6-7/8"	3-7/8"	7-7/8"
SED 337501	White				

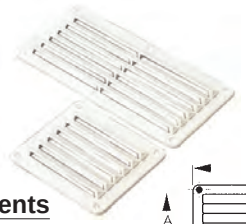


Sea-Dog Louvered Vents

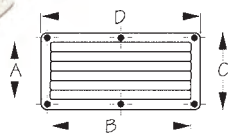


- 304 stamped stainless steel
- Use #6 RH fasteners

Part #	A	B
SED 331380-1	5"	2-5/8"
SED 331390-1	5"	4-5/8"
SED 331400-1	9-1/8"	4-5/8"
SED 331410-1	5"	9"



Sea-Dog Louvered Vents



- Injection molded ABS plastic
- Use #8 FH fasteners

Part #	Colour	Cutout		Overall	
		A	B	C	D
SED 337390-1	Black	3-11/16"	4-1/4"	4-7/8"	5-1/2"
SED 337391-1	White	3-11/16"	4-1/4"	4-7/8"	5-1/2"
SED 337400-1	Black	3-11/16"	9"	4-7/8"	10-1/8"
SED 337401-1	White	3-11/16"	9"	4-7/8"	10-1/8"

Sea-Dog Locker Vent



- Stamped 304 stainless steel
- Use #8 RH fasteners
- L: 6-3/4" x H: 2-3/8"

SED 331620-1

Perko Transom or Locker Vent



- Chrome plated zinc
- Grill type screen
- L: 6" x H: 2"

PER 1271-DP-CHR

Sea-Dog Cowl Vents



- White PVC with red inside cowl
- Cowl snaps on to deck plate securely
- Cowl may be removed and replaced with flush deck plate closure
- Vents come complete with deck plate

Part #	Description	Height	Cut Out
SED 727135-3	3" Standard vent	7-3/4"	3-3/4"
SED 727139	3" Deckplate only		
SED 727145-3	4" Standard vent	9-1/4"	4-3/4"

Sea-Dog Low Profile Cowl Vents



- White PVC with red inside cowl
- Cowl snaps on to deck plate securely
- Cowl may be removed and replaced with flush deck plate closure
- Vents come complete with deck plate

Part #	Description	Installed Height	Cut Out
SED 727130-3	3" Low profile vent	4-1/4"	3-3/4"
SED 727140-3	4" Low-profile vent	5-1/8"	4-3/4"
SED 727139	3" Deckplate only		
SED 727149	4" Deckplate only		
SED 727131	Replacement cowl only for 727130		

Attwood Cowl Vent



For use with 3" I.D. ventilation hose. Features flexible hose flange that is screwed onto base, then vent snaps onto the plastic flange.

- Chrome-plated die-cast Perma-Plate ZAMAK
- Use #8 fasteners
- L: 6" x W: 5-5/16" x H: 2-1/4"

ATT 1364-A1

Perko Cowl Vent



- Chrome plated zinc for 3" duct
- Cowl opening: 7-1/3" square inches
- Use # 10 fasteners
- L: 5-1/8" x W: 4" x H: 3-7/8"

PER 870-DP-CHR

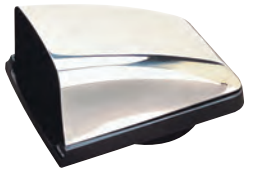
Perko Chrome Cowl Vent



- Chrome plated zinc with a black plastic base
- For 3" duct
- Opening square inches: 8"
- L: 5-3/4" x W: 4-3/8" x H: 2-5/8"

PER 1312-DP-CHR

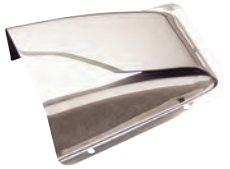
Sea-Dog Cowl Vent With Base



- Stamped 304 stainless steel
- For 3" duct
- Use #8 FH fasteners
- L: 5-7/8" x W: 4-7/16" x H: 3-5/16"

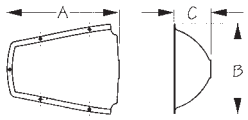
SED 331320

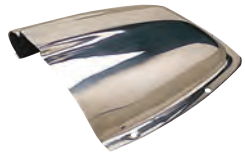
Sea-Dog Cowl Vent With Base



- Stamped 304 stainless steel
- Use #8 FH fasteners
- L: 5-3/4" x W: 4-13/16" x H: 2-5/16"

SED 331330-1



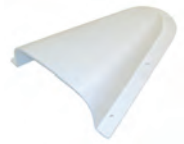


Sea-Dog Clam Shell Vents

- Stamped 304 stainless steel
- Use #6 RH fasteners

Part #	A	B	C
SED 331340	7"	5-3/4"	2-1/4"
SED 331350	7-1/2"	6-3/4"	2-7/8"

Beckson Vent



- Vacuum-formed white ABS
- White KORAD cap
- 1-1/2" H x 5-1/2" W x 7" D

BEC C-4

Gemlux Clamshell Vents



- Stainless steel heavy duty .80 thickness

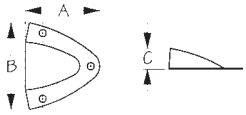
Part #	H x W x D	Fastener	Qty
GEM 839	7/8" x 1/2" x 1-5/8"	#4	2
GEM 851	9/16" x 2" x 2"	#6	1

Perko Clam Shell Vent



- Chrome plated brass
- Base dimension: 4" x 3-3/4" x 1-5/8"

PER 339-DP-CHR

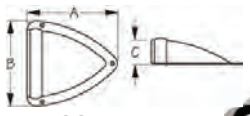




Sea-Dog Midget Vents

- Stamped 304 stainless steel
- Use #6 RH fasteners

Part #	A	B	C	Package
SED 331360	1-5/8"	1-3/4"	1/2"	Bulk
SED 331360-1	1-5/8"	1-3/4"	1/2"	Display
SED 331370	2-1/4"	2-1/8"	5/8"	Bulk
SED 331370-1	2-1/4"	2-1/8"	5/8"	Display





Sea-Dog Heavy Duty Midget Vent

- Stamped 304 stainless steel
- Reinforced rim
- Use 3x #6 RH fasteners

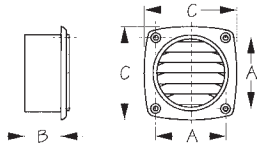
Part #	A	B	C	Package
SED 331375-1	3-3/4"	3-1/2"	15/16"	Display

T-H Marine Clamshell Vent



- Moulded from marine grade plastic
- UV, salt-water, and harsh weather resistant
- Opening: H: 9/16" x W: 1-7/8"
- Base: 2" x 2"

THM CS-1-DP

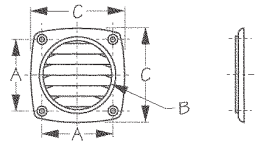




Sea-Dog Nylon Hose Vents

- Injection molded ABS
- Use #8 FH fasteners

Part #	A	B	C	Hole
Black				
SED 337325	2-13/16"	2-7/16"	3-5/8"	3"
SED 337425	3-9/16"	3"	4-15/16"	4"
White				
SED 337315	2-13/16"	2-7/16"	3-5/8"	3"
SED 337415	3-9/16"	3"	4-15/16"	4"

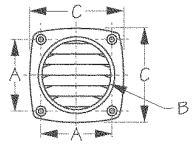




Sea-Dog Hose Flush Thru Vent

- Investment cast 316 stainless
- Use #8 FH fasteners

Part #	A	B	C	Hole
SED 337590-1	2-7/8"	2-7/8"	3-7/8"	3"

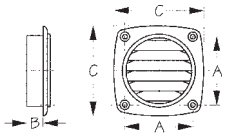




Sea-Dog Flush Vents

- Injection molded ABS plastic
- Use #8 FH fasteners

Part #	A	B	C	Hole
Black				
SED 337326-1	2-13/16"	2-3/4"	3-5/8"	to 3"
SED 337426-1	3-9/16"	3-3/4"	4-15/16"	to 4"
White				
SED 337316-1	2-13/16"	2-3/4"	3-5/8"	to 3"
SED 337416-1	3-9/16"	3-3/4"	4-15/16"	to 4"





Sea-Dog Hose Thru Vents

- Injection molded polypropylene
- Use #8 FH fasteners

Part #	Colour	A	B	C	Hole
SED 337310	White	2-13/16"	5/8"	3-5/8"	3"
SED 337320	Black	2-13/16"	5/8"	3-5/8"	3"

Sea-Dog Deck Drain/Locker Vents



- ABS plastic
- Use #10 FH fasteners

SED 340021-1 4-3/16" dia, White
SED 340041-1 5-5/8" dia, White
SED 340020-1 4-3/16" dia, Black

ITC Stainless Clad Vents



- Highly polished stainless steel clad cover plate over plastic base
- Patented press-fit that grips the cutout hole and eliminates the need for fasteners

ITC 81932SS-HP 3" (3.25" cutout)
ITC 81933SS-HP 4" (4.25" cutout)

Perko Locker Vent



- Chrome plated brass
- Use #6 R.H. fasteners

PER 330-DP1-CHR ** 2-1/2" Dia
** While Stock Lasts

Sea-Dog Drain Covers



- Stamped stainless steel
- Works well as a locker ventilator
- Use #6 RH fasteners

SED 331601-1 2-1/2" dia
SED 331600-1 3-1/4" dia

Sea-Dog Round Louvered Vents



- 304 stamped stainless steel

SED 331424-1 4"
SED 331424 4", bulk
SED 331425-1 5"

Sea-Dog Vent Plug



- Designed to be push fit into a 1" dia. round hole
- Ideal for venting areas that may be subjected to heat or moisture build-up

SED 337360-1 4/pkg

Sea-Dog Ship's Vent



- Centre knob, twist to open or close
- All stainless steel construction
- 5" diameter
- Use #6 RH fasteners

SED 331450

Sea-Dog Butterfly Vent



- Stamped 304 stainless steel
- Features side knob
- Use #6 RH fasteners

SED 331455 5" diameter

Marinco Solar Vents



New design threads into included deck plate, and is removable from outside without tools. On/off fan switch, LED lights and intake/exhaust switch accessible from inside the cabin for ease of use.

- Moves 1,000 cubic feet of air/hour or 24,000 cubic feet of air/day (4" model)
- Whisper quiet fan operation
- High capacity NiMh battery operates vent for up to 24 hours without sunlight on a full charge
- No wiring required
- Built-in on/off fan switch, LED lights and intake/exhaust switch
- Complete air and green water shut-off from below
- Complete with white plastic interior trim ring, insect screen, mounting hardware and installation manual
- Replaces NICRO 3" and 4" snap-in deck plates (fits existing holes once snap-in deck plates are removed) and Day/Night Plus models
- 2-year limited warranty

MAR N20803S 3" cutout, 3-3/4" overall
MAR N20804S 4" cutout, 4-3/4" overall

Marinco Interior Trim Ring



This 3" plastic interior trim ring finishes off interior installation of vent.

- Installed in decks between 1" and 2" thick
- White plastic construction
- Note: Interior trim rings are not compatible with threaded deck plates

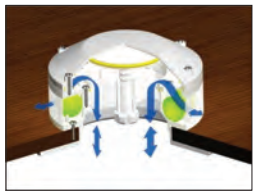
MAR N10866

Sea-Dog Mushroom Vents

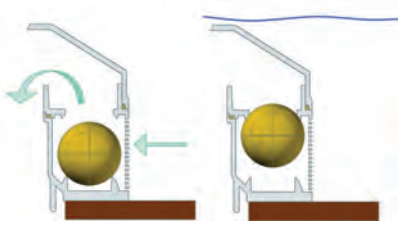


- Fully adjustable with a manual knob
- Translucent center provides additional light down below
- O-ring and gasket prevent water ingress
- Trim piece provided for thru deck installations
- Injection molded nylon with a nylon or formed 304 stainless steel cover
- Outside dia; 8", Height; 1-3/4"
- Cutout: 4"
- Trim piece dia: 5"

SED 727520-3 Stainless
SED 727525-3 Nylon, dark grey







- H 6.8cm x W: 23.0cm
- Cut-out: 9.5cm
- Free flow area: 24cm2 (3.72in2)

Modus Air Only Deck Ventilator



- Lets air in and keeps water out via the use of spherical floats
- The cover screws onto the ring, not directly to the deck. This allows removing the cover without "touching" the deck and also not spoiling a look from inside of the vessel when Air-Only Low Profile is installed on a hatch.
- Outside parts made of extremely UV-stabilized plastic Luran S
- Guarantee no weathering for 15 years
- Very strong! You can step on it
- Complete with cabin ring and all fitting screws

MOD DSLP-BLACK

Modus Breezy Electric Ventilator

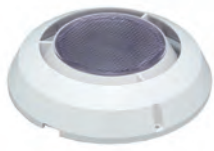




- Fits "built-in" with the Air-Only deck ventilator DSLP-BLACK (above)
- Long-life, 2-speed, computer controlled motor (12 or 24 volts)
- Knob for opening/closing the deck vent
- Provides exhaust or intake (turn the motor round) ventilation
- 0.12 amps for 12 volt and 0.10 amps for 24 volts
- Complete set with all fitting screws
- Free flow area: 52 or 67 cubic metres per hour
- L: 7.6" x W: 4.8" cm x H: 2" cm

MOD B12

Marinco Airvent 500



- Passive exhaust vent
- ABS construction with a frosted polycarbonate centre panel which allows light down below
- Moves 600-1000 cubic feet of air per hour in a 15 knot breeze
- Locking shut-off damper operated from below
- Screws directly to the deck
- Height: 1-3/4", Dia: 7", and uses a 3-3/4" cut out hole

MAR 28810

Vetus Mushroom Vents



- Polished 316 stainless steel construction
- Includes mosquito screen and synthetic counter flange

Part #	Flow Area Square inch	Dia	Cutout	Fastener
VTS PORTOS	Flow 4.7"	4-5/8"	3-11/32"	#8
VTS ATHOS1	Flow 7.2"	6"	4-13/16"	#8

Vetus UFO Deck Vent



- Stainless steel permanently open ventilators
- Rain and splash proof
- Complete with a plastic ventilation grill
- Outside dia; 7-7/8", Height; 1-13/16"
- Finishing grill Dia: 4-13/16"
- Use #8 fasteners

VTS UFO

Accessories:

VTS FAN12 12V fan
VTS FAN24 24V fan

Vetus Electric Ventilators

- Fan is hardly audible and suitable for installation to both ceiling and wall
- Motor has a life-time of not less than 50,000 hours and can run continuously
- The capacity is 42 cfm
- 24 AWG wire leads
- 3x #6 fasteners (not included)
- Provided with a switch for 2 speeds
- Designed to fit UFO deck vent
- Dia: 5.12" x Height: 2.36"; 3" cut-out



VTS FAN12 12V, 1.7W, .145A
VTS FAN24 24V, 1.8W, .073A

Mecca Tank Vent



- 316 stainless steel with bronze retaining nut
- 30 mesh monel wire screen for a flame arrester
- Use for gas, waste or water tanks
- Uses NPT thread, 2-1/2" long threads

MEC 1-1/2"NPT 1-3/4" head diameter

Perko Gas Tank Vents



- Chrome plated pressure cast bronze
- Monel wire mesh screening

Part #	Hose Size	Max.Thickness
PER 509-DP4-CHR	5/8"	3/4"
PER 509-DP5-CHR	3/4"	5/8"

Perko Gas Tank Vents



- Chrome plated pressure cast bronze
- Monel wire mesh screening
- Max. hull thickness: 5/8"

PER 515-DP3-CHR 3/8"
PER 515-DP4-CHR 1/2"

Perko Gas Tank Vent



- Chrome plated pressure cast bronze vent with bronze elbow
- Monel wire mesh screening
- Max. hull thickness: 7/8"
- 1/2" x 1/2" pipe

PER 503-DP4-CHR

Perko Gas Tank Vent

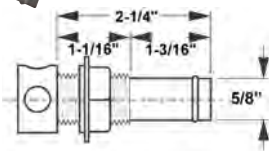


- Chrome plated zinc
- Monel wire mesh screening
- Hose size: 5/8"
- Max. hull thickness: 3/4"

PER 506-DP4-CHR



Sea-Dog Gas Tank Vent



- 316 stainless steel
- For 5/8" hose
- Comes with gasket

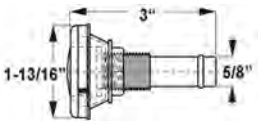
SED 352210-1

Gemlux Flush Mount Gas Tank Vents



- Can be installed with vent up or down
- Extra wide flange
- Includes GEMLUX screen, vent cover, thin backing plate and thick backing plate
- Fits 5/8" hose
- Requires a 1-1/2" cutout

GEM 954	90° elbow, 5/8 hose
GEM 956	Straight, 5/8" hose
GEM 955	90° elbow, 3/4" hose



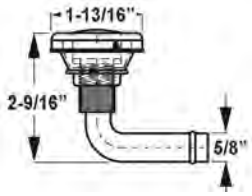
Sea-Dog Flush Mount Tank Vent



- Investment cast 316 stainless steel
- Comes with gasket

SED 353210-1





Sea-Dog Flush Mount Tank Vent

- 90° vent
- Investment cast 316 stainless steel construction
- Comes with gasket

SED 353230-1

Vetus Gas Tank Vents



- Stainless steel construction
- Includes a stainless steel gauze, which functions as a flame arrester
- Suitable for tanks for drinking water, fuel and waste water

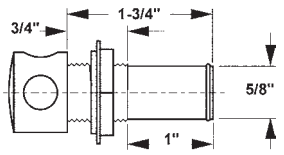


Part #	Type	Hose	Cutout
VTS AB16S	Straight	5/8"	1-1/2"
VTS AB19S	Straight	5/8"	3/4"
VTS AB16B	Angled	5/8"	1-1/2"
VTS AB19B	Angled	5/8"	3/4"
VTS AB25B	Angled	1"	2-1/64"
VTS AB38B	Angled	1-1/2"	2-7/8"

► *Also See* Deck Fills pg 04-016 to 018



Sea-Dog Gas Tank Vent

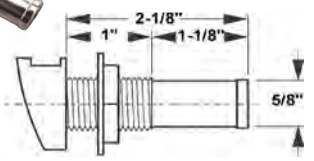


- Die cast zinc, chrome plated
- For 5/8" hose
- Comes with gasket

SED 352110-1



Sea-Dog Gas Tank Vent

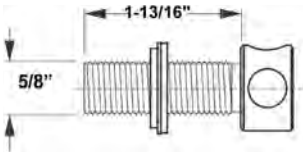


- Die cast zinc, chrome plated
- For 5/8" hose

SED 352100-1



Sea-Dog Gas Tank Vent

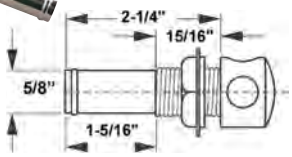


- Machined brass, chrome plated
- For 5/8"-18 NFT
- Comes with gasket

SED 352020-1



Sea-Dog Gas Tank Vent

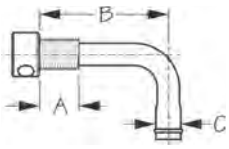


- Machined brass, chrome plated
- For 5/8" hose
- Comes with gasket

SED 352010-1



Sea-Dog 90° Gas Tank Vents

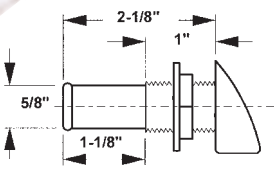


- For 5/8" hose
- 90° hose fitting for tight areas
- Comes with gasket

Part #	A	B	C	Construction
SED 352030-1	7/8"	2-3/8"	5/8"	Chromed brass
SED 352230-1	1"	2-5/8"	5/8"	316 S/S
SED 352230	as above sold bulk			



Sea-Dog Gas Tank Vents



- Injection molded nylon
- For 5/8" hose

SED 357100-1	Black
SED 357105-1	White

Perko Black Gas Tank Vent with Swivel Elbow



- Black plastic cap with zinc alloy elbow
- Removable mesh stainless steel screen
- Allows elbow to be rotated to any position
- Max. hull thickness: 3/4"
- Hose size 5/8"

PER 571-DP4-BLK

Marine East Gas Tank Vents



- Black plastic vent
- 1-1/4" diameter head
- 100° hose barb for 5/8" hose
- Max. hull thickness: 3/4"

MEP 3012
MEP 3050 ** Fluted cap
** While Stock Lasts

Attwood Gas Tank Vent



- Extremely splash resistant
- Polypropylene construction
- Stainless steel fine meshed screen
- For use with 5/8" I.D. hose
- Installation hole diameter: 3/4"
- Max. hull thickness: 7/16"

ATT 1607-3

Attwood 90° P-Trap Fuel Tank Vent

These low profile fuel tank vents help prevent water from entering the fuel tank during normal sea conditions and washdowns. The patented design features a series of baffles and traps keeping water out and eliminating the need for an anti-siphon loop in the vent hose.



- For 5/8" I.D. hose
- Hull thickness: 1/4" - 9/16"

ATT 1671-1 Black with white cover

Attwood P-Trap

- Weathertight and watertight and ensures no liquid water will reach a fuel vent line, carbon canister or fuel tank
- Allows air to vent freely during normal sea conditions and washdowns and meet the ISO 10088 requirement for minimum venting area
- For 5/8" I.D. hose. Meets ABYC Standard.
- Cover can be removed for vent inspection, debris removal and fuel system pressure testing
- 2 year warranty



ATT 1684-1

► *Also See* Deck Fills pg 04-016 to 018

► *Also See* EPA Tank Vents pg 09-018 to 019

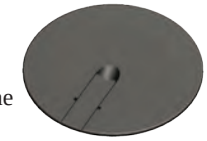
Bomar Locking Centre Deck Plates



- High impact, polycarbonate UV stabilized deck plates
- Acetone resistant
- Centre plate has a nonskid finish, unique finger-tip lift and twist locking mechanism, and an O-ring seal
- Use #10 FH fasteners

Part #	Size	Colour	I.D.	O.D.	Cut Out
BOM G840	8"	White	7-5/16"	10-9/16"	8-1/2"
BOM G844	10"	White	9-1/4"	12-1/2"	10-1/2"
BOM G845	10"	Black	9-1/4"	12-1/2"	10-1/2"

Sea-Dog Pop-Out Deck Plates



- Integrated pop-up lever
- Concealed fasteners for a smooth look with 3/16" low profile
- Great for tight places and high traffic areas
- Rubber o-ring for watertight seal, and three tab snap for secure fit
- UV resistant injection molded polypropylene
- Uses #8 FH fasteners

Part #	O.D.	Cut Out	Colour
SED 336410-1	6"	4-1/8"	White
SED 336411-1	6"	4-1/8"	Black
SED 336412-1	8"	6-1/4"	White
SED 336413-1	8"	6-1/4"	Black

Tempress Pry Out Deck Plates

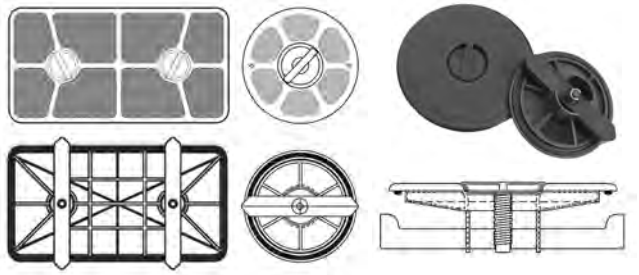


- Watertight deck plates with secure snap-fit closure and O-ring seal
- Flange has bevelled edge, pry out notch and six countersunk fastener holes
- Safety textured surface
- Structural material stands up to tough service, extreme weather, and solvents (even acetone)
- Use #8 PH fasteners

Part #	I.D.	O.D.	Cut Out	Colour
TMP 43190	5-5/8"	8-1/8"	6-1/4"	White
TMP 43195	5-5/8"	8-1/8"	6-1/4"	Black
TMP 43330	7-7/8"	10-1/8"	8-1/2"	White
TMP 43335	7-7/8"	10-1/8"	8-1/2"	Black

Parts:
TMP 70067 4" replacement O-ring
TMP 70068 6" replacement O-ring
TMP 70069 8" replacement O-ring

Armstrong Nautical Deck Plates



- Watertight - completely seals against water intrusion
- One-piece unit - no trim ring, fasteners, or sealant
- Ease of use - a turn of the "T" handle releases or secures the deck plate
- Patented design loads the deck plate at the centre, distributing sealing pressure uniformly at the seal ring

Part #	Cut Out	Outside Dia.
ARM DP-6"BLACK	6-3/4"	8"
ARM DP-6"WHITE		
ARM DP-8"BLACK	8-3/4"	10"
ARM DP-8"WHITE		
ARM DP-10"BLACK	10-3/4"	12"
ARM DP-10"WHITE		
ARM DP-10X20"BLK	10" x 20" With radius corners	11.25 x 21.25

Beckson Twist Out Deck Plate



- Deck plate conceals mounting fasteners under the quick twist cover
- Low profile cover is self-centering, features styled finger grips and quickly locks in place with a 1/8 twist
- Three separate sealing rings for a watertight closure
- Molded of high-impact plastic, with ultraviolet inhibitors
- Use #8 FH fasteners

BEC DP50-W 5" White

Beckson Screw Out Deck Plates

- Designed to provide access without the use of tools, with a single start, non-jamming (no cross-thread), self-cleaning buttress thread
- Self-aligning centre with a gasket for a watertight seal
- Back-up sealing wall leaves the plate waterproof, even if the gasket is removed
- Use #8 FH fasteners



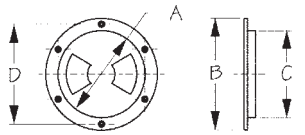
BEC DP40-W 4" White
BEC DP60-W 6" White
BEC DP60-B 6" Black
BEC DP60-N 6" Beige
BEC DP80-N 8" Beige

Rabud Deck Plate



- Screw out 6" plastic deckplate with clear cover
- O-ring for a water tight seal
- Cutout: 6-1/2"

RHS 6"LCW

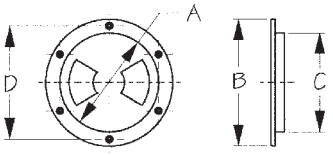




Sea-Dog Screw-Out Deck Plate

- Screw-in, molded collar deck plate
- Use 6x #8 FH fasteners

Part #	Colour	A	B	C	D
SED 337142	White	4"	5-3/4"	4-1/2"	5-1/8"





Sea-Dog Screw-Out Deck Plates

- ABS injection molded with UV stabilizers
- Use #8 FH fasteners

Part #	A	B	C	D
Black				
SED 337145-1	4"	5-3/4"	4-1/2"	5-1/8"
SED 337145	4"	5-3/4"	4-1/2"	5-1/8"
SED 337155-1	5"	6-3/4"	5-1/2"	6-1/8"
SED 337165-1	6"	8-1/4"	6-1/2"	7-1/4"
White				
SED 337140-1	4"	5-3/4"	4-1/2"	5-1/8"
SED 337150-1	5"	6-3/4"	5-1/2"	6-1/8"
SED 337160-1	6"	8-1/4"	6-1/2"	7-1/4"
SED 337160	6"	8-1/4"	6-1/2"	7-1/4"

Suffix (-1) indicates display package

Tempress Screw-in Deck Plates



- Watertight deck plate with an O-ring seal
- Grooved flange bottom for bedding compound retention
- Screw-in styrene centre
- Use #8 PH fasteners

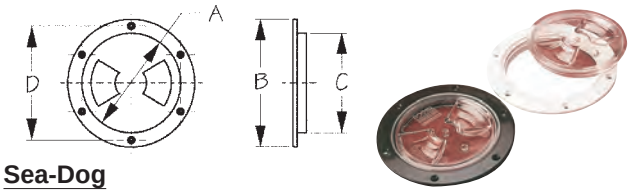
Part #	I.D.	O.D.	Cut Out	Colour
TMP 43030	4"	6"	4-1/2"	White
TMP 43033	4"	6"	4-1/2"	Dark Grey
TMP 43035	4"	6"	4-1/2"	Black
TMP 43130	6"	8-1/8"	6-3/4"	White
TMP 43133	6"	8-1/8"	6-3/4"	Dark Grey
TMP 43135	6"	8-1/8"	6-3/4"	Black
TMP 43390	8"	10-1/16"	8-5/8"	White

T-H Marine Deck Plate



- Sure-Seal watertight, screw out deck plate
- Positive "O" ring seal
- Lid overlaps frame leaving no visible mounting fasteners
- Total UV & chemical stability
- Requires no tools for opening

THM DPS-4-2-DP 4" White



Sea-Dog Screw Out Deck Plate w/Clear Centre

- Injection moulded ABS/Polycarbonate
- Allows visual inspection of watertight compartments
- Use #8 FH fasteners

Part #	A	B	C	D
Black				
SED 337146-1	4"	5-3/4"	4-1/2"	5-1/8"
White				
SED 337161-1	6"	8-1/4"	6-1/2"	7-1/4"

Sea-Dog Inspection Covers



- Injection molded ABS
- Use #10 fasteners
- Cutout: 4-1/4"
- Diameter: 5-5/8"

SED 337050-1 Black
SED 337051-1 White

Seadog Deck Plate



- Investment cast 316 stainless steel
- Cutout: 4-1/4"
- Diameter: 5-9/16"
- Use with #12 FH fasteners

SED 335654

Seadog Deck Plate Lanyard



- Designed to retain deck plate lids
- Fits all Sea-Dog deck plates
- Constructed of corrosion resistant 304 stainless steel
- Attaches to lid with #6 RH fastener (included) and to the interior hull with a #10 RH fastener (not included)
- 12" overall length

SED 337198-1

► *Also See* Deck Plate Keys pg 04-019

Clamcleat Hatch Cover



- Manufactured from ASA polymer; resistant to acetone, UV, weather and colour fading
- Winch handle socket allows for easy opening and closing even in extreme conditions
- Cover comes complete with EPDM UV resistant "O" ring seal, and deck ring has been designed with deep ribs where it comes into contact with the deck, allowing plenty of sealant
- Invisible fastener holes (6 x 4mm PH)
- Overall dia: 8.11"
- Internal dia: 5.9"
- Cutout dia: 6.5"

CLM PT-DH6W 6", White

Sea-Dog Kayak Hatch Covers





- Replacement for lost or damaged lids
- Injection molded polymer two-part construction
- Floats
- Compatible with Valley Canoe Products hatches on an injection molded rim bolted/glued to the deck (not recommended for rotomolded kayaks that do not feature this rim)

SED 745270-1 Oval, 17-1/4" x 10"
SED 746180-1 Round, 8"

Beckson Stow Away Hatch



- Opens a full 180°
- Slip clip snubbing latch holds cover closed
- Open centre cover handle provides easy finger grip to open and close
- Outside: 6-3/4" x 12-3/4"
- Hole cut-out 4-1/2" x 10-1/2"
- Use #10 FH fasteners

BEC PH410MWC-20

Beckson HT Series Access Hatches

Beckson HT Series Hatches offer a sleek, low profile (1/2") appearance, with nothing to snag lines on. Features include hidden fasteners, integral 180° hinges and easy-grip latches. Designed for horizontal or vertical installation. Integral hinge and latch systems assure perfect alignment and ease of installation. Ideal for all types of storage, bait or fish wells, and electrical or fuel line access. Nonskid, textured non-skid surface.

- ASA (Acrylonitrile Styrene Acrylate) material
- Use #10 FH fasteners



1515



Part #	Colour	Latches	I.D.	O.D.	Cut-Out
BEC HT-1115-AW	White	1	7-1/4" x 11-1/4"	10-3/4" x 14-3/4"	7-7/8" x 11-3/4"
BEC HT-1515-AW	White	2	11-1/8" x 11-1/4"	14-5/8" x 14-3/4"	11-3/4" x 11-3/4"
BEC HT-1821-AW	White	2	14-5/8" x 17"	18-1/2" x 20-1/8"	15-3/8" x 17-3/8"

Rabud Access Hatches



- Chemical resistant, white UV stabilized plastic
- Stainless steel hinges
- Use #10 FH fasteners

Part #	I.D.	O.D.
RHS 711HLAW	7" x 11"	10-1/4" x 14-3/8"
RHS 1020HLAW	10" x 20"	13-1/2" x 23"

T-H Marine Access Hatch

- An attractive and economical way to access horizontal or vertical storage areas
- Watertight - lid overlapping frame
- Two separate seals on frame and lid
- No visible fasteners
- Corrosion-free integrated hinge
- Hinges allow 180-degree opening
- Outside: 10-3/4" x 15"
- Inside: 7-3/8" x 11-1/4"
- Cutout: 8-3/4" x 12-5/8"



THM HAT-1115-1-DP

Sea-Dog Access Hatches





- 3 locking points which when engaged cause the camming surface to pull the lid into the gasket creating a water tight seal
- Injection molded polypropylene with a structural honeycomb lid for superior rigidity
- Non-slip textured surface
- Use #10 FH fasteners
- Interior opening: 11-1/8" x 7"
- Cutout: 11-13/16" x 7-3/4"
- OD: 14" x 10-1/4"

SED 336520-3 White
SED 336525-3 Black

Tempress Tackle Box Insert



- Replacement clear box for 1115 Tackle systems
- Fits all 1115 tackle hatches produced to date which contain up to 4 clear boxes
- 10-1/8" x 6" x 1-1/2"

TMP 70090

Tempress Access Hatches With Cam Latch

The Access Cam Hatch is made from a glass filled polypropylene, for strength and durability. All Access hatches are designed for heavy traffic areas, and will withstand people walking or standing upon them. Features a dog down latch, that compresses the gasket to create a weather tight seal with a quarter turn of the wrist. A patented integral hinge assembly that allows for easy lid removal. The bevelled skirted lid covers all fasteners.

Part #	Colour	I.D.	O.D.	Cut-out
TMP 44330	White	7-1/4" x 11-1/4" (1115)	10-3/4" x 15-1/8"	8-5/8" x 12-5/8"
TMP 44333	Dark Grey	7-1/4" x 11-1/4" (1115)	10-3/4" x 15-1/8"	8-5/8" x 12-5/8"
TMP 44630	White	9-1/2" x 13-1/2" (1317)	13" x 17-1/4"	10-5/8" x 14-1/2"
TMP 44530	White	9-3/8" x 19-1/2" (1323)	13" x 23-1/4"	10-7/8" x 20-13/16"
TMP 44533	Dark Grey	9-3/8" x 19-1/2" (1323)	13" x 23-1/4"	10-7/8" x 20-13/16"
TMP 44730	White	9-1/2" x 26-1/2" (1330)	13" x 30-3/8"	10-5/8" x 27-5/8"
TMP 44733	Dark Grey	9-1/2" x 26-1/2" (1330)	13" x 30-3/8"	10-5/8" x 27-5/8"



44330

Fasteners required 10 ea. #12 pan head screws for 1115
Fasteners required 12 ea. #12 pan head screws for 1317 & 1323
Fasteners required 16 ea. #12 pan head screws for 1330

Tempress Access Hatches With Slam Latch

Made from a glass filled polypropylene, for strength and durability. All hatches are designed for heavy traffic areas, and will withstand people walking or standing upon them. Features an easy close slam latch that forms a weather tight seal just by closing the hatch. Hatches also utilize a patented integral hinge assembly that allows for easy lid removal. The bevelled and skirted lid covers all fasteners for a clean look above or below decks. White

Part #	I.D.	O.D.	Cut-out
TMP 44230	7" x 11"	10-3/4" x 15"	8-3/4" x 12-5/8"
TMP 44430	9-1/2" x 19-1/4"	13" x 23-1/4"	11" x 20-7/8"



44430

Fasteners required 10 ea. #12 pan head screws for 7" x 11"
Fasteners required 12 ea. #12 pan head screws for 9-1/2" x 19-1/4"

Tempress Hatch Liners

These tough, impact resistant liners are perfect for combining with the Tempress utility hatch to make a self-contained storage compartment, live well, or dry gear locker. The 1" flanged liners are installed underneath the hatch and anchored in place when hatch flange screws are installed. The small flanged liners are dropped in place and may remain portable. White.



Part #	Dimensions	Combines with Utility Hatch
TMP 41400	7-1/4" x 11-13/16" x 6-1/2" deep	44230, 44231, 44233, 44330, 44333
TMP 41506	13" x 23" x 12" deep	44430, 44433

Freeman Aluminum Hatches



Oval & Square Hatches - Lift-Out

Freeman oval and square lift out aluminum or steel hatches are specified and used on all types of vessels (tugs, fishing boats, research vessels, rescue craft and barges). These hatches are ideal for full-size access to void spaces, storage areas or lazarettes and for fish sorting or emergency escapes. A unique, flush handle design linked to a positive four dog mechanism ensures a secure seal. Special, corrosion resistant, high strength marine alloys combined with stainless steel, delrin and chloroprene are used to build hatches that withstand torturous treatment.

- Guaranteed watertight to 30 feet of head
- Fast acting, flush, quarter turn handles
- Evenly spaced, positive locking dogs exert uniform pressure

Part #	Shape	Ring	Edge Seal	Clear Opening	Deck Cut	Overall	Cover O.D.
FRE 2431-0002	Oval	Aluminum	Compression	12" x 18"	15" x 21"	18.8" x 24.8"	14.1" x 20.3"
FRE 2433-0002	Oval	Aluminum	Compression	14.6" x 23.4"	17.6" x 26.5"	21.3" x 30.3"	16.3" x 25.9"
FRE 2433-0003	Oval	Steel	Compression	14.6" x 23.4"	17.4" x 26.5"	17.4" x 26.5"	16.3" x 25.9"
FRE 2435-0002	Oval	Aluminum	Knife Edge	19.1" x 26"	21.8" x 28.6"	25.3" x 32"	20.9" x 27.9"
FRE 2422-0002	Square	Aluminum	Knife Edge	20" x 20"	22.5" x 22.5"	26.4" x 26.4"	21.9" x 21.9"
FRE 2424-0002	Square	Aluminum	Knife Edge	24.5" x 24.5"	27" x 27"	31" x 31"	26.4" x 26.4"

Lift-Out Hatches

- Edge seal: Compression
- All Aluminum

Flush, round hatch ideal for quick access to valves and pipes, shaft alleys, void spaces, or fish sorting. The three dog mechanism ensures proper sealing tension.

Part #	Shape	Clear Opening	Deck Cut	Overall
FRE 2401-0002 *	Round	7.9"	10.3"	9.8"
FRE 2402-0002 *	Round	11.9"	14.8"	17.4"
FRE 2403-0002 *	Round	15"	17.8"	21.5"
FRE 2404-0002 *	Round	18"	20.9"	24.5"

Hinged Hatches

- Edge seal: Compression
- All aluminum

Same features as Freeman lift out hatches. The unique hinging device allows the hatch to be opened more than 180° and it "floats" when the hatch is closed to facilitate a tighter seal.

Part #	Shape	Clear Opening	Deck Cut	Overall
FRE 2441-0002 *	Round	18"	20.9"	24.5
FRE 2473-0002 *	Oval	14.6" x 23.5"	17.4 x 26.5"	21.6" x 30.5"

* Special Order









Compression Seal 2400 Series Hatches

These hatches have easy-to-clean spigots, feature long gasket life, and are economical to purchase.
Aluminum Deck Rings are intended to be weld installed into aluminum decks and bolt installed into other deck materials.
Steel Deck Rings are to be weld installed into steel decks only.
Watertight seal to 30 foot intermittent head, continuous 10 foot head toploaded pressure (on properly installed and adjusted hatch assemblies).

Knife-edge Seal 2400 Series Hatches

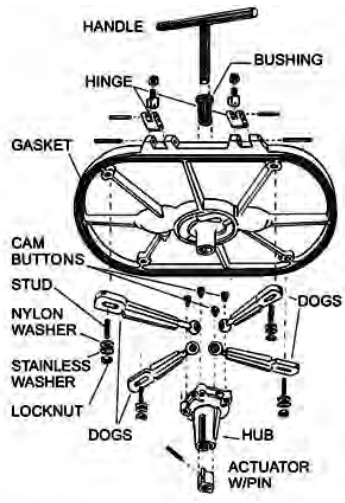
These hatches feature a coaming with drain gutter and an aggressive sealing rim edge. A drain fitting can be installed to minimize water from entering enclosure when hatch is initially opened.
Aluminum Deck Rings are intended to be weld installed into aluminum decks and bolt installed into other deck materials.
Steel Deck Rings are to be weld installed into steel decks only.

Freeman Hatch Replacement Parts

FRE 2402-1001	12" round cover plate only
FRE 2433-1001	15"x 24" aluminum cover plate only
FRE 2433-1002	15" x 24" aluminum ring only
FRE 2433-1003	15" x 24" steel ring only
FRE 2404-1002 *	Model 18 Aluminum ring only
FRE 2435-1003	19" x 26" steel ring
FRE 9801-2003	Gasket material, 12" x 18"
FRE 9801-2004	Model 15 gasket material
FRE 9801-2005	Gasket material, 15" x 24"
FRE 0211-2004	Regular arm for F/1524A
FRE 9813-2001	Gasket material, 19" x 26"

* Special Order - may have stock

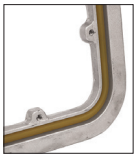
FRE 9813-2004	Gasket material, 24" x 24"
FRE 9801-2007	Model 20 gasket
FRE 0211-2001 *	Regular arm for model 12
FRE 0211-2005	Regular arm for model 18
FRE 0211-2008 *	Regular arm for model 20
FRE 0621-2004	Cam button
FRE 0031-2001	Bushing w/sleeve
FRE 0031-2064	Inside escape handle alum.
FRE 0031-2077	Aluminum actuator with pin
FRE 0411-2004	S/S knurled pin 1/4" x 2-1/4"

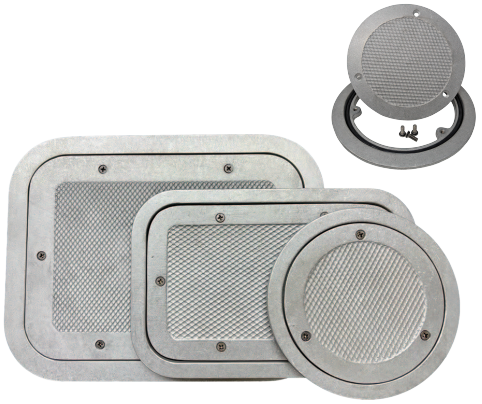


Fraser Bronze Aluminum Hatches

- Cast from marine grade aluminum alloy, with cast in non-skid surface for safety
- Economical screw down type inspection hatch
- All fasteners are stainless steel for long life
- Rubber seals
- Weld or bolt down


Round


Rectangular

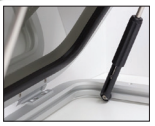


Part #	Type	I.D.	O.D.	Cut-out
FRB FR-020.45	Rectangular	7" x 12.06"	9.88" x 15"	8.88" x 14"
FRB FR-020.49	Rectangular	9.98" x 13.98"	13.53" x 17.53"	11.9" x 15.9"
FRB FR-020.5	Round	7.95"	9.5"	8.6"





Bomar Nibo Low Profile Hatches





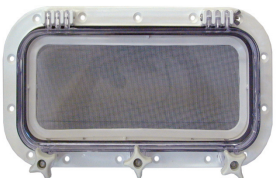
- Anodized heavy-duty aluminum frames
- Hatch has a locked vent position
- Heavy-duty acrylic top
- Fast and easy to adjust collet arm has no knobs to fall off or get caught on clothing
- Height above deck approx. 15/16"
- 1" spigot
- Use #10 FH fasteners

This hatch is in a semi-flush style for the high performance cruiser/racers. Silver anodized aluminum guarantees a long lasting finish.

Part #	Hole Cut Out X x Y	O.D. Deck Flange X x Y
BOM 1000-10A	10-3/4" x 10-3/4"	12-3/8" x 12-3/8"
BOM 1029-10A	13-3/8" x 18-1/2"	15" x 20 1/8"
BOM N1039-10A	20-3/16" x 20-3/16"	21-13/16" x 21-13/16"
BOM 1070-10A	16-9/16" x 16-9/16"	18-3/16" x 18-3/16"
BOM N1049-10AX4 †	25-1/8" x 25-1/8"	26-3/4" x 26-3/4"

† 3 hinge, 4 dog configuration

Bomar Grey Series Portlight



- No visible exterior screws
- Adjustable quick dog
- Complete with trim ring & screen
- Minimum hull thickness is 1/4″; maximum is 1-7/8″
- Angled spigot
- CE approved

Part #	Cut Out X x Y	Deck Flange X x Y OD	Spigot	Colour / Lens
BOM G512-AD27	5-1/2" x 12-1/2"	7-13/16" x 14-11/16"	2-3/8"	White Clear

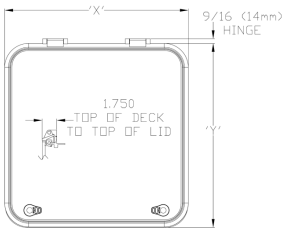








Bomar Nibo High Profile Hatches



- A heavy duty, silver anodized, aluminum extruded hatch
- Tough 9mm acrylic lens
- Extra high sealing lip on base
- Fast and easy to adjust collet arm has no knobs to fall off or get caught on clothing
- Heavy duty hinges
- The hatch has a locked vent position
- Height above deck approx. 1-3/4"
- 1" spigot
- Use #10 FH fasteners

Note: Optional screen will not install without trim ring.

Part #	Hole Cut Out X x Y	O.D. Deck Flange X x Y
BOM 2029-10AX	13-3/8" x 18-1/2"	15" x 20-1/8"
BOM 2039-10AX	20-1/4" x 20-1/4"	21-7/8" x 21-7/8"
BOM 2049-10AX †	25-1/16" x 25-1/16"	26-3/4" x 26-3/4"
BOM 2070-10AX	16-1/2" x 16-1/2"	18-1/8" x 18-1/8"
BOM N2080-10AX	18-1/2" x 18-1/2"	20-1/8" x 20-1/8"

† 3 hinge configuration

Bomar Parts for 100 Series Hatches

Bomar cast hatches can be identified by having a cast aluminum frame with molded hinges. They generally have a cast aluminum riser.


P100-07

BOM P100-07 Female knob
BOM P100-09 Latch dog assembly
BOM P100-52 9/16" gasket


P100-09

Bomar Parts for 2000 Series Molded Hatches

BOM P2000-18L-I/O	New style left latch dog assembly
BOM P2000-18R-I/O	New style right latch dog assembly
BOM P2000-20	3" high profile hinge
BOM P2000-27	Mushroom Cap
BOM P2000-25	Gasket low profile
BOM P2000-26	Gasket high profile
BOM P2000-53	Latch dog assembly right/locking
BOM P2000-52	Latch dog assembly left/locking
BOM P2000-84R	Latch dog assembly right/non-locking
BOM P2000-84L	Latch dog assembly left/non/locking
BOM P2000-75-17	Right riser arm 1039
BOM P2000-75-18	Right riser arm 1022
BOM P2000-75-21	Right riser arm 1049
BOM P2000-7510.75	Right riser arm 1029
BOM P2000-76-13	Left riser arm 1070
BOM P2000-76-17	Left riser arm 1039
BOM P2000-76-18	Left riser arm 1022
BOM P2000-76-21	Left riser arm 1049
BOM P2000-86	In./out.quick cap w/sq shaft


P2000-18L P2000-18R


P2000-84-I P2000-84-R


P2000-Arm
Arms are stamped left or right


P2000-53


P2000-27

Bomar Hatch Trim Rings & Screens

Part #	Fits Hatches	Description	Colour
BOM NS2000-EX	N1000-10A, N2000-10A	Screen	N/A
BOM NT2000-OFF-W	N1000-10A, N2000-10A	Trim Ring	Off White
BOM NS2029-EX	N1029-10A, N2029-10A, N0029-10FX, N0029-FXN	Screen	N/A
BOM NT2029-BLK	N1029-10A, N2029-10A, N0029-10FX, N0029-FXN	Trim Ring	Black
BOM NS2039-EX	N1039-10A, N2039-10A, N0039-10FX, N0039-10FXN	Screen	N/A
BOM NS7039-BK	Sewn Screen for 1039-10A	Screen	N/A
BOM NT2039-BLK	N1039-10A, N2039-10A, N0039-10FX, N0039-10FXN, N0639-10FX	Trim Ring	Black
BOM NT2039-OFF-W	N1039-10A, N2039-10A, N0039-10FX, N0039-10FXN, N0639-10FX	Trim Ring	Off White
BOM NS2049-EX	1049-10AX, 2049-AX	Screen	N/A
BOM NT2049-BLK	N1049-10A, N2049-10A, N0049-10FX, N0049-10FXN	Trim Ring	Black
BOM NT2049-OFF-W	N1070-10A, N2070-10A, N1070-10P, N2670-10AX	Trim Ring	Off White
BOM NS2070-EX	N1070-10A, N2070-10A	Screen	N/A
BOM NT2070-OFF-W	N1070-10A, N2070-10A	Trim Ring	Off White
BOM NT2090	2090-10A	Trim Ring	Black

Beckson Opening Portlights

PO410DWC-20



These "Rain Drain" portlights will self-drain while tipped at angles, up to 45°. The frame and finishing ring are made of high impact ABS plastic. Stainless steel hardware holds the Lexan window in place. Comes complete with bug screen.

Portlight #	Screen #	Gasket #	Opening	Cutout	Outside Size
BEC PO410DWC-20	**BEC SCR410**	**BEC GK-410**	4" x 10"	4-1/2" x 10-1/2"	6-3/4" x 12-3/4"
BEC PO414DWC-20	**BEC SCR414**	**BEC GK-414**	4" x 14"	4-1/2" x 14-1/2"	6-3/4" x 16-3/4"
BEC PO512DWC-20	**BEC SCR512**	**BEC GK-512**	5" x 12"	5-1/2" x 12-1/2"	7-3/4" x 14-5/8"
BEC PO714DWC-20	**BEC SCR714**	**BEC GK-714**	7" x 14"	7-1/2" x 14-3/8"	9-3/4" x 16-3/4"
BEC PO8RD-WC-20	-	-	8" round	8-1/2"	10-3/4"

Beckson Rain Shield



The external rain shield may be fastened by screws or by bonding to the exterior trim ring of opening ports.

- Projection from mounting surface: 2-1/2" (6.3 cm)
- Vertical dimension of hood overall, 3" (7.6 cm)
- Overall length: 16-3/4"
- Under hood length: 14-1/2"
- Use with 4" x 14" & 7" x 14" portlights

BEC RS-14

Beckson Cam Latches



Retro-fit your old Beckson hatches. Cam latches enable the hatch to be opened or closed with a single flip. Stronger than knobs or levers. White.

BEC PRK-AW	Complete assembly
BEC PRK-W	Cam latch only, White
BEC PRK-B	Cam latch only, Black

Beckson Twist Knobs



Molded plastic twist knobs. Available with a threaded male stud or with a female threaded ferrule.

Part #	Knob	Colour
BEC PRT-AB	1/4 - 20 Male	Black
BEC PRT-B	1/4 - 20 Female	Black
BEC PRT-W	1/4 - 20 Female	White
BEC PRT-2B	1/4 - 20 Male	Black
BEC PRT-CB	5/16 - 16 Male	Black

Perko Portlight Chain



- Stainless steel chain with chrome plated fittings
- Use #8 fasteners
- Total length: 7"
- Strap length: 1-7/8"

PER 441-DP-CHR **

** While Stock Lasts

Perko Windshield Adjusters



- Chrome plated brass and zinc
- Black plastic knob
- Use #8 fasteners

PER 1116-DP1-CHR	8"
PER 1116-DP2-CHR	10"

Parts:

PER 1117-DP-BLK	Spare knob

Perko Side Mount Windshield Adjuster



- Chrome plated zinc
- Black plastic knob
- Length: 12"
- Adjustment: 9-1/2"
- Knob diameter: 1-3/4"
- Sold in pairs
- Use #8 fasteners

PER 1290-DP-CHR

Perko Hatch Support Braces



- Chrome plated brass
- 2/pkg
- Use #8 fasteners

PER 762-DP2-CHR	12"
PER 762-DP3-CHR	14"

Sea-Dog Windshield Brace Kit



- Formed aluminum & injected molded nylon
- Includes two windshield brace feet and a 14-1/4" length of tube to be cut to size

SED 324310-1

Sea-Dog Hatch Springs



- Formed and stamped 304 stainless steel
- Internal wire prevents the spring from being overextended
- Fastener: #10 RH or 3/16" Pop rivet
- L: 8-5/8"

SED 321650	Bulk
SED 321650-1	Packaged

Sea-Dog Hatch Spring



- Formed and stamped 304 stainless steel
- Fastener: #6 RH or 1/8" pop rivet
- L: 9"

SED 321660-1

Sea-Dog Hatch Spring



- Formed and stamped 304 stainless steel
- An internal wire prevents the spring from being overextended
- Use #10 RH fasteners
- L: 10-1/8"

SED 321670-1

Sea-Dog Hatch Spring



- Heavy duty formed 304 stainless steel spring is ideal for larger hatches
- Internal safety cable that prevents spring from being overextended
- Heavy duty molded nylon pads on both ends
- Use #10 RH fateners
- L: 11-5/8"

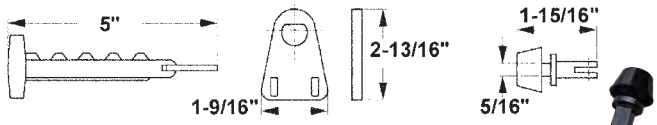
SED 321680-1

Sea-Dog Hatch Adjusters



- Stamped stainless steel and nylon
- With easy grip locking sleeve

Part #	Closed	Open
SED 321295-1	11-15/16"	17-7/8"
SED 321296-1	14-15/16"	24"



Sea-Dog Side Vent Adjuster



- Injection molded nylon push nut retainer cap with washer, stainless steel pin

SED 324380-1

Sea-Dog Hatch Adjusters



- Stamped stainless steel and nylon
- With nylon locking nut

Part #	Closed	Open
SED 321291-1	11-1/8"	17-7/8"
SED 321292-1	14-3/16"	24-3/16"

Sugatsune Spring Loaded Lid Stay



- Self opening and closing
- Satin finish 18-8 stainless steel

Part #	Length Open	Closed
SUG LK-222	8-47/64"	6-25/32"

Sugatsune Flap Stays



- Satin finish 18-8 stainless steel
- Use #8 FH fasteners

SUG HS-180 8-17/16"
SUG HS-210 9-29/64"

Lenco Electric Hatch Lifts



Lenco hatch lifts are made entirely of non-corrosive materials and are completely submersible. Inline motor design makes mounting easier and delivers over 750 lbs. of lift. Clutchless ball screw design always runs in sync on dual lift applications and never binds. Stainless steel ram locks in any position. Ballscrew spins freely when hatch is fully opened or closed eliminating limit switches and burned out motors. Motor draws 5 amps @ 12 volts. Lifts install with a single power cable.

Part #	LOA Retracted	Stroke	LOA Extended
LEN 20766-001 *	25"	8"	33"
LEN 20770-001 *	29"	12"	41"
LEN 20768-001 *	25"	12"	37"

Accessories:

LEN 15096-001 * Single rocker switch for single HL
LEN 15098-001 * Single rocker switch for dual HL



15098-001

Parts:

LEN 15085-001 * Upper mount bracket - 2008 to present
LEN 50015-001D * Upper mount bracket - 2007 & prior
LEN 50014-001D * Lower mount bracket
LEN 30133-103D 20' actuator harness w/connectors
LEN 30142-201 * 26' actuator harness w/connectors
LEN 30142-202 * 32' actuator harness w/connectors

* Special Order - may have stock

Lectrotab Linear Actuators



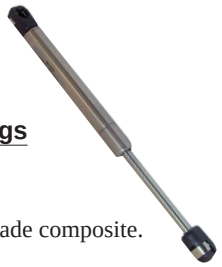
- Ideal for hatch lifts, engine covers, automated ventilation covers, seat adjustment, and a variety of other marine applications
- Uses the same internal pressure equalization system as the Lectrotab submersible trim tab models
- Can replace most popular hydraulic and electromechanical hatch lift systems
- Internal brake system prevents unwanted movement when supporting open hatches
- Precision gears for quiet operation
- Designed to push 400 lb of force, with 2,000 lb holding force
- Free-spinning ballscrew at full deployment and detraction eliminates the need for limit switches
- Non-metallic cover, stainless steel internal ram, and epoxy coated outer housing

Part #	Volts	Retracted	Stroke	Extended
LEC H-BK-12	12	24"	12"	36"
LEC H-BK-16	12	29"	16"	45"
LEC HB-BK-16	24	29"	16"	45"

Accessories:



LEC SF-HL Switch
LEC HL-SM Slide bracket assembly



Attwood Stainless Steel Gas Springs

The pressure tube and rod are super-tough 316 stainless steel alloy. All other exposed components are stainless steel or marine-grade composite.

- 8 mm rod x 18 mm cylinder

Part #	Length Open-Closed	End Fitting	Pressure lbs
ATT ST33-20#-5	15" - 9.5"	Socket	20
ATT ST33-40#-5	15" - 9.5"	Socket	40
ATT ST34-20#-5	20" - 12"	Socket	20
ATT ST34-30#-5	20" - 12"	Socket	30
ATT ST34-40#-5	20" - 12"	Socket	40
ATT ST34-50#-5 *	20" - 12"	Socket	50
ATT ST34-60#-5	20" - 12"	Socket	60
ATT ST34-80#-5	20" - 12"	Socket	80
ATT ST34-120#-5	20" - 12"	Socket	120
ATT ST36-40#-5	17.2" - 10.2"	Socket	40

Parts:

ATT SL-84-1 Spare retaining clip

* Special Order - may have stock

Attwood Gas Spring Mounting Options

Part #	Style	Mount	Holes	Finish
ATT SL-3HSS-P3-1	Flat	Ball 10mm	3	S/S
ATT SL-40SS-P3-7	Flat	Ball 10mm	2	S/S
ATT SL-40SS-P3-1	Flat	Ball 10mm	2	S/S
ATT SL-46SS-P3-1	90⁰	Ball 10mm	5	S/S
ATT SL-46SS-P3R-1	90⁰	Rev Ball	5	S/S
ATT SL-50SS-P3-7	90⁰	Rev Ball	2	S/S
ATT SL-58SS-P3-1	90⁰	Ball 10mm	2	S/S
ATT SL-62SS-BS-1	Flat	Ball 13mm	4	S/S
ATT SL-69SS-BS-1	Stud	Ball 10mm	-	S/S
ATT SL-81-1 **	Cir-clip			

** While Stock Lasts

Packaging Options
Parts ending in -7 are retail packaged by the pair
Parts ending in -1 are sold in Bulk

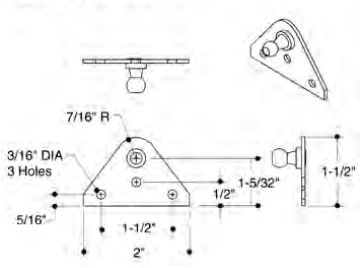
Choice of Attachment Points

Mounting brackets are available with Blade or Socket gas spring attachment points in stainless steel.



Socket End

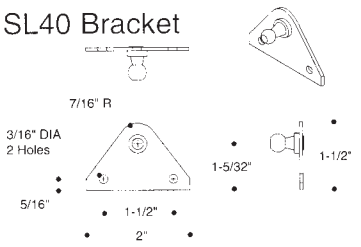
SL3H Bracket





SL-3HSS-P3-1

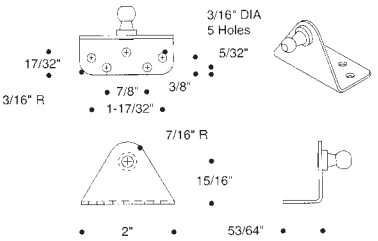
SL40 Bracket





SL-40SS-P3-7

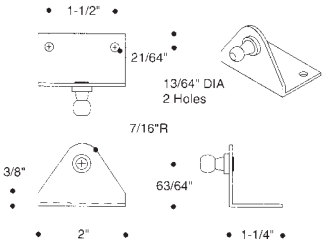
SL46 Bracket





SL-46SS-P3R-1

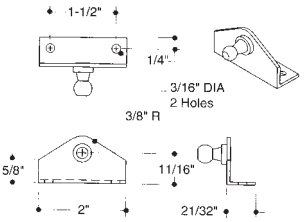
SL50 Bracket





SL-50SS-P3-7

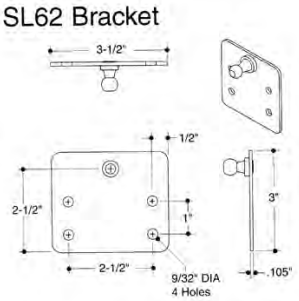
SL58 Bracket





SL-58SS-P3-7

SL62 Bracket





SL-62SS-BS-1



Attwood Springlift Gas Springs



Nitrogen filled gas springs provide an excellent solution for opening hinged panels and various other products. Doors, lids and windows can be raised and kept open with assistance, yet can be smoothly and easily closed. Various mounting brackets and fastening devices make installation quick and simple. Attwood's black rod finish is 6-8 times more corrosion resistant than chrome.

Part #	Length Open-Closed	End Fitting	Pressure lbs.
ATT SL1-20#-5	10" - 7"	Blade	20
ATT SL1-40#-5	10" - 7"	Blade	40
ATT SL3-60#-5	20" - 12"	Blade	60
ATT SL3-110#-1	20" - 12"	Blade	110
ATT SL27-100-1	28" - 16.5"	Socket	100
ATT SL27-120-1	28" - 16.5"	Socket	120
ATT SL29-80-1 †	36.3" - 21.1"	Socket	80
ATT SL30-20#-5	10" - 7"	Socket	20
ATT SL30-40#-5	10" - 7"	Socket	40
ATT SL30-60#-5	10" - 7"	Socket	60
ATT SL31-20#-5	7.5" - 5.25"	Socket	20
ATT SL31-30#-5	7.5" - 5.25"	Socket	30
ATT SL33-20#-5	15" - 9.5"	Socket	20
ATT SL33-40#-5	15" - 9.5"	Socket	40
ATT SL33-60#-5	15" - 9.5"	Socket	60
ATT SL34-20#-5	20" - 12"	Socket	20
ATT SL34-30#-5	20" - 12"	Socket	30
ATT SL34-40#-5	20" - 12"	Socket	40
ATT SL34-60#-5	20" - 12"	Socket	60
ATT SL34-80#-5	20" - 12"	Socket	80
ATT SL34-120#-5	20" - 12"	Socket	120
ATT SL35-40#-5	12.04" - 8.46"	Socket	40
ATT SL35-50#-5	12.04" - 8.46"	Socket	50
ATT SL36-30#-5	17.2" - 10.2"	Socket	30
ATT SL36-40#-5	17.2" - 10.2"	Socket	40
ATT SL36-60#-5	17.2" - 10.2"	Socket	60
ATT SL36-80#-5	17.2" - 10.2"	Socket	80
ATT SL36-90#-5	17.2" - 10.2"	Socket	90
ATT SL37-120#-1 *	26.3" - 16.1"	Socket	120
ATT SL38-60#-1	23" - 13.12"	Socket	60
† Requires a 13mm ball # ATT SL-62SS-BS-1			

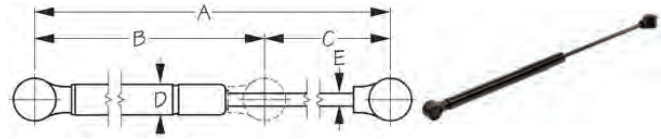
* Special Order - may have stock

Sea-Dog Gas Lift Ball Stud



- 304 stainless steel
- 10 mm ball head

SED 321586 each

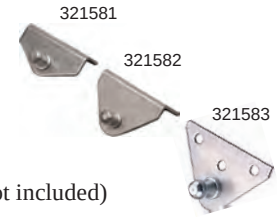


Sea-Dog Gas Lift Springs

- Hard chromium plated shafts, bronze bushings, and polymer end fittings
- Nitrogen gas filled
- Accepts 10 mm ball

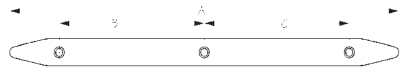
Part #	A	B	C	D	E	lbs
SED 321402-1	7.5"	5.5"	2"	15mm	6mm	20
SED 321422-1	10"	7"	3"	15mm	6mm	20
SED 321426-1	10"	7"	3"	15mm	6mm	60
SED 321464-1	15"	9-1/2"	5-1/2"	15mm	6mm	40
SED 321473-1	17"	11"	6-3/4"	15mm	6mm	30
SED 321476-1	17"	11"	6-3/4"	15mm	6mm	60
SED 321482-1	20"	12"	8-1/8	15mm	6mm	20
SED 321484-1	20"	12"	8-1/8"	15mm	8mm	40
SED 321488-1	20"	12"	8-1/8"	15mm	8mm	80
SED 321489-1	20"	12"	8-1/8	18mm	8mm	90

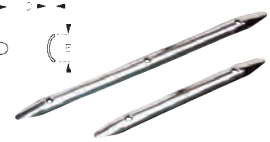
Sea-Dog Gas Lift Mounts



- 304 stainless steel
- 10 mm ball head
- Install with #10 RH fasteners (not included)

SED 321581-1 L: 2" x W: 5/8" x H: 1-1/8", 2 hole, 90°
SED 321582-1 L: 2" x W: 1-1/4" x H: 1-1/2", 3 hole, 90°
SED 321583-1 L: 2-1/4" x H: 1-1/2", 3 hole, flush





Sea-Dog Rub Strakes

- Polished, stamped 304 stainless steel
- Use #8 FH screws

Part #	A	B	C	D	E
SED 055408-1	8"	5"	N/A	1/4"	3/4"
SED 055412-1	12"	4-1/2"	4-1/2"	1/4"	3/4"
SED 055418-1	18"	7-1/2"	7-1/2"	1/4"	3/4"
SED 055424-1	24"	7-1/16"	7-1/16"	1/4"	3/4"

Taco Stainless Steel Rub Strake



- 304 stainless steel, highly polished
- 1" H x 1/4" W x 24" L

TAC S11-1800P24

Taco Rub Rail Ends



- 304 stainless steel, highly polished
- 3/4" fits S11-4510P12 and 1" fits the S11-4650P12
- W: 1/4" x L: 12"

TAC S11-2000P12 3/4"
TAC S11-2001P12 1"

RUB RAILS

SPHÆRA RUB RAIL

Sphæra is the revolutionary fender profile, made of stainless steel co-extruded with rigid and shockproof PVC.

CORE

The stainless steel profile is easily adaptable to the hull shape thanks to the Duralene core. Its patented process prevents deformations and allows bending on difficult angles with a minimal effort.

Part #	Description	Size	Sold by
TES T130-130-125-3 *	S/S 25 Series Bar	1" x 9.8 ft	each
TES T130-130-135-3 *	S/S 35 Series Bar	1-3/8" x 9.8 ft	each

Two Installation Options



Fitted alone

BASE

The PVC base is supplied in custom-cut reels, thus avoiding unsightly joints, breaks, and misalignment.

Part #	Description	Height	Bend Radius	Colour	Sold by
TES T130-130-040-W *	PVC 25 Series Base	1-5/8"	1-1/8"	White	foot
TES T130-130-050-W *	PVC 35 Series Base	2"	2-7/8"	White	foot



Fitted with PVC base

JOINT & END CAP

The joint caps keep the bars perfectly aligned, thus avoiding multiple and unnecessary drillings. The end caps provide the finishing touch for a streamlined finish.

Description

TES T130-500-125 * 25 Series S/S joint cap
TES T130-500-135 * 35 Series S/S joint cap
TES T130-500-725 * 25 Series S/S end cap
TES T130-500-735 * 35 Series S/S end cap

* Special Order - may have stock



RADIAL RUB RAIL

Fast and easy to install, Radial is the PVC fender profile without rivals. It's different from all other profiles on the market, and can be cold fitted in just a few steps.
(Note: Radial cannot be fitted on flat surfaces, refer to the Bino series)





ADVANTAGE

- Seamless installation
- Easy to repair or refit
- Quick setup
- Saving 2/3 of assembling time

BENDING

- Extremely flexible
- Easy to bend
- Perfect hull adhesion

Part #	Description	**Colour**	Height	Bend Radius	Sold by
TES T130-141-006-2 *	30 Series Insert	White	-	2"	each 6' 5"
TES T130-141-007-B *	30 Series Rub Rail	Black	1-1/8"		foot
TES T130-141-007-W *		White			
TES T130-141-011-2 *	40 Series Insert	White	-	2-3/8"	each 6' 5"
TES T130-141-012-B *	40 Series Rub Rail	Black	1-5/8"		foot
TES T130-141-012-W *		White			

JOINT & END CAP

Elegant stainless steel end caps give the finishing touch to the boat.

Description

TES T130-500-500 * 30 Series S/S end cap
TES T130-500-510 * 40 Series S/S end cap

* Special Order - may have stock



BINO RUB RAIL

Bino is Tessilmare's solution to installation on a flat surface. An innovative design gives this two-piece fender (optional pre-drilled fixing stainless bar) a high protection against shock and makes it suitable for docks, piers, military boats and workboats.



90 Series shown with optional steel mounting bar

INSTALLATION

- Sold as 2-piece complete
- Optional reinforcement bar available

Part #	Description	Height	Sold by
TES T130-115-005-B *	65 Series Rub Rail	2-1/2"	foot
TES T130-115-010-B *	90 Series Rub Rail	3-1/2"	foot

Description

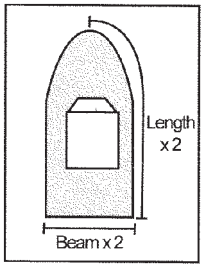
TES T130-500-095-B * 90 Series PVC end cap
TES T130-500-092-B * 65 Series PVC end cap
TES T130-110-165-1 * Steel bar, 3' long

* Special Order - may have stock



Taco Rub Rail Kits

Taco's vinyl extrusions incorporate prime virgin resins, U.V. inhibitors, plasticizers, fungicides, impact modifiers, and other additives to ensure outstanding weatherability and performance.



RUB RAIL SELECTION TIPS

MEASURING YOUR BOAT

1. Measure the length and beam
2. Add them together and multiply by two
3. This is the minimum length of rub rail required for your boat

RUB RAIL SELECTION

- You can replace your rub rail with a factory replacement style or a completely different look. Regardless of the material originally installed by the builder of your boat, feel free to choose the material and style you desire
- It is easier to install if you remember to choose a rub rail that is at least the same height as the original
- Flexible vinyl rub rail is the easiest to bend and provides a cushioning effect when in use against normal bumps
- Rigid vinyl and aluminum rub rail with flexible vinyl inserts, last long and are easy to install in straight runs
- Rigid vinyl rub rail with stainless steel overlap provides the best protection and the longest useful life

Rub Rail Features

Flexible Rub Rail

- Soft durometer rub rail provides cushion effect to absorb impact
- Tight radius bends require minimal heat
- Continuous coil for easy one-piece seamless installation



V11 0809

Semi-Rigid Rub Rail

- Hard durometer creates rigid-like look
- Tight radius bends require minimal heat
- Continuous coil for easy one-piece seamless installation



V11 2423

SuproFlex

- Co-extruded to provide two levels of hardness
- Semi-rigid backing and hard durometer front
- Shock absorbing channels for higher impact resistance
- Lighter weight than traditional vinyl rub rail
- Requires no pre-forming and minimal heating
- Continuous coil for easy one-piece seamless installation

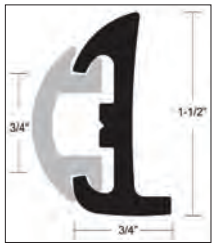


V11 3447

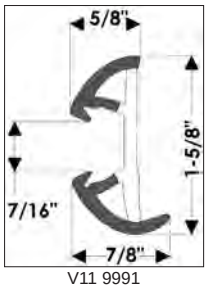
Taco D.I.Y. Rub Rail Kits

Kits include:
- Coil of Rub Rail
- Insert
- End caps
- Screws, & installation guide

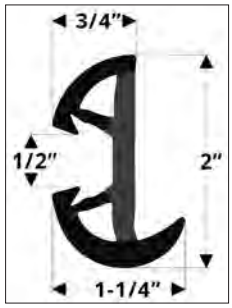




V11 9795



V11 9991



V11 9993

Kit Part #	Type	Length	Rub Rail Colour	Insert Colour	Insert	End Cap
TAC V110809BWK502	Flexible	50	Black	Arctic White	V12-0810	F90-0750
TAC V110809BBK502	Flexible	50'	Black	Black	V12-0810	F90-0750
TAC V112423BBK502	Flexible	50'	Black	Black	V12-0003	F90-0001
TAC V113447BBK702	Flexible	70'	Black	Black	V12-0003	F90-0002
TAC V113447BWK502	Flexible	50'	Black	Arctic White	V12-0003	F90-0002
TAC V119795BBK50D2	Semi-Rigid	50'	Black	Black	V12-4144	F90-0002
TAC V11-9991BBK60-2	SuproFlex	60'	Black	Black	V12-9992	F16-0039
TAC V11-9991WWK60-2	SuproFlex	60'	Arctic White	Arctic White	V12-9992	F16-0039
TAC V11-9993BBK80-2	SuproFlex	80'	Black	Black	V12-9992	F16-0091
TAC V11-9993WWK80-2	SuproFlex	80'	Arctic White	Arctic White	V12-9992	F16-0091

Accessories:

TAC F90-0002BKN-1 Black nylon end cap 1-9/16" (2/pkg)
TAC F16-0039 Stainless steel end cap 1-7/8" (each)


F90-0002BKN-1

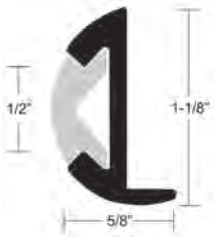

F16-0039

Taco Aluminum Rub Rail

- Anodized finish
- Use #8 fasteners
- Length: 12'

TAC A110347BLY12D

Insert:
TAC V124155BKA Black
- Sold by the foot

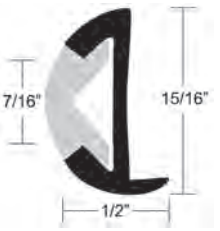


Taco Aluminum Rub Rail

- Anodized aluminum
- Use #8 fasteners
- Length: 12'

TAC A110342BLY12D

Insert:
TAC V120342BKA Black
- Sold by the foot



Taco Aluminum Rub Rail

- Anodized aluminum
- Use #8 fasteners
- Length: 12'

TAC A110638TAL12D

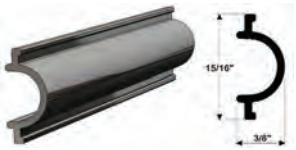
Insert:
TAC V120338BKA Black
- Sold by the foot



Taco Rub Rail Insert

- For use with flexible rub rail
- Soft PVC insert provides cushion
- Sold by the foot

TAC V120317BKA Black



Taco Flexible Rub Rail

TAC V112423BKA Molding, black
- Sold by the foot (70 foot lengths)

Insert:
TAC V120003BKA Black, 1/2"
- Sold by the foot (250 foot lengths)



Taco Flexible Rub Rail

TAC V110899BKA Molding
- Sold by the foot (100 foot lengths)

Insert:
TAC V120005BKA Black, 3/4"
- Sold by the foot (70 foot lengths)



Taco Rigid Vinyl Rub Rail

- Rigid black vinyl rub rail
- Ideal for 20 to 40 foot boats
- Sold by the each

TAC V219659BKA20D 20'

End Cap:
TAC F16-0039 Stainless, each



Taco Rigid Vinyl Rub Rail

- Colour and gloss levels matched to gel coats
- Requires heat for radius forming
- Cuts and drills like wood
- Ideal for boats up to 25'

TAC V219501WHC20D White, 20'

Insert:
TAC V120303BKA Black
- Sold by the foot

TAC V120303WHA White
- Sold by the foot



Taco Rigid Vinyl Rub Rail

- Designed for use without an insert
- Provides good basic protection
- Ideal for work boats
- Sold as a straight length or coiled in a box

20 foot length, straight
TAC V213670BKA20 Black

20 foot length, coiled
TAC V213670WHA20D White



Taco Aluminum Rub Rail

- Anodized aluminum
- Use #10 fasteners
- Length: 12'

TAC A120303BLY12D

Insert:
TAC V120303BKA Black
- Sold by the foot

TAC V120303WHA White
- Sold by the foot

Accessories
TAC F90-1870BKA End cap, each



Taco Aluminum Rub Rail

- Anodized aluminum
- Use #10 fasteners
- Length: 12'

TAC A120305BLY12D **



Insert:

TAC V120303BKA Black
- Sold by the foot

TAC V120303WHA White
- Sold by the foot

Accessories

TAC F90-1870BKA End cap, each

** While Stock Lasts



Taco 304 Stainless Steel Hollow Back Rub Rail

- Hollow back, half oval
- Drilled and countersunk on 6" centres

Part #	Width	Gauge	Length	Fastener
TAC S11-4500P12	1/2"	.062"	12'	#6
TAC S11-4511P12	3/4"	.062"	12'	#8
TAC S11-4511P16	3/4"	.062"	16'	#8
TAC S11-4650P12	1"	.077"	12'	#10
TAC S11-4670P12	1-1/4"	.077"	12'	#10

Taco Exterior Gutter

- Anodized aluminum
- Hole size: #6
- Length: 12'

TAC A510149TAL12D



Taco Transom Edge

- Anodized aluminum
- Hole size: #5
- Length: 12'

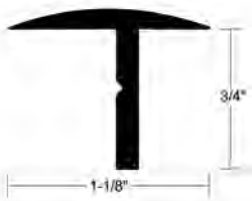
TAC A500326TAL12D



Taco T Hatch Trim Molding

- Polished clear, anodized aluminum
- Length: 12'

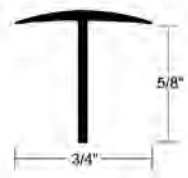
TAC A500304TAL12



Taco T Hatch Trim Molding

- Satin, anodized aluminum
- Length: 12'

TAC A500375VEL12



Taco Half Oval

- Anodized aluminum
- Hole size: #6
- Length: 12'

TAC A510102TAL12D



Taco Half Oval

- Anodized aluminum
- Hole size: #6
- Length: 12'

TAC A510104TAL12D



Taco Molding

- Anodized aluminum
- Hole size: #8
- Length: 12'

TAC A110151TAL12D



Taco Molding

- Anodized aluminum
- Hole size: #8
- Length: 12'

TAC A110152TAL12D



Taco Flexible Vinyl Trim

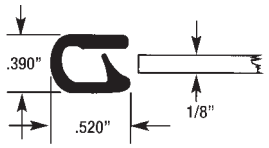




- Covers the unfinished edge and follows any contour or radius
- Flexible PVC trim with individual internal aluminum clips and gripping tongue
- 25' lengths

Part #	A x B	Colour
TAC V30-1005B25-1	Trim 5/32" x 9/16"	Black
TAC V30-1005W25-1	Trim 5/32" x 9/16"	White
TAC V30-1008B25-1	Trim 1/4" x 1/2"	Black
TAC V30-1008W25-1	Trim 1/4" x 1/2"	White
TAC V30-1312B25-1	Trim 3/8" x 5/8"	Black
TAC V30-1312W25-1	Trim 3/8" x 5/8"	White
TAC V30-1316B25-1	Trim 1/2" x 19/32"	Black
TAC V30-1316W25-1	Trim 1/2" x 19/32"	White

StanPro Marine Quickedge Plastic Trim



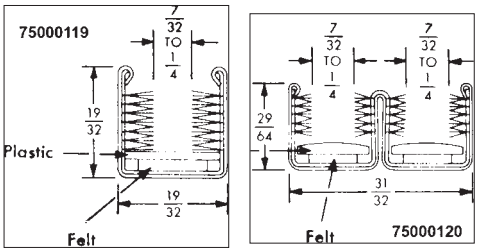


Designed for fast and permanent installation, without adhesives, on flanges from 1/8" to 3/16" thick with a 3/4" minimum radius and with minimum clearance from the edge of 1/2".

- 200' Coil, sold by the foot

STP 75000334 Black, Steel insert
STP 75000348 Black, Aluminum insert

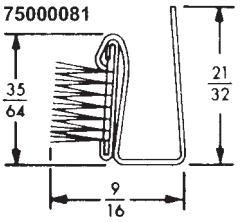
StanPro Stainless Steel Sliding Window Channel



- Designed specifically for marine use
- Made of nonmagnetic type 316 stainless steel
- The glass slides easily on a heavy plastic strip over a felt cushion, which permits installation screws to be countersunk for proper clearance
- The polypropylene pile fabric will not rot or mildew, is UV stabilized and moth proof
- Each length is 8'

STP 75000119 Single rigid
STP 75000120 Double rigid

StanPro Edge Channel

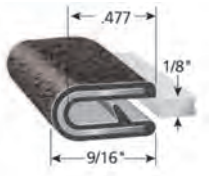


Stainless steel edge channel seals the opening between two windows of 3/16" or 1/4" thickness.

- Each length is 8' long

STP 75000081

Trim-Lok Edge Trim



- Flexible textured PVC
- Internal metal clips and gripping tongue for a strong grip
- Use for metal edges, decorative trim, or upholstery clips
- Sold by the foot

TRI 100B1X1/8 Black
TRI 100W1X1/8-GRGB White

Permastik Foam Gaskets



- Quality closed-cell neoprene gasket
- Excellent resistance to weather and moisture absorption, oil and grease resistant
- Adhesive coated 1 mil Mylar backing which prevents stretching during application

GSK 535PSA-062950 1/16" x 1-1/2", 50' roll
GSK 535PSA-250500 1/4" x 1/2", 50' roll
GSK 535PSA-250750 1/4" x 3/4", 50' roll
GSK 535PSA-375750 3/8" x 3/4", 25' roll
GSK 535PSA-500750 1/2" x 3/4", 25' roll
GSK 535PSA-500950 1/2" x 1-1/2", 25' roll

Taco Weather Seal

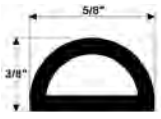


- Made of durable flexible sponge rubber with a heavy duty self-adhesive backing

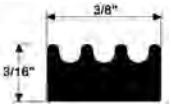
Weather Seal-Sponge Rubber

TAC V30-0109B10-1 H: 3/8" x W: 5/8" x 10'
TAC V30-0113B10-1 H: 3/8" x W: 1/8" x 10'
TAC V30-1333B10-1 H: 7/32" x W: 3/8" x 10'
TAC V30-0202B10-1 H: 1/2" x W: 1/2" x 10'

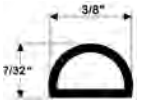
V30-0109B10-1



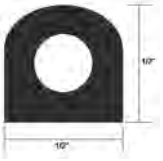
V30-0113B10-1



V30-1333B10-1



V30-0202B10-1



Taco Hatch Seal



- Medium density closed cell foam

TAC V30-0744B8-2 H: 1/8" x W: 3/4" x 8'
TAC V30-0748B8-2 H: 1/4" x W: 3/4" x 8'

V30-0744B8-2



V30-0748B8-2



Trim-Lok Vinyl Drip Rail



Drip Rail is a flexible plastic peel n' stick drip edge rain gutter that eliminates time consuming installation of aluminum rain gutters.

- Easily installed with the 3M acrylic foam tape backing
- Bonds above windows on your truck, car, RV, or boat to channel off water
- Eliminate streaks from dew and drizzle
- Sold by the foot, 250' rolls

TRI DRB	Black
TRI DRW	White

Stazo Marine Cork Marinedeck 2000 Exterior



The result of advanced research and technology in synthetic marine flooring. The composition, being made of ACMEC (Agglomerated Composite Marinedeck Exterior Composition). ACMEC is a registered trade mark and being manufactured by STAZO marine equipment.

A very special production method together with the synthetic binder enables us to manufacture MARINEDECK 2000 EXTERIOR. The planks, primers, adhesive and deck caulking material being prescribed, incorporate the same component elements to ensure complete compatibility.

The finished product has proven to exceed expectations, resisting exposure to natural elements and most chemicals. MARINEDECK 2000 has stood the test of time in most extreme conditions, proving wear resistant and nearly maintenance free.



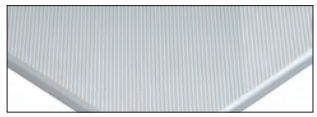
Narrow Deck Plank

STZ 032.1000.8 ** 1-1/2" x 3/8" x 75"

** While Stock Lasts

► *Also See* Teak Deck Sealants pg 06-003 & 007

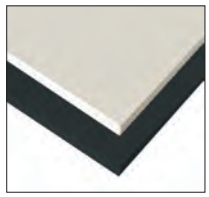
Taco StarBoard Anti-Skid Lumber Sheets



Special high friction surface in a diamond pattern finish prevents slipping and promotes drainage when wet Marine Lumber will not rot, de-laminate, swell or splinter, and the matte texture requires no painting, finishing or maintenance. It can be easily cut, routed, shaped and drilled with standard woodworking tools.

TAC P145012WHA27-1	1/2" x 12" x 27"	White
TAC P147512WHA27-1	3/4" x 12" x 27"	White

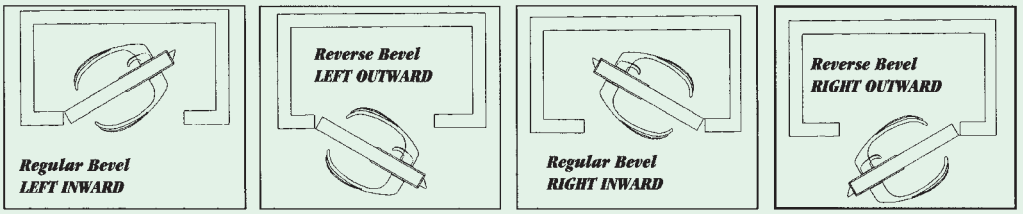
Taco StarBoard Lumber Sheets



Marine Lumber will not rot, de-laminate, swell or splinter, and the matte texture requires no painting, finishing or maintenance. It can be easily cut, routed, shaped and drilled with standard woodworking tools.

TAC P102506WHA12-1	1/4" x 6" x 12"	White
TAC P102512WHA12-1	1/4" x 12" x 12"	White
TAC P102512WHA27	1/4" x 12" x 27"	White
TAC P102524WHA27	1/4" x 24" x 27"	White
TAC P102524BLK54	1/4" x 24" x 54"	Black
TAC P102524WHA54	1/4" x 24" x 54"	White
TAC P105012BLK27	1/2" x 12" x 27"	Black
TAC P105012WHA27	1/2" x 12" x 27"	White
TAC P105024WHA27	1/2" x 24" x 27"	White
TAC P105024WHA54	1/2" x 24" x 54"	White
TAC P107524WHA54	3/4" x 24" x 54"	White

Determining the bevel required on a LOCK or LATCH
When standing outside, if the door opens away from you, then you need a lock or latch with a regular bevel. But if the door opens toward you then you need a lock or latch with a reverse bevel.



Perko Mortise Lock Set



- Chrome plated zinc
- Locked by dead bolt from inside, or key from outside
- For doors: 1" to 1-3/8"
- Case size: 2-3/4" x 2"
- Escutcheon plate: 4-3/8" x 1-1/4"

PER 927-DP-CHR

Replacement Parts:

PER 962-000-CHR	Knob and handle assembly
PER 920-DP-CHR	Reverse bevel and cam
PER 913-DP-CHR	Flush strike plate

Perko Mortise Latch Set



- Chrome plated zinc
- Locked by dead bolt from inside, no keys
- For doors 1" to 1-3/8"
- Case size: 2-1/4" x 1-13/16"

PER 960-DP-CHR

Replacement Parts:

PER 962-000-CHR	Knob and handle assembly
PER 960-000-99A	Bevel and cam

Perko Tubular Latch Set



- Chrome plated zinc
- Locked by dead bolt from inside, no keys
- For doors: 1" to 1-3/8"
- Tube diameter: 3/4"
- Escutcheon size: 4-3/8" x 1-1/4"

PER 567-DP-CHR

Replacement Parts:

PER 962-000-CHR	Knob and handle assembly
PER 912-DP-CHR	Flush strike

Perko Rim Latch Sets



928



930

- Chrome plated zinc
- Locked by slide button from inside, no keys
- For doors: 5/8" to 1-3/8"
- Case size: 2-1/8" x 1-3/4"

PER 928-DP-CHR	Regular bevel with box strike, inward opening door
PER 930-DP-CHR	Reverse bevel with flush strike, outward opening door

Replacement Parts:

PER 962-000-CHR	Knob and handle assembly
PER 920-DP-CHR	Reverse bevel and cam
PER 984-000-CHR	Regular bevel and cam
PER 976-CHR	Box strike
PER 912-DP-CHR	Flush strike

Perko Rim Lock Sets



918

- Chrome plated zinc
- Locked by dead bolt from inside, or key from outside
- For doors: 5/8" to 1-3/8"
- Case size: 3-7/8" x 2"
- Escutcheon plate size: 4-3/8" x 1-1/4"

PER 918-DP-CHR	Regular bevel with box strike, inward opening door.
PER 919-DP-CHR	Reverse bevel with flush strike, outward opening door

Replacement Parts:

PER 962-000-CHR	Knob and handle assembly
PER 920-DP-CHR	Reverse bevel with cam
PER 913-DP-CHR	Flush strike plate
PER 918-000-99A *	Box strike plate for 918

* Special Order

Sea-Dog Door Handle Latch



- Investment cast 316 stainless steel
- For doors 3/4" - 1-1/2" thick
- Case: 1-1/4" x 4-1/4"
- 4" handle
- Includes strike plate and mounting template

SED 221610-1

Perko Lock & Latches

- Chrome plated zinc and black impact resistant plastic
- Stainless steel stem and lock nut
- Comes with offset cam bar and flexible plastic strike plate
- Easily installs in a 2" diameter hole
- Detents indicate open or closed position
- For doors: 1/4" to 1-1/8" thick
- Adjustment latch bar: 3/8" - 3"
- Face plate dimensions: 2-1/2" x 2-1/2"



931

Locking latch with two keys. Offset cam bar with flexible plastic strike.
(As shown in picture)

PER 931-DP1-BLK

Locking latch with two keys. Offset adjustable cam bar.

PER 931-DP2-BLK

Non-locking latch. Offset cam bar with flexible plastic strike

PER 932-DP1-BLK
PER 932-DP1-WHT



932

Non-locking latch. Offset adjustable cam bar.

PER 932-DP2-BLK

Hinged water resistant cover fits 931 and 932 lock and latch assemblies. Black, fibre reinforced plastic.



PER 1089-DP1-BLK

Parts:

PER 931-002-99A Offset adjustable cam bar

Perko Lock and Latches



1031



1032

- Large handle allows two finger grip
- Chrome plated zinc and black impact resistant plastic
- Stainless steel stem and lock nut
- Flush mounts in a 2-3/8" x 2-3/8" hole
- Surface mounts in a 1-5/8" diameter hole
- For doors: 1/8" - 3/4" thick
- Adjustment latch bar: 1/2" - 3"
- Face plate dimensions: 3-1/8" x 3-1/8"

PER 1031-DP1-BLK Locking latch with 2 keys
PER 1032-DP1-BLK Non-locking latch

- Hinged water resistant cover fits 1031 and 1032 lock and latch assemblies
- Black, fibre reinforced plastic



PER 1089-DP3-BLK

Perko Hatch Dog



- For securely fastening deck hatches
- Chrome plated brass, stainless steel lock nuts
- Comes with flush strike
- For hatches up to 2" thick
- Face plate: L: 3-13/16" x H: 3"
- Latch bar adjustment: 1-1/4" - 2"
- Use #8 fasteners

PER 777-000-CHR

Perko Lock and Latches



- Chrome plated zinc
- Stainless steel tumbler assembly
- Locking or non-locking versions
- For doors: 1/2" to 3/4"
- Size: 2-1/4" x 2"

PER 921-DP-CHR Locking type w/2 keys
PER 922-DP-CHR Non-locking

Parts:

PER 980A * Spare cam bar (chrome) for 921 & 922

* Special Order

Perko "T" Handle Lock and Latches



1091-DP1-BLK

- Black plastic body, handle is zinc and stem is stainless steel
- Rubber seals the lock cylinder preventing water intrusion
- Face plate dimensions: 3"
- Fits into a 2-1/2" diameter hole
- Mounting surfaces:1/8" to 3/4"
- DP1 Adjustable cam bar:3/4" to 2-3/8"
- DP4 Adjustable cam bar:1/2" to 3"

PER 1091-DP1-BLK Locking style comes with 2 keys

PER 1092-DP1-BLK Latch (Non locking)
PER 1092-DP4-BLK Latch XL cam bar (Non locking)



Sea-Dog
T-Handle Locking Compression Latch

- Investment cast 316 stainless steel construction
- T-handle to engage the offset locking arm
- Handle is recessed for a flush, clean installation
- Locking, includes heavy duty stainless key
- Requires a 2" size cutout hole and installs with a back mounted stainless cup
- Dia: 2-7/16" x D: 2-1/2"

SED 221982L-1

Gemlux Slam Latches

- Cast stainless steel
- Spring loaded 2 finger pull
- Includes a thin backing plate and a spacer; equivalent of a thick backing plate if needed
- Dia: 2.41"; Cutout size: 2"


5154-KIT

GEM 5151-KIT Non-locking
GEM 5154-KIT Locking

Gemlux Locking Lift Handle

- 316 cast stainless steel
- Lift & turn to open
- 2" cutout



GEM 2264-2 2-1/2"

Gemlux Locking Lift Handle

- 316 cast stainless steel
- Lift & turn to open
- 3" cutout



GEM 2260-2 3-1/2"

Gemlux Beveled Face Locking Lift Pulls

- Cast stainless steel
- 2 finger pull
- Positive "shut" feel with a 180° turn
- Includes a backing plate, straight cam
- Includes two different backing plates, and cams have two holes for long and short position





GEM 6024-145S 2"
GEM 6030-145S 2-1/2"



Sea-Dog Round Hatch Handle Latch

- Investment cast 316 stainless steel construction
- T-handle to engage the offset locking arm
- Handle is recessed for a flush, clean installation
- Requires a 2" size cutout hole and installs with a back mounted stainless cup
- Dia: 2-3/8" x D: 3-3/4"

SED 221942

Sea-Dog Mount Locking Lifting Ring

- Stamped 304 stainless steel, with die cast lock
- Comes with two types of locking arms for either flush or offset installations
- Faceplate: 2-1/8" x 1-15/16"
- Cutout: 3/4"



SED 221831-1

Sierra Cam Locks

- Complete with mounting hardware
- Cutout diameter: 3/4"

SIE CL49310 For panels up to 5/8"
SIE CL49320 For panels up to 7/8"
SIE CL49330 For panels up to 1-1/8"



Sea-Dog Cam Lock

- Stamped 304 stainless/die cast zinc
- Comes with two matching keys
- Includes flush and offset cams
- Cutout diameter: 3/4"

SED 221930-1 For panels up to 5/8"



Sea-Dog Round T-Handle Slam Latch

- Investment cast 316 stainless steel
- Dia: 2-7/16" x Depth: 1-3/8"
- Cutout: 2"

SED 221910



T-H Marine Slam Latches

- Oval-top, nautical design
- Low profile
- Totally corrosion resistant
- UV stable, resistant to chemicals, acetone, alcohol and gasoline.
- Stainless steel pawl catch & mounting hardware
- 2" hole installation
- Fits lids: 1/16" to 7/8"





THM NFSL-5-1-DP Black
THM NFSL-5-2-DP White

Sea-Dog Flush Mount Slam Latches

- Injection molded nylon
- Dia: 2-7/16" x Depth: 1-1/2"
- Use #12 RH fasteners

SED 228120-1 White
SED 228125-1 Black



Sea-Dog Watertight Slam Latches

- Investment cast 316 stainless
- Diameter: 2-3/8" x D: 1-11/16"
- Use 1/8" RH fasteners

SED 221962 Non-locking
SED 221962L Locking

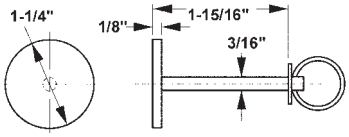


Sea-Dog Hatch Handle

- T-handle is recessed for a flush, clean installation
- 316 stainless steel
- Requires 3" cut-out hole size; max depth 7/8"
- Dia: 3-1/2" x Depth: 3-3/4"

SED 221954







Sea-Dog Hatch Cover Pull

- 304 stamped stainless steel

SED 221840-1

ITC Hatch Lift Pins



- Stainless steel lift pin, washer and retaining ring
- Rubber "grommet" protects gel coat and reduces rattle
- Head is 1-1/4" diameter, pin is 1/4" x length

ITC 84250 3"
ITC 84251 2"

Sea-Dog Hatch Handle



- Chrome plated brass
- 3" x 2-1/8"
- Use #8 FH screws

SED 222420-1

Sea-Dog Hatch Handle



- Stamped stainless steel, with a spring return
- 3" x 2-1/4"
- Use #8 fasteners

SED 221820-1

Sea-Dog Hatch Handle



- Investment cast 316 stainless steel
- 3" x 2-1/8"
- Use #8 fasteners

SED 221860

Sea-Dog Hatch Handles



- Cast brass
- 2-15/16" x 2-13/16"
- Use #8 FH screws

SED 222425-1 Chromed brass
SED 222426-1 Brass

Perko Lifting Handles



- Available in chrome plated brass or zinc
- Size: 3" x 2-1/4"
- Inside handle: 1-7/8" x 1"
- Use: #8 fasteners

PER 1220-DP-CHR Chrome plated zinc
PER 776-DP1-CHR Chrome plated brass

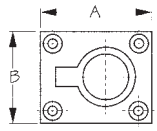
Perko Lifting Handle



- Chrome plated cast bronze
- Size: 3-3/4" x 2-3/4"
- Inside handle: 2-3/16" x 1-3/16"
- Use: #8 fasteners

PER 776-DP2-CHR

Sea-Dog Ring Pulls

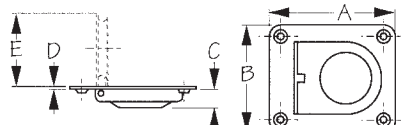




- Cast brass

Part #	A	B	Finish	Fastener
SED 222400-1	1-3/4"	1-1/2"	Chrome	#6 FH
SED 222410-1	2-1/2"	2"	Chrome	#8 FH
SED 222415-1	2-1/2"	2"	Brass	#8 FH

Sea-Dog Lift Handles

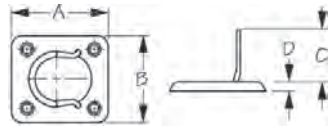




- Stamped 304 stainless steel
- Pull handle is spring loaded to stay closed

Part #	A	B	C	D	E	Fast
SED 221810-1	2-9/16"	2-3/16"	7/16"	1/32"	1-1/2"	#8 FH
SED 221815-1	1-3/4"	1-1/2"	7/16"	1/32"	1"	#6 FH

Sea-Dog Ring Pull





- Stamped 304 stainless steel
- Uses (4) #10 FH fasteners (not included)

Part #	A	B	C	D
SED 221830-1	2-1/8"	1-15/16"	15/16"	3/16"

Sea-Dog Ring Pull



- Investment cast 316 stainless steel
- 1-15/16"x 1-9/16"
- Use #8 fasteners

SED 221850-1

Sea-Dog Round Ring Pulls



- Handle pivots out to open hatches and lies flush when not in use
- Use 3x #8 FH fasteners

SED 222460-1 Chrome plated brass, Dia: 1-5/8" x D: 7/16"
SED 222466-1 Sand cast brass, Dia: 2" x D: 7/16"

Perko Ring Pull



- Chrome plated zinc
- 1-3/4" x 1-3/8"
- Use #6 fasteners

PER 841-DP-CHR

Perko Ring Pull



- Chrome plated bronze
- 2-9/16" x 2"
- Use #8 fasteners

PER 1103-DP-CHR

Perko Ring Pulls



- Chrome plated zinc
- Use #6 fasteners

PER 1232-DP1-CHR	1-5/8"
PER 1232-DP2-CHR	2"

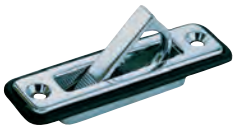
Perko Ring Catch



- Chrome plated zinc
- Bronze spring
- 2-1/4" x 1-3/8"
- Use #6 fasteners

PER 1051-DP-CHR

Perko Pull



- Chrome plated zinc with black plastic finishing flange
- Spring loaded
- 3-1/4" L x 3/4" W
- Use #8 fasteners

PER 1221-DP-CHR

Perko Door Button



- Chrome plated zinc
- Black plastic knob
- Diameter: 1-3/4"
- Use #6 F.H. fasteners

PER 1216-DP-CHR

Sea-Dog Door Buttons



- Brass
- Dia: 1-3/4"
- Use #6 FH fasteners

SED 222360-1	Chromed
SED 222365-1	Brass

Sea-Dog Cupboard Bolt



- Chrome plated extruded brass
- W: 2-1/4 x H: 1-1/2"
- Use #5 F.H. fasteners

SED 222380-1

Perko Cupboard Bolt



- Chrome plated zinc with black plastic slide and knob
- 2-1/8" x 1-1/2"
- Use #6 F.H. fasteners

PER 1101-DP-CHR

Perko Latch



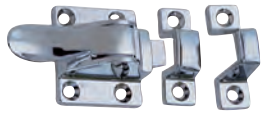
- Chrome plated zinc with sliding lock button
- Overall size: 2-1/8" x 2-1/4"
- Use #6 F.H. fasteners

PER 948-DP-CHR

Parts:

PER 984-000-CHR	Spare bevel with cam
PER 976-CHR	Spare strike plate

Perko Cupboard Catches



- Chrome plated zinc
- Overall size: 1-1/2" x 1-7/8"
- Use #6 F.H. fasteners

PER 1102-DP1-CHR	Flush
PER 1102-DP2-CHR	Offset

Cruiser Push Button Maxi Latches



- Unit opens and closes with pressure
- Body is made of plastic and knobs and dress rings are made of stainless steel
- Strike plate is made of nickel

Note Order 4 parts each for a complete package.

CRU 374966	Large body, 5.5 cm x 4.5 cm
CRU 374990	Large strike plate
CRU KNOB/SS/LG	Large S/S knob
CRU RING/SS/LG	Large S/S ring
CRU 374971	Small body, 3 cm x 3.5 cm
CRU 374991	Small strike plate
CRU KNOB/SS/SM	Small S/S knob
CRU RING/SS/SM	Small S/S ring

Sugatsune Push Knob With Latches



Pushing in the knob activates and secures the latch so the door will not open until the knob is pushed again.

- Zinc die cast with chrome or gold finish
- Fits 19/32" to 63/64" thick doors
- Left side latching, comes with screws

SUG PKL-08/CR	Chrome push knob
SUG PKL-08/GA	Gold push knob
SUG PKL-S/BLK	Black plastic latch body
SUG PKL-S/WHT	White plastic latch body
SUG PKL-SP-WHT	White plastic spacer plate 2 mm

* Note - Order a push knob and body for a complete set.

Sea-Dog Push Button Cabinet Latches



- Investment cast 316 stainless steel and chrome plated brass construction
- Latch H: 1-7/16" x W: 15/16"
- Depth: 1-11/16"
- 3/4" cutout

SED 225400-1	Oval
SED 225420-1	Rectangular

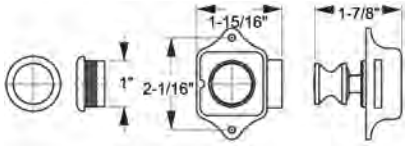


Sea-Dog Push Button Cabinet Latch



- Chrome plated brass button
- Plastic body

SED 226312-1 Packaged




225300-1

Sea-Dog Push Button Rim Latches

- Brass or stainless and plastic construction
- Complete with two strike plates
- Hole spacing on flat strike plate is 1-7/8"
- Hole spacing on 90 degree strike plate is 1-3/16"
- #4 FH fasteners
- Recommended door thickness 7/8"
- Latch fastener: #6

SED 224300-1	Polished chrome
SED 224301-1	Polished brass
SED 225300-1	Stainless steel

Sugatsune Push Button Catches


Shown combined

- Plastic with a choice of knob finish
- Material: Latch Body - Polyamide
- Supplied with stainless steel screws
- L: 57 mm x H: 56 mm x D: 27 mm

Round Knobs

SUG TLP-BB/CR	Chrome
SUG TLP-BB/PB	Polished brass
SUG TLP-BB/SN	Satin nickel


TLP-BB-PB

Square Knobs

SUG TLP-S-BB/SN	Satin nickel


TLP-S-BB/SN

Bodies

SUG TLP-LB/WHT	Bar latch body white
SUG TLP-LBM/WHT	Latch body white


TLP-LB-WHT

* Note - Order a push knob and body for a complete set.

Sugatsune Safe Push Latches



- Push to open, push to close
- No need for door handles or pulls
- Can not be pulled open
- Supplied with screws
- L: 71 mm x H: 40 mm x D" 16mm

SUG MC-37/BLK-1	Black
SUG MC-37/WHT-1	White

Sugatsune Magnetic Touch Latches



- Push to open, push to close
- May require a handle or knob
- Supplied with screws
- L: 38mm x H: 36 mm x D: 15 mm

SUG ML-80/BLK	Black
SUG ML-80/WHT *	White

* Special Order - may have stock

T-H Marine Pontoon Gate Latch



- All parts install on gate only
- Operates on right or left hinged gates
- Fits 1", 1 1/8" or 1 1/4" square tube
- Prevents gate from swinging inward
- Nylon molded parts, prevent rattling
- Easy installation

Note Not designed as a safety or load bearing device.

THM GL-2-DP Grey

Attwood Glove Box



- Black plastic box and door
- Stainless steel hinge pin
- Lockable and comes with 2 keys
- Inside box: 11-3/4" L x 4" W x 6-5/8" D
- Door: 13-3/4" L x 5-1/2" W
- Installation hole: 12" x 4-1/4"

ATT 2638-1

T-H Marine Glove Box



- Non-locking cam latch
- Positive lid seal for water tight fit
- Stainless steel hinges
- Hidden fasteners in frame size: outside 7-1/2" x 14-1/4"

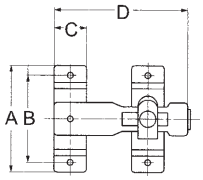
THM GDS4-0714-1-DP Black

Sierra Glove Box Lock



- Black glass reinforced polyester, totally corrosion resistant
- Can be locked for security or left in latch only position
- Supplied with 2 keys
- Cutout diameter: 1" x D: 3/4" x Panel Thickness: 3/4"

SIE MP49410-1





Sugatsune Bar Catches

- 18-8 polished stainless steel
- Supplied with stainless steel fasteners

Part #	A	B	C	D
SUG BL-80	65mm	53mm	20mm	84mm
SUG BL-100	80mm	66mm	25mm	105mm

Buck Algonquin Transom Door Latch



- 316 stainless steel
- Bracket size: 3" x 1-1/2"
- Bolt size: 1/4"
- Handle length: 6-1/4"

BUC 70TDLS-625SM Complete

Southco Grabber Catch Latches



- Pull to open
- Catch snaps into frame
- Fits into frames from 1.1 (.043) to 7 (.276) thick
- Corrosion-resistant materials
- Spring-loaded over-centre latching
- Two opening tensions available

SCO C3-805	5 lb complete
SCO C3-810	10 lb complete

Sugatsune Rotary Catch



- White plastic
- Good for at least 300,000 operations
- Sold in bulk, each

SUG 6901/WHT 1-7/32" wide

Sugatsune K-Catch



- Natural white, 1-13/32"
- Sold in bulk, each

SUG K-CATCH/WHT

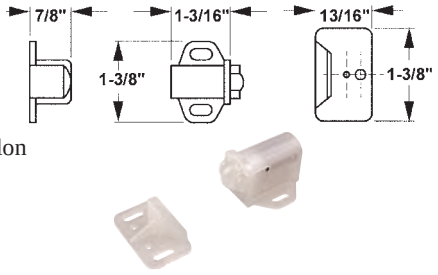
Sea-Dog Twin Roller Door Catch



- Injection molded nylon
- Use 4x #6 RH fasteners
- Set of 4

SED 227141-1 L: 1-1/4" x W: 1" x H: 5/8"

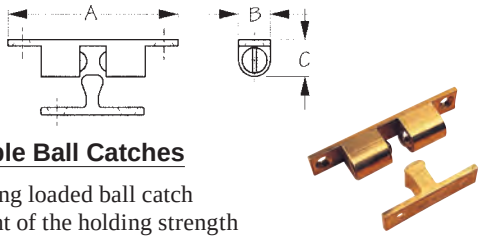
Sea-Dog Roller Catch



- Injection molded nylon
- Surface mount
- Display package
- Use #8 fasteners

SED 227108-1

Sea-Dog Double Ball Catches



- Adjustable spring loaded ball catch
- Easy adjustment of the holding strength

Part #	A	B	C	Fast	Qty
Solid Brass					
SED 222841	1-11/16"	5/16"	3/8"	#4 FH	
SED 222841-1	"	"	"	"	2/pkg
SED 222842	1-15/16"	3/8"	7/16"	#4 FH	
SED 222842-1	"	"	"	"	2/pkg
SED 222843-1	2-5/16"	7/16"	1/2"	#6 FH	
Chromed Solid Brass					
SED 222822-1	1-15/16"	3/8"	7/16"	#4 FH	2/pkg
SED 222823-1	2-5/16"	7/16"	1/2"	#6 FH	2/pkg

-1 suffix denotes retail packaging

Perko Door Catches



- Black plastic
- Stud size: 1-1/8" x 3/8"
- Catch size: 1-3/8" x 7/8"
- Uses #4 fasteners

PER 559-DP 2/pkg

Perko Door Catches



- White plastic
- Comes with #8 screws
- Length: 1-1/4"

PER 554-DP 2/pkg

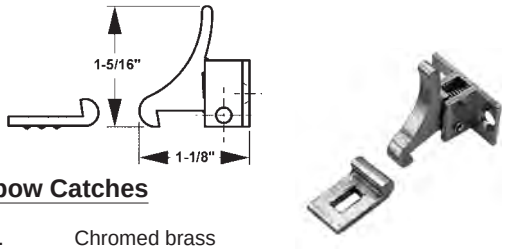
Perko Elbow Catch



- Chrome plated zinc
- Size: 1-1/8" x 9/16"
- Uses #6 fasteners

PER 1056-DP-CHR

Sea-Dog Elbow Catches



SED 222330-1 Chromed brass
SED 222335-1 Brass

Perko Plastic Elbow Catches



- Black plastic with integral spring
- Use #6 fasteners
- Size: 1-3/16" x 5/8"
- Uses #6 fasteners

PER 1021-DP-BLK 2/pkg

Perko Door Holder



- Stainless steel clip
- Chrome plated zinc arrow
- Base size: 1-5/8" x 3/4"
- Clip size: 1-3/8" x 7/16"
- Uses #8 fasteners

PER 1065-DP-CHR

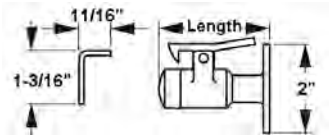
Perko Door Stop & Holders



- Chrome plated bronze with rubber bumper
- Diameter: 1-3/4"
- Stop uses #8 fasteners
- Catch uses #6 fasteners

PER 574-DP1-CHR 2-3/8" long
PER 574-DP2-CHR 3-1/4" long

Sea-Dog Door Stop & Catches





- White rubber bumper
- Stainless steel spring
- Use #6 fasteners
- Investment cast 316 stainless steel, cast brass or chromed brass

SED 221710 2-1/2", 316 stainless, bulk
SED 221710-1 2-1/2", 316 stainless, packaged
SED 221715 4", 316 stainless, bulk
SED 221715-1 4", 316 stainless, packaged
SED 222710-1 2-1/2", Chromed brass, packaged
SED 222712-1 2-1/2", Brass, packaged

Sugatsune Magnetic Door Holders



- Made of plastic
- Supplied with screws
- Dia: 4.8 cm x Height: 9.3 cm

SUG SMDH/BRN Brown
SUG SMDH/IVY Ivory

Sea-Dog Magnetic Door Stop



- 304 stainless
- Use #10 fasteners
- Dia: 1-13/16" x H: 1-9/16"

SED 221750-1

Perko Door Stop



- Chrome plated zinc with rubber bumper
- Diameter: 1-1/4"
- Projection: 1"
- Use #6 fasteners

PER 1177-DP-CHR

Sea-Dog Sliding Door Stop



- Stainless steel
- L: 2-7/8" x W: 1-1/4"
- Use #8 fasteners

SED 221700-1

Perko Sliding Window Stop



- Chrome plated zinc
- Mounting plate size: 1-7/8" x 3/4"
- Stopping plate length: 1-1/2"
- Use #8 fasteners

PER 935-DP-CHR

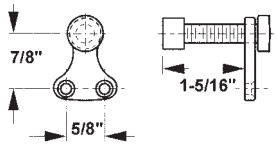
Perko Sliding Window Handle



- Polished stainless steel
- For 1/4" thick glass
- Length: 3"

PER 954-DP-STS

Sea-Dog Anti-Rattle Window Fastener

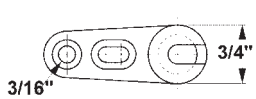


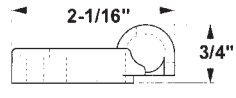


- Chrome plated sand cast brass
- Use #6 fasteners

SED 322210 Bulk
SED 322210-1 Packaged

Sea-Dog Windshield Brace Foot



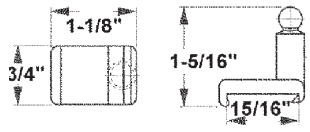




- Black injection molded nylon

SED 324300-1

Sea-Dog Male Windshield Retainer Spacer





- Injection molded nylon

SED 324360-1

Sea-Dog Nylon Windshield Latches



- Black injection molded nylon
- Fastener hole: 3/16"
- 2/pkg

SED 324140-1 Single wing, 1-9/16"
SED 324210-1 Double latch, 1-11/16"
SED 324210 Double latch, 1-11/16", bulk single

Sea-Dog Barrel Bolts



- Chrome plated extruded brass
- Use #6 fasteners
- 1/2" striker
- Height: 3/8"

SED 222500-1	1-1/2"
SED 222501-1	2"
SED 222502-1	2-1/2"
SED 222503-1	3"

Gemlux Barrel Bolt



- 316 cast stainless steel
- Slim line design
- Built-in anti-rattle friction plate
- Use #6 fasteners

GEM 1486-1 4-3/4" x 1"

Perko Barrel Bolt



- Chrome plated zinc
- Integral friction pad eliminates rattles and provides smooth operation
- Use #8 fasteners
- Overall: 3-3/8" x 1-1/4"

PER 1244-DP-CHR

Sea-Dog HD Barrel Bolts



- Investment cast 316 stainless.

SED 221243-1	L: 3-1/6" x W: 1-1/2", H: 5/8", #8 FH fasteners
SED 221244-1	L: 4-1/4" x W: 1-1/2", H: 5/8". #8 FH fasteners
SED 221255-1	L: 6-1/2" x W: 1-3/4", H: 5/8", #10 FH fasteners

Perko Barrel Bolts



- Chrome plated bronze
- Black friction pad eliminates rattle and provides smooth operation
- Use #6 fasteners
- Width: 1-7/16"

PER 947-DP1-CHR	3-7/16" long
PER 947-DP2-CHR	4-5/16" long
PER 947-DP3-CHR	5-1/4" long

Sugatsune Spring Loaded Barrel Bolts



- 18-8 stainless steel
- Width: 33 mm
- Supplied with stainless steel screws

SUG BLS-60	85.4 mm long
SUG BLS-90	115.4 mm long

Sea-Dog Barrel Bolt



- Length: 2-7/8", striker: 3/4", H: 1/2"
- Chrome plated sand cast brass
- Use #6 fasteners

SED 222522-1

Gemlux Push Button Slide Latch



- Polished finish investment cast stainless steel
- Use 1/4" fasteners; 2.5" hole to hole
- L: 4.25" x W: 1.25" x H: .53"

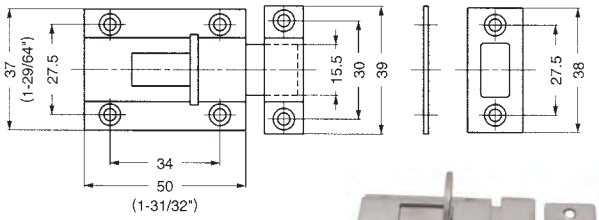
GEM 1460

Accessories:

GEM 1560



Keeper (not included with latch)

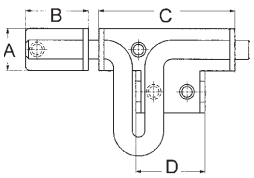


Sugatsune Slide Bar Catch



- Satin finish 18-8 stainless steel
- Supplied with stainless steel screws

SUG KR-50



Sugatsune Gate Latches



- 18-8 stainless steel
- Supplied with stainless steel screws
- Packaged

Part #	A	B	C	D
SUG SSG-45	14mm	21mm	45mm	25mm
SUG SSG-65	20mm	30mm	65mm	33mm

Perko Swivel Eye Hasp



- Chrome plated zinc
- Padlock eye swivels to act as a latch
- Use #6 fasteners
- Length: 3" x Width: 1"
- Padlock clearance: 11/32"

PER 1194-DP-CHR

Parts:

PER 1194-DP-99A Spare keeper

Perko Hasps



- Chrome plated zinc hasp
- Use #6 fasteners
- W: 1"
- Padlock clearance: 9/32"

PER 1198-DP1-CHR 2"
PER 1198-DP2-CHR 3"
PER 1198-DP3-CHR 3-3/4"

Perko Hasp



- Chrome plated bronze
- Use #6 fasteners
- W: 1" x L: 2"
- Padlock clearance: 9/32"

PER 998-DP1-CHR

Parts:

PER 959-DP-CHR * Spare keepers, 2/pkg

* Special Order

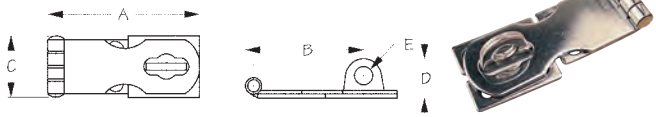
Sea-Dog Heavy Duty Hasps



221120-1

- Stamped 304 stainless steel
- Padlock clearance: 1/2"
- Use 7x #6 FH fasteners

SED 221127-1 L: 2-11/16" x W: 1-3/16", Hasp Ctr: 1-7/8"
SED 221128-1 L: 3-9/16" x W: 1-3/16", Hasp Ctr: 2-3/4"



Sea-Dog Safety Hasps

- Stamped 304 stainless steel
- Use #6 fasteners

Part #	A	B	C	D	E
SED 221120-1	2-11/16"	2-1/16"	1-1/16"	11/16"	5/16"
SED 221124-1	3-13/16"	3-1/16"	1-1/16"	11/16"	5/16"

Sea-Dog Swivel Hasp



- Stamped 304 stainless steel
- Staple swivels to act as a latch
- L: 2-11/16" x W: 1-1/16"
- Padlock clearance: 5/16"
- Use #6 fasteners

SED 221130-1

Sea-Dog Heavy Duty Hasps



- Sand cast brass construction
- L: 4-1/4" x W: 1-9/16"
- Padlock clearance: 1/2"
- Use #8 fasteners

SED 222150-1 Chrome plated
SED 222155-1 Polished brass

Sea-Dog Heavy Duty Swivel Hasps

- Stamped 304 stainless steel
- L: 3-1/8" x W: 1-1/8"
- Padlock clearance: 3/8"
- Use #8 fasteners

SED 221135-1 Flush
SED 221136-1 Angle



Sea-Dog Hasp



- Cast chrome plated brass
- Use #6 fasteners
- L: 2-5/16" x W: 1"
- Padlock clearance: 3/8"

SED 222120-1

Sea-Dog Locking Hasp



- Stamped 304 stainless steel
- Use #8 fasteners
- L: 3-1/8" x W:1-1/4"

SED 221150-1

Sea-Dog Anti-Rattle Latch

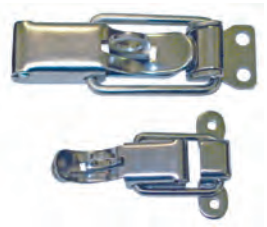


- Investment cast 316 stainless
- L: 3" x W: 1-1/2" x H: 3/4"
- Use #10 FH fasteners

SED 221100-1

Builders Hardware Draw Pull Catches

- Electro-polished stainless steel
- Lockable
- Use #6 fasteners



Large

- Base width: 1-5/8"
- Overall length: 3-3/8"

BHW 207-SS-1 Bulk

Small

- Base width: 1"
- Overall length: 2-1/2"

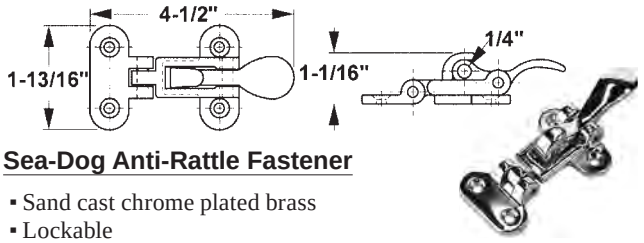
BHW 205-SS-1 Bulk

Perko Hold Down Clamp



- Chrome plated bronze
- Lockable
- Use #6 fasteners
- Size: 2-3/4" x 1-3/4"
- Padlock clearance: 1/4"

PER 1108-DP-CHR



Sea-Dog Anti-Rattle Fastener

- Sand cast chrome plated brass
- Lockable
- Use #10 fasteners

SED 222110-1

Perko Hold Down Clamps



1112-DP-CHR

1113-DP-CHR

- Chrome plated bronze
- Use #8 fasteners

Part #	Description	Length	Width
PER 1112-DP-CHR	Flat Mount	3"	1-1/2"
PER 1113-DP-CHR	Angle Mount	2-1/2"	1-1/2"

Perko
Table Fastener or Windshield Keeper



- Chrome plated brass with black plastic knob
- Angle length: 1-3/8"
- Angle width: 1"
- Use #8 fasteners

PER 719-DP-CHR

Perko Hatch Fastener / Windshield Keeper



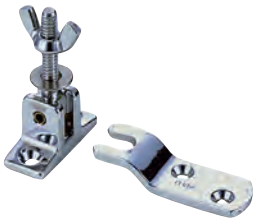
- Chrome plated brass and zinc
- Black plastic handle
- Base dimensions: 1-1/2" x 5/8"
- Use #8 fasteners

PER 769-DP-CHR

Parts:

PER 769-000-99C Spare handle with stud

Perko Windshield Keeper



- Chrome plated brass and zinc
- Bracket: 1-1/2" x 5/8"
- Keeper: 1-1/2" x 3/4"
- Use #8 fasteners

PER 697-DP-CHR

Perko Hatch Fastener



- Chrome plated brass with phosphor bronze spring
- Overall length: 3-7/8"
- Mounting base size: 1-1/2" x 9/16"
- Use #6 fasteners

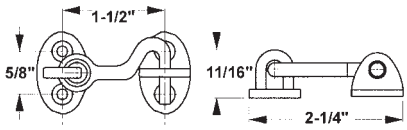
PER 155-DP-CHR

Beckson Hold Down Clamp



- Stainless steel
- Twist knob pivots to adjust and fold back 90 degree for flush fit
- Length in closed position is 2"

BEC TDS-1





Sea-Dog Door Hooks

- Made from cast brass
- Use #6 fasteners

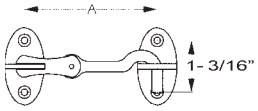
SED 222050-1 Chromed brass
SED 222051-1 Brass

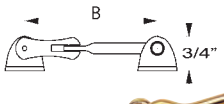
Perko Cabin Door Hooks

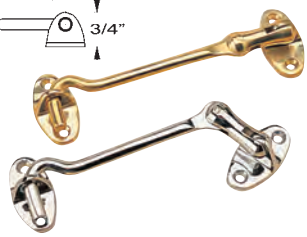


- Chrome plated zinc
- Use #6 fasteners

PER 1199-DP1-CHR 1-3/4"
PER 1199-DP2-CHR 2-1/4"
PER 1199-DP3-CHR 3"



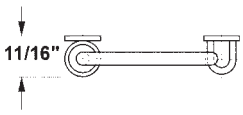


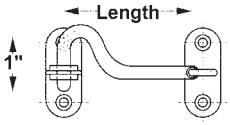


Sea-Dog Door Hooks With Swivel

- Made from cast brass
- Use #6 fasteners

Part #	A	B	Material
SED 222090-1	5-1/16"	5"	Chrome
SED 222091-1	5-1/16"	5"	Brass



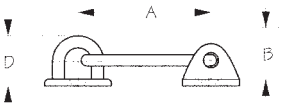


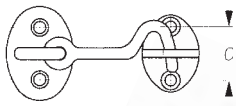
Sea-Dog Door Hooks

- Stainless steel
- Plastic bushing in the eye prevents accidental unhooking
- Use #8 fasteners



SED 221202-1 2-3/8" long
SED 221203-1 3" long
SED 221204-1 3-15/16" long



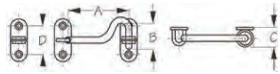




Sea-Dog Door Hooks

- Chrome plated cast brass
- Use #6 FH fasteners

Part #	A	B	C	D
SED 222112-1	2-1/2"	13/16"	13/16"	3/4"
SED 222113-1	2-3/4"	13/16"	13/16"	3/4"

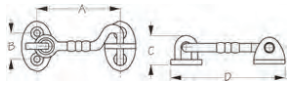


Sea-Dog Two Staple Door Hook



- Machined 304 stainless steel
- Rubber bushing prevents accidental unhooking due to vibration and reduces rattle and noise
- Extra staple for second hook position
- Use 6x #8 FH fasteners

Part #	A	B	C	D
SED 221206-1	2-3/8"	1"	11/16"	1-1/16"



Sea-Dog Decorative Door Hooks



- Sand cast brass or chrome plated brass
- Use 4x #6 FH fasteners

Part #	A	B	C	D	Material
SED 222065-1	2-3/4"	5/8"	11/16"	3-1/2"	Chrome
SED 222066-1	2-3/4"	5/8"	11/16"	3-1/2"	Brass

Buck Algonquin Stern Lifting Handle



- 316 polished stainless steel
- Base: 1" x 1-3/4"
- Overall: 5-3/4" x 1-3/4"
- Use #10 fasteners

BUC SLH-1

Perko Handle



- Chrome plated zinc
- Inside height: 1-5/16"
- Length: 6"
- Inside length: 3-1/2"
- Use 1/4" fasteners

PER 1231-DP-CHR 2/pkg

Sea-Dog Lift Handle



- Die cast zinc chrome plated
- L: 5-7/8" x W: 2"
- Use #10 fasteners

SED 224260-1

Sea-Dog Lift Handles



- Cast brass
- L: 6" x W: 1-7/8"
- Use #8 fasteners

SED 222355-1 Chrome
SED 222356-1 Brass

Sea-Dog Lift Handle



- Investment cast 316 stainless
- L: 5-3/4" x H: 1-1/2"
- Fasteners: #10 FH

SED 221275-1

Sea-Dog Lift Handle



- Chrome plated brass
- L: 4-3/4" x W: 1-1/4"
- Use #10 fasteners

SED 222340-1

Sea-Dog Deluxe Lift Handles



- Cast brass

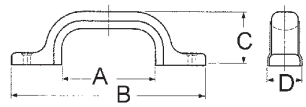
No.	L	W	Finish	Fastener
SED 222345-1	4"	1"	Chrome	#8 FH
SED 222346-1	4"	1"	Brass	#8 FH
SED 222348-1	6"	1-5/16"	Chrome	#10 FH
SED 222349-1	6"	1-5/16"	Brass	#10 FH

Sea-Dog Lift Handle



- Chrome plated brass
- L: 5-3/4" x W: 1-3/4"
- Use #8 fasteners

SED 222350-1

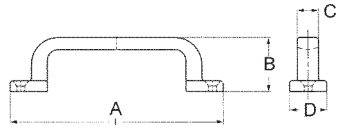


Sugatsune Handles



- Mirror finish. 304 stainless steel
- Synthetic rubber finger grip
- Supplied with screws

Part #	A	B	C	D	Pack
SUG US-70/M	20mm	70mm	28mm	17mm	Each
SUG US-160/M	88mm	160mm	37.5mm	22mm	Each



Sugatsune "FT" Series Handles



- Mirror finish 18-8 stainless steel
- Supplied with stainless steel screws

Part #	A	B	C	D	Pack
SUG FT-100	100mm	25mm	10mm	18mm	pkg
SUG FT-120	120mm	27mm	12mm	36mm	pkg
SUG FT-150	150mm	33mm	15mm	45mm	Bulk

► *Also See* Handrails pg 04-024

Sea-Dog Flush Pulls



- Injection molded Delrin
- L: 3-5/8" x H: 2-3/8" x D: 5/8"
- Use #6 fasteners

SED 227320-1 Black
SED 227321-1 White
SED 227322-1 Grey
SED 227322 Grey, bulk

Perko Flush Pull



- Chrome plated zinc
- Size: 3-11/16" x 1-11/16"
- Depth: 7/16"
- Use #6 fasteners

PER 1110-DP-CHR

Perko Drawer Pull



- Chrome plated zinc
- Outside width: 3-7/16"
- Inside width: 2-5/16"
- Use #6 fasteners

PER 958-DP-CHR

Sea-Dog Flush Pull



- Injection molded Delrin
- 1-5/8" square x D: 5/8"
- Use #6 fasteners

SED 227310-1 Black

Perko Strap Hinges



- Chrome plated bronze
- 2 /pkg
- Use #10 fasteners

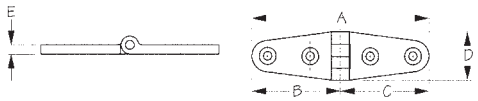
Part #	Length	Pin Width
PER 120-DP1-CHR	4"	1-1/8"
PER 120-DP2-CHR	6"	1-1/8"

Sea-Dog Ladder Hinge



- Cast 316 stainless steel
- Highly polished finish
- L: 6-11/16" x W:3/4"
- Use #10 fasteners

SED 205290-1 2/pkg



Sea-Dog Strap Hinges



- Cast 316 stainless steel
- Highly polished finish
- 2/pkg
- Use #10 fasteners

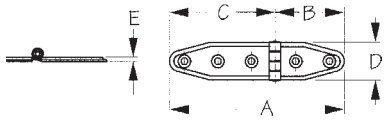
Part #	A	B	C	D	E
SED 205390-1	4-1/8"	2-1/16"	2-1/16"	1"	3/16"
SED 205400-1	5-7/8"	2-15/16"	2-15/16"	1-1/8"	3/16"

Sea-Dog Heavy Duty Strap Hinge



- Stamped 304 stainless steel
- L: 7-1/8" x W: 1-5/8"
- Use #8 fasteners

SED 201620-1 2/pkg



Sea-Dog Strap Hinges



- Stamped 304 stainless steel
- 2/pkg
- Use #8 fasteners

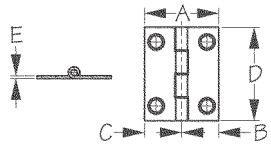
Part #	A	B	C	D	E
SED 201134-1	4"	2"	2"	1-1/8"	1/8"
SED 201136-1	6-1/8"	3-1/16"	3-1/16"	1-1/8"	1/8"

Perko Butt Hinge



- Chrome plated zinc butt hinge
- Has removable pin
- 2" x 2"
- Use #8 fasteners

PER 1293-DP4-CHR





Sea-Dog Butt Hinges

- Stamped 304 stainless steel
- 2/pkg
- Use #6 fasteners

Part #	A	B	C	D	E
SED 201070-1	1-1/4"	5/8"	5/8"	1-1/2"	1.2mm
SED 201071-1	1-5/8"	13/16"	13/16"	2"	1.2mm
SED 201072-1	2"	1"	1"	2"	1.5mm

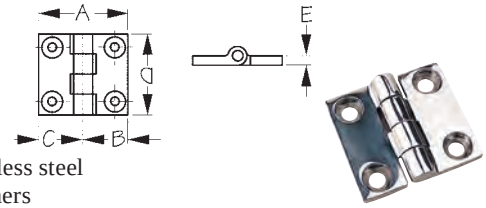
Sea-Dog Butt Hinges

- Stamped 304 stainless steel hinge
- Use #8 fasteners

Part #	H	W	Pack
SED 201080-1	2"	3"	2/pkg
SED 201081	3"	3"	each

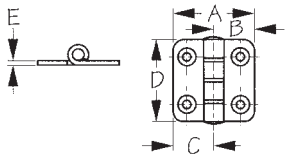


Sea-Dog Butt Hinges

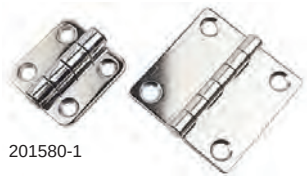


- Cast 316 stainless steel
- Use #10 fasteners

Part #	A	B	C	D	E	Pack
SED 205140	1-5/8"	13/16"	13/16"	1-1/2"	3/16"	Each
SED 205140-1	1-5/8"	13/16"	13/16"	1-1/2"	3/16"	2
SED 205142-1	2"	1"	1"	2"	3/16"	2

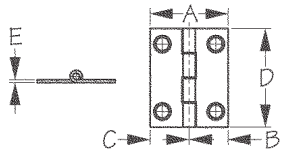


Sea-Dog Butt Hinges



- Stamped 304 stainless steel
- Use #8 fasteners

Part #	A	B	C	D	E	Pack
SED 201580	1-3/8"	11/16"	11/16"	1-1/2"	1/16"	Each
SED 201580-1	1-3/8"	11/16"	11/16"	1-1/2"	1/16"	2
SED 201582-1	2"	1"	1"	2"	1/16"	2

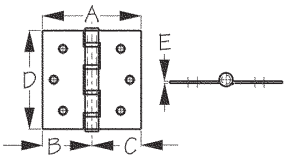




Sea-Dog Dampening Butt Hinges

- Stamped 304 stainless steel construction
- Black hinges have durable PVD coating
- Teflon coated pin for precise, low friction movement
- 2/pkg
- Use #8 FH fasteners

Part #	A	B	C	D	E	Colour
SED 203070-1	1-1/4"	5/8"	5/8"	1-1/2"	1/16"	-
SED 203071-1	1-1/2"	3/4"	3/4"	2"	1/16"	-
SED 203072-1	2"	1"	1"	2"	1/16"	-
SED 203077-1	1-1/4"	5/8"	5/8"	1-1/2"	1/16"	Black
SED 203078-1	1-1/2"	3/4"	3/4"	2"	1/16"	Black
SED 203079-1	2"	1"	1"	2"	1/16"	Black

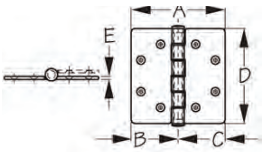




Sea-Dog Dampening Butt Hinges

- Stamped 304 stainless steel construction
- Black hinges have durable PVD coating
- Teflon coated pin for precise, low friction movement
- 2/pkg
- Use #8 FH fasteners

Part #	A	B	C	D	E	Colour
SED 203080-1	2"	1"	1"	3"	1/16"	-
SED 203081-1	3"	1-1/2"	1-1/2"	3"	1/16"	-
SED 203088-1	2"	1"	1"	3"	1/16"	Black
SED 203089-1	3"	1-1/2"	1-1/2"	3"	1/16"	Black

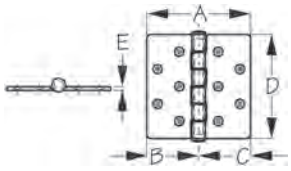




Sea-Dog Butt Hinge with Bearings/Commercial Pattern

- Investment cast 316 stainless steel construction
- Designed to disburse weight, compensating for heavier doors and increased use
- Silent movement and no rattle due to integral nylon bearings
- Commercial ASNI template screw hole pattern
- Use 8x 1/4" FH fasteners

Part #	A	B	C	D	E
SED 205244	4"	2"	2"	4"	1/8"

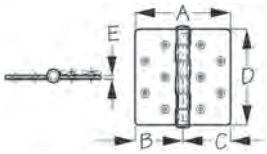


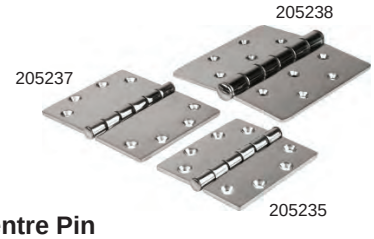


Sea-Dog Heavy Duty Hinges - Top Pin

- Investment cast 316 stainless steel construction
- Designed for extra strength and corrosion resistance
- Silent movement and no rattle due to integral nylon bearings
- Use 1/4" fasteners

Part #	A	B	C	D	E
SED 205225	4"	2"	2"	4-1/2"	3/16"
SED 205227	5-1/2"	2-3/4"	2-3/4"	4-1/2"	3/16"

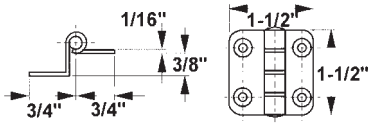




Sea-Dog Heavy Duty Hinges - Centre Pin

- Investment cast 316 stainless steel construction
- Designed for extra strength and corrosion resistance
- Silent movement and no rattle due to integral nylon bearings
- Hinge folds flat
- Use 1/4" fasteners

Part #	A	B	C	D	E
SED 205235	4"	2"	2"	4-1/2"	3/16"
SED 205237	5-1/2"	2-3/4"	2-3/4"	4-1/2"	3/16"
SED 205238	6"	3"	3"	6"	3/16"





Sea-Dog Offset Butt Hinge

- Stamped 304 stainless steel
- Formed with a 3/8" offset for front surface of a raised door
- Use #8 fasteners

SED 201590-1 2/pkg

Sea-Dog Dampening Offset Butt Hinge



- Stamped 304 stainless steel
- Teflon coated pin for precise, low friction movement
- L: 1-1/2" x W:1-1/2"
- Use #8 fasteners

SED 203590-1 2/pkg

Sea-Dog Short Side Door Hinges



- Stamped 304 stainless steel
- L: 2" x W:1-1/2"
- Use #8 fasteners

SED 201020-1 2/pkg
SED 201020 Each

Sea-Dog Hatch Hinges



- Cast 316 stainless steel
- L: 3-1/2" x W: 2-7/8"
- Use #10 fasteners

SED 205285 Bulk, each
SED 205285-1 Packaged, each

Sea-Dog Hatch Hinges



205280R Detail



- Cast 316 stainless steel
- L: 2-7/8" x W: 2-5/8"
- Use #10 fasteners

SED 205280-1 Split ring
SED 205280R Quick release

Sea-Dog Hatch Hinge



- Chrome plated brass
- L: 3" x W: 2-1/2"
- Use #10 fasteners

SED 204280-1 Each

Sea-Dog Take-Apart Hinges



- Cast 316 stainless steel
- L: 3-1/2" x W: 2"
- Use #10 fasteners

SED 205270-1 Left hand, 2/pkg
SED 205275-1 Right hand, 2/pkg

Sea-Dog Locking Take-Apart Hinge



- Investment cast 316 stainless steel
- L: 3-1/2" x W: 2"
- Use #10 fasteners

SED 205276 Each

Sea-Dog Take-Apart Hinges



- Forged chrome plated brass
- L: 3-7/8" x W: 2"
- Use #10 fasteners

SED 204278-1 Left hand, 2/pkg
SED 204279-1 Right hand, 2/pkg

Sea-Dog Lift Gate Butt Hinges



- Aluminum pontoon lift gate hinges with nylon washers for quiet movement and smooth operation
- 2-1/2" x 2-3/4"
- Fasteners: #10 RH

SED 207730 Left hand, each
SED 207730-1 Left hand, 2/pkg
SED 207735 Right hand, each
SED 207735-1 Right hand, 2/pkg

Sea-Dog Flush Door Hinge



- Stamped stainless steel flush door hinge
- L: 2-7/8" x W: 1-1/2"
- Use #8 fasteners

SED 201535-1 2/pkg

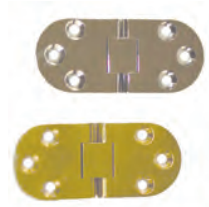
Sugatsune Table Hinge



- Chromed brass table hinge
- L: 70mm x W: 40mm
- Use #8 fasteners

SUG SMH-40/CR Each

Sugatsune Table Hinges



- Solid brass
- L: 70mm x W: 30mm
- Sold by the each
- Use #8 fasteners

SUG SMH-30/CR Chrome finished
SUG SMH-30/PB Polished finish

Gemlux Flush Mount Hinges



1644

- Stamped stainless steel
- Knuckle sits below the hinge mounting surface
- Fits in recessed deck hatches or lids
- Allows 120 degrees of motion
- #6 fasteners

GEM 1640 1-5/8" x 1-3/16"
GEM 1644 2.67" x 1.54"

Gemlux Flush Mount Hinge



- Investment cast stainless steel
- Knuckle sits below the hinge mounting surface
- Fits in recessed deck hatches or lids
- Allow 120 degrees of motion
- #10 fasteners
- 4" x 1-1/2"

GEM 3179 Each

Gemlux Flush Mount Hinge



- Stamped stainless steel
- Knuckle sits below the hinge mounting surface
- Fits in recessed deck hatches or lids
- Allow 120 degrees of motion
- #10 fasteners
- 3" x 1-1/2"

GEM 2643 Each

Sea-Dog Flush 2-Pin Hinge



- Stamped 304 stainless steel hinge
- L: 3-1/4" x W: 1-3/16"
- Use #6 fasteners

SED 201550-1 2/pkg

Gemlux Flush Mount Hinge



- Stainless steel
- Knuckle sits below the hinge mounting surface
- Fits in recessed deck hatches or lids
- Allows 120 degrees of motion
- #8 fasteners

GEM 1647 2-5/8" x 1-1/2"

Sea-Dog Flush 2-Pin Hinge



- Stamped 304 stainless steel hinge
- L: 3" x W: 1-1/2"
- Use #8 fasteners

SED 201551-1 2/pkg

Sea-Dog Round Side 2-Pin Hinges



- Stamped 304 stainless steel hinge
- L: 3" x W: 1-1/2"
- Use #8 fasteners

SED 201555 Each
SED 201555-1 Pair

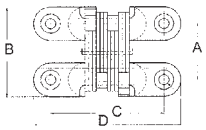
Sugatsune Concealed Hinge



- Stainless steel self-closing
- 19mm coverage with 100° opening
- Comes with 304 stainless steel screws

Hinge
SUG 304B-C46/19 Bulk each

Mounting Plate
SUG 304B-P4A/32 Bulk each





Sugatsune Concealed Hinges

- Zinc alloy body and stainless steel link
- Fasteners supplied

Part #	A	B	C	D
SUG R-43	18mm	29mm	32mm	43mm
SUG R-60	22.2mm	35.2mm	47mm	60mm
SUG R-70	26.6mm	42.6mm	537mm	70mm

Gemlux Heavy Duty Hinge



- Stainless steel
- Knuckle sits below the hinge mounting surface
- Fits in recessed deck hatches or lids
- Allows 120 degrees of motion
- Use 5/16" fasteners

GEM 1659 3-5/8" x 3-1/4"

Sea-Dog Door Hinge



- Stamped 304 stainless steel
- L: 2-3/4" x W: 1-1/2"
- Use #8 fasteners

SED 201030-1 2/pkg

Sea-Dog Dampening Hinge



- Stamped 304 stainless steel
- Teflon coated pin for precise, low friction movement
- L: 2-7/8" x W:1-1/2"
- Use #8 fasteners

SED 203530-1 2/pkg

Sea-Dog Round Side Hinge



- Stamped 304 stainless steel
- L: 2-3/4" x W:1-1/2"
- Use #8 fasteners

SED 201700-1 2/pkg

Sea-Dog Dampening Round Side Hinge Short



- Stamped 304 stainless steel
- Teflon coated pin for precise, low friction movement
- L: 2-13/16" x W:1-7/16"
- Use #8 fasteners

SED 203700-1 2/pkg

Sea-Dog Round Side Hinge



- 304 Stainless steel
- L: 4-1/16" x W: 1-1/2"
- Use #8 FH fasteners

SED 201710-1 2/pkg

Sea-Dog Round Side Hinge - Long



- Stamped 304 stainless steel
- L: 5-3/8" x W:1-1/2"
- Use 6x #8 FH fasteners

SED 201720-1 2/pkg

Sea-Dog Round Side Hinge, Flush Mount



- Stamped 304 stainless steel
- L: 5-3/8"" x W:1-1/2"
- Use 6x #8 FH fasteners

SED 201725-1 2/pkg

Sea-Dog Door Hinge



- Stamped 304 stainless steel
- L: 2-7/8" x W: 1-1/2"
- Use #8 fasteners

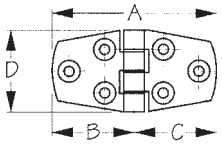
SED 201530-1 2/pkg

Sea-Dog Door Hinges



- Stamped 304 stainless steel
- L: 2-1/8" x W: 1-1/2"
- Use #8 fasteners

SED 201510 Bulk each
SED 201510-1 2/pkg





Sea-Dog Cuddy Door Hinges

- Cast 316 stainless steel, highly polished finish
- Use #10 fasteners

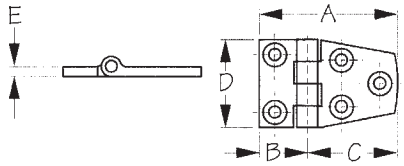
Part #	A	B	C	D	Pack
SED 205410	3"	1-1/2"	1-1/2"	1-1/2"	Each
SED 205410-1	3"	1-1/2"	1-1/2"	1-1/2"	Pair
SED 205420-1	4-1/8"	2-1/16"	2-1/16"	1-1/2"	Pair

Sea-Dog Locker Hinges



- Stamped 304 stainless steel locker hinge
- 2/pkg

SED 201800-1 L: 2-7/8" x W: 2-3/8", #12 FH fasteners
SED 201801-1 L: 2-7/8" x W: 2-15/16", #12 FH fasteners
SED 201805-1 L: 6" x W: 2-15/16", 1/4" FH fasteners





Sea-Dog Offset Hinges

- Cast 316 stainless steel, highly polished finish
- 2/pkg
- Use #10 fasteners

Part #	A	B	C	D	E
SED 205310-1	2-3/8"	7/8"	1-1/2"	1-1/2"	3/16"
SED 205320-1	2-7/8"	3/4"	2-1/8"	1-1/2"	3/16"

Sea-Dog Round Hinge



- Cast 316 stainless steel
- Highly polished finish
- L: 3-1/4" x W: 1-3/16"
- Use #10 fasteners

SED 205460 Each

Sea-Dog Door Hinge



- Die cast chrome zinc
- L: 2-7/8" x W: 1-1/2"
- Use #8 fasteners

SED 206530-1 2/pkg

Sea-Dog Long Side Door Hinge



- Stamped 304 stainless steel
- L: 6" x W: 2-1/4"
- Use #10 fasteners

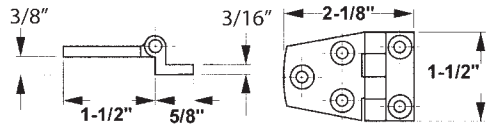
SED 201750-1 2/pkg

Sea-Dog Dampening Offset Hinge



- Stamped 304 stainless steel
- Teflon coated pin for precise, low friction movement
- L: 2-1/8" x W: 1-1/2"
- Use #8 FH fasteners

SED 203512-1 2/pkg



Sea-Dog Offset Hinge



- Investment cast 316 stainless steel
- Hinge is formed with a 3/8" offset
- Designed to be mounted on the front surface of a raised door
- Use #10 fasteners

SED 205350-1 2/pkg

Perko Offset Hinge



- Chrome plated zinc
- 3/8" offset
- 2/pkg
- Use #8 fasteners

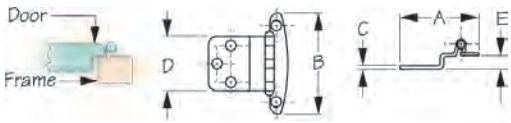
Part #	Size Open	Offset
PER 942-DP-CHR	1-1/2" x 1-1/2"	3/8"

Perko Inset Cupboard Hinge



- Chrome plated brass
- 3/8" inset
- Size: 2-3/4" x 2-1/8"
- Use #4 fasteners

PER 271-DP-CHR 2/pkg

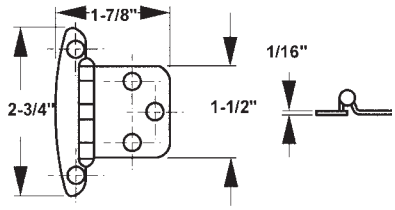


Sea-Dog Semi-Concealed Hinges



- Stamped 304 stainless steel
- Use #6 fasteners

Part #		A	B	C	D	E	
SED 201914	S/S	2-3/16"	2-3/4"	1/16"	1-1/2"	3/8"	each
SED 201914-1	S/S	2-3/16"	2-3/4"	1/16"	1-1/2"	3/8"	2/pkg
SED 201916-1	S/S	2-3/16"	2-3/4"	1/16"	1-1/2"	1/2"	each





Sea-Dog Flush Mount Concealed Hinge

- Stamped 304 stainless steel
- Use #6 fasteners

SED 201954-1 S/S, 2/pkg

Sugatsune Hinge



- Mirror finish 18-8 stainless steel
- L: 127mm x W: 38.1mm
- Use #6 fasteners

SUG MA-5 Each

Sugatsune Hinge



- Satin finish 18-8 stainless steel
- L: 81mm x W: 30mm
- Use #8 fasteners

SUG SMH-83/S Bulk

Perko Cuddy Door Hinge



- Chrome plated bronze
- 2/pkg

Part #	Length	Width	Screw
PER 951-DP2-CHR	4"	1-1/2"	#8

Perko Cuddy Door Hinge



- Chrome plated zinc
- 2/pkg

Part #	Length	Width	Screw
PER 808-DP-CHR	3"	1-1/2"	#8

Sea-Dog "T" Hinges



- Investment cast 316 stainless steel
- Each bulk

Part #	Length	Width	Fastener
SED 205705	4"	2-3/8"	#8 FH
SED 205710	6"	3-1/8"	#10 FH

Perko "T" Hinge



- Chrome plated
- 2/pkg
- Use #10 fasteners

Part #	Length	Width	Height 'T' Side
PER 197-DP2-CHR	6"	3"	1-1/2"

Perko Door Hinge



- Chrome plated bronze
- 2/pkg
- Use #8 fasteners

Part #	Width Open	Width Short Side	Height Pin
PER 999-DP-CHR	3-1/2"	1-1/2"	1-1/2"

Perko Door Hinge



- Chrome plated bronze or chrome plated zinc
- 2/pkg
- Use #8 fasteners

Part #	Length	Width	Material
PER 987-DP1-CHR	2-1/2"	1-1/2"	Chrome bronze

Perko Hinge



- Chrome plated zinc
- 2/pkg
- Use #8 fasteners

Part #	Size Open
PER 941-DP-CHR	1-1/2" x 1-1/2"

Sea-Dog Short Side Door Hinges



- Injection molded fibreglass nylon
- Stainless steel hinge pin
- L: 2-1/4" x W: 1-3/8"
- Use #8 fasteners

SED 202510-1 Black, 2/pkg
SED 202511-1 White, 2/pkg

Sea-Dog Dampening Short Side Hinge



- Stamped 304 stainless steel
- Teflon coated pin for precise, low friction movement
- L: 2-1/8" x W:1-1/2"
- Use #8 fasteners

SED 203510-1 2/pkg

Sea-Dog Offset Short Side Door Hinges



- 304 stainless steel
- 2/pkg
- Use #8 FH fasteners

SED 201570-1 L: 2-3/4" x W: 1-1/2"
SED 201572-1 L: 2-1/2" x W: 1-1/2"

Sea-Dog Butt Hinges



- Injection molded fibreglass nylon
- L: 1-1/2" x W: 1-3/8"
- Use #8 fasteners

SED 202580-1 Black, 2/pkg
SED 202581-1 White, 2/pkg

Sea-Dog Door Hinges

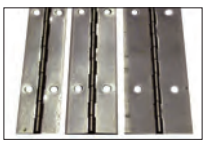


- Injection molded fibreglass nylon
- L: 3" x W: 1-3/8"
- Use #8 fasteners

SED 202530-1 Black, 2/pkg
SED 202531-1 White, 2/pkg

Piano Hinges

- Sold in 6 foot lengths
- Please note that size given refers to the hinge when opened
- Approximately 48 screws per length needed
- 304 stainless steel
- Use #6 fasteners



LAR 1-1/4"X6'SS 1-1/4" x 6'
LAR 1-1/2"X6'SS 1-1/2" x 6'
LAR 2"X6'SS 2" x 6'
LAR 3"X6'SS 3" x 6'

Sea-Dog Lashing Hook



- Injection molded nylon
- H: 7/8" x W: 1-3/16" x D: 9/16"
- Use #10 fasteners

SED 671415-1 Black, 5/pkg

Sea-Dog Lashing Hook



- Injection molded nylon
- H: 15/16" x W: 7/16" x D: 5/8"
- Use #6 RH fasteners

SED 671425-1 Black, 5/pkg

Sea-Dog Hammock Hooks



- Stamped 304 stainless steel
- H: 15/16" x W: 1-1/4" x D: 1/2"
- Use #6 fasteners

SED 671460 Bulk, each
SED 671460-1 2/pkg

Sea-Dog Coat Hooks



- 304 Stainless steel construction
- W: 1-1/4" x H: 1-1/4" x D: 1-1/16"
- Use 2x #6 FH fasteners

SED 671465-1 W: 1-1/4" x H: 1-1/4" x D: 1-1/16"
SED 671485-1 W: 2-7/16" x H: 1-7/16" x D: 2-7/16"

Sea-Dog Heavy Duty Coat Hook



- Investment cast 316 stainless steel
- Fasteners are covered by a stainless plate for a clean look
- Use 3x #8 FH fasteners

SED 671495-1 W: 2-1/4" x H: 3" x D: 2-5/8"

Sea-Dog Folding Coat Hook



- Folds flat when not in use
- Corrosion resistant, investment cast 316 stainless steel with rubber gasket
- Uses 2x #8 fasteners (not included)
- W: 1-3/16" x H: 2" x D: 9/16" closed

SED 671497-1

Sugatsune Ball Point Hooks



- Polished 18-8 stainless steel
- Sold by each

SUG TL-15 21/32"
SUG TL-20 29/32"
SUG TL-30 1-1/4"
SUG TL-40 1-19/32"

Handi-Man Cup Hooks



- Solid brass

Part #	Size	Pack
HAN 480011	1/2"	6
HAN 480021	5/8"	6
HAN 480041	7/8"	6

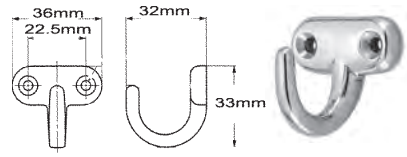
Perko Utility Hook



- Chrome plated zinc
- 1/4" inside hook
- L: 15/16"L x W: 1/2"
- Use #6 fasteners

PER 1249-DP-CHR 5/pkg

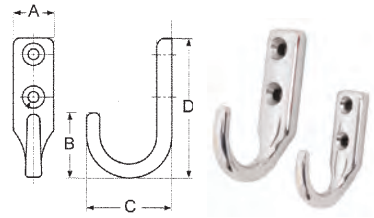
Sugatsune Hook



- Polished stainless steel
- Comes with screws
- Bulk packaged

SUG EP-40

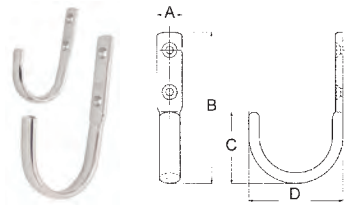
Sugatsune Hooks



- Polished stainless steel
- Comes with screws
- Bulk packaged

Part #	A	B	C	D
SUG EL-25	12mm	19mm	26mm	40mm
SUG EL-30	16mm	25mm	32mm	54.5mm

Sugatsune Hooks



- Polished stainless steel
- Comes with screws

Part #	A	B	C	D	Pack
SUG JF-45	12mm	72mm	34mm	45mm	Bulk
SUG JF-70	16mm	120mm	55mm	68mm	Bulk

Sea-Dog Coat Hooks



- Investment cast 316 stainless

- H: 1-7/16" x W: 1-7/16" x D: 1"
- Use #8 fasteners

SED 671491-1 Single



- H: 1-7/16" x W: 2-9/16" x D: 1"
- Use #8 fasteners

SED 671492-1 Double

Sea-Dog Coat Hooks





- Cast brass
- H: 2-1/16" x D: 1-7/8"
- Display packaged, 2/pkg
- Use #6 fasteners

SED 671500-1 Chromed
SED 671505-1 Brass

Sea-Dog Coat Hooks



- Cast brass
- H: 1-9/16" x D: 1-3/4"
- Display packaged, 2/pkg
- Use #6 fasteners

SED 671501-1 Chromed
SED 671506-1 Brass

Perko Coat Hook



- Chrome plated zinc
- W: 1-1/8" x D: 1-3/8"
- Use #6 fasteners

PER 610-DP-CHR

Perko Hat & Coat Hooks



- Chrome plated zinc
- Use #6 fasteners

No.	Depth	Width
PER 975-DP1-CHR	2"	1-1/8"
PER 975-DP2-CHR	3"	1-1/4"

Sea-Dog Triple Coat Hooks



- Cast brass
- H: 4-5/8" x W: 3-1/4" x D: 1-7/16"
- Display packaged, each
- Use #6 fasteners

SED 671520-1 Chromed brass
SED 671525-1 Brass

Perko Double Coat Hook



- Chrome plated zinc
- W: 3" x xD: 3/4"
- Use #6 fasteners

PER 1106-DP-CHR

Sea-Dog Double Coat Hook



- Cast brass
- W: 2-11/16" x H: 1-1/2" x D: 1-9/16"
- Use 2x #6 FH fasteners

SED 671510-1 Chromed brass
SED 671515-1 Brass

Sugatsune Towel Racks



- Material: 303 stainless steel
- Mirror finish
- Supplied with stainless steel screws

Part #	Length	Depth	Tube
SUG KB-T-350	13.7"	2"	.4"
SUG KB-T-450	17.7"	2"	.4"

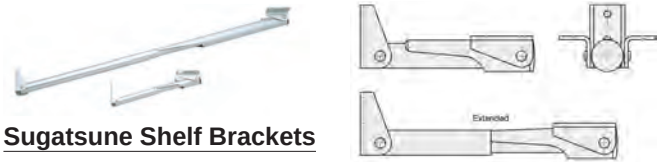
Gemlux Folding Bracket



- Forged stainless steel
- Safe working loads:
  - Long extension - 150 lbs
  - Short extension - 300 lbs
- H: 6-1/2" x L: 11-7/8" x W: 1-1/4"
- Uses #10 fasteners

GEM 1468-1

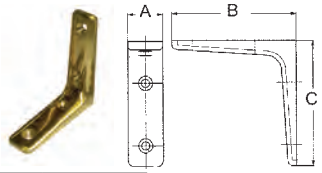
Sugatsune Shelf Brackets



- Made from aluminum and matte finished
- For propping up cabinet doors or shelves
- Comes with fasteners

SUG 38830-25 6.6" to 10.8", max. load 121 lbs
SUG 38845-25 10" to 17", max. load 132 lbs

Sugatsune Angle Bracket

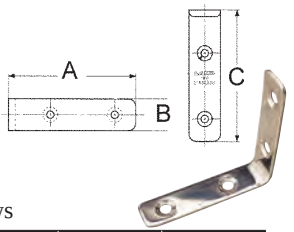


- Polished solid brass
- Supplied with brass screws

Part #	A	B	C
SUG BA-60 **	17mm	60mm	60mm

** While Stock Lasts

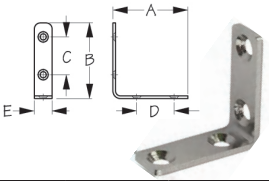
Sugatsune Angle Brackets



- Mirror finish 18-8 stainless steel
- Supplied with stainless steel screws

Part #	A	B	C	Pack
SUG SU-30/M	31mm	12mm	31mm	Bulk
SUG SU-45/M	46mm	13mm	46mm	Bulk
SUG SU-60/M	61mm	15mm	61mm	Bulk

Sea-Dog 90° Angle Bracket



- Stamped 304 stainless steel
- Use 4x #8 FH fasteners

Part #	A/B	C/D	E	Pack
SED 221305-1	1-1/2"	7/8"	9/16"	Display

► *Also See* Table Brackets pg 15-017

Perko Spring Clamps



- Polished stainless steel
- 2/pkg
- Use #6 fasteners

PER 502-DP1-STS 5/8" to 1-1/4"
PER 502-DP2-STS 1" to 1-3/4"

Sea-Dog Boat Hook Brackets



- Stamped 304 stainless steel
- 2/pkg
- Use 2x #8 RH fasteners

SED 491135-1 H: 1-11/16" x W: 1-3/8", fits 3/4" to 1" pole
SED 491136-1 H: 2-3/8" x W: 1-13/16", fits 1" to 1-1/4" pole

Sea-Dog Boat Hook Brackets



- Stamped 304 stainless steel
- Fits up to 1-1/4" pole
- 4" H x 1" W
- Use 1/4" fasteners

SED 491130-1 2/pkg

Perko Boat Hook Holders



- Polished stainless steel
- Maximum pole size 1-1/2"
- Use #8 fasteners

PER 492-DP-STS 2/pkg

Beckson Clipmate Holders



- White tempered B-Flex plastic
- Leg design provides permanent holding spring action
- Sold in pairs
- Use #6 pan head fasteners

BEC CM-1 7/8" - 1-1/8"
BEC CM-2 1-1/2" - 2"

Beckson Plastic Holding Clips



- Non-conductive, non-magnetic and non-corrosive
- 1/8" holes on 3/4" centre for all sizes
- Use #6 flat head fasteners
- 2/pkg

Part #	Colour	Size Range
BEC CLP-1/4"	Black	1/4" - 5/16"
BEC CLP-1/4"W	White	1/4" - 5/16"
BEC CLP-1/2"	Black	3/8" - 1/2"
BEC CLP-1/2"W	White	3/8" - 1/2"
BEC CLP-3/4"	Black	5/8" - 7/8"
BEC CLP-3/4"W	White	5/8" - 7/8"
BEC CLP-1"	Black	7/8" - 1-1/8"
BEC CLP-1"W	White	7/8" - 1-1/8"
BEC CLP-1-1/4"	Black	1-1/8" - 1-3/8"
BEC CLP-1-1/4"W	White	1-1/8" - 1-3/8"
BEC CLP-1-1/2"	Black	1-3/8" - 1-5/8"
BEC CLP-1-1/2"W	White	1-3/8" - 1-5/8"
BEC CLP-1-3/4"	Black	1-5/8" - 1-7/8"
BEC CLP-1-3/4"W	White	1-5/8" - 1-7/8"
BEC CLP-2"	Black	1-7/8" - 2-1/8"
BEC CLP-2"W	White	1-7/8" - 2-1/8"

Sea-Dog Folding Pole Storage Clips



- Injection molded nylon
- Use #8 FH fasteners

SED 491549-1 1" clip, 2/pkg
SED 491551-1 1-1/4" clip, 2/pkg
SED 491555-1 1-1/2" clip, 2/pkg

Sea-Dog Folding Pole Storage Brackets



- Injection molded nylon/304 stainless
- Max. pole: 1-1/4"
- Use #12 FH fasteners

SED 491140-1 2/pkg

Perko Pole Storage Clips



- Soft black rubber
- Fits 3/4" diameter tubing
- Use #10 PH fasteners

PER 477-DP-BLK 2/pkg

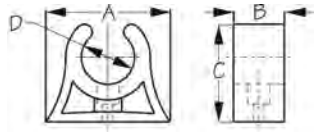
Sea-Dog Pole Storage Clip



- Injection molded black rubber
- Accepts to 3/4" dia. pole

SED 491145-1

Sea-Dog Boat Hook Brackets





- Injection molded rubber
- Sold in pairs

Part #		A	B	C	D	Pole Size
SED 491341-1	Black	1-1/4"	7/16"	15/16"	1/2"	1/2"
SED 491343-1	Black	1-1/2"	7/16"	1-1/16"	5/8"	5/8"
SED 491345-1	Black	1-3/4"	3/4"	1-1/4"	3/4"	3/4"
SED 491349-1	Black	2-1/4"	3/4"	1-5/8"	1"	1"
SED 491351-1	Black	2-15/16"	3/4"	2-1/8"	1-1/4"	1-1/4"
SED 491353-1	Black	3-5/16"	3/4"	3-5/16"	1-1/2"	1-1/2"

Davis Quick Fist Rubber Clamps



- Heavy duty, transportation grade rubber
- UV resistant
- Withstands extreme heat and cold
- Mounts with one #10 bolt or screw
- Will hold objects from 7/8" to 2-1/4" diameter
- Approximate capacity is 22 lbs each
- Mounting base: 7/8" x 2-3/4"

DIN 540 2/pkg

► *Also See* Paddle Holders pg 17-002

General COMPONENTS

generalcomponents.ca

Comfort when you need it most.

Located in Vancouver, Canada, General Components Ltd. is the supplier of bunk and engine diesel heaters, RV heaters and mobile and off-grid energy storage solutions.

Bison Forced Air Diesel Heaters



2200A



4000A



5000A



05 - APPLIANCES

Refrigeration & Ice Makers	Nova Kool	05-002 to 006
	Icemakers / Portable Refrigeration	05-006
	Isotherm	05-007 to 008
Water Treatment	Water Purifiers	05-009
	Desalinators	05-010
Stoves, Parts & Accessories	Stoves & Ranges	05-010 to 014
	Stove Pipe / Parts	05-015
BBQ's	Magma Grills / Cookware / Accessories	05-016 to 023
	Kuuma	05-024
	Dickinson	05-025
Propane Fittings	Hose & Fittings	05-026 to 029
	Tanks	05-027
Heating	Fans	05-030 to 031
	Dehumidifiers / Mildew Control	05-032 to 033
	Air Purifiers	05-033
	Heaters / Fuels	05-033 to 045
Water Heaters	Water Heaters	05-045 to 047
Air Conditioners	Air Conditioners	05-048 to 049

NOVA KOOL

Nova Kool Single Door Refrigerators

These units have a large interior volume with a small cut out dimension
Large reversible doors, with magnetic gaskets for a positive seal
All stainless steel hinges
All fridges come with fan as standard
Construction is rugged 18 gauge epoxy coated satin coat steel frame with a galvanized steel outer cabinet shell
The interior lining is made of impact resistant polystyrene plastic with solid fill urethane insulation
Thermostat controlled for a wide range of settings
The removable door panel can be replaced to match differing interiors
Standard freezer compartments with doors and ice tray, except the R2600
Compressor automatically shuts down in low voltage conditions
If using an AC/DC unit, it automatically switches to AC when AC power is available
Designed for marine use, they can operate at a constant angle of up to 30 degrees
The quiet DC compressor will not interfere with other equipment, when operated solely on DC voltage


R1900


R2300/R3100

All regularly stocked fridges & freezers have hinges on the RIGHT side


R2600


R3000/R3800


R5810


R4200


R4500

Part #	Volume Cu Ft (ltrs)	Freezer Cu Ft (ltrs)	Light	Volts	Power Amps/24H♦	Cutout H x W x D in.	Weight lbs
NOV R1900-DC	1.9 (54)	0.21 (6.0)	N/A	12/24VDC	23.75@12V	20-5/8" x 15-5/8" x 17-3/4"	40
NOV R1900ACDC				12/24 & 100/240 50/60 Hz			
NOV R2300-DC	2.1 (59)	0.25 (7.1)	N/A	12/24VDC	29.2@12V	28-3/8" x 16-3/4" x 14-1/2"	45
NOV R2600-DC	2.4 (68)	0.14 (4.0)	N/A	12/24VDC	23.75@12V	20-1/4" x 18" x 19-1/2"	39
NOV R2600ACDC				12/24 & 100/240 50/60 Hz			
NOV R3000DC-W	2.5 (70)	0.25 (7.1)	N/A	12/24VDC	27@12V	24-5/8" x 19-1/4" x 15-1/2"	45
NOV R3000ACDC				12/24 & 100/240 50/60 Hz			
NOV R3100-DC	3.0 (85)	0.3 (8.5)	N/A	12/24VDC	29.2@12V	28-3/8" x 16-3/4" x 19-1/2"	48
NOV R3800-DC	3.5 (100)	0.45 (12.7)	Yes	12/24 & 100/240 50/60 Hz	30@12V	28-3/8" x 20-1/4" x 18"	54
NOV R3800-ACDC				12/24VDC			
NOV R4200-DC	4.3 (122)	0.6 (17.0)	Yes	12-24VDC	35.8@12V	37-3/8" x 18-1/2" x 19-1/2" - 21-1/4"	53
NOV R4500-DC	4.3 (122)	0.6 (17.0)	Yes	12/24VDC	35.8@12V	28-3/8" x 20-1/4" x 21"	59
NOV R4500ACDC				12/24 & 100/240 50/60 Hz			
NOV R5810-DC †	5.8 (164)	0.4 (11.3)	Yes	12/24VDC	50@12V	32" x 23-1/4" x 22"	69
NOV R5810-ACDC †				12/24 & 100/240 50/60 Hz			
NOV R5812-ACDC †	5.8 (164)	-	Yes	12/24 & 100/240 50/60 Hz	50@12V	32" x 23-1/4" x 22"	69

† Brushed stainless steel door panel (Replaceable)
♦ Consumption is based on amps over a 24 hr period. Calculated for normal use at 75°F (23°C) ambient temperature and a 39°F (4°C) fridge temperature.

All the same features as the single door units


RFS4800


RFS7501


RFU6200


RFU6400D


RFU7300D


RFU8220


RFU8320


RFU9000

Part #	Volume Cu Ft (ltrs)	Freezer Cu Ft (ltrs)	Light	Volts	Power Amps/24H*	Cutout H x W x D in.	Weight lbs
Under Counter Refrigerators							
NOV RFS4800-DC	4.8	1.6	Yes	12/24VDC	55@12V	28-1/2" x 28" x 20-1/2"	
NOV RFS7501-DC	7.5 (212.3)	2.0 (57)	Yes	12/24VDC	55@12V	34" x 28-1/4" x 22"	86
NOV RFS7501ACDC				12/24 & 100/240 50/60 Hz			
Upright Refrigerators							
NOV RFU6200-DC *	6 (169.9)	2.5 (71)	Yes	12/24VDC	62.5@12V	47-1/3" x 20-1/4" x 20-1/2"	93
NOV RFU7300D-DC ♦	6.8 (193)	1.7 (48)	Yes	12/24VDC	43.2@12V	58-1/2" x 16-3/4" x 18-3/4"	85
NOV RFU6400D-DC	6.8 (193)	1.8 (51)	Yes	12/24VDC	70.8@12V	47" x 20-1/4" x 19-3/4"	85
NOV RFU6400D-ACDC	6.8 (193)	1.8 (51)	Yes	12/24 & 100/240 50/60 Hz	70.8@12V	47" x 20-1/4" x 19-3/4"	85
NOV RFU8220-DC	7.3 (206.7)	1.6 (45)	Yes	12/24VDC	70.8@12V	52-7/8" x 23-1/4" x 19-1/2"	95
NOV RFU8220ACDC				12/24 & 100/240 50/60 Hz			
NOV RFU8320-DC *	7.3 (206.7)	1.6 (45)	Yes	12/24VDC	70.8@12V	45-3/4" x 23-1/2" x 22-1/4"	95
NOV RFU8320ACDC				12/24 & 100/240 50/60 Hz			
NOV RFU9000-DC	9.1 (201)	2.5 (70.8)	Yes	12/24VDC	75@12V	52-7/8" x 23-1/4" x 22-3/4"	105
NOV RFU9000ACDC				12/24 & 100/240 50/60 Hz			

* Special Order

♦ Dual Compressor

Nova Kool Ice Box Conversion Kits

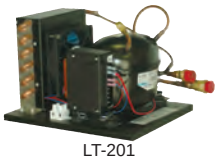
The simple, reliable and efficient means to convert an icebox into a refrigerator or even a freezer. It's a system engineered of components designed specifically for marine application. Three parts make up the system, a compressor assembly, a freezer unit, and a thermostat. The 12 volt compressor draws a very low amperage. The average draw is only 1.5 to 2.5 amps per hour in an adequately insulated box. The freezer unit is exactly like the freezer compartment in your household fridge, except smaller. The unit cools the entire box as well as provides a freezer. Anywhere from a 1 - 8 cubic foot icebox can be accommodated, equipping it to be a refrigerator, a full freezer or a combination refrigerator/freezer.


LT-201-F1


LT-201-FL


LT-201-RT6


LT-201-F


LT-201

LT-201 Specifications

12-24VDC
Variable speed compressor
Low battery protection
Compressor runs on a 30° angle
Over sized air cooled condenser for easy installation in all high ambient temperatures
L: 11" x W: 9" x D: 7-1/2"



Model #	Description	Plates (L x W x D)	Capacity Fridge*	Capacity Freezer**	Weight (lbs)
NOV LT-201-UNIT	Compressor only	-	-	-	-
NOV LT-201-F1	1 plate / compressor	16" x 10"	4 cu. ft.	2.5 cu. ft.	24
NOV LT-201-F	3 plate / compressor	16" x 10" x (2" to 18")	12 cu. ft.	8 cu. ft.	26
NOV LT-201-FL	1 plate / compressor	36" x 15" (can be bent for install)	14 cu. ft.	8 cu. ft.	26
NOV LT-201-RT4	Compressor, 'Freezer Box'	10.5" x 12.5" x 6.5"	12 cu. ft.	.5 cu. ft.	28
NOV LT-201-RT6	Compressor, 'Freezer Box'	14" x 6-3/4" x 11"	12 cu. ft.	.54 cu. ft.	28

Cooling capacity is based on normal use at 75°F(23°C) ambient temperature.The fridge or freezers cu.ft. is based on a box built with 4 inches of insulation and a top opening lid.
†Freezer capacity is based on holding freezer only.

Nova Kool Refrigerator - Ice Maker Replacement

Replaces Common Ice Maker Cut-Outs (U-Line BI-95)
Holds wine bottles as well as cans of beverage
Does not have a freezer compartment allowing more room for beverages
Stainless steel door panel



Part #	Volts	Power Amps/24H*	Volume cu ft (ltrs)	Cut-Out (H x W x D)	Weight
NOV R1200-DC	12/24VDC	24@12V	1.2 (34)	24.75" x 14" x 14.5" to 16"	37 lbs
NOV R1200-ACDC	12/24 & 100/240 50/60 Hz				

Consumption is based on amps over a 24 hour period and calculated based on normal use at 75°F (23°C) ambient temperature, and a 39°F (4°C) refrigerator temperature.

Nova Kool Top Load Refrigerator/Freezer

Replaceable door panels for a custom finish to your interior
R600a Isobutane refrigerant, ULC certified
CFC free urethane foam in cabinet and doors
Magnetic door gaskets for positive seal
Stainless fasteners & hinges used throughout
Low battery protection to help prevent full discharge of batteries
Low amperage fan



Part #	Volts	Power Amps/24H	Volume cu ft (ltrs)	Cut-Out (H x W x D)	Weight
NOV TL2500-DC *	12/24VDC	25@12V as fridge* 50@12V as freezer**	2.5 (71)	Base On: 27" x 20-1/4" x 18" Base Off: 19" x 20-1/4" x 18"	55 lbs
NOV TL2500ACDC *	12/24 & 100/240 50/60 Hz				

* Special Order

NOVA KOOL Norcold/Waeco/Dometic Crossover Chart

NORCOLD					NOVAKOOL										
MODEL	VOL	H	W	D	MODEL	VOL	H	W	D		MODEL	VOL	H	W	D
DC0051	2.7	20-1/2	18-1/2	21	R2600*	2.4	20-1/4	18	19-1/2						
DC230	1.7	20	15	18	R1900*	1.9	20-5/8	15-5/8	17-3/4	OR	R1600	1.3	20-5/8	15-5/8	13-3/4
DC254	1.9	20-1/4	17-3/4	20-3/8	R2600*	2.4	20-1/4	18	19-1/2						
DC340	1.7	20-1/2	15-1/4	17-3/4	R1900*	1.9	20-5/8	15-5/8	17-3/4	OR	R1600	1.3	20-5/8	15-5/8	13-3/4
DE0040	1.7	20-1/2	15-1/4	17-3/4	R1900*	1.9	20-5/8	15-5/8	17-3/4	OR	R1600	1.3	20-5/8	15-5/8	13-3/4
DE0041	3.6	30-7/8	23-1/4	23-1/2	R5810*	5.8	32	23-1/4	22	OR	R4500*	4.3	28-3/8	20-1/4	21
DE0051	2.7	20-1/2	18-1/2	21	R2600*	2.4	20-1/4	18	19-1/2						
DE0061	7	52-7/8	23-1/4	24-3/4	RFU9000*	9.1	52-7/8	23-1/4	22-3/4	OR	RFU8220*	7.3	52-7/8	23-1/4	19-1/2
DE251	1.9	20-1/4	17-3/4	20-3/8	R2600*	2.4	20-1/4	18	19-1/2						
DE351	1.9	20-1/2	18-1/2	21	R2600*	2.4	20-1/4	18	19-1/2						
DE390	2.8	30-7/8	20-1/2	20-1/8	R4500*	4.3	28-3/8	20-1/4	21	OR	R3800*	3.5	28-3/8	20-1/4	18
DE400	2.8	30-3/8	20-1/2	20-3/4	R4500*	4.3	28-3/8	20-1/4	21	OR	R3800*	3.5	28-3/8	20-1/4	18
DE440	1.6	20-1/2	15-1/4	17-3/4	R1900*	1.9	20-5/8	15-5/8	17-3/4	OR	R1600	1.3	20-5/8	15-5/8	13-3/4
DE441	3.1	30-7/8	23-1/4	23-1/2	R5810*	5.8	32	23-1/4	22	OR	R4500*	4.3	28-3/8	20-1/4	21
DE451	1.9	20-1/2	18-1/2	21	R2600*	2.4	20-1/4	18	19-1/2						
DE461	6.3	52-7/8	23-1/4	23 3/4	RFU9000*	9.1	52-7/8	23-1/4	22-3/4	OR	RFU8220*	7.3	52-7/8	23-1/4	19-1/2
DE490	2.8	30-7/8	20-1/2	20-1/8	R4500*	4.3	28-3/8	20-1/4	21	OR	R3800*	3.5	28-3/8	20-1/4	18
DE540	3.1	30-7/8	23-1/8	23-1/4	R5810*	5.8	32	23-1/4	22	OR	R4500*	4.3	28-3/8	20-1/4	21
DE541	3.1	30-7/8	23-7/8	23-1/4	R5810*	5.8	32	23-1/4	22	OR	R4500*	4.3	28-3/8	20-1/4	21
DE560	6.3	52-1/2	23-1/8	23-1/4	RFU9000*	9.1	52-7/8	23-1/4	22-3/4	OR	RFU8220*	7.3	52-7/8	23-1/4	19-1/2
DE561	6.3	52-7/8	23-1/4	23-3/4	RFU9000*	9.1	52-7/8	23-1/4	22-3/4	OR	RFU8220*	7.3	52-7/8	23-1/4	19-1/2
DE704	3.2	32-7/8	22	21-7/8	R4500 & FRAME704	4.3	28-3/8	20-1/4	21	OR	R5810*	5.8	32	23-1/4	22
DE728	6.2	51-7/8	23-15/16	23	RFU9000*	9.1	52-7/8	23-1/4	22-3/4	OR	RFU8220*	7.3	52-7/8	23-1/4	19-1/2
											RFU8320*	7.3	45-1/2	23-1/4	21-3/4
DE828	6.2	51-7/8	23-15/16	23	RFU9000*	9.1	52-7/8	23-1/4	22-3/4	OR	RFU8220*	7.3	52-7/8	23-1/4	19-1/2
											RFU8320	7.3	45-1/2	23-1/4	21-3/4
NR740	1.7	20-1/2"	15-1/4"	17-7/8"	R1900	1.9	20-5/8	15-5/8	17-3/4	OR	R1600	1.3	20-5/8	15-5/8	13-3/4
NR751	2.7	20-1/2"	18-1/2"	21-1/16"	R2600	2.4	20-1/4	18	19-1/2						
WAECO/DOMETIC					**NOVAKOOL**										
CR-1050	1.7	21	15	17-3/4	R1900*	1.9	20-1/2	15-5/8	17-3/4	OR	R1600*	1.4	20-1/2	15-5/8	13-3/4
CR-1065	2.3	21	18	19-1/2	R2600*	2.4	20-1/4	18	19-1/2						
CR-1080	2.8	25-1/2	19	19	R3100	3	28-3/8	16-3/4	18-1/2						
CR-1110	3.8	29	20-1/2	21-1/2	R4500*	4.3	28-3/8	20-1/4	21	OR	R3800*	3.5	28-3/8	20-1/4	18
RSD-0115E	3.9	29	20-1/2	22	R4500*	4.3	28-3/8	20-1/4	21	OR	R3800*	3.5	28-3/8	20-1/4	18
RSF-0115E	3.9	29	20-1/2	22	F3800*	3.5	28-3/8	20-1/4	18						
RPF-50SS	1.6	20-1/2	17-1/2	21	F1900*	1.9	20-5/8	15-5/8	17-3/4						
CB-036	1.3	16	16	23	N/A										
CB-040	1.4	26	13-1/4	19-3/4	N/A										
CB-110	3.5	25-1/2	19	31-3/4	TL2500*	2.5	20-1/4	18	18-3/4	OR	NK55	1.94	24	26	19
CD-30	1	9 3/4	17	28-3/4	N/A										

* CHOOSE VOLTAGE OPTION DC ONLY OR AC/DC
RFU8220 AND RFU9000 BOTH HAVE EASILY REMOVED MOUNTING FLANGES THAT REDUCE DEPTH BY 3/4" TO GET THRU TIGHT SPOTS
RFU8220 IS IDEAL FOR APPLICATIONS WHERE CLEARANCE THRU DO0RWAYS ETC IS LIMITED TO GET UNIT INTO BOAT
RFU8320 IS IDEAL FOR APPLICATIONS WHERE CUT OUT HEIGHT CANNOT BE INCREASED TO 52 7/8" FROM ORIGINAL 51 7/8 (DE828/728)
FRAME704 WHEN USED IN CONJUNCTION WITH R4500 OR R3800 TO REPLACE THE DE704

Fridge	Freezer	Fridge/Freezer	Top Loading	Drawer



FRAMEKIT-704

Nova Kool Parts & Accessories

NOV LATCH75	Molded plastic latch
NOV PANEL-26B *	Black panel 17.375" x 20"
NOV PANEL-38B *	Black panel 19.75" x 28"
NOV PANEL-38W *	White panel 19.75" x 28"
NOV PANELSET76S *	Brushed S/S panel set for 7600
NOV PANELSET80S	Brushed S/S panel set for 8000
NOV PANELSET90S	Brushed S/S panel set for 9000
NOV HINGE-PIN	Threaded
NOV THERMOSTAT	Thermostat plus (no box)
NOV THERMOSTAT +	Thermostat plus (with box)
NOV THUMBLATCH L	S/S kit - left
NOV THUMBLATCH R	S/S kit - right
NOV FAN	12V fan
NOV ICE-TRAY-LRG	Ice tray
NOV 101N0510	AC/DC Electronic Module
NOV 101N0213	2000 DC only Electronic Module

* Special Order - may have stock

Isotherm Smart Energy Control Kit



A dedicated air sensor which can continuously measure the cabinet air temperature



Potentiometer to activate the Isotherm Smart Energy Control mode.



Processor-based module to be connectedto the Danfoss / Secop compressor.

The sophisticated, processor-based Isotherm Smart Energy Control technology achieves significant power consumption savings by continuously scanning a set of key environmental factors to determine, through advanced proprietary algorithms, what is the most relevant compressor speed to maximize the performance/ battery drain ratio (COP).

ISO SED00033AA **

*** While Stock Lasts

Multiple benefits from a simple kit:

Up to 35 % savings due to a more efficient use of the compressor
Up to 50 % savings with combined effects of stored cooling energy in food and drinks
No need for eutectic plates / special storage devices
Easy to retrofit
Quick cooling in boost mode
Soft start option to avoid starting surges
Works with Nova Kool and may other Danfoss compressor fridges

Isotherm Ice Makers

- Stainless steel door
- Classic white, crescent shaped ice
- Reliable white ice technology - no drain required
- Numerous customizing possibilities with panels
- Unique front ventilation design
- Ice compartment keeps ice cubes frozen



5W08L14IMN000



5W08A14IMN000

Part #	Type	Quantity Ice (lbs/24hr)	H x W x D	Weight (lbs)	Power Consumption
ISO 5W08A14IMN000	White Ice, Stainless	22	24.6" x 14" x 16.1"	72	2.5A 115V60Hz
ISO 5W08L14IMN000	White Ice, Stainless	17.6	18.7" x 14" x 24"	72	2.5A 115V60Hz

Lev-O-Gage Fridge Thermometer



- Refrigerator/freezer thermometer
- Mounts on inside wall or stands up on solid shelf
- Easy to install with special adhesive tape
- 2" High

LEV 505

Vitrifrigo Portable Fridge/Freezer



- High efficiency Secop/Danfoss compressor
- Refrigerator or freezer operation +10 to -22C°
- Heavy duty dual opening/detachable lid
- Bright digital control panel
- LED interior lighting
- Removable basket
- USB charging port
- 12/24VDC - 100-240VAC 50/60Hz
- 2.81A @ 115V

VIT VF35P 35L, W: 16.13" x H: 17.31" x D: 26.75", 43 lb

VIT VF45P **** 45L, W: 16.13" X H: 19.31" X D: 26.75", 45.2 lb

*** While Stock Lasts

U-Line
Crescent Cube Ice Maker



- Produces up to 23 lbs of ice per day
- Stores 12 lbs of ice
- On/Off switch
- No drain required
- Manual defrost
- Door swing is field reversible
- White interior with stainless steel handle
- Designed to be built-in or can be freestanding
- Start Amps: 18A
- Running Amps: 2.5A
- Dimensions: W: 13-13/16" x D: 17-13/16" x H: 24-1/4"
- Cutout: W: 14-3/16" x D: 18-1/2" min x H: 25-1/16"
- No additional clearance is needed for ventilation

ULI UMCR014-BC01A 60 lbs, 115V

isotherm
Marine Refrigeration

Clean Touch Stainless Steel Line
- Resists stains and scratches with a high tech coating that remains clean to the touch
- Superior protection from stains, salt, sun, and UV
- Thicker, insulated door design for superior performance and increased energy efficiency
- New larger, easy-to-use handles

CRUISE SERIES
- Stainless steel design
- Flush mount frames are standard
- Fan-cooled 12/24V Danfoss / SECOP compressor
- One piece inner lining of food-quality, high density plastic with rounded corners for easy cleaning
- Constructed of corrosion resistant materials
- Innovative door handle prevents accidental door opening
- Mounting frames for an easy and neat installation
- Magnetic rubber seals keeps door firmly closed
- Right hand or left hand side opening possible
- Universal kit AC/DC power supply

Isotherm CRUISE 36 Fridge



A built-in drawer fridge, that due to its compact dimensions, can be installed where no other fridge might fit. The compressor can be removed up to 1.20 meters away.
- Volume: 36 litres
- Comes with four-side flush mounting frame

ISO 1036BA7EK0012

Isotherm Clean Touch Line CRUISE 49 Fridge/Freezer



- Volume: 49 liters
- 4 litre freezer compartment
- Interior light

ISO C049RNGIT71113AA

Isotherm Clean Touch Line CRUISE 85 Fridge/Freezer



- Volume: 85 litres
- 6 litre freezer compartment
- Two adjustable shelves
- Corner mounted fan-cooled compressor
- Interior light

ISO C085RNGIT71113AA

Isotherm Clean Touch Line CRUISE 130 Fridge/Freezer



- Volume: 130 litres
- 6 litre freezer compartment
- 3 adjustable shelves
- Vegetable bin
- Interior light

ISO C130RNGIT71113AA

Isotherm CRUISE 195 Fridge/Freezer



- Volume: 195 litres (fridge: 130 litres, freezer: 65 litres)
- Two fan-cooled compressors with separate thermostats
- Two door fridge-freezer solution
- Interior light

ISO 1195BB7MK0000

Isotherm CRUISE 200 Fridge/Freezer



- Volume: 200 litres (fridge: 150 litres, freezer: 50 litres)
- Two door fridge-freezer solution
- Easy installation under work surface
- Interior light

ISO 1200BB4YK0000


36


49


85


130


195


200

Part #	Model	Volume Cu Ft (ltr)	Freezer Cu Ft (ltr)	LED Light	Power Amps/24H*	Compressor Type	Cut-Out H x W x D in.	Weight lbs
ISO 1036BA7EK0012	CRUISE 36	1.3 (36)	N/A	No	25@12V	BD35F	9.8 x 17.4 x 21.7	40
ISO C049RNGIT71113AA	CRUISE CT49	1.75 (49)	.14 (4)	Yes	22.1@12V	BD35F	20.7 x 15.75 x 19.7	40
ISO C085RNGIT71113AA	CRUISE CT85	3.0 (85)	.21 (6)	Yes	30.7@12V	BD35F	24.7 x 19.5 x 21.7	53
ISO C130RNGIT71113AA	CRUISE CT130	4.6 (130)	.21 (6)	Yes	36.7@12V	BD35F	29.7 x 21.5 x 21.9	64
ISO 1195BB7MK0000	CRUISE 195	4.6 (130)	2.3 (65)	Yes	70@12V	2 x BD35F	52.9 x 21.4 x 22	98
ISO 1200BB4YK0000	CRUISE 200	5.2 (150)	1.8 (50)	Yes	66.7@12V	BD50F	34.7 x 28.8 x 24.1	84

Power consumption A/24 h in operation on 12V with +5°C in the refrigeration space, ambient temperature +25°C according to the Standards ISO 15502:2005 and EN 153:2006

CLEAN TOUCH DRAWER SERIES

- Improved cooling performace and reduced power consumption due to the new BD 1.4F VSD SECOP variable speed micro compressor
- AISI 304 Clean Touch stainless steel door panels
- New electronic thermostat modulates the temperature, operates as an internal LED light, and flashes error codes for diagnostics
- Integrated Smart function to overcool when surplus of energy is available (battery in charging mode)
- Larger evaporator plate allows for more freezer usability
- BLUM rail slides brace the drawer on the sides and underneath
- *Note: Structural body of the units are now entirely square on the back of the units (no lower notch on the bottom)*







Isotherm Clean Touch Drawer 49 & 65

ISO D049DNNIT41113AA 49
ISO D065DNNIT41113AA 65

DRAWER SERIES

- Stainless steel design
- Easy user-friendly access
- Freezer compartment
- Robust drawer mechanism
- Off-shore lock for perfect closure at any time
- Internal blue LED light
- Flush mount stainless flanges with built-in ventilation
- Universal kit AC/DC power supply

Isotherm Drawer 85 Fridge/Freezer



- Includes a mid-level internal drawer which allows for maximum storage vertically
- 3-bottle wine foldaway wine caddy

ISO D085DNGIA71113AA *

Isotherm Drawer 55 Freezer - Frost Free



- Frost-free technology
- Internal fan for temperature control

ISO 3055BH4C00000

Isotherm Drawer 130 Fridge/Freezer



- A bottle rack and patented modular shelf are provided on the main counter door
- Two inner drawers ensure the maximum usability as well as great storage, with the top one as freezer compartment

ISO D130DNGIA71113AA

Isotherm Drawer 160 Fridge/Freezer



- Double-drawer setup with one drawer as a fridge and one drawer as a freezer
- Mechanical thermostat

ISO 3160BB3C00017

Isotherm Drawer 160 Fridge/Freezer/Icemaker Combo

The upper drawer of this model consists of a refrigeration compartment with a 90 litre volume while the lower one combines a 65 litre freezer and ice maker with a 6 litre ice case.



- Mechanical thermostat
- Proud mount; extends past counter
- Frost free
- AC ONLY

ISO 3160BB6C00025

Isotherm Parts & Accessories

ISO SBG00005BA	Fan, low speed, 12V for most Cruise and air-cooled Compact Classic compressors, 4-3/4" x 4-3/4"
ISO SDF00007AA	Set of 2 clips for Cruise evaporator freezer door
ISO SGD00012AA	S/S replacement door latch, fits all S/S and Drawer models, except Elegance - 2004/2005 models may not have screws to remove door latch, if not, entire door must be replaced


49


55


65


85


130


160


160 Combo

Part #	Model	Volume Cu Ft (ltr)	Freezer Cu Ft (ltr)	Power Amps/24H*	Cut-Out H x W x D in.	Weight lbs
ISO D049DNNIT41113AA	CT Drawer 49	1.75 (49)	Yes	25.4@12V	20.5 x 15.75 x 19.31	59
ISO 3055BH4C00000	Drawer 55	All freezer 1.9 (55)		50@12V	20.31 x 18.43 x 21.68	66
ISO D065DNNIT41113AA	CT Drawer 65	2.3 (65)	Yes	27@12V	20.75 x 18.43 x 21.18	66
ISO D085DNGIA71113AA *	Drawer 85	3.0 (84)	Yes	30.8@12V	24.6 x 19.5 x 21.2	72
ISO D130DNGIA71113AA	Drawer 130	4.6 (130)	Yes	35.8@12V	29.3 x 21.4 x 21.3	77
ISO 3160BB3C00017	Drawer 160	5.5 (155)	Yes	91.7@12V	34 x 24.6 x 23.1	99
ISO 3160BB6C00025	Drawer 160 Combo F/F	5.5 (155)	Yes	91.7@12V	34 x 24.1 x 21.2	104

* Special Order

Smart Faucet Features:
Self-cleaning feature activates every 12 hours
UV-LEDs stay on for an additional 5 seconds after activation
Activates the moment you turn on the faucet
Ring glows blue when the unit is activated



Acuva ArrowMAX Explore 2 Water Purification System

- Compact, all-in-one, UVC LED water purification system designed for marine and RV use
- Safe, great tasting drinking water direct from your water supply
- UVC LED and 1 micron active carbon filter provide reliable protection against bacteria, viruses, bad taste or odours, and unwanted contaminants without the need for chemicals or frequent maintenance
- On demand activation conserves energy by operating only when water is flowing
- Robust polycarbonate housing and stainless steel disinfection unit with simple 1/4" OD push-to-connect fittings
- Integrated voltage surge protection
- Runs on either AC (with adaptor) or DC power, and can purify up to 120,000 litres in its lifetime
- Flow rate: 2 l/min (approx. 10 seconds for 1 cup of water)
- Power consumption: 9W active, 0.1W standby
- With or without Smart Faucet

ACU 600-1464-66 with Smart Faucet
ACU 600-1464-63 without Smart Faucet

Acuva Solo Nautic II Water Purification System

NEW





- Cutting edge UVC LED technology and 25 micron activated carbon filter provide safe, great tasting drinking water without use of toxic chemicals
- Robust design ensures durability even in rough seas by eliminating glass tubes and lamp glass
- UVC LEDs are mercury free, and offer instant illumination without warm-up for immediate water treatment
- Reflective chamber technology
- 1/2" MBSP connection
- Flow rate: 10 l/min
- 12V, 24W
- Includes activated carbon filter cartridge, hose, clamp, connectors, and bracket

ACU WS-40-3140

NEW





Acuva ArrowMAX Home 10K Water Purification System

- The Acuva ArrowMAX Home 10K is a whole-house UVC LED water disinfection system designed for reliable performance and effortless maintenance
- Provides effective disinfection, long-term reliability, and effortless maintenance
- Integrated Bluetooth and WiFi connectivity, enable seamless data transfer to mobile app, providing real-time insights into performance, water flow, and power usage
- System operates only when water flows, maximizing energy efficiency and significantly extending lifespan
- 3/4" FNPT/MNPT connections
- 10,000 active hour lifespan
- Flow rate: 40 l/min (maximum 60 l/min)
- 22.83" x 4.72"



ACU 600-3354-01

Forespar PureWater+ All-In-One Clean Water Kit



- Ideal for space-saving use on-board boats
- Easy to install and maintain
- Filter changes in less the 20 seconds
- Includes 5 mic filter
- Does not require under-counter access for filter change
- Attractive solid brass chrome faucet
- Filter cartridge life up to 350 gallons

FRS 770295	All-In-One complete kit
FRS 770297-1	5 mic replacement filter, each
FRS 770297-2	5 mic replacement filters, (2/pkg)
FRS 770298-1	0.5 mic enhanced filter, each
FRS 770298-2	0.5 mic enhanced filters, (2pkg)

Land and Sea Water Purification



Complete compact system to make any fresh water holding tank clean & safe for drinking at point of use or under sink installations

- 316 stainless steel ultraviolet purification unit rated at 1.5 gpm
- 5 micron carbon block pre-filtration and housing to eliminate taste/odour & sediment to 5 microns
- Mounting brackets and hardware
- Filter housing wrench
- Point of use dispensing faucet in stainless steel
- Spare 5 micron carbon block filter (changed every 6 months)
- Installation kit with stainless steel braided tubing and brass compression fittings

LSU LSS-12 *	12VDC
LSU LSS-24 *	24VDC
LSU LSS-120 *	120VAC

* Special Order

Village Marine Desalinator Parts

Little Wonder Spares & Consumables

Part No.	Description
VIL 85-0050	Pump Oil, Quart (LW/SPW/PW/STW)
VIL 33-0117	5-MIC 10 S.F. Filter (STW/SPW/LW)
VIL 33-0118	20-MIC 10 SF Filter
VIL 33-0311	Carbon Fresh H2O flush cartridge (SPW/STW/LW)
VIL 35-0030	Plankton filter
VIL 90-0005	Filter O-Ring
VIL 32-2116	O-Ring
VIL 32-2228	O-Ring, 2-1/2" end plug
VIL 90-2512	O-Ring kit (2.5" models)
VIL 85-0102	Cleaning filter Kit (#1 & #2) (STW/LW/SPW)
VIL 85-0103	Preservation filter Kit (2 filters) (STW/LW/SPW)
VIL 20-4096	Salinity probe, SPW-PW series
VIL 90-0135	PH Strip test kit (all units)

► *Note*

All desalinators are ordered as request items. Please call for additional information, availability and ordering.

Squirt & Stowaway Spares & Consumables

Part No.	Description
VIL 85-0050	Pump Oil, Quart (LW/SPW/PW/STW)
VIL 33-0117	5-MIC 10 S.F. Filter (STW/SPW/LW)
VIL 33-0118	20-MIC 10 S.F. Filter (STW/SPW/LW)
VIL 33-0311	Carbon Fresh H2O flush cartridge (SPW/STW/LW)
VIL 90-0005	Filter O-Ring
VIL 32-2116	O-Ring
VIL 32-2228	O-Ring, 2-1/2" end plug
VIL 85-0102	Cleaning filter Kit (#1 & #2) (STW/LW/SPW)
VIL 85-0103	Preservation filter Kit (2 filters) (STW/LW/SPW)
VIL 85-0036	#1 chemical cleaner 600-gram
VIL 85-0037	#2 descaler 600-gram
VIL 85-0038	#3 preservative 600-gram
VIL 90-1783	Autoflush 110 volt
VIL 33-0005	5-mic 30 SF 8.625"x7.75"filter, metal housing - PW series
VIL 33-0020	20-mic 30 SF 8.625"x7.75"filter, metal housing - PW series
VIL 33-0053	20-mic 15 SF filter cartridge - PW series
VIL 20-2449	Motor Mounts

ENO Hydra 2-Burner Gas Cooktop

Features include, polished stainless steel finish, thermocouple protection and electronic spark ignition.

With a low profile, compact design this 2 burner cooktop has both a 8500 BTU Rapid burner and a 6000 BTU Semi-Rapid burner.

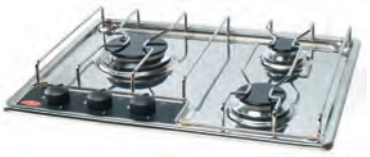
ENO F43234



ENO Kos 3-Burner Gas Cooktop

This 3-burner cooktop has a low profile design and provides a large cooking surface. With three different burner outputs; 8500 BTU Rapid burner, 6000 & 3400 BTU Semi-Rapid burners, this unit offers maximum cooking control and flexibility.

ENO 433340015301



ENO Duo 2-Burner Gimbal Gas Cooktop

A compact high performance gimbaled unit ideal for small sailing vessels and offshore craft. This unit features both an 8500 BTU Rapid burner and a 6000 BTU Semi-Rapid burner. Gimbal kit and (1) pot holder set is included standard.

ENO F062391 *

* Special Order



Part #		Cutout W x D x H	W x D x H	Weight lbs
ENO F43234	Hydra 2 Burner	17-3/4" x 12-5/8" x 1-1/2"	18-3/8" x 13-1/8" x 4"	9
ENO 433340015301	Kos 3 Burner	17-3/4" x 14-5/8" x 1-1/2"	18-3/8" x 15-1/8" x 4"	11
ENO F062391 *	ENO 2 Burner	-	19-5/8" x 13-1/2" x 9-34"	11

Accessories:

Brass adaptor connects the left-hand threaded male G1/4 threaded fitting on your European stove - for example an Eno stove - to a 3/8" male SAE flare for a North American propane hose.



ENO RGA8548



ENO Open Sea 2-Burner Marine Stove

After over 20 years of dedicated and loyal service on all of the world's oceans, the famous Open Sea has been entirely reviewed and modernized with a new design and perceptible weight-gain, and increased safety thanks to the addition of a rear flame guard and the re-centering of the fast burner. The Open Sea cooker comes with or without grill, and the ignition is available in both cases.

- Stainless steel with black enamel finish
- Gimbal mount included
- Safety device: Thermocouple
- Pan holders: 2 sets
- 24 litre oven capacity
- Output: 6000 and 8500 BTU's
- Overall dimensions: H: 19.1" x W: 20.1" x D: 17.3"
- Cutout: H: 20.6" x W: 20.9" x D: 21.6"
- Electronic ignition: 12VDC
- Weight: 55.25 lbs

ENO 14234

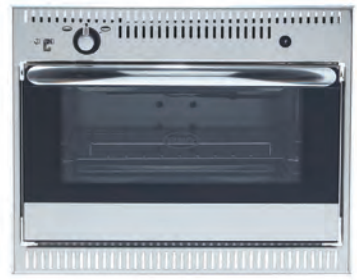


ENO Gascogne Three Burner Marine Stove

Already a great favorite thanks to its design and user-friendliness, the Le Gascogne stands out in Eno's compact cooker range with even greater quality and finish. Built-in chrome knobs, deep-drawn side panels, weight-gain and 3-sided flame guard.

- Stainless steel with black enamel finish
- Gimbal mount included
- Output: 3400, 6000 and 8500 BTU's
- Overall dimensions: H: 19.1" x W: 20.1" x D: 17.3"
- Cutout: H: 20.6" x W: 20.9" x D: 21.6"
- Electronic ignition: 12VDC
- Weight: 57.75 lbs

ENO 18634



ENO Perigord Gas Wall Oven and Grill

The Eno Perigord Wall Oven and Grill has a stainless steel fascia plate and high resistant enameled inner oven allowing for easy cooking. It is fitted with a timer and door locking system. The Perigord Wall Oven features thermocouple gas shutoff for an extra measure of safety and an electronic ignition for easy lighting.

- Broiler burner output: 4400 BTU
- Oven burner output: 5100 BTU
- Oven capacity: 19L
- Overall dimensions: H: 21.5" x W: 17.6" x D: 17.2"
- Cutout: H: 16.4" x W: 20.5" x D: 17.7"
- Electronic ignition: 12VDC
- Weight: 43.65 lbs

ENO 87437 *

* Special Order



Force 10 Electric Stove Tops

Ceramic glass electric cooktop features powerful 1200 watt burners and are equipped with a hot surface indicator light and over heat shut off for safety.

Part #	FOR F75121 *	FOR F75221	FOR F75224 *	FOR F75321
Model	Tobago	Grenade		Trinidad
Volts	120	120	240	120
Breaker	10A	20A	15A	30A
Burners	1 x 1200W	2 x 1200W		3 x 1200W
W x H x D	12" x 4" x 12"	21" x 4" x 12"		21" x 4" x 18"
Weight	8 lbs	12 lbs	16 lbs	20 lbs

* Special Order - may have stock

Force 10 Trim Kits

For installations that don't require gimbaling, trim kits are available for built-in applications. The trim is constructed of polished 304 stainless steel and provides a sleek finished look and a solid mounting platform. The trim kit attaches easily and securely to pre-existing mounting hardware on the Range. Trim Kits are available for all standard height units.

FOR F70034 For use with model # 63351, 63356, 63451
FOR F70002 For use with model # 63251, 63256

Force 10 2-Burner Gimballed Gas Ranges

The 2-Burner Gimbal Galley Ranges feature 304 stainless steel construction, thermocouple protection on all burners a thermostatically controlled oven with a broiler, electronic spark ignition and a slide away oven door with viewing window. Includes one Rapid (9500 BTU) top burner and one Auxillary (2750 BTU) simmer burner.

Part #		Width	Height	Depth	Weight lbs	Oven Volume
FOR F63251	American Standard	21-5/8"	21-1/2"	17-1/2"	70	25 Litre
FOR F63253 *	American Compact	21-5/8"	19-1/4"	17-1/2"	66	19 Litre
FOR F63256 *	Euro Standard	20"	21-1/2"	17-1/2"	66	23 Litre
FOR F63258	Euro Compact	20"	19-1/4"	17-1/2"	63	17 Litre
FOR F63254 *	Euro Sub-Compact	18-1/8"	19-1/4"	17-1/2"	60	14 Litre

* Special Order



(Width includes the gimbal knobs on each side. Depth does not include the gas connection on the back)

Force 10 3-Burner Gimballed Gas Ranges

The 3-Burner Gimbal Galley Ranges feature stainless steel construction, thermocouple protection on all burners a thermostatically controlled oven with a broiler, electronic spark ignition and a slide away oven door with viewing window. Includes one Rapid (9500 BTU) top burner and two Auxillary (2750 BTU) simmer burners.

Part #		Width	Height	Depth	Weight lbs	Oven Volume
FOR F63351	American Standard	21-5/8"	21-1/2"	22"	81	30 Litre
FOR F63353 *	American Compact	21-5/8"	19-1/4"	22"	78	19 Litre
FOR F63356	Euro Standard	20"	21-1/2"	22"	78	26 Litre
FOR F63358 *	Euro Compact	20"	19-1/4"	22"	71	17 Litre
FOR F63354 *	Euro Sub-Compact	20"	17-3/4"	20-3/4"	67	13 Litre

* Special Order



(Width includes the gimbal knobs on each side. Depth does not include the gas connection on the back)



Force 10 3-Burner Gimballed Electric Ranges

The 3 burner ceramic glass top range features (3) 6.5", 1200 watt top burners, and a thermostatically controlled oven and broiler. Features include a slide away door for maintaining gimbal, an oven light and a hot surface indicator light for safety.

Part #	FOR F65335 *	FOR F65336 *
Volts	120	240
Breaker	40 A	20 A
Burner Output	1200 watts	1200 watts
Oven Output	1300 watts	1300 watts
Broiler Output	1300 watts	1300 watts
W x H x D	20" x 21-3/4" x 20"	20" x 21-3/4 x 20"
Weight lbs	78 lbs	78 lbs
Oven Volume	25 litres	25 litres

* Special Order



Force 10 4-Burner Gimballed Gas Range

Features stainless steel construction, thermocouple protection on all burners a thermostatically controlled oven with a broiler, electronic spark ignition and a slide away oven door with viewing window.

- Large burner output: (1) @ 9500 BTU
- Small burner output: (3) @ 2750 BTU
- Oven burner output: 5100 BTU
- Broiler output: 5500 BTU
- Oven volume: 30 litres
- Electrical Requirement: 1.5VDC (AA battery)
- W: 21-5/8" x H: 21-1/2" x 22" (Width includes the gimbal knobs on each side. Depth does not include the gas connection on the back)
- Weight: 81 lbs

FOR F63451 *

* Special Order



Force 10 Professional 5-Burner Gimballed Gas Range

The 5-Burner Professional Series Range features stainless steel construction, thermocouple protection on all burners a large thermostatically controlled oven with a broiler, electronic spark ignition and a slide away oven door. This model can be installed gimbaled or built-in.

- Large burner output: (3) @ 9500 BTU
- Small burner output: (2) @ 2750 BTU
- Oven burner output: 6370 BTU
- Broiler output: 6800 BTU
- Oven volume: 36 litres
- Electrical Requirement: 1.5VDC (AA battery)
- W: 25" x H: 22-3/4" x 22-3/8"
- Weight: 81 lbs

FOR F62551 *

* Special Order

Propane Range Common Features

- Removable cutting board included
- 100% Stainless Steel
- No electrical connections needed
- Thermostatically controlled oven, complete with broiler
- Burner Safety Flame-out
- One set of pot holders
- Anti-vibration cooking rack



Dickinson Mediterranean 3-Burner Propane Range

3 Burner propane stove, is the perfect cooking unit for your galley area. With 3 powerful burners, and a 35L oven complete with broiler, you can enjoy cooking to perfection, on the open seas.

- Dimensions: W: 20.375" x D: 20.25" x H: 21.75"
- Burner Output: Large - 11,000 BTU
- 2ea - 7,000 BTU
- Broiler - 7,000 BTU
- Useable Oven Size: 17" x 12.5" x 8"
- Gimballed or Built-In installation option available

DIC 00-MED3B

Parts:

DIC 26-003	Gimbal mount kit
DIC 26-001	Built-in kit



Dickinson Caribbean 2-Burner Propane Range

2 Burner propane stove, is the perfect cooking unit for your galley area. With 2 burners, and a 35L oven complete with broiler, you can enjoy cooking to perfection, on the open seas.

- Dimensions: W: 20.375" x D: 14. 75" x H: 21.75"
- Burner Output: Large- 11,000 BTU
- Small - 7,000 BTU
- Broiler - 7,000 BTU
- Useable Oven Size: 17" x 12.5" x 8"
- Gimballed or Built-In installation option available

DIC 00-CAR2B

Parts:

DIC 26-003	Gimbal mount kit
DIC 26-000 *	Built-in mount kit

* Special Order

Dickinson Atlantic Diesel Stoves



- Large model equipped with a bigger natural draft diesel burner
- Cooking capacity for crews of 6 - 8
- For boats 45 - 60 ft
- 12 volt assist fan

DIC 00-ATL *	Standard
DIC 00-ATL-12-1T *	With one turn hot water coil
DIC 00-ATL-12-2T *	With two turn hot water coil

* Special Order

Oven Size W: 16" x D: 12-1/2" x H: 12"	Overall W: 30.5" x D: 23" x H: 28.75"
Flue Size	5" / 12.7 cm
Material	S/S cast-iron cooking top
Fuel	Diesel, Stove Oil or Kerosene
Heat Output	BTU Low 8125 / High 24375
Burner	7" 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Hot Water Coil	Optional (1 or 2 turn)
Weight	189 lbs

Dickinson Bristol Diesel Stoves



- Small model for boats up to 36 ft
- Oven accommodates a 9" x 9" baking dish
- Designed primarily for a fore and aft mount (facing port/starboard)
- 12 volt assist fan

DIC 00-BRI * Standard
DIC 00-BRI-12-1T * With one turn hot water coil
* Special Order

Oven Size W: 9" x D: 11-1/2" x H: 8-1/2"	Overall W: 21" x D: 18.25" x H: 19.25"
Flue Size	4" / 10.16 cm
Material	Stainless steel/cast-iron cooking top
Fuel	Diesel (stove oil / kerosene optional)
Heat Output	Low 6500 BTU, High 16250 BTU
Burner	6" / 15.2 cm 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Hot Water Coil	Optional (1 turn)
Weight	85 lbs

Dickinson Bering Diesel Stoves



- Utility model for boats 36 ft - 40 ft
- Single stainless steel wall
- Chimney outlet exits from the right side of the cast-iron top
- Cooking surface and oven size is similar to the Pacific though the stove is longer and narrower
- 12 volt assist fan

DIC 00-BER * Standard
DIC 00-BER-12-1T * With one turn hot water coil
* Special Order

Oven Size W: 10-1/2" x D: 13" x H: 10-1/2"	Overall W: 23.25" x D: 16.25" x H: 23.5"
Flue Size	5"
Material	Stainless steel cast-iron cooking top
Fuel	Diesel (Stove oil / kerosene optional)
Heat Output	Low 6500 BTU, High 16250 BTU
Burner	6" / 15.2 cm 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Hot Water Coil	Optional (1 or 2 turn)
Weight	93 lbs

Dickinson Pacific Diesel Stoves



- Popular for boats 36 ft - 42 ft
- Features a double, insulated stainless steel outer surface
- 22" maximum top width makes it the most suitable size for most galley range cutouts
- 12 volt assist fan

DIC 00-PAC Standard
DIC 00-PAC-12-1T * With one turn hot water coil
DIC 00-PAC-12-2T * With two turn hot water coil
* Special Order

Oven Size W: 10-1/2" x D: 13" x H: 10-1/2	Overall W: 21.75" x D: 21.5" x H: 23.5"
Flue Size	5" / 12.7 cm
Material	Stainless steel/cast-iron cooking top
Fuel	Diesel (stove oil / kerosene optional)
Heat Output	Low 6500 BTU, High 16250 BTU
Burner	6" / 15.2 cm 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Hot Water Coil	Optional (1 or 2 turn)
Weight	126 lbs

Dickinson Adriatic Diesel Stoves



- For medium & larger vessels
- Similar in appearance to the Pacific
- For boats 40' to 50'
- A larger cooking surface and a wider oven
- 12 volt assist fan

DIC 00-ADR Standard
DIC 00-ADR-12-1T * With one turn hot water coil
DIC 00-ADR-12-2T * With two turn hot water coil
* Special Order

Oven Size W: 15" x D: 13" x H: 10-1/2"	Overall W: 26.25" x D: 21.5" x H: 23.5"
Flue Size	5" / 12.7 cm
Material	Stainless steel cast-iron cooking top
Fuel	Diesel (Stove oil or kerosene optional)
Heat Output	Low 6500 BTU, High 16250 BTU
Burner	6" / 15.2 cm 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Hot Water Coil	Optional (1 or 2 turn)
Weight	135 lbs

Dickinson 2-Burner Drop-In Propane Stove



- Stainless steel construction
- 11,000 and 7,000 BTU burners
- CGA/AGA Safety gas valve and safe push and turn electronic ignition
- Easily installed with under counter brackets and is a shallow 4.75 inches in depth
- Comes with pot holders and cutting board
- Cutout: H: 5.5" x D: 12.5" x W: 21.5"
- Overall: H: 4.75 x D: 14" x W: 23"

DIC 00-2BP

Sea-Dog Stove Top Toaster



- Stamped 304 stainless
- 5-1/8" x 5-3/8" x 4-7/16"

SED 590400-1

Dickinson Fuel Filter



- Fuel filter and water trap
- Comes with manual shut off
- Ports are 1/4" female NPT
- Length Overall: 5-1/4" Width: 2-1/2"

****Not for use with gas****

DIC 20-010 Filter

Parts:

DIC 20-020 Filter element

Dickinson Accessories and Parts

DIC 01-999H	12V Boxer fan with housing for diesel stoves
DIC 02-000	#3 D/0 metering valve
DIC 02-004 *	#3 S/0 metering valve
DIC 02-060	Hi-temp valve solder fuse & screw for top of knob
DIC 03-040	6" S/S burner ring
DIC 03-060	6" tall superheater
DIC 04-050	7" S/S burner ring
DIC 04-060	7" cast iron leg ring
DIC 04-070	7" cast iron split ring
DIC 05-020	Isoline cement, 5lb box
DIC 05-050	Mica window
DIC 07-000	6-3/4" x 10" cast iron lid
DIC 08-000	5" aluminum flue collar
DIC 08-010 *	Old style 5" aluminum flue collar
DIC 08-020 *	4" S/S flue collar
DIC 08-031	3" S/S flue collar
DIC 11-000	S/S pot holders
DIC 14-000	Lid lifter

* Special Order - may have stock

► *Also See* Dickinson Diesel Heaters pg 05-043 - 044

Dickinson Stove Pipe and Elbow



- Stainless steel construction

DIC 16-000	3" x 22" stove pipe
DIC 17-000	4" x 22" stove pipe
DIC 18-000	5" x 22" stove pipe
DIC 16-040	3" x 45° elbow
DIC 18-040	5" x 45° elbow

Dickinson Dress Rings, Flue Caps and Accessories

- Handsome electro-polished stainless steel
- Excellent weather proofing and draft characteristics

Part #	Size	Style
DIC 16-090	3"	H-Cap
DIC 17-090	4"	H-Cap
DIC 18-090	5"	H-Cap
DIC 16-080	3"	DP flue cap
DIC 17-080	4"	DP flue cap
DIC 18-080	5"	DP flue cap
DIC 16-070	3"	Dress ring
DIC 17-070	4"	Dress ring







Dickinson Barometric Flue Dampers



- Stainless steel construction
- Stabilize inconsistent draft conditions

DIC 16-010	3" pipe, 7-1/4"
DIC 17-010	4" pipe, 8-3/4"
DIC 18-010	5" pipe, 10"

Dickinson Flue Guards



- Brushed stainless steel guard
- Protection from hot stove pipes
- Complete with mounting clamps
- 22" long

DIC 16-030	For 3" stove pipe
DIC 17-030 *	For 4" stove pipe
DIC 18-030	For 5" stove pipe

* Special Order

Dickinson Deck Fittings



- Stainless steel deck fitting kits
- Complete with the deck fitting, dress ring, heavy rubber gasket and fasteners

DIC 16-050	3"
DIC 17-050	4"
DIC 18-050	5"

Magma offers the largest selection of mounting options and accessories to customize your grill to your boat.

Features:

Dynamic combustion system stays lit in breezy conditions
Electronic ignition, lights first time every time
Easy-to-read all S/S hermetically sealed thermometer
Perfectly balanced lockable lid
Full size, double lined lower safety shell
Sectional grill grates
Convenient snap-out dual radiant plate
Full-length handle
Fold-Away legs
Front access, lock-in-place grease tray
Swivelling control valve/regulator
All Magma Gas Grills use standard disposable 1-lb. propane canisters or adapt to on-board LPG (propane) or CNG (natural gas) systems

NEW

Magma Anacapa



- Mirror polished, marine grade 304 stainless steel
- Built-in push button igniter and integrated thermometer
- Grilling area: 162 sq. in.
  Primary: 9" x 18"

MGP A10-918-3-CSA

Shown with optional mount & serving shelf (sold separately)

A10-1218-2GS-CSA



Magma Catalina Series II

- 18-8 mirror polished, marine grade stainless steel
- 12" x 18" cooking grill
- Large upper grill, for slow grilling or for warming food such as vegetables or bread
- Grilling area: 315 sq. in.
  Primary: 12" x 18"
  Secondary: 5-1/2" x 18"

MGP A10-1218-2-CSA Classic
MGP A10-1218-2GS-CSA Infrared

Features:

18-8 mirror polished, marine grade stainless steel
Fold-away legs
Perfectly balanced lockable lid
Convenient snap-out radiant plate
Turbo burner design
Sectional grill grates
Swivelling control valve/regulator
All Magma Gas Grills use standard disposable 1-lb. propane canisters or adapt to on-board LPG (propane) or CNG (natural gas) systems

Shown with optional mount & serving shelf (sold separately)



Magma ChefsMate

- Front access, lock-in-place grease tray
- Inner safety shell
- Grilling area: 162 sq. in.
  Primary: 9" x 18"

MGP A10-803-CSA



Magma TrailMate

- Front access, lock-in-place grease tray
- Inner safety shell
- Grilling area: 108 sq. in.
  Primary: 9" x 12"

MGP A10-801-CSA

Shown with optional mount & serving shelf (sold separately)



Magma Cabo

- Heat resistant all weather plastic handle with air cooled supports
- Locking grease tray accessible from either side
- Grilling area: 162 sq. in.
  Primary: 9" x 18"

MGP A10-703-CSA

The Magma *Infra-Red* Advantage



Magma Rectangular Grill Mounts

Magma offers the largest selection of mounting options and accessories to customize your grill to your boat.

Magma Vertical "LeveLock" Round Rail Mount



- Standard duty mounts are designed for use while anchored or moored
- Although strong and versatile they should be stowed while underway
- Fits round rails 7/8" or 1"

MGP T10-780

Magma LeveLock Rod Holder Mount



- Highly adjustable mount
- Strong, corrosion resistant, and versatile

NOTE: The "New Style" LeveLock, T10-355 is compatible with both the Bait/Filet Mate Tables and the new Tournament Series Cleaning Stations

HD

MGP T10-355

Magma Socket/LeveLock Mount



- LeveLock all angle adjustable locking mount
- Push button locking pin
- Flange gasket with integral flip-up water seal cap
- Some fasteners required for installation

MGP T10-327

Magma Locking Extension Set



- Provides 6" of additional height
- 304 stainless steel tubing
- Secures your grill or table in place while allowing for quick convenient disassembly and storage
- Designed for use with any Magma "Dual Mount" locking socket mount assembly

HD

MGP T10-513

Magma Flush Deck Socket Mount



- Push button lock pin and includes a flange gasket with integral flip-up water seal cap
- Some fasteners required for complete installation

MGP T10-326

Magma Dual Flush Deck Socket Mount



- Push button lock pin to allow use while underway
- Includes a flange gasket with integral flip-up water seal cap
- Some fasteners required for complete installation

HD

MGP T10-526

HD **Heavy Duty** - Designed specifically for grilling underway

Magma Pow'rGrip/LeveLock Rod Holder Mount



Mount adjusts and locks in place at both ends by joining the "LeveLock" adjustable fish rod holder mount, with the "Pow'rGrip" adjustable fish rod holder mount. This allows the "Pow'rGrip" portion of the mount to adjust to any size rod holder and lock in place, while the "LeveLock" portion of the mount, adjusts and locks your Magma rectangular grill.

HD

MGP T10-375

Magma Round Rail Mounts



- Extremely strong and features 2-way adjustment for horizontal levelling
- Quickly detaches without tools
- Leaves no hardware on the rail

MGP T10-380	7/8" or 1" round rail
MGP T10-385	1-1/8" or 1-1/4" round rail
MGP T10-390	1-1/2" round rail

Magma Dual Rail Mounts



- Incredibly strong and rigid, will not slip on the rail
- A unique pivoting design which allows them to attach to curved rails or across the corner of a stern rail

HD

MGP T10-580	7/8" or 1" round rail
MGP T10-585	1-1/8" or 1-1/4" round rail

Magma Dual Extended Rail Mounts



- Allows mounting of Gourmet Series Grills out over the water
- The quick-disconnect system allows quick disassembly leaving no hardware on the rail

HD

MGP T10-680	1" round rail
MGP T10-685	1-1/4" round rail

Magma Dual Bulkhead or Rail Mount

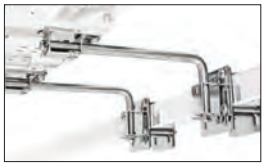


- Attaches to any vertical flat surface such as bulkheads, hulls, transoms or cabin sides
- Horizontal rails up to 2-1/4" high by any depth
- Vertical rails up to 1- 5/8" wide by any depth
- Some fasteners required for installation

HD

MGP T10-540 Bulkhead, square or flat rail

Magma Dual Extended Square Rail Mount

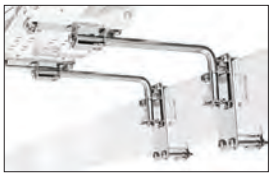


- Attaches to square or flat rails
- Can also attach to any flat vertical surface such as bulkheads, gunnels, transoms, or cabin sides
- Some fasteners required for complete installation

HD

MGP T10-640 Rails up to 2-1/4" high

Magma Dual Extended Square Rail Mount



- Attaches to square or flat rails
- Can also attach to any flat vertical surface such as bulkheads, gunnels, transoms, or cabin sides
- Some fasteners required for complete installation

MGP T10-641 Rails up to 4-1/8" high

Magma Pedestal Mount



- There is no need to cut a hole in your deck
- Durable anodized aluminum with a brushed satin finish
- Pedestal locks into the mounting base and the grill or table locks to the pedestal
- Grill or table is instantly removable from the pedestal with a simple push-button release
- Pedestal also is instantly removable from the mounting base with a push-bottom release that allows the pedestal to be unthreaded and removed for storage
- The low-profile, threaded twist-lock surface mount base measure just 5/8" tall and 7' in diameter with a 5-3/4" bolt pattern
- Made of durable anodized aluminum with a brushed satin finish
- Height: 28"

MGP T10-185

Magma Pedestal Adapter



This simple but very effective adapter allows you to mount your Magma rectangular gas grill to your Garelick, Springfield or Todd pedestal.

- Made of 100% U.V. stabilized high density polyethylene
- This adapter will not chip, crack or peel and is virtually indestructible
- Stainless steel screws included
- 13.8" x 10.6" x .7"

MGP 10-180

Magma Locking Slide Mount, Vertical Surface



- Swiveling quick-release top mounting bracket; instantly disconnects and provides 360° rotation
- Twist lock levelling collar; allows all angle adjustment
- Quick disconnect spring-lock pin instantly detaches mounting arm from receiver plate for convenient disassembly and storage
- All components made from hard anodized aluminum
- Compatible with rectangular marine grills & single mount tables
- Purchase additional receiver plates to utilize additional installation locations
- Standard duty mounts are designed for use while anchored or moored. Although strong and versatile, they should be stowed while underway
- Dimensions: H: 19.17" x Depth: 14.36"



MGP T10-345

Accessories:

MGP T10-346 Receiver plate assembly

Magma Kettle 3 Grills



- Waterproof Electronic Pulse Ignition System, lights first time, every time
- Redesigned heavy-duty stainless steel inner lined double wall safety shell
- Burner, hi tech radiant plate, and dome heat distribution design; less flare ups, longer grill life, perfect even heat distribution as a grill or direct open flame cooking as a stove
- "Stay Cool" cast 18-9 stainless steel handle with air cooled supports
- Control valve / regulator for increased grilling performance
- 100% 18-9 mirror polished stainless steel
- Swiveling, windproof turbo venturi tube and control valve/ regulator; virtually eliminates blow-outs
- Perfectly balanced hinged lid; will not slam shut
- Cast 18-9 stainless steel L-bracket mount clamp; indexed for positive non-slip level mounting
- Magma's patented design utilizes both radiant and convection cooking; the hottest temperatures with the least amount of fuel, fast and efficient



Marine Kettle 3 - Original 15"

- Dia: 15" x H: 12-5/8"
- Grate dia: 13"
- Grilling Area: 133 in^2

MGP A10-207-3-CSA



Marine Kettle 3 - Party Size 17"

- Dia: 17" x H: 14-5/8"
- Grate dia: 15"
- Grilling Area: 177 in^2

MGP A10-217-3-CSA

Magma Kettle Grills



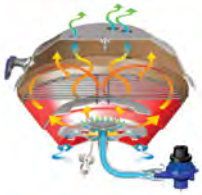
- Economy version of the Kettle 3
- Balanced hinged lid will not slam shut and will act as a windshield in gusty wind conditions
- Windproof swiveling tubo venturi tube virtually eliminates blowouts, and places fuel and valve where it is convenient for you
- Radiant plate heat distribution design
- Combination grease catch pan/wind baffle keeps the wind gusts out while keeping the flames and grease in
- Patented Kettle design fully utilizes both radiant and convection cooking
- Quickly comes to temperature, then heats the entire grill surface evenly while using the least amount of fuel
- 100% 18-9 mirror polished stainless steel



Marine Kettle - Original 15"

- Dia: 15" x H: 12-1/2"
- Grate dia: 13"
- Grilling Area: 133 in^2

MGP A10-205-CSA



Marine Kettle - Party Size 17"

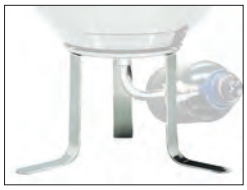
- Dia: 17" x H: 13-1/2"
- Grate dia: 15"
- Grilling Area: 177 in^2

MGP A10-215-CSA

Magma Kettle Mounts

Magma offers the largest selection of mounting options and accessories to customize your grill to your boat.

Magma On Shore Stand



- Cook onshore with this 18-8 stainless steel and brass grill stand
- Easily collapses for flat compact storage without tools

MGP A10-650

Magma Double Locking Pedestal Kettle Mount





The pedestal locks into the mounting base and the grill locks to the pedestal. The grill is instantly removable from the pedestal with a simple push-button release. The pedestal also is instantly removable from the mounting base with a push-bottom release that allows the pedestal to be unthreaded and removed for storage. The low-profile, threaded twist-lock surface mount base measure just 5/8" tall and 7" in diameter with a 5-3/4" bolt pattern. There is no need to cut a hole in your deck. Made of durable anodized aluminum with a brushed satin finish.

MGP A10-184

Parts:

Use the adapter and cap to optionally mount another table or grill to your pedestal.

MGP 10-187 Pedestal mounting plate

Magma Round Rail Mounts



- Quick-disconnect, all angle mounting
- Fits any angle railing and detaches quickly for storage without tools leaving no hardware on the rail

MGP A10-080 7/8" or 1" round rail
MGP A10-085 1-1/8" or 1-1/4" round rail
MGP A10-090 1-1/2" round rail

Magma Socket Rod Holder Mount



- Fits the Tempress, Roberts and many other socket type rod holder mounts
- Locks in 12 different positions
- Rod holder socket not included

MGP A10-160

Magma Flush Deck Socket Mount



- Stainless detent pin lets the grill rotate and lock in 8 different positions allowing it to be moved inboard and outboard
- Mount includes a raincap
- Rod portion of mount quickly disconnects for compact storage
- Some fasteners required for installation

MGP A10-126

Magma Pow'r Grip Rod Holder Mount



- Fits most cylindrical type rod holders
- Allows grills to mount in any direction from the rod holder
- Rod holder socket not included

MGP A10-175

Magma Bulkhead or Square Rail Mount



- Attach to any vertical flat surface such as bulkheads, hulls, transoms or cabin sides
- Also mounts to square or flat rails
- Horizontal rails to 2-1/4" high by any depth
- Vertical rails up to 1- 5/8" wide by any depth
- Some fasteners required for installation.

MGP A10-240

Magma Padded Kettle & Accessory Carry Case



- Fits most portable kettle grills 17" and under
- 100% polyester fabric with thick padding for maximum protection
- Heavy-duty zippers
- Transports and stores grill, mounts, and grilling accessories
- Large main compartment for grill
- Additional storage pockets for griddle, fish and veggie grill tray, grill tools, control valve/regulators, and disposable 1 lb. fuel canisters

MGP A10-991

Magma Padded Grill & Accessory Carry Cases



A10-992

- Large storage compartment for a grill, pockets for storing a serving shelf, griddle, fish/ veggie tray, and additional side pocket for storing up to (2) 1lb. propane canisters and (2) control valve/ regulators
- Thick padding and heavy duty carrying handles and strap

MGP A10-992 For grills maximum 9" x 18"
MGP A10-1292 For grills maximum 12" x 18"
MGP A10-1293 For grills maximum 12" x 24"

Magma Storage Bag



- Safe, convenient, and essential for boats without approved propane or butane gas storage lockers
- Stows 3 disposable butane or propane canisters safely out-over-the-water
- Water and fade resistant heavy duty nautical blue polyester boat cover material
- Heavy nylon adjustable straps with snap connectors for attaching to a horizontal rail or lifeline

MGP A10-210PB

Magma Grill Covers

- Water and fade resistant Sunbrella boat cover material resists damage from sunlight and mildew
- 5 year warranty covers the fabric becoming unserviceable because of loss of colour or strength from normal exposure conditions, including sunlight, mildew, rot and atmospheric chemicals
- 1 year warranty on all other components



A10-990PB



A10-990JB



A10-990CN

Description	Captain's Navy	Pacific Blue	Jet Black
Trailmate, 9" x 12"	-	MGP A10-890PB	MGP A10-890JB
Newport & Chefmate, 9" x 18"	MGP A10-990CN	MGP A10-990PB	MGP A10-990JB
Catalina,12" x 18"	MGP A10-1290CN	MGP A10-1290PB	MGP A10-1290JB
Original Size Kettle	MGP A10-191CN	MGP A10-191PB	MGP A10-191JB
Party Size Kettle	-	MGP A10-492PB	MGP A10-492JB



7 Piece Set Components
- 2 quart sauce pan
- 5 quart stock pot
- 10" sauté / fry pan
- Lid for sauce pan
- Lid for stock pot and saute/ fry pan
- 1 removable handle
- "Bungee" storage cord



10 Piece Set Components
- 1-1/2 quart sauce pan
- 2 quart sauce pan
- 3 quart sauce pan
- 5 quart stock pot
- 10" sauté / fry pan
- Lid for stock pot and saute/ fry pan
- Universal lid for sauce pans
- 2 removable handles
- "Bungee" storage cord



"Nesting" Cookware Sets:
- Sealed triple clad bottoms, for even heat distribution
- Oven friendly and dishwasher safe
- Stores in less than 1/2 cubic foot of cabinet space

Induction Cookware
- Encapsulated Tri-Clad bottoms (Stainless Steel, Aluminum, and Magnetic Stainless Steel) for perfect heat distribution.
- For Gas, Electric, Ceramic, or Induction cook tops

7 Piece

Magma Stainless Steel Induction Cookware

MGP A10-362-IND



10 Piece

Magma Stainless Steel Induction Cookware

MGP A10-360L-IND





10 Piece

Magma Stainless Steel Induction Non-Stick Cookware

- 18-10 Stainless steel with a Ferromagnetic stainless steel base for use on Induction cooking systems as well as Gas, Electric and Ceramic tops
- Heavy duty Non-Toxic, PFOA, and PTFE free, slate black non-stick
- Encapsulated Triple-Clad bottoms (Stainless Steel, Aluminum, and Magnetic Stainless Steel) milled perfectly flat for perfect heat distribution

MGP A10-366-2-IND



10 Piece

Magma Stainless Steel Induction Cookware w/Ceramica Non-Stick

- 18-10 Stainless steel with a coloured exterior and Ferromagnetic stainless steel base for use on Induction cooking systems as well as Gas, Electric and Ceramic tops
- Heavy duty Non-Toxic, PFOA, and PTFE free, Ceramica non-stick
- Encapsulated Triple-Clad bottoms (Stainless Steel, Aluminum, and Magnetic Stainless Steel) milled perfectly flat for perfect heat distribution
- 3 no-skid pot protectors included

MGP A10-366-JB-2-IN Jet Black
MGP A10-366-MR-2-IN Magma Red



Magma Padded Cookware Carry Case

- Fits all Magma nesting cookware sets and accessories
- 100% heavy duty 600-Denier polyester fabric construction
- (2) removable internal corner compartments for storing up to (4) removable handles

MGP A10-364

Magma Pot Protectors



- Flexible protectors keep pots and pans free of damage
- No-skid logo surface prevents cookware from shifting
- Specifically designed for cookware's nesting function
- Use as trivets when serving meals

MGP A10-368

Magma Cookware Parts



MGP 10-361 Cookware removeable handle

Magma Nesting Stainless Steel Colander



- 100% 18-10 stainless steel
- Use with any Magma 5qt stock pot for preparing pastas or steaming vegetables
- Designed to nest and store inside any Magma cookware set
- Collapsible easy-use stainless steel handle

MGP A10-367

Magma Non-Stick Griddles





- Cast aluminum coated with non-stick finish
- Reversible; griddle side or grill side
- Removable insulated handles

MGP A10-195-2 8" x 17"
MGP A10-197-2 11" x 17"

MGP A10-196-2 Fits 15" Kettle grill
MGP A10-198 Fits 17" Kettle grill

Magma Kettle Serving Trays with Removable Cutting Board



- Marine grade stainless steel tray with high-density polyethylene FDA approved cutting board
- Cutting board is easily removed for cleaning
- Clips to front of Kettle grills

MGP A10-278 Fits 15" grill
MGP A10-279 Fits 17" grill



Magma 5 Piece Telescoping Grill Tools & Storage Case Set

- Telescoping professional quality-grilling tools
- Manufactured with 18-9 marine grade mirror polished stainless steel with rubberized soft touch handles
- Choose from (3) usable telescoping lengths for grilling then collapse to shortest length for space saving storage
- Set includes: Spatula, tongs, fork, grill brush and carrying case.

MGP A10-132T

Magma Grilling Mitt



- 100% quilted heat resistant cotton
- Silicone palm/thumb with magma "M" logo for added heat protection
- Embroidered Magma logo
- Design allows for use with either hand
- Convenient hanging loop
- Sold by the each

MGP A10-287JB ** Jet Black
** While Stock Lasts

Magma Grilling Towel



- Plush super soft 100% cotton
- Machine washable
- 304 stainless steel hanging eyelet
- 2/pkg, 16" x 22" towels

MGP A10-288JB ** Jet Black
** While Stock Lasts

Magma Cockpit Umbrellas



- New larger, stronger square design
- Fade resistant UV protected acrylic nylon
- Entire canopy reinforced to each corner
- Venting mesh windproof design
- Four corner tie-down attachment points
- 2-Piece fiberglass shaft with chrome brass joint
- Quick release all-angle round rail mount
- Easily adjusts to any position
- Matching storage case included
- 6' diameter top with 5' fibreglass shaft
- Fits 7/8" or 1" railings

MGP B10-404 Jet Black
MGP B10-405 Pacific Blue

Reflective Silver Umbrella



- All the features of the above but with a 100% UV block protective silver coating on the acrylic nylon canopy
- 100% UV block protective coating keeps area under canopy up to 6.5° C cooler

MGP B10-403

Magma Elliptical Party Table w/Dual Rail Mount



- Secures bottles of varying sizes, and provides additional serving space
- FDA approved, UV resistant, high density polyethylene
- Includes Magma T10-580 dual rail mount
- L: 28" x W: 14.75" x H: 3.5"
- 17.81 lb



MGP T10-539

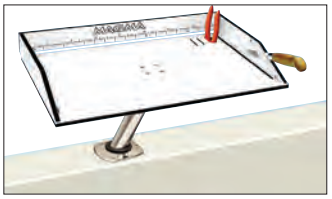
Magma Serving Shelves with Removable Cutting Board

Best Seller



- 18-8 stainless steel detachable serving shelf with UV stabilized high-density, FDA approved polyethylene
- Attaches and detaches instantly for quick and easy clean-up or storage
- Stores inside of grill when not in use

MGP A10-901 11-1/4" x 7-1/2", for 9" x 12" or larger grills
MGP A10-902 17-1/4" x 7-1/2", for 9" x 18" or larger grills



Magma Bait/Fillet Mate Tables with LeveLock Mount

This table is supplied with the LeveLock all-angle fish rod holder mount, which has been manufactured using heat-treated stainless steel and hard-anodized aluminum for superior corrosion resistance. It's quick release cam-action design allows convenient all-angle adjustment when in use or simply folds flat for storage. The 1-1/2" (38 mm) 304 stainless steel tube has 8 different rotation positions and fits most cross-pin type rod holders.

- 100% UV stabilized compression molded high-density black colour core polyethylene with a white cap layer
- FDA approved for food preparation and service
- Will not crack, peel, mildew, absorb bacteria, or fish odors
- Pliers storage and (2) knife holsters
- Grooved sides and slotted table back for overboard drainage

MGP T10-312B 20" x 12-3/4"
MGP T10-313B 31" x 12-1/2"



Table only - without mount

MGP T10-302B 20" x 12-3/4"
MGP T10-303B 31" x 12-1/2"

► *Also See* Railblaza Tables pg 17-024

► *Also See* Sea-Dog Tables pg 17-040

Magma Parts & Accessories



- "L" Bracket & Clamp

MGP 10-664 ** Heavy duty

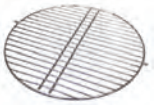


- Round, plastic rail adapter

MGP 10-047 7/8" to 1" or 1-1/8" to 1-1/4"

- Lever, Nylon Washer & Nut

MGP 10-043 Standard



- Replacement parts for the "Original Size" (A10-007/008/027)

MGP 10-153 Cooking grate



- Replacement temperature gauge for Catalina/Newport grills

MGP 10-1270-2-GS



- Flame deflector for A10 series

MGP 10-258

** While Stock Lasts

Magma LPG Low Pressure Gas Grill Connection Kit

Used in conjunction with the correct Type 3 control valve (see below), this kit allows you to connect your Magma gas grill into your on-board, preregulated, low pressure LPG (propane) system. Includes all necessary brass fittings, safety shutoff valve and 10 feet (3 m) of preassembled, leak tested hose.



MGP A10-225

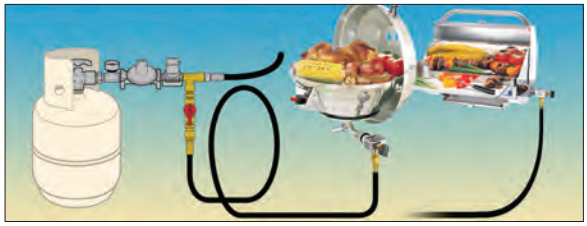
NOTE:
Magma discourages the use of high pressure propane lines on board boats. They recommend only pre-regulated, low-pressure, propane lines properly installed to American Boat and Yacht Council (ABYC) safety standards. High pressure propane hoses should be limited to "on-shore" applications.

Magma LPG Control Valves

For preregulated, low pressure, on-board LPG (propane) systems. These stainless steel and brass control valves are designed to connect to the low pressure side of the regulator. Hose and fittings not included.



Type 3



Magma Gourmet & Connoisseur Parts

Replacement Parts	TrailMate A10-801	ChefsMate A10-803	Newport A10-918-2 / GS	Catalina A10-1218-2 / GS	Monterey A10-1225L
Valve/Regulator for Canisters Type 1	MGP 10-262	MGP 10-263	MGP 10-263	MGP 10-264	MGP 10-265
Grill	MGP 10-955 x 2	MGP 10-955 x 3	MGP 10-954 x 3	MGP 10-1254 x 3	MGP 10-1254 x 4
Pizo Igniter	-	-	MGP 10-960	MGP 10-960	MGP 10-960
Electronic Igniter	-	-	MGP 10-904	MGP 10-904	MGP 10-904
Electronic Igniter Kit	-	-	MGP 10-960-R	MGP 10-960-R	-
Grease Pan	MGP 10-924	MGP 10-961	MGP 10-961	MGP 10-961	MGP 10-961
Radiant Plate	MGP 10-923	MGP 10-964	MGP 10-965	MGP 10-965	MGP 10-1065
Anti-Flare Plate: Centre	-	-	MGP 10-956C	MGP 10-1056C	-
Anti-Flare Plate: Left	-	-	MGP 10-956L	MGP 10-1056L	-
Anti-Flare Plate: Right	-	-	MGP 10-956R	MGP 10-1056R	-
Burner	MGP 10-927	MGP 10-957	MGP 10-957	MGP 10-957	MGP 10-1057
Thermometer	-	-	MGP 10-1270	MGP 10-1270	MGP 10-1270
Warming Rack	-	-	-	MGP 10-1271	MGP 10-1071
Accessories					
Low Pressure Valve for LPG Bottles Type 3					
	MGP A10-219	MGP A10-220	MGP A10-220	MGP A10-223	MGP A10-224
LPG 10' Hose Conversion Kit for above item. Type 3					
	MGP A10-225	MGP A10-225	MGP A10-225	MGP A10-225	MGP A10-225

Magma Kettle Parts

Replacement Parts	Marine Kettle A10-205	Marine Kettle A10-215	Marine Kettle 3 A10-207-3	Marine Kettle 3 A10-217-3
Valve/Regulator for Canisters Type 1	MGP 10-263	MGP 10-263	MGP 10-263	MGP 10-263
Grill	MGP 10-253	MGP 10-353 *	MGP 10-153	MGP 10-453
Pizo Igniter	-	-	MGP 10-960-K	MGP 10-960-K
Grease Pan	MGP 10-161	MGP 10-161	MGP 10-161	MGP 10-161
Radiant Plate & Dome	MGP 10-466	MGP 10-467 *	MGP 10-665	MGP 10-765
Venturi Tube	MGP 10-160	MGP 10-160	MGP 10-160	MGP 10-160
Burner	MGP 10-657	MGP 10-657	MGP 10-657	MGP 10-657
Accessories				
Low Pressure Valve for LPG Bottles Type 3	MGP A10-220	MGP A10-220	MGP A10-220	MGP A10-220
LPG 10' Hose Conversion Kit for above item. Type 3	MGP A10-225	MGP A10-225	MGP A10-225	MGP A10-225



Type 1



10-160



10-960-K



10-657



10-161



10-905



10-765



10-960

Parts:

* Special Order

MGP 10-164 L-bracket and clamp assembly
MGP 10-466 Radiant plate assembly for A10-105/205
MGP 10-905 Electronic Pulse Ignition Retro-Fit Kit for Kettle 2; optional upgrade for 10-960 Piezo Igniter
MGP 10-960 Piezo Igniter for Kettle 2





Kuuma Stow N' Go 160 Grills

- Stainless steel construction, fully assembled
- Integrated folding legs for tabletop use (rail mount available)
- Features, grease tray, latching lid and stay-cool handle
- Use with disposable 1 lb. propane canisters or larger refillable tanks (Canisters, tanks and hoses sold separately)
- Cooking Surface Area: 160 square inches
- Dimensions: 23.25" L x 11.25" D x 11" H
- Weight: 16 lbs

KUU 58134
KUU 58135 With thermometer and igniter

Parts:
KUU 58356 Regulator



Kuuma Stow N' Go 125 Grill

- Stainless steel construction, fully assembled
- Integrated folding legs for tabletop use only, other mounts (rail, rod, or pedestal) available
- Features grease tray, latching lid, and stay-cool handle
- Use with disposable 1 lb. propane canisters or larger refillable tanks (canisters, tanks, and hoses sold separately)
- Cooking Surface Area: 125 in^2 (13.75" x 9.25")
- Dimensions: L: 19.75" x W: 11.25" x H: 11"
- Weight: 13 lbs

KUU 58146

Parts:
KUU 58355 Regulator



Kuuma Elite 216 Grill

- Stainless steel construction, fully assembled
- Integrated folding legs for tabletop use only, other mounts (rail, rod, or pedestal) available
- Full-featured grill offers a simple control knob for precise heat control, removable warming rack, built-in thermometer, piezo igniter, removable liner, grease tray, latching lid, and stay-cool handle
- Use with disposable 1 lb. propane canisters or larger refillable tanks (canisters, tanks, and hoses sold separately)
- Cooking Surface Area: 167 in^2 primary (14.5" x 11.5") plus 50 in^2 secondary (15.5" x 3.25")
- Dimensions: L: 22" x W: 15" x H: 13"
- Weight: 21 lbs

KUU 58154

Kuuma Grill Accessories

KUU 58275 Regulator, Pre-2016 BBQ's



Kuuma Grill Cover

- Cover or tote for Stow N' Go and Profile Series grills
- Heavy duty, UV and weather-resistant polyester for long lasting protection
- Zip closure
- For use with Stow N' Go 125 and 160, or Profile 150 and 216



KUU 58300 Black



Kuuma Rod Holder Mount

- Anodized aluminum, with s/s hardware
- Works with most 60° rod holders with cross pins
- Adjustable height

KUU 58180



Kuuma Direct Above Rail Grill Mount

- Anodized aluminum, with s/s hardware
- Mounts on any 7/8" - 1-1/4" round or square horizontal rail

KUU 58181



Kuuma Inboard/Outboard Rail Grill Mount

- Anodized aluminum, with s/s hardware
- For use with 7/8" - 1-1/4" horizontal round or square rail
- Inboard/outboard style mount is designed to allow your grill to hang outside the rail, helping to protect fibreglass from spills and splatters

KUU 58182



Kuuma Quick-Release Rail Grill Mount

- Allows you to quickly mount and dismount your grill without unscrewing any hardware and without the use of tools
- Features a quick-release knob for fast and easy set-up and break-down
- Constructed of anodized aluminum with stainless hardware
- Fits many other popular grills
- Works with any square or round rail 7/8" to 1-1/4"

KUU 58195



Kuuma Pedestal Mount

- Anodized aluminum, stainless steel, and plastic
- Works with all Kuuma Stow N' Go and Profile Series Grills
- Height: 30"
- Supplied with mounting hardware, and quick-release base
- Requires 4x 1/4" or 5/16" fasteners

KUU 58184

Dickinson Sea-B-Que Grills

00-SBQ-S



- Stainless steel propane marine barbecue/oven
- Standard features including nonstick, no-flare cooking surface, removable drip tray and deck legs & roll away hood

Large

- 11,000 BTU
- Cooking surface: 20" x 11" (227 sq. in.)
- Overall: W: 28" x D: 12" x H: 14"
- Weight: 26 lbs

DIC 00-SBQ-L

Small

- 10,000 BTU
- Cooking surface: 16" x 9-1/4" (148 sq. in.)
- Overall: W: 24" x D: 10" x H: 12"
- Weight: 18 lbs

DIC 00-SBQ-S

Dickinson Spitfire 180 Marine Grill



Includes deck legs

- 20 gauge stainless steel
- Mirror polished top with a grain finished bottom
- Front and side cool touch handles
- Electronic ignition
- Thermometer
- 1/4" rod grills
- Removable drip tray
- Will not blow out in the wind
- Includes black vinyl cover
- Three year warranty on burners
- 180 square inches of cooking surface
- 11,000 BTU of wind proof grilling
- Weight: 30 lbs
- W: 24" (Overall) x H: 13" x D: 14.75"

DIC 00-SPT-180

Accessories:

DIC 15-180A S/S & plastic food/drink tray, 15" x 7-3/4"

Dickinson Mounts & Accessories

Universal Rail Mount



- Made for use with any Dickinson BBQ
- Mounts on square or round rails, 7/8" to 1"
- Mounts horizontal or vertical
- Quick release snap latch for easy removal

DIC 15-150A

'Scotty' Post & Socket Mount



- Made for use with any Dickinson BBQ
- Attaches to a 'Scotty' type rod holder
- Quick release snap latch for easy removal
- Universal knuckle allows positioning at any angle

DIC 15-150P

Fishing Rod Holder Mount



- Made for use with any Dickinson BBQ
- Attaches to most types of rod holders
- Quick release snap latch for easy removal
- Knuckle allows positioning at any angle

DIC 15-150F

Taff Rail Mount With Sockets



- Stand off mount for cap or taff rails
- Stainless steel tubes and sockets
- Rails slide out and fold for storage

DIC 15-187

Dickinson Pedestal Mount



- Measures: 5" x 5" x 32"
- Quick release latch for BBQ
- Screw threaded base plate
- Anodized aluminum construction

DIC 15-150B



15-120



15-180



15-183P



15-184



15-203

Dickinson Accessories

DIC 15-080	Drip tray for small/large SEA-B-QUE
DIC 15-103 *	Ignitor assembly for round BBQ
DIC 15-120	Universal BBQ thermometer
DIC 15-130	Black replacement hood knob
DIC 15-173	Sea-B-QUE Mount sockets
DIC 15-184	Large SEA-B-QUE cover
DIC 15-185	Small SEA-B-QUE cover
DIC 15-180	Small food/drink tray with utensil hooks
DIC 15-181	Large food/drink tray with utensil hooks
DIC 15-182-P	♦ Small porcelain grill section
DIC 15-182-S	♦ Small S/S grill section
DIC 15-183-P	♦ Large porcelain grill section
DIC 15-183-S	♦ Large S/S grill section

Dickinson Accessories continued

DIC 15-061	Replacement burner – small
DIC 15-060	Replacement burner – large
DIC 15-101	Igniter assembly for large & small SEA-B-QUE
DIC 15-110	Regulator w/knob
DIC 15-201	Aussie grill, S/S for SBQL, 9.5" x 11"
**DIC 15-202 ** **	Aussie grill, S/S for SBQR, 13" diameter
DIC 15-203	Aussie grill, S/S for SPT 180-G, 8" x 11"

* Special Order

** While Stock Lasts

♦ Small & large BBQ's require 4 sections for a complete grill



Fairview Hose Assemblies

Used to connect the stove to the regulator.
FS 45° SAE Female Flare 3/8" x FS 45° SAE Female Flare 3/8"
Hose: Rubber

Part #	Hose I.D.	Length
PRP I4C120FS6FS6	1/4"	10'
PRP I6C60FS6FS6	3/8"	5'
PRP I6C72FS6FS6 *	3/8"	6'
PRP I6C120FS6FS6	3/8"	10'
PRP I6C180FS6FS6	3/8"	15'
PRP I6C240FS6FS6	3/8"	20'
PRP I6C300FS6FS6	3/8"	25'
PRP I6C360FS6FS6	3/8"	30'

* Special Order - may have stock



Fairview Hose Assemblies

Used to connect the regulator to the tank.
MP Male Pipe Thread 1/4" x Standard POL 1/4"
- Hose: 1/4" ID Rubber

PRP I4C18MP4POL 18"
PRP I4C24MP4POL 24"
Parts:
PRP OR-POL Spare O-ring



Fairview Hose Assemblies

MI Inverted Flare 1/4" x Standard POL 1/4"
- Hose: 1/4" ID Rubber

PRP I4C18MI4POL 18"
PRP I4C24MI4POL 24"
Parts:
PRP OR-POL Spare O-ring



Fairview Hose Assembly

MP Male Pipe Thread 1/4" x QCC 1-5/16"
Female ACME x I.D. 1/4"
- Hose: 1/4" ID Rubber

PRP I4C18MP4QCC 18"
PRP I4C20MP4QCC 20"



Fairview Hose Assembly

MI Inverted Flare 1/4" x QCC 1-5/16"
Female ACME x I.D. 1/4"
- Hose: 1/4" ID Rubber

PRP I4C18MI4QCC 18"



Fairview BBQ Hose Assemblies

BBQ hose to Add-A-Flow tee adapter #PRP 2012.
FC 1"-20 Swivel Female Cylinder Thread x MC 1"-20 Swivel Male Cylinder Thread
- Hose I.D. 1/4".

Part #	Length	Hose
PRP I4TC72FCMC	72"	Rubber
PRP I4TC144FCMC	144"	Thermoplastic



Fairview BBQ Hose Assemblies

BBQ hose direct to tank.
MC 1"-20 Swivel Male Cylinder Thread x POL H/W x I.D. 1/4"
- Hose: 1/4" ID Thermoplastic

PRP I4TC72MCPOLHW 72", with handwheel
PRP I4TC144MCPOL 144"

Fairview Dry Pressure Gauges

- 1/4" MPT connection
- 2" diameter steel case

PRP PG-15SD2 15 PSI, Stem mount
PRP PG-300SD2 300 PSI, Stem mount
PRP PG-200CD2 200 PSI, Back mount



PG-200CD2

Fairview Liquid Filled Pressure Gauges

- 1/4" MPT stem mount
- 2-1/2" diameter steel case

PRP PG-15SG25 0-15 PSI
PRP PG-300SG25 0-300 PSI



Fairview Single Stage Regulator

Die cast zinc. Molded rubber diaphragms with 175,000 BTU capacity.
- Ideal for portable devices
- Mounting holes on 3-1/2" centre
- Inlet 1/4" FPT
- Outlet 3/8" FPT

PRP GR-800



Fairview Two Stage Regulator

Die cast zinc, high quality, two stage (high- low) pressure regulator with molded rubber diaphragms and 225,000 BTU capacity.
- Mounting holes on 3-1/2" centre
- Inlet 1/4" FPT
- Outlet 3/8" FPT
- Ideal for larger applications
- Weight 1 lb.
- L: 5-3/4" x W: 3-1/8" x H: 2-5/8"

PRP GR-9950



Fairview Auto Change-Over Regulator

The change-over feature of this regulator gives the user the benefit of a continuous gas supply by automatically changing to a reserve cylinder when the service cylinder is empty. It features a green indicator dome which changes to bright orange when the service cylinder needs to be refilled. A gentle push on the sliding face plate will change from the reserve cylinder back to the service cylinder.



- Inlet 1/4" F inverted flare
- Outlet 3/8" FPT

PRP GR-9984P

Fairview Add-A-Flow Tee

This adaptor allows the use of the existing regulator and supply line while providing an outlet to supply fuel to a BBQ that has its own regulator.



- Male POL to Female POL

PRP 2012

Fairview Reserve Cylinder Adapter



- Brass construction
- Cylinder thread: 1"-20
- P.O.L. Female

PRP 2097

Fairview Tailpiece with O-Ring



- 1/4" MPT

PRP 2003-T
PRP HW Hand wheel for tailpiece

Fairview Manifold for Dual Tanks



- Inlet -1/4" inverted flare
- Outlet -1/4" Male pipe

PRP 2000

Fairview P.O.L. To QCC Adapter



- Brass construction
- QCC: Female
- P.O.L. Male

PRP 2087

Fairview Regulator Mounting Bracket

Works with the following:



- GR-800 (requires 1)
- GR-9950 (requires 2)
- GR-9984 (requires 2)
- Fasteners not included

PRP GR-240-32

Fairview Propane Thread Sealing Tape

Use for sealing threads on fittings used in propane installations.



PRP 121-M8UL 1/2" x 236"

► *Also See* Teflon Tape pg 06-023

Trident Propane Aluminum LPG Cylinders



- High-strength, brushed aluminum
- Manufactured to D.O.T. specifications
- 10# and 20# cylinders are TC approved for Canada
- All cylinders are shipped with plastic valve cover attached

Vertical

TRI 1410-0010	2.4 gal, 10 lb, H: 16-1/2" x W: 10-1/2"
TRI 1410-0020	5 gal, 20 lb, H: 20-1/2" x W: 12-1/2"

Horizontal

TRI 1410-0010H	2.4 gal, 10 lb, H: 10-1/2" x W: 16-1/2"
TRI 1410-0020H	5 gal, 20 lb, H: 12-1/2" x W: 20-1/2"

Trident Propane Composite Cylinders



- Non-corrosive 3-layer fibreglass composite cylinder
- Ergonomic collar and handle
- New Type 1 valve is OPD, DOT, & TC approved
- See-thru feature for level of LP gas

TRI 1420-0011	2.6 gal, 11 lbs, H: 15-1/4" x W:12-1/2"
TRI 1420-0017	4.7 gal, 17 lbs, H: 18-7/64" x W: 12-1/2"
TRI 1420-0022	5.25 gal, 22 lbs, H: 22-1/2" x W: 12"

Trident Propane Steel LPG Cylinder



- High quality, cost effective steel cylinders are air tested, steel shot blasted, primed, and electrostatically painted
- Manufactured to D.O.T. specifications
- All cylinders are shipped with plastic valve cover attached
- H: 12-1/2" x W: 8"

TRI 1400-0005 * 1 gal, 5 lb
* Special Order - may have stock

Trident Propane Fully Rigged LPG Lockers



- Constructed of UV protected moulded polymer material with stainless steel hardware
- Double-walled lid, durable latching system, and foam seal
- Kitted lockers come standard with regulator assembly with leak test gauge, quick close pigtail, brass solenoid valve, Trident LPG basic control panel, two straight thru fittings, and a thru hull fitting for ventilation
- Control panel will allow you to turn your system on and off from the galley

Single

TRI 1601-0011	H: 17-45/64" x W: 15" x D: 18"
TRI 1601-1720	H: 21" x W: 15" x D: 18"

Dual

TRI 1602-1011	H: 18-1/2" x W: 27" x D: 14-3/4"
TRI 1602-1720	H: 23-13/64" x W: 27" x D: 14-3/4"

Trident Propane Gas Grill Connection Tees



- High pressure tee for installation between cylinder valve and regulator or pigtail POL fitting
- Fully assembled and leak tested with solid brass swivel male POL x female POL receptacle, 1"-20male fitting with o-ring, and check valve with captive safety cap
- Must use with high pressure conversion hose (42421-72)

TRI G-415
TRI G-415-72 Kit with 6' high pressure hose

Trident Propane Two-Stage LPG Regulator with Gauges



- For use with two cylinders
- UL listed body is assembled and leak tested with two 300PSI gauges, wall mounting brackets, and 3/8" FPT outlet
- 2 stage regulates cylinder pressure more efficiently and has 75% more BTU capacity (at service cylinder) than the 1 stage regulator
- When both cylinder valves are open, it automatically changes over to full cylinder when first selected is empty
- Indicator dome shows orange until selector switch is pushed fully toward full cylinder
- Leak tested: Meets ABYC Marine standards
- UL Listed
- H: 6-3/4" x W: 5-1/4" x D: 4"

TRI 1230-1411 Wall mount

Trident Propane LPG Regulators with Gauge

- Compact, single stage, single port, low pressure regulator with 300 PSI leak-test gauge (low profile, water-tight stainless steel)
- Die cast zinc body with 3/8" FPT outlet
- Leak tested: Meets ABYC Marine standards
- UL Listed
- Fully assembled


1200-1411

- Includes solid brass male POL cylinder fitting and street tee
- H: 3-1/2" x W: 7-1/2" x D: 2-1/2"

TRI 1200-1411 Tank mount


1211-1411

- Includes mounting brackets
- H: 6-1/2" x W: 3-1/4" x D: 3-1/4"

TRI 1211-1411 Wall mount

Trident Propane Regulator and Hose Kits

- Single port, single stage regulator
- Comes with 300 PSI gauge, mounting brackets, and 20" hose
- Die cast zinc body with 3/8" FPT outlet
- Gauge is low profile, water-tight stainless steel
- Leak tested: Meets ABYC Marine standards
- UL Listed
- Regulator: H: 6-1/2" x W: 3-1/4" x D: 3-1/4"


1211-1401

- Remote mounted
- POL hose

TRI 1211-1401


1211-1402

- Wall mounted
- Pigtail hose with quick-closing coupling
- Allows no gas flow unless fully connected

TRI 1211-1402

Trident Propane High Pressure Adapter Hose



- Converts gas grill or other portable LPG appliances from small disposable bottle to larger refillable cylinder
- Fully assembled and leak tested
- Includes hand wheel POL cylinder fitting, high pressure appliance valve fitting (1"-20 swivel male with o-ring and check valve), and 6' LPG hose
- UL listed

TRI 40407-72

Trident Propane High Pressure Connection Hose



- Connects to your grill from a propane tank
- Fully assembled and leak tested
- Includes solid brass swivel fittings: 1"-20 female for tee connection, 1"-20 swivel male with o-ring and check valve for high pressure appliance connection, and 6' hose
- Use with G-415 high pressure gas grill connection tee (not included)
- UL listed

TRI 42421-72 6' length

Trident Propane LPG Supply Line Hoses



- Does not corrode or develop stress/fatigue cracks like copper tubing, and much easier to install
- UL listed high-pressure hose comes fully assembled and leak tested with solid brass fittings (3/8" female swivel flare each end)

TRI 1014-3838-60 5' length
TRI 1014-3838-120 10' length
TRI 1014-3838-240 20' length
TRI 1014-3838-360 30' length
TRI 1014-3838-480 40' length

Trident Propane POL Pigtail Hose



- Connect wall-mount regulators to LPG cylinders (inside valve - LH thread)
- Fully assembled and leak tested with solid brass male POL cylinder fitting, 1/4" male inverted flare, and 20" high pressure UL listed LPG hose

TRI 1014-1401-20-P

Trident Propane Pigtail Hose with Quick-Closing Coupling



- Connect wall-mount regulators to cylinders with new Type 1 valves (outside RH thread)
- Fully assembled, leak tested, and UL listed
- 20" high pressure hose with 1/4" male inverted flare fitting x thermoplastic QC nut for quick and easy hand tight connection
- No gas flow unless fully connected
- Nut has heat sensing feature that shuts off all gas flow if temperatures reach 240°-300°F
- Controlled flow device will activate in case of a down-stream gas system break to restrict gas flow

TRI 1014-1415-20

Trident Propane Low Pressure Connection Kits


G-265-120

- Converts gas grill from small disposable bottles to larger refillable cylinders
- Install connection kit between the outlet of regulator (or low pressure solenoid) and LPG supply line
- Less than 1/2 PSI in hose to gas grill
- Must be used with a low pressure control valve at the gas grill
- Fully assembled and leak tested with solid brass tee, ball valve and apdapters

TRI G-265
TRI G-265-120 Includes 10' UL listed high pressure supply hose

Trident Propane 12V Low Pressure Solenoid



- Brass solenoid has 3/8" FPT ports
- Kit includes hex nipple to connect to regulator outlet port, and 90° flare elbow to connect solenoid outlet port to supply hose
- Will not function with high pressure or low to no electric current
- Draws 790 mA
- Solenoid dimensions: H: 2-5/8" x W: 2" x D: 1-5/8"

TRI 1300-7706.2-KIT

Trident Propane Reserve Disposable Cylinder Adapter



- Connects a disposable (camping) bottle in place of your LPG refillable cylinder
- Simply connect the POL fitting of your regulator or pigtail to female POL adapter fitting, then disposable bottle to the female 1"-20 adapter fitting
- H: 2" x Dia: 1-1/8"

TRI G-487 Solid brass

Trident Propane Straight-Thru Fittings



- Meets ABYC standard for non-abrasive and vapour tight (non-pressurized) seal on continuous length LPG supply lines passing "Straight-Thru" water-tight bulkheads and decks from inside cylinder locker to each appliance
- 3-piece nylon construction with lock nut and BUNA-N sealing gland resists salt water, fuels, weak acids, and common solvents
- Properly installed will withstand up to 70 PSI

- Seals around hose assemblies up to 5/8" thick, and through bulkhead or decks up to 1/2" thick

TRI 1438-8439 H: 2-1/8" x Dia: 1-7/8"

- Seals around 1/4" - 3/8" LPG copper tubing, and through bulkheads and decks up to 3/8" thick

TRI 1438-8876 H: 1-1/2" x Dia: 1"

Trident Propane Regulator Mounting Brackets



- Designed for remote mounting of regulators onto a flat surface within the propane system locker
- Singe stage or two-stage
- Pre-drilled
- Stainless steel, set of two

TRI 1250-0000

Trident Propane 12V Gas Controls



- Turns LP gas On/Off from inside the galley
- Green ON and red OFF indicator lights
- Draws 953 mA when on and gas is in service
- Panel is CE certified
- 12VDC (Panel operates on 24VDC with the use of a 24V solenoid)
- Panel: H: 3-3/4" x W: 2-3/4" x D: 7/8"


Kit

TRI 1300-7703.1 Panel only
TRI 1300-7705.3-KIT Kit with 3/8" solenoid and connection fittings

Trident Propane 12V Gas Control & Detection Systems


1300-7761-KIT

- System turns gas On/Off from inside the galley, continuously monitors space(s) for presence of LP gas in up to 3 locations (with additional detectors), and automatically turns gas off and activates audio/visual alarm
- Detects gas at 10% Lower Explosion Limit
- Control panel has 3 alarm zone indicators, green function light, red alarm lights, 95 dB alarm, and mute/test button
- Detector has red function light and 10' quick connect cable
- Detector is On and monitoring even when panel is off
- System draws 163 mA when off, 953 mA when On/Standby mode, and 255 mA in alarm mode
- Systems include full LP gas detection panel, LP gas detector, 10' quick connect cable
- 12VDC (24VDC when used with a 24VDC solenoid)
- Panel: H: 3-3/4" x W: 2-3/4" x D: 7/8"

TRI 1300-7760 System as above
TRI 1300-7761-KIT Also includes 12V 3/8" solenoid and connection fittings
TRI 1300-7762-KIT Also includes 12V 1/4" solenoid and connection fittings

Trident Propane 12V Gas Detector



- Remains ON and monitoring even when gas control panel is OFF
- Alarm signal is sent to gas control panel when LP gas is present at 10% Lower Explosion Limit or more
- Up to 2 additional detectors can be added to systems with a 10' or 20' quick connect cable
- Marine UL listed with red function light
- Each detector draws 163 mA

TRI 1300-7720

► *Also See* Propane & Gas Detectors pg 12-002 to 003

Trident Propane Quick Connect Cables



- Easy install quick connect cables are used to connect a remote LP gas detector to the control panel

TRI 1300-7721-120 10'
TRI 1300-7721-240 20'

Caframo Ecofan Original Fan



- For use on freestanding wood stoves with a surface temperature between 230°F - 650°F (110°C - 345°C).
- Generates its own electricity using the heat of the stove
- 100 CFM output (cubic feet per minute)
- Greater airflow & velocity at lower stove temperatures
- L: 3" x W: 5.5" x H: 8.5"
- Two year warranty

CAF 800CAXBX

Caframo Ecofan Airmax Fan



- Highest performance Ecofan
- For use on freestanding wood stoves with a surface temperature between 150°F - 650°F (65°C - 350°C)
- Generates its own electricity using the heat of the stove
- 150 CFM output
- Greater airflow & velocity at lower stove temperatures
- Designed for use on new EPA stoves
- Two year warranty

CAF 812AM-BBX

Caframo Ecofan UltrAir Fan



- For use on freestanding wood stoves with a surface temperature between 150°F - 650°F (65°C - 350°C)
- Generates its own electricity using the heat of the stove
- 105 CFM output
- Greater airflow & velocity at lower stove temperatures
- W: 5" x H: 10.875" x D: 5.5"
- Two year warranty

CAF 810CA-BBX

Caframo Tiny Tornado II Fan



- Compact high performance
- Seven position head, combined with suction cup and clip
- Uses one 'D' size battery
- Moves up to 75CFM
- One year warranty

CAF 827CA-TCS Charcoal

Caframo AC Chinook Fans



- 7" 'finger-safe' soft plastic blade
- Airflow is not blocked by a grill
- Two speed, 120V AC, 60 HZ
- High 210 CFM, low 138 CFM
- Two year warranty

CAF 707CH-BBX Black
CAF 707CH-WBX White

Caframo 12V Ultimate Fans



- 2 speed (CFM: 150-200)
- @12VDC: Low .28A, High .41A
- Plastic housing with soft plastic blade
- Pivots up/down and swivels sideways
- Comes with two mounting bases, sure grip suction cup and permanent screw down base
- H: 7" high, 6' cord
- One year warranty

CAF 747DC-WCS White
CAF 747DC-BCS Black



Same as 747 except permanent screw down base only, no DC plug, ready to wire in.

CAF 757DC-WBX White

Parts:
CAF 747-01-WBG Fan blade only

Sea-Dog 12V Clamp-On Fan



- .28/.38 amps. 3.4/4.5 watts
- Black ABS housing
- Clamp on mount fan
- Comes with a 6 ft. cord and plugs into a 12V power socket
- Integral high/low speed switch included
- H: 10" x W: 5-5/16" x D: 4-1/4"

SED 450110-1

Caframo 12/24V Bora Fans

NEW



- Updated look with modern, sleek push button
- Digital control and improved switch function
- 12/24V auto-sensing technology
- 3 speed touch control (90-125 CFM @ 12V, 110-155 CFM @ 24V)
- Full grills on both front and back
- Built in handle for easy positioning
- Fan can be swivelled side to side and up and down
- Draw: Low .13A (12V) / .10A (24V)
  High .27A (12V) / .23A (24V)
- H: 9.1" x W: 6.7" x D: 4.1"
- Two year warranty



CAF 7483CABBX Black
CAF 7483CAWBX White

Caframo 12V Sirocco II Fans





- Gimbaled design
- Three speeds (CFM: 125-155-185)
- Four preset timer settings (3/6/9 or 12 hours)
- Ultra quiet long-life motor
- 12/24 Volt Auto-sensing capability
- @12VDC: Low .12A, Med .22A, High .35A
- L: 3.9" x W: 9.5" x H: 12.2"
- 3 year warranty

CAF 7010CABBX Black
CAF 7010CAWBX White

Delta T 12V Axial Fans



- CE Labeled with integrated safety guard and reversible hub/ blade assembly
- Flanged shroud made of glass filled nylon
- Marinized sealed DC direct drive motor
- Motors have die cast aluminum end plates, O-ring seals, stainless steel shafts and a tough black Teflon epoxy coating
- Ignition proof construction, conforms to J1171, ISO 8846 and ISO 9097
- H: 12" x W: 12-3/8" x D: 3-9/16"
- 5 lbs

DTS 500-311122-IP 12VDC
DTS 500-311242-IP 24VDC

Hella 12V Turbo Fans



- Can be turned and pivoted in all directions, and locked in position
- Side, upright or pendant mounting
- Very quiet operation
- 150mm dia. fan blade with guard
- Pre-wired with 140mm cable
- Two speed switch

- Speed I: 70 litres / second
- Speed II: 95 litres / second

- Draws 0.3 / 0.5 amps, 6.5 watts @ 12VDC
- H: 7-5/8" x W: 7-1/4" x D: 3-3/4"

HLA 003361022 White
HLA 003361002 Black

Sea-Dog 12V Fan



- .28/.38 amps. 3.4/4.5 watts
- Black ABS housing
- Suction cup mount fan
- Comes with a 6 ft. cord and plugs into a 12 volt power socket
- Integral high/low speed switch included
- H: 8-1/4" x Dia: 5-7/8" x D: 4-3/4"

SED 450120-1

Wesmar 12V 2-Speed Fan



- Two-speed fan, with integral switch
- All metal fan and cage are connected to the aluminum base by a spring loaded ball-joint swivel
- Motor draws 1.4 amps at 12 volts @ 12VDC
- Blade diameter: 6-1/2"
- H: 8-3/4" x Dia: 7-1/4"

WES FC1000-12V

Eva-Dry Renewable Dehumidifier

- No more disposable crystals
- Safe, non-toxic, natural defense against moisture and mildew
- Requires no batteries or cords for use
- Lasts 30-60 days before renewing (12-16 hrs with an AC outlet)
- 100% renewable, works up to ten years
- Spill and mess-free; non-toxic
- Child and pet safe



EVA E-500 500 cubic feet

Eva-Dry Electric (AC) Dehumidifiers

- Powerful, quiet and efficient
- High capacity dehumidifiers uses thermal electric Peltier technology; no compressor
- Removable water tank
- Auto cut-off with LED indicator
- 110V with power cord
- 1 year limited warranty



- Water Tank Capacity: 16 oz
- W: 6" x D: 4-1/2" x H: x 8-1/12"
- Weight: 3.5 lbs

EVA EDV-1100 1100 cubic feet



- Water Tank Capacity: 30 oz
- W: 5-1/12" x D: 5-1/12" x H: x 8-1/12"
- Weight: 2.5 lbs

EVA EDV-1200 1200 cubic feet



- Built-in humidistat, allowing you to set your desired RH level and change the fan speed on the unit to customize your environment
- Water Tank Capacity: 1.8 L (60 oz)
- Removable soft drain plug, used with provided 36" drain hose
- W: 7-1/12" x D: 7-1/12" H: x 12-1/12"
- Weight: 2.5 lbs

EVA EDV-2400 2400 cubic feet

Caframo Stor-Dry



- 120V, 70 W, low current draw
- Internal blower
- 256 BTU's
- Anodized aluminum
- Sparkless for RV and boat applications
- Ideal for spaces up to 1000 cubic feet
- L: 10.1" x W: 10.1" x H: 4.5"
- 2 year warranty

CAF 9406

Davis Instruments Air-Dryr

- Cool, damp air is drawn through the bottom base panel, then heated and released through the top perforated surface
- This unit has no fans, thermostats, switches, or moving parts, nothing to fail or to cause a spark
- Safe for use even in the engine compartment of a boat
- 120V, UL listed



- Covers up to 1000 cubic feet
- Draws only 1.1 amps, 130 watts
- 13.5" Diameter x 4.25" H

DIN 1458 Air-Dryer 1000

- Covers up to 500 cubic
- Draws only 0.6 amps, 70 watts
- 14 x 5 x 4.5"

DIN 1459 Air-Dryer 500



Aqua-Tek Damp-Guard

- Time-release granules remove excess airborne moisture
- Activated charcoal filters unpleasant smells and VOC's
- 100% pure Tea Tree oil controls mold and mildew odours
- 100% pure Peppermint oil leaves a long-lasting refreshing scent
- Works in all granular moisture traps

AQU 53080 880 g
AQU 53081 3.2 kg

Dri-Z-Air Dehumidifier



- Removes excess moisture
- Helps prevent condensation
- Units come complete with one 368 gram (13 oz) package of crystals

DRI DZA-UNIT

Parts:

DRI DZA-REFILL 13 oz (368g) refill
DRI DZA-60 60 oz (1.7kg) refill
DRI DZA-160 160 oz (4.5kg) refill
DRI DZA-T Spill tray

Decorator Dehumidifier



- Units come complete with one 368 gram (13 oz) package of crystals

DRI DZA-DU

Star brite No Damp Ultra Dome



- The unique design of the dome allows maximum airflow over and through the pellets for peak efficiency
- This design, which locates the pellets above the trapped moisture, allows collection of up to 50% more humidity
- The over-sized container safely holds trapped liquid for disposal
- The mesh dome also prevents articles of clothing or other items from accidentally coming in contact with the pellets or liquid
- Comes with 24 oz package No Damp pellets

STA 85460

Star brite
No Damp Moisture Absorber



- Dries air to level where mildew cannot grow and stops odours
- Unique inner basket design increases efficiency and life of unit
- 12 oz. container treats 900 cu. ft. area

STA 85412

Star brite No Damp
Hanging Moisture Absorber Bag



- Eliminates mildew and other musty odours
- Helps prevent damage & stains caused by excess airborne moisture
- For use in any enclosed area

STA 85470	14 oz
STA 85472	Bulk package, 25 units

Forespar Tea Tree Power

Mold, mildew & odour eliminator is formulated especially for marine use. Blended using 100% Australian tea tree oil, it maintains healthy air quality and leaves a subtle, naturally clean scent.

- Non-toxic and bio-degradable
- Exceptional antiseptic and antimicrobial properties
- Attacks and degrades airborne spores and penetrates porous boat surfaces to eliminate the odour source
- Also an effective mold cleaner and mildew cleaner strong enough to tackle the damp marine environment



FRS 770201	2 oz gel
FRS 770202	4 oz gel
FRS 770203	8 oz gel
FRS 770207	8 oz spray bottle

Sea-Dog Ceramic Heater



- 12VDC 12.5 amps. 150 watts
- Black ABS housing, clam packed
- Comes with a 5-1/2' cord that plugs into a 12 volt power socket
- Base pivots and rotates and can be attached with Velcro strips
- H: 4-5/16" x W: 5-5/16" x D: 3-1/16"

SED 450150-1

Caframo PALI BilgeSafe Heater



The Pali BilgeSafe Heater utilizes a self-regulating PTC heating element that cannot overheat. These units meet all ignition protection standards to allow them to be safely used in the bilge compartment. Red LED indicates when unit is running and heating the engine compartment.

- Utilizes an internal hermetically sealed thermostat to turn the heater on at 45°F (7°C) and off at 65°F (18°C)
- 120V AC, 60Hz
- Cord Length: 20' with grounded plug
- Material: Aluminum, fire retardant ABS and PPS plastic
- Output Heating Power: 400 Watts
- Dimensions: H: 5" x W: 9" x D: 5"
- 2 year warranty

CAF 9510CA-BBX 300T

Caframo Compact Heater



- 120VDC
- Built in thermostat
- Steel construction, low profile design
- 3 heat settings (600, 900 and 1500 Watt)
- Option of a 'fan only' setting & anti-freeze setting
- Made in Canada
- 5 year limited warranty
- L: 11" x W: 9.5" x H: 4.5"

CAF 9206CABBX

Caframo Mini Heater/Defroster



- 12VDC, 100 watts. 340 BTU's/HR
- @12VDC: 8.3 amps
- PTC ceramic element
- Instant heat, defrosts windows and warms hands and feet, safely
- Install with either a sure-grip suction cup or the permanent screw-down base
- Comes with lighter plug adapter and 5' lead wire
- H: 4.7" x W: 6.7" x D: 2.5"
- One year warranty

CAF 9303

Caframo OEM Defogger



- Co-designed by Caframo and Beneteau, to be tailored to the specific needs of BJT's Merry Fisher line of boats
- Can clear a 2m x 1m windshield in under 5 minutes, with two speed options
- Automatic shut off after 5 minutes
- Can be built into varying duct work
- Hose outlet: 55mm (2-3/16")
- Draw: Speed 1 = 37.5A, Speed 2 = 39.5A
- 12V
- H: 14.21" x W: 9.69" x D: 6.02"

CAF 9601OEMBBX

Air Heater Kits

Bison Forced Air Diesel Furnaces

The powerful, quiet, efficient Bison heaters are capable of running smoothly despite harsh environmental conditions. The low energy consumption keeps you warm without having to worry about usage. Two adjustable operating modes, plus a fan-only mode.

General Components
Bison 2200A 2.2kW/7000 BTU

Compact forced air diesel furnace. Basic kit also comes with controller, 1m of 60mm air duct, one register, fuel pump, 7m of fuel line, fuel pickup tube, wiring harness, air intake tube, and 1m of 24mm s/s exhaust tube.



- Output: 2.2 kW / 7,000 BTU
- Fuel Usage (L/hr): .01 - .28
- Power Consumption 12V: .58A - 2.83A
- Boat Range: 20' to 28'
- Dimensions: L: 12.21" x W: 4.53" x H: 4.8"
- Weight: 5.95 lb

GEN GC6314	12V, with OLED digital thermostat
GEN GC6325	12V, with analog controller

General Components
Bison 4000A 4kW/13000 BTU

Compact forced air diesel furnace. Basic kit also comes with controller, 1m of 90mm air duct, one register, fuel pump, 7m of fuel line, fuel pickup tube, wiring harness, air intake tube, and 1m of 24mm s/s exhaust tube.



- Output: 4 kW / 13,000 BTU
- Fuel Usage (L/hr): .11 - .51
- Power Consumption 12V: .67A - 2.83A
- Boat Range: 24' to 34'
- Dimensions: L: 14.61" x W: 5.51" x H: 5.91"
- Weight: 9.92 lb

GEN GC6328	12V, with OLED digital thermostat
GEN GC6329 *	24V, with OLED digital thermostat

* Special Order

General Components
Bison 5000A 5kW/17000 BTU

Compact forced air diesel furnace. Basic kit also comes with controller, 1m of 90mm air duct, one register, fuel pump, 7m of fuel line, fuel pickup tube, wiring harness, air intake tube, and 1m of 24mm s/s exhaust tube.



- Output: 5 kW / 17,000 BTU
- Fuel Usage (L/hr): .27 - .62
- Power Consumption 12V: 1.25A - 7.92A
- Boat Range: 30' to 38'
- Dimensions: L: 16.73" x W: 5.83" x H: 6.38"
- Weight: 13 lb

GEN GC6338	12V, with OLED digital controller
GEN GC6339 *	24V, with OLED digital controller

* Special Order

General Components
Thermostat Controllers



GEN GC6636	OLED digital thermostat
GEN GC0611	Analog controller



General Components
Walrus 5000C/17000 BTU Heater



This advanced heater is specifically designed to provide efficient and reliable heating for boats and marine vessels, delivering consistent warmth even in the harshest maritime conditions.

- Supports both diesel or gasoline fuel
- Marine grade components including stainless steel hardware
- Complete kit includes mounting bracket, hardware, fuel pump, fuel line, wiring harness, exhaust pipe with muffler, coolant pump, screws, clamps, and straps (thru-hulls will need to be purchased separately)
- Output: 5 kW / 17,000 BTU
- Fuel Usage (L/hr): .27 - .62
- Power Consumption 12V: 2.17A - 4.42A
- Dimensions: L: 8.78" x W: 3.39" x H: 5.98"
- Weight: 5.73 lb

GEN GC6331	12V, with OLED digital thermostat

General Components
Miscellaneous Accessories

GEN GC0076	Plastic fuel tank, 10L L: 15-1/2" x W: 3" x H: 15-1/2"
GEN GC0091 *	50-70mm or HAS36 hose clamp
GEN GC0095	L-shaped mounting bracket, all models
GEN GC0097	Remote temperature sensor
GEN GC0099	12V glowpin, Bison 5000
GEN GC0187	Inline fuel filter
GEN GC0222	12V glowpin, Bison 2000 / 4000
GEN GC0223	24V glowpin, Bison 2000 / 4000
GEN GC0486	38mm exhaust pipe, 1m length
GEN GC0500	Fuel damper, Bison 2000 / 4000 / 5000, Walrus
GEN GC0524	24V glowpin, Bison 5000
GEN GC0811	24mm - 38mm exhaust pipe coupler
GEN GC0821	T/H fitting, 38mm, 45° base, straight conn.
GEN GC0901	12V fuel meter pump w/ damp, Bison 2K/4K/5K
GEN GC5004 *	24mm x 1m exhaust tubing
GEN GC5017	Silicone heat reistant sleeve, 38mm, 1m
GEN GC5046	T/H fitting, 38mm, 90° base, 135° conn.
GEN GC6312	24V fuel pump
GEN GC6552	Deluxe installation kit, Bison 4000/5000

* Special Order - may have stock

General Components
Basic Marine Kits

Come with stainless steel thru-hull, exhaust elbow with drain, muffler, 1m 60mm or 90mm air duct, tee fitting, extra outlet, and clamps.
Items included in kits are marked † below (Note: ducting separated by size/model)


GC6351

GEN GC6351 Basic installation kit, 60mm, Bison 2200
GEN GC6352 Basic installation kit, 90mm, Bison 4000/5000

Exhaust Parts 24mm 2200, 4000, 5000


GC0556


GC5045


GC0804


GC0806


GC5013


GC0079


GC6301

GEN GC0556 Thru-hull fitting, 24mm, 45° base, straight connector
GEN GC5045 † Thru-hull fitting, 24mm, 90° base, 135° connector
GEN GC0804 † Stainless steel exhaust muffler, 24mm, with clamps
GEN GC0806 Exhaust elbow with drain, 24mm
GEN GC0807 † Exhaust elbow with drain, 24mm. Slitted for muffler
GEN GC5013 Silicone heat resistant sleeve, 24mm, 1m
GEN GC0079 Air intake silencer, 24mm
GEN GC6301 † Exhaust P-clamp, 24mm

Ducting Parts 60mm for Bison 2200


GC5008


GC0086


GC0093


GC0084


GC5010


GC0088


GC0089


GC0604/5006


GC6311

GEN GC5008 Air ducting Y-connector, 60mm
GEN GC0086 † Air ducting T-joint fitting, 60mm
GEN GC0093 Air duct elbow, 60mm
GEN GC0084 † Air duct outlet, 60mm
GEN GC5010 Air outlet with adjustable louver, 60mm
GEN GC0088 Air duct adapter, 60mm to 90mm
GEN GC0089 Straight connector, 60mm
GEN GC0604 † Air ducting, 60mm, 1m length
GEN GC5006 Air ducting, 60mm, 5m length
GEN GC6311 † Stainless steel air duct clamp, 60mm

Ducting Parts 90mm for Bison 4000/5000


GC0087


GC0094


GC0085


GC5011


GC0825


GC0088


GC0090


GC0630/5007


GC6310

GEN GC0087 † Air ducting T-joint fitting, 90mm
GEN GC0094 Air duct elbow, 90mm
GEN GC0085 † Air duct outlet, square, 90mm
GEN GC0825 Air duct outlet, circle, 90mm
GEN GC5011 Air outlet with adjustable louver, 90mm
GEN GC0088 Air duct adapter, 60mm to 90mm
GEN GC0090 Straight connector, 90mm
GEN GC0630 † Air ducting, 90mm, 1m length
GEN GC5007 Air ducting, 90mm, 5m length
GEN GC6310 † Stainless steel air duct clamp, 90mm

Maintenance Kits

GC6119


GEN GC6100 For Bison 2200 12V
GEN GC6119 For Bison 4000 12V
GEN GC6120 * For Bison 4000 24V
GEN GC6116 For Bison 5000 12V
GEN GC6117 * For Bison 5000 24V

* Special Order - may have stock

► *Also See* Muffler Tape pg 09-048

DOMETIC



EXPERIENCE THE EFFICIENCY AND RELIABILITY OF THE PROHEAT X30 MARINE HEATER

31,000 BTU VARIABLE OUTPUT DIESEL FIRED COOLANT HEATER

Proheat X30 utilizes advanced technology to reliably and efficiently provide consistent heat in challenging marine environments. X30's programmable controller manages the heater intelligently to ensure all heat zones are well maintained while achieving low fuel consumption, and clean combustion. X30 is compact, measuring at less than one cubic foot in size, with flexible mounting options to fit your specific installation requirements. Combining new innovative technologies and over 25 years of experience, the Proheat X30 is truly the next generation smart heater.

CLEAN COMBUSTION

X30's unique oxygen sensing technology allows the heater to consistently maintain its fuel to air ratio for optimum combustion. This allows the heater to always burn clean with no visible smoke and, as a result, provides a longer maintenance cycle.

TRUE VARIABLE HEAT OUTPUT

X30 automatically varies its heat output between 15,000 and 31,000 BTU/hr. to:

- Manage the coolant temperature to ensure consistent heat is delivered throughout all heating zones
- Adjust to changing heat demand
- Save fuel

MULTIPLE ZONE TEMPERATURE CONTROL

X30 supports multiple zone temperature controls:

- Up to 4 individual temperature zones
- Occupants can turn the X30 On/Off from each zone by a simple press on the Proheat thermostat

FLEXIBLE CONNECTIVITY

X30 offers flexible connectivity that includes:

- CAN bus support for CAN device communication
- Up to 6 available analog inputs and outputs for device monitoring and control

SPECIFICATIONS	
Rating	15,000 to 31,000 BTU/hr. (2.9 to 9.1 kW)
Operating Voltage Range	10 to 30 VDC
Power Consumption	90W Max (7.5A @ 12 VDC, 3.8A @ 24VDC)
Fuel Consumption	0.1 to 0.31 Gal/hr. (0.4 to 1.17 L/hr.)
Coolant Flow (Minimum)	3.0 Gal/min (11.4 L/min)
Coolant Temperature (At Heater)	150 to 185° F (65 to 85° C)
Operating Temperature Range	-40 to 185° F (-40 to 85° C)
Operating Altitude Range	0 to 15,000 Ft (0 to 4,572 M)
Fuel Types	Diesel (ULSD #1, #2 and Arctic Blend), Kerosene (K-1), Jet (A, A-1 and JP8), Biofuels (Up To B20)
Ignition Type	Electronic Spark Ignition
Heat Exchanger Capacity	0.36 quart (0.34 litre)
Weight Heater Only With Enclosure	36 lbs (16.3 kg) 44 lbs (20 kg)
Dimensions - Heater (L X W X H)	12.3 X 10.2 X 9.9 inches (312 X 256 X 251 mm)
Dimensions - Enclosure (L X W X H)	13.25 X 11.25 X 11 inches (337 X 286 X 279 mm)



Proheat X30

Heater Only

Order the appropriate kits to complete your installation.

PRO MH0300

Heater and Installation Kit

Includes installation kit

PRO MH0310



Proheat X30 Heater Installation Kit

- Fuel line with shut off valve
- Fuel pick up and fittings
- Hardware (bolts, nuts, washers)
- Fuse and rocker switch
- Switch and power harness
- Electrical connectors
- ABYC H33.8 , SAE J1527

PRO MK3000



Proheat X30 Heater Exhaust Kit

- Thru hull exhaust
- 10 ft stainless steel flex exhaust pipe
- Exhaust elbow with drain
- Clamps
- Kit does not include exhaust insulation (Sold separately)

PRO MK3010

Proheat X30 Accessories:

PRO MK3020	Exhaust pipe insulation kit
PRO PK3002	Aluminum enclosure
PRO 149600K	Sound reduction kit



Proheat Function Controller

The controller allows heater control, programmable timers, system status indication, and interface to accessory products. It is simple and intuitive to use with illuminated display and large buttons for easy operation in all conditions.

- Set multiple days and times for operation
- LCD display with back-light
- Status and diagnostic display
- Networks with other X30 accessories
- Field upgradable
- Supports J1939 CAN Bus
- Illuminated buttons

PRO PK3000



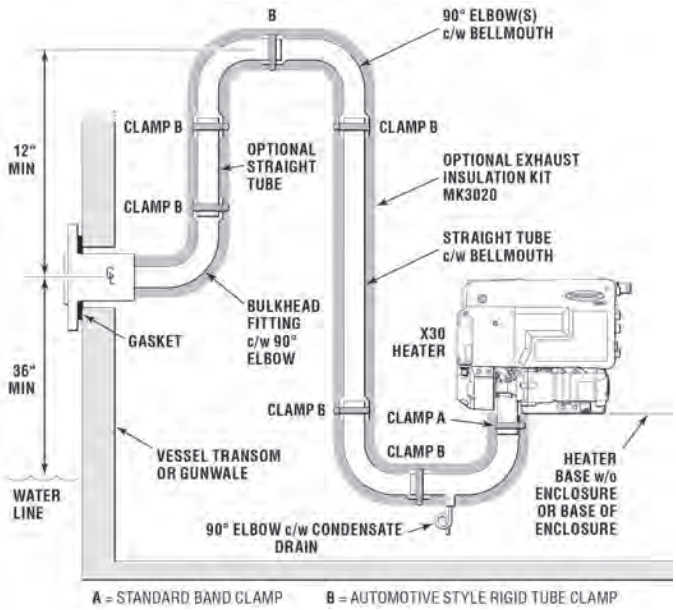
Proheat Zone Thermostat

Works with X30 heaters to maintain consistent temperature in up to 4 different zones. A button on the thermostat allows the operator to turn the X30 heater on or off from any zone.

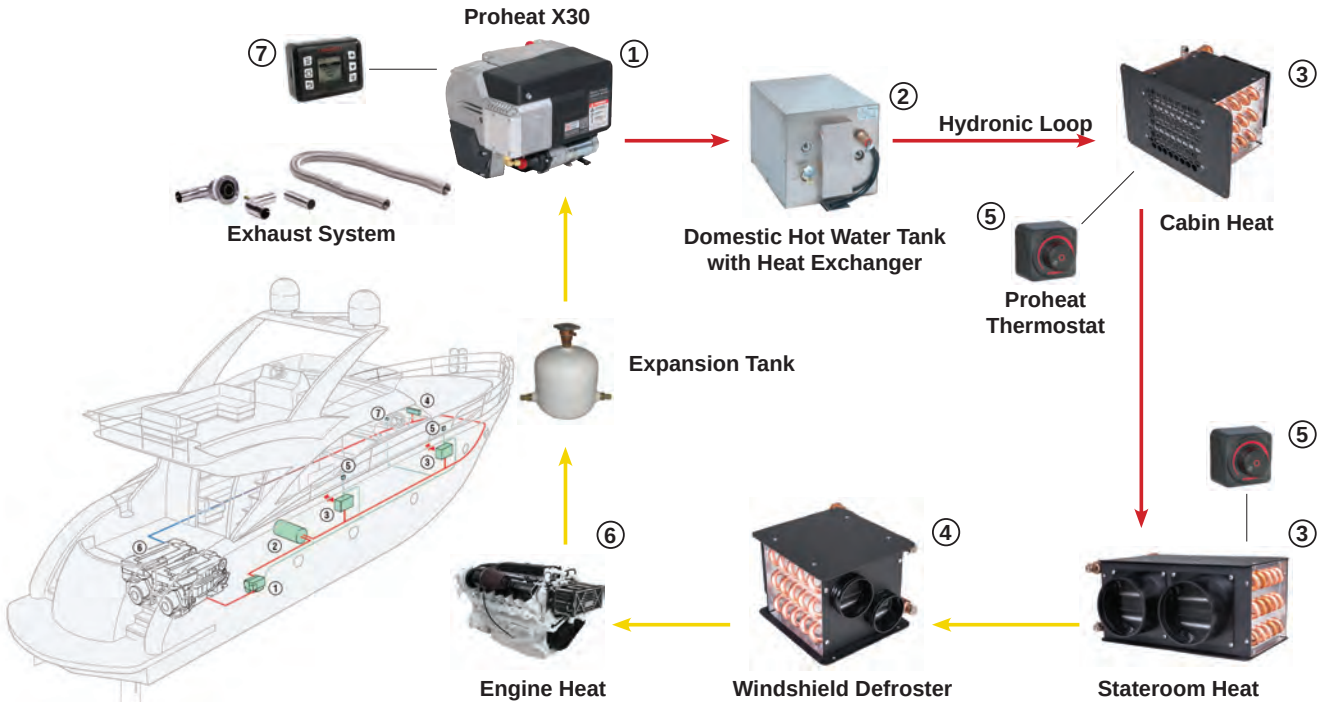
- Easy to operate rotary knob
- LED indicator
- Networks with other X30 accessories
- Field upgradable
- Large display
- Four different temperature controls
- Sleek design

PRO PK3001

MK3010 - Typical Exhaust Installation



Marine Heater System Overview



MSR

Marine Hydronic Air Heaters

GRILL OUTLET

MSR Grill Fan Heaters

- Picture frame surface mount
- Black powder coat grill with standard built-in air vent fitting



MSR 903-12V Grill
8,000 BTU @ 180°F 3 GPM flow
103 CFM Flow



MSR 909II-12V Toe Space Grill
7,000 BTU @ 180°F 3 GPM flow
103 CFM Flow

SINGLE OUTLET

MSR Single Outlet Fan Heaters

These single air grill equipped heaters provide quiet even heat in sleeping and other areas.

- Optional two speed control switch available
- Standard 3/4" FPT connections
- Complete with 7' ducting, clamps and air grills



MSR 302-12V 3" outlet
3,500 BTU @ 180°F 3 GPM flow
66 CFM Flow



MSR 914-12V 4" outlet
8,000 BTU @ 180°F 3 GPM flow
103 CFM Flow



MSR 919-12V 3" outlet
8,000 BTU @ 180°F 3 GPM flow
103 CFM Flow



MSR 941-12V 4" outlet
16,500 BTU @ 180°F 3 GPM flow
206 CFM Flow

► **Note** *All heaters also available by request in 24V*

Marine Hydronic Air Heaters

TWIN OUTLET

MSR Twin Outlet Fan Heaters

Dual air outlets allow heating of two adjacent small staterooms or stateroom and marine head compartment. The two air flow adjustable air grills allows heating balance at a touch of the air flow louver.

- Optional two speed control switch available
- Standard 3/4" FPT connections
- Complete with 7' ducting, clamps and air grills



MSR 905-12V 2.5" outlets
8,000 BTU @ 180°F 3 GPM flow
103 CFM Flow



MSR 942-12V 4" outlets
16,500 BTU @ 180°F 3 GPM flow
206 CFM Flow



MSR 905HC-12V 2.5" outlets
8,000 BTU @ 180°F 3 GPM flow
454 CFM Flow



MSR 922-12V 3" outlets
26,000 BTU @ 180°F 3 GPM flow
257 CFM Flow

TRIPLE OR MORE OUTLETS

MSR Triple or More Outlet Heaters

- Optional two speed control switch available
- Standard 3/4" FPT connections
- Complete with ducting, clamps and air grills





Rear

MSR 923-12V 2.5" outlets
26,000 BTU @ 180°F 3 GPM flow
257 CFM Flow



MSR 942C-12V 4 x 2" & one 4" outlets
9,700 BTU @ 180°F 3 GPM flow
224 CFM Flow

► Note *All heaters also available by request in 24V*



001-395



397



398



SWITCH

MSR Accessories

MSR 001-395	Burp tank
MSR 001-398	Horizontal tank
MSR 397	Vertical tank
MSR 911.36-12V	2 speed switch w/mount plate, Yellow
MSR 911.70-12V	2 speed switch w/mount plate, White
MSR 911.1R-24V	1/resistor 2 speed switch
MSR 911.2R-24V	2/resistor 2 speed switch

MSR Fan Heaters

Part #	Hose	Outlets	Fans	Air Flow GFM	Max Btu @180'	H x W x D
MSR 909II-12V	Grill	-	2	103	7,000	3.75" x 11.75" x 9", Cutout: NA
MSR 903-12V	Grill	-	1	103	8,000	6.63" x 9.38" x 7.88", Cutout: 5" x 7"
MSR 302-12V	3"	1	1	66	3,500	4.125" x 6" x 8"
MSR 914-12V	4"	1	1	103	8,000	5.5" x 11.5" x 13"
MSR 919-12V	3"	1	1	103	8,000	5.75" x 7" x 8.5"
MSR 941-12V	4"	1	2	206	16,500	5.75" x 13" x 8.5"
MSR 905-12V	2.5"	2	1	103	8,000	5.75" x 7" x 8.5"
MSR 922-12V	2.5	2	1	257	26, 000	5.5" x 11.5" x 13"
MSR 942-12V	4"	2	2	206	16,500	5.75" x 13" x 8.5"
MSR 923-12V	2.5"	3	1	257	26,000	5.5" x 11.5" x 13"
MSR 905HC-12V	2.5"	2	1	454	8,000	5.75" x 8" x 12"
MSR 942C-12V	2 & 4"	5	2	224	9,700	5.75" x 15.5" x 12"

All heaters also available by request in 24V

General Components Ducting Parts

60mm

GEN GC5008	Air ducting Y-connector, 60mm
GEN GC0086	Air ducting T-joint fitting, 60mm
GEN GC0093	Air duct elbow, 60mm
GEN GC0084	Air duct outlet, 60mm
GEN GC5010	Air outlet with adjustable louver, 60mm
GEN GC0088	Air duct adapter, 60mm to 90mm
GEN GC0089	Straight connector, 60mm
GEN GC0604	Air ducting, 60mm, 1m length
GEN GC5006	Air ducting, 60mm, 5m length
GEN GC6311	Stainless steel air duct clamp, 60mm


GC5008


GC0086


GC0093


GC0084


GC5010


GC0088


GC0089


GC0604/5006


GC6311

90mm

GEN GC0087	Air ducting T-joint fitting, 90mm
GEN GC0094	Air duct elbow, 90mm
GEN GC0085	Air duct outlet, square, 90mm
GEN GC0825	Air duct outlet, circle, 90mm
GEN GC5011	Air outlet with adjustable louver, 90mm
GEN GC0088	Air duct adapter, 60mm to 90mm
GEN GC0090	Straight connector, 90mm
GEN GC0630	Air ducting, 90mm, 1m length
GEN GC5007	Air ducting, 90mm, 5m length
GEN GC6310	Stainless steel air duct clamp, 90mm


GC0087


GC0094


GC0085


GC5011


GC0825


GC0088


GC0090


GC0630/5007


GC6310

Dickinson Radex Hot Water Fan Heaters



Utilizes waste water heat produced by a water cooled engine or any circulating hot water source to generate forced air heat. High quality stainless steel construction. Self contained units include either single or double high efficiency 12V fans and illuminated rocker switches. Flush mount frame or side mount brackets sold separately. Rear exit fitting: 3/4" O.D. copper tubing.

Part #	BTU Hour	Air Flow (CFM)	Fans	Amps	Dimensions W" x H" x D"
DIC 00-RAD-1	12,000	100	one, 12V	0.74	10-3/8 x 7 x 5
DIC 00-RAD-2	24,000	200	two, 12V	1.48	16-7/8 x 5 x 5

Parts:

DIC 22-001	Radex 1 & 2 side mount kit
DIC 22-002	Radex 1 frame mount kit
DIC 22-003	Radex 2 frame mount kit
DIC 01-041	12V fan only

Red Dot Auxiliary Fan Heaters



Versatile and maintenance-free. Round tube and fin design allows heater mounting in any position, using our multi-position leg brackets or flush mount frame. The compact size, simple plumbing and high output are ideal in any application. Spot-welded, steel plate construction finished in a decorative, chip resistant black paint. Use with fresh water cooling systems only. Comes complete for floor or bulkhead mounting. Two speed fan motor. Rear exit fittings: 5/8" hose barb.

Part #	BTU/ hour	Air Flow (CFM)	Motor (s)	Current Draw (Amps)	Weight	Dimensions W" x H" x D" Case (overall)
RED R-254-0	16000	150	One, 12V	3.3	7 lbs	9-1/4 x 6-3/4 x 3-3/4 (7-1/4")
RED R-254-0-24	16000	150	One, 24V	1.7	7 lbs	9-1/4 x 6-3/4 x 3-3/4 (7-1/4")
RED R-255-10	30000	280	Two, 12V	6.6	12 lbs	16 x 6-3/4 x 3-3/4 (7-1/4")
RED R-255-10-24P	30000	280	Two, 24V	3.3	12 lbs	16 x 6-3/4 x 3-3/4 (7-1/4")

Parts:

RED RD-5-10491-24P	24V motor only F/(254/255OP)
RED RD-5-10491-0P	12V motor only F/(254/255OP)
RED RD-5-8641-1P	12" fan upgrade kit 24V
RED RD-3133-9P	Fan only (254/255)
RED RD-1-0355-0P	Heater core (254/256)
RED RD-5-13268-1P	R255-0 Blower motor bracket

► *Also See* Heater Hose pg 10-007



Heater Craft 200 Series Fan Heaters

The 12V, 28,000 BTU/hr, two vent heater is easily vented to the bow or rear seating areas while the second vent can be ducted to the drivers seat.

Technical Specifications:
- 28,000 BTU Heater with 45 degree face
- 8% faster due to the 45 degree face without increasing amp draw or motor size
- Takes up 5% less space allowing more versatility during installation
- 3% Lighter than previous models
- Amperage (12V): Low 4.4, Med 5.8, High 8.5
- Amperage (24V): Low 2.4, Med 2.8, High 4.5
- Max. Est. BTU/h: 28,000
- Air Flow: Low 230 cfm, Med 228 cfm, High 263 cfm
- Hose barb: 5/8"



Included in the 200 Series system:
- One heater unit with wire harness
- One high/low switch with indicator assembly
- Two 3" fixed euro vents
- 3" vent hose (6' per vent)
- Universal mounting brackets & screws
- Heavy duty wire ties
- Detailed installation manual

HCM 200-COM 12V
HCM 200-COM-24 24V



Heater Craft 200 Series Sport Fan Heater

All the same technical specifications of the 200 Series above.

Included in the Sport System:
- One heater unit with wire harness
- One high/low switch with indicator assembly
- One hot tube & one fixed louver
- 3" vent hose (6' per vent)
- Universal mounting brackets & screws
- Heavy duty wire ties
- Detailed installation manual
- Heater Craft backs the product with our 4/48 limited warranty (4 years/48 months)
- W: 9.4" x H: 6.4 x D: 8.6"

HCM 200-SPORT 12V



Heater Craft 300 Series Fan Heaters

The 40,000 BTU/hr, three vent heater is easily vented to bow and rear seating areas while the third can be ducted to the drivers seat.

Technical Specifications:
- 40,000 BTU Heater with 45 degree face
- 8% faster due to the 45 degree face without increasing amp draw or motor size
- Takes up 5% less space allowing more versatility during installation
- 3% Lighter than previous models
- Amperage: Low 4.4, Med 5.8, High 8.5
- Max. Est. BTU/h: 40,000
- Air Flow: Low 230 cfm, Med 228 cfm, High 263 cfm.
- Hose barb: 5/8"

Included in the 300 System:
- One heater unit with wire harness
- One high/low switch with indicator assembly
- 3" vents
- 3" vent hose (6' per vent)
- Two 6' sixteen-gauge wire
- Universal mounting brackets & screws
- Heavy duty wire ties
- Detailed installation manual
- Heater Craft backs the product with our 4/48 limited warranty (4 years/48 months)
- W: 16 x H: 6.5 x D: 9.5

HCM 300-COM 3 fixed vents, 12V
HCM 340-COM 4 fixed vents, 12V
HCM 340-COM-24 4 fixed vents, 24V

Heater Craft 12V Defroster Kit

12V electric marine single speed defroster kit with single speed switch is meant to keep fog and frost off of your windows. The 1002HC Kit can change the air temperature by 7 degrees.
- 20A @ 12VDC
- 500 BTU/hr
- 240W
- W: 6" x D: 9" x H: 5.5"



Unit Includes:
(1) 1002H 12 volt heater unit
(1) 3" euro louver
(1) 6' x 3" vent hose
(1) Switch
(1) Hardware kit

HCM 1002-HC



Heater Craft 400 Series Sport Fan Heater

The 12V, 40,000 BTU/hr grilled vent heater is easily vented to bow or rear seating areas. 3% lighter, 5% smaller, and 8% faster due to the new 45° face without increasing AMP draw or motor size.

Technical Specifications:
- 40,000 BTU heater with all new 45 degree face
- 8% faster due to the new 45° face without increasing AMP draw or motor size
- Takes up 5% less space allowing more versatility during installation
- 3% lighter than previous models
- Amperage: Low 4.4, Med 5.8, High 8.5
- Max. Est. BTU/h: 40,000
- Air Flow: Low 230 cfm, Med 228 cfm, High 263 cfm.
- Hose barb: 5/8"

Included in the 400 System:
- One (1) flush mount heater unit (grill face) with wire harness
- One (1) high low switch with indicator assembly
- Two (2) 6' sixteen gauge wire
- Minor hardware kit
- Detailed installation manual
- Heater Craft backs the product with a 4/48 limited warranty: (4 years/48 months)
- W: 16" x H: 6.5" x D: 9.5"
- Cut out size: 6-3/4" x 16" rectangle

HCM 400-SPORT 12V



H509B

Heater Craft Parts

HCM E112	4 pos. rotary switch for 200, 300, 400 & 500H units
HCM E-113-B	4 pos. rotary switch mounting plate for E-112
HCM H202	200/500 heater core (2005 & newer)
HCM H301	300/400 heater core (2005 & newer)
HCM H401 **	Hose & fitting kit, 25' of 5/8" hose with clamps and all the pipe fittings required to connect to the engine
HCM H-501-3	3" I.D. vent hose (sold by the foot)
HCM H-503	3" "Y" fitting
HCM H-504-B	Eurovent - Black
HCM H509B	Hotube vent - Black
HCM H-205 **	Heater fan wheel
HCM 2-8000	24V fan assembly H207
HCM 2-1193	12V fan assembly H207
HCM 2-1195	3/4 H fan/motor assembly
HCM 2H20CWS	Wrapper for blower motor



H-504-B

** While Stock Lasts



E112



E-113-B



H-503



H401



2-1195

Dickinson Lofoten Heaters



- Rectangular, floor mounted heater
- For boats 36 ft-40 ft
- Similar to the Antarctic in performance but with a larger top area and a cast-iron lid providing a top cooking surface

DIC 00-LOF Diesel oil heater/12V fan
DIC 00-LOF-12-1T * Same with 1/turn coil
Parts:
DIC 02-019 * Diesel metering valve
* Special Order

W x D x H	10.75" x 17" x 18"
Flue Size	4" / 10.16 cm
Weight	31 lbs
Material	Stainless steel
Fuel	Diesel (kerosene optional)
Heat Output	Low 6500 BTU, High 16250 BTU
Burner	6" / 15.2 cm Airflow
Draft Assist Fan	Standard
Valve Code	2 Diesel / 1 Kerosene

Dickinson Alaska Diesel Heater



- Small, compact, floor , mounted diesel heater
- For boats 30 ft-36 ft
- Economical diesel burning fireplace producing comfortable dry heat
- 12 volt assist fan

DIC 00-ALA *
* Special Order

W x D x H	8.75" x 10" x 20.5"
Flue Size	3" / 7.6 cm
Material	Stainless steel body and top
Heat Output	Low 6500 BTU High 16250 BTU
Burner	6" / 15.2 cm 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Hot Water Coil	Optional (1turn)
Weight	22 lbs

Dickinson Antarctic Diesel Heaters



- Large floor mounted diesel heater
- Boats 36 ft-40 ft
- Dry comfortable heat and large flame viewing window
- Manufactured in stainless steel
- For larger cabins and live a boards
- 12 volt assist fan

DIC 00-ANT * Standard
DIC 00-ANT-12-1T * With one turn hot water coil
Parts:
DIC 05-060 * Window glass
* Special Order

W x D x H	13" x 14" x 25"
Flue Size	3" / 7.6 cm
Material	Stainless steel body cast-iron top
Fuel	Diesel (stove oil or kerosene)
Heat Output	Low 6500 BTU, High 16250 BTU
Burner	6" / 15.2 cm 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Hot Water Coil	Optional (1 or 2 turn)
Weight	27 lbs

Dickinson Newport Diesel Fireplaces



- Bulkhead mounted diesel fireplace
- Ideal for boats 30-36 ft
- Should be mounted as low as possible on the bulkhead to provide dry, comfortable heat convection and to provide good natural draft Manufactured in stainless steel
- 12 volt assist fan

DIC 00-NEW Standard
DIC 00-NEW-12-1T * With one turn hot water coil
* Special Order

W x D x H	8.5" x 10.5" x 19.75"
Weight	22 lbs
Flue Size	3" / 7.6 cm
Material	Stainless steel body & top
Fuel	Diesel (stove oil or kerosene optional)
Heat Output	Low 6500 BTU, High 16250 BTU
Burner	6" / 15.2 cm 'Airflow'
Operation	Natural draft
Draft Assist Fan	Standard
Valve code	3 (D, S or K)

Dickinson Newport Propane Fireplaces



- Easy to install and easy to use
- Unaffected by wind
- Large glass viewing area
- Safe direct venting
- Safe manual ignition
- Stainless steel back panel
- 28" flexible vent pipe, deck fitting, blower fan & flue cap included

*Low pressure regulator required (not included)

DIC 00-NEW-P9000
DIC 00-NEW-P12000
Parts:
DIC 19-000 28" flue extension kit
DIC 19-150 Low pressure regulator with mounting bracket for 1 lb disposable propane bottles

	00-NEW-P9000	00-NEW-P12000
W x D x H	8.5" x 5.5" x 14"	10" x 7.25" x 16"
Weight	15 lbs / 6.82 kg	22 lbs / 10 kg
Flue Size	2.5" OD double wall / 28" long	
Material	Stainless steel body	
Voltage	12 Volt / 0.17 amps	
Heat Output	Low 5500 BTU	Low 7000 BTU
	High 7500 BTU	High 9700 BTU

Dickinson Newport Solid Fuel Heater



- Small heater designed for casual use
- Burns wood, charcoal briquettes and coal
- Removable ash drawer and damper control
- Mounting brackets included
- 12 volt assist fan

DIC 00-NEWSF

W x D x H	7.88" x 10" x 14.75"
Flue Size	3" / 7.6 cm
Weight	12 lbs
Material	Stainless steel body & top
Fuel	Charcoal briquettes, wood fire logs, solid fuels.

► *Also See* Diesel Stoves pg 05-013 to 014

Dickinson Newport Explorer Propane Fireplace



- Easy to install and easy to use
- Efficient and safe, with an air-tight, direct vent system that ensures the combustion process is isolated from the living space
- Thermally isolated
- Push button ignition
- ABYC approved for marine, and CSA/AISI approved for home and recreational vehicle use
- Stainless backing plate, 28" flexible double stainless chimney, and wind resistant deck fitting cap are included (chimney guard not included)

*Propane hose, 11" WC regulator, and fittings are required - sold separately

DIC 00-NEW-EXPLORER
Parts:
DIC 19-162 11" 2 stage regulator with fittings
DIC 19-000 28" flue extension kit
PRP I4C120FS6FS6 10' x 3/8" propane hose

W x D x H	10.75" x 8.25" x 17"
Weight	22 lbs
Flue Size	2.5" / 6.35 cm
Material	Stainless steel body & top
Heat Output	Low 3200 BTU, High 4700 BTU
Fuel Consumption	Low 7 hr, High 5 hr (using 1 lb tank)

Dickinson Heatex



- Utilizes the heat produced by your stove's exhaust
- Install the Heatex in place of your stovepipe and run the hoses to the area to be heated
- All stainless steel construction
- Complete with 100 cfm 12V fan

DIC 00-HEA3 * Use with 3" flue
DIC 00-HEA4 * Use with 4" flue
DIC 00-HEA5 * Use with 5" flue
* Special Order - may have stock

Dickinson Chimney Pipe



- Use as first piece of pipe from top of heater or stove
- Barometric damper to decrease draft
- 304 stainless steel with 1" crimp for connecting on side
- 3" x 24"

DIC 16-001

Dickinson Diesel Heater Parts

DIC 01-996H 24V Speed control with switch & housing
DIC 01-998 12V Speed control only
DIC 01-998H 12V Speed control with switch & housing
DIC 01-999H 12V Fan with housing (LOF/ANT)
DIC 01-999-NEWALA 12V boxer fan (NEW/ALA)

Solvable Clear Lamp Oil



- Paraffin-based lamp oil
- Produces a bright flame and burns without smoking
- Designed for use in wick feeding lamps or lamp candles

SOL 14-673-710ML 710 ml

Solvable Kerosene

SOL 14-534-3.78L
SOL 14-538-18.9L



► *Also See* Methyl Hydrate pg 07-028



Rear Mount Heat Exchanger



Front Mount Heat Exchanger



Side Mount/Front Heat Exchanger

Kuuma Water Heaters

Equipped with 5/8" hose barbs for optional heat exchanger connection, and 1/2" NPT threaded ports for domestic hot and cold water allowing easy installation. Complete with ignition protected controls. Uses shore power when plugged in at the dock, and engine heat when available.

- Corrosion resistant, TIG-welded aluminum inner tanks
- Aluminum exterior jacket
- 120V-60Hz/1500W
- T&P Valve: 150psi @ 210°F, CSA
- ETL and CE certified
- Wiring Configuration: L1 & N
- Front/rear/side mounting plates

Part #	Heat Exchanger	Gallons	W x D x H
KUU 11810	Front w/ Side Mount	6	15.625" x 19.375" x 13.625"
KUU 11811	Front	6	15.625" x 19.375" x 13.625"
KUU 11812	Rear	6	15.625" x 19.375" x 13.625"
KUU 11840	Front w/ Side Mount	11	18.875" x 16.25" x 21.625"
KUU 11841	Front	11	16.625" x 23.25" x 16.25"
KUU 11842	Rear	11	16.625" x 23.25" x 16.25"
KUU 11870	Front	20	18.875" x 20.75" x 29.75"

Parts:

KUU 11533 Magnesium anode with drain, 1/2"
KUU 11553 * Magnesium anode only, 1/2"
KUU 11916 Magnesium anode with drain, 3/4"
* Special Order

Kuuma Parts

KUU 02158 240V 1500W screw heat element
KUU 02858 120V 1500W screw heat element
KUU 06822 Gasket for 02158 / 02858 elements
KUU 10473 T&P valve 3/4" 4" probe, 150 PSI
KUU 11921 240V high temp limiter, H20 Heaters
KUU 11930 Thermostat, H20 Heaters



Isotherm
Dual Heat Exchanger S/S Water Heater

The Basic 40 has a dual engine heat exchanger. The double coil is sometimes used by boaters who have hydronic heating to maximize use of the heating. They are often used in conjunction with two engines such as a main engine and a generator to take advantage of the surplus heat provided by two separate sources.

- 11 gallon capacity
- 115V/750W with mixing valve & dual heat exchanger
- Brushed stainless steel cover
- 316-grade stainless steel inner tank
- Water inlets and outlets are specially designed to minimize the mixture of cold and hot water
- Optimizing the position of the engine water heat exchanger/ electrical immersion heater achieves the highest capacity
- Comes standard with a temperature control safety mixing valve
- L: 25" x D: 16"
- 45 lbs

ISO 604023BD00003



Isotherm Isotemp Slim Square Stainless Steel Water Heater

The Isotemp Slim Square s/s heater comes with an innovative internal design. It achieves highest capacity by optimized installation of the engine water heat exchanger as well as the immersion heater.

- 115V/750W with mixing valve
- Brushed stainless steel cover and 316-grade stainless steel inner tank
- Extra-long, corrugated coils for high heat exchange efficiency
- Electrical plug and play immersion heating element, especially designed to heat also the water at the bottom of the tank
- Ultra-thick insulation for lowest temperature loss
- Comes standard with a special 5.0 bar/70 psi safety valve
- Thermostat mixing valve protects against scalding and delivers consistent temperatures at the faucet
- Standard 750W immersion heating element quickly heats water, but will not overload generators or dock breakers
- Adjustable mounting for easy installation on deck or bulkhead
- 5 year limited warranty
- W: 7.25" x H: 16.75" x D: 23.25"
- 35 lbs

ISO 601623QX00003 4.2 gallon

Isotherm Spa Water Heaters - With Mixing Valve

- Includes a safety mixing valve to extend the volume of hot water and protect against scalding
- Outer casing made of high quality polypropylene
- Stainless steel AISI 316 inner tank
- 6 bar safety valve
- Extra thick insulation for high performance
- 1/2" water connections
- Rated to 6 bar pressure





Shown with safety mixing valve

Part #	Type	Volume (Gal)	Dia x L"	Weight (lbs)	Power
ISO 6P1523SPA0003	SPA 15	4	12.4 x 19	16	750W/115V
ISO 6P2023SPA0003	SPA 20	5.3	12.4 x 23	18	750W/115V
ISO 6P2523SPA0003	SPA 25	6.5	12.4 x 27	21	750W/115V
ISO 6P3023SPA0003	SPA 30	8	15.4 x 24	26	750W/115V
ISO 6P4023SPA0003	SPA 40	11	15.4 x 26	29	750W/115V

Parts:

ISO SEE00014HA	750W 110V Heating element for Basic and SPA water heaters larger than 24L
ISO SEE00023HA	1200W 110V Heating element for Basic and SPA water heaters larger than 24L
ISO SFD00011AA	Mixing valve for use on all Isotemp models
ISO SDF00025AA	Water heater gasket holds the water in the tank for all BASIC and SPA line Isotemp water heaters

Torrid IX Series Water Heaters

- The IX high efficiency heat exchanger is built into the inner tank and allows the water to be heated by the coolant from the engine, hydronic heating system or generator
- Glass lined inner tank is much like a "thermos" container, which reduces exposure of the hot water to other metals
- Foam insulated for excellent R-value and efficiency
- Incoloy sheathed stainless steel elements that eliminate dry fire and protect against chlorinated water from shore side sources
- Magnesium anodes to prevent galvanic corrosion inside the tank
- Adjustable thermostats
- Temperature and pressure relief valves, pressure relief at 100 PSI and temperature relief at 210 F(98.9 C) - USCG approved
- 1500W/120V element (MVS6IX240/1500 and MVS30IX240/1500 have 240V element)
- Each marine water heater goes through an extensive quality control and pressure check before shipping
- 304 Stainless steel outer jacket
- UL Listed parts
- Ignition protected
- 5-year warranty



MVS6IX120/1500



MHS6IX120/1500

IX Series - Horizontal			
Part #	**US GAL**	**Install Length**	**Height**
TOR MHS6IX120/1500	6 (25L)	21-1/2"	14-1/2"

IX Series - Vertical			
Part #	**US GAL**	**Height**	**Diameter**
TOR MVS6IX120/1500	6 (25L)	17-1/4"	14"
TOR MVS6IX240/1500 *	6 (25L)	17-1/4"	14"
TOR MVS10IX120/1500	10 (40L)	17-3/4"	16"
TOR MVS17IX120/1500	17 (65L)	28-1/4"	16"
TOR MVS20IX120/1500	20 (75L)	23"	20"
TOR MVS30IX120/1500	30 (114L)	31"	20"
TOR MVS30IX240/1500	30 (114L)	31"	20"

* Special Order - may have stock

Parts:





TOR TL200	Thermostat
TOR TA12	Pre-2017: MV6-15, MV17/20 side only, MH6/10 2017+: MV6-20, MV30 side only, MH6/10
TOR TA18	Pre-2017: MV17/20 top only, MV30-80 side only, 2017+: MV40 side only
TOR TA24	Anode for MV30 top only, MH17
TOR TP100-210	Temp/Pressure valve, vert
TOR TP100-210L	Temp/Pressure valve, horiz

Whale Water Heaters

An economical, combination electric/engine heat exchanger, water heater. Heats water quickly from the 120 volt-1500 watt, 13" electric element while on A.C. power or from the heat exchanger from the engine's cooling system while under way. Hold down brackets are welded directly to the aluminum tanks. Comes complete with a temperature pressure relief valve, temperature & pressure drain tube and are ignition protected.

- Domestic water ports: 1/2" IPT
- Heat exchanger: 5/8" hose barbs
- Re-settable 190° high limit switch
- UL & CE approved
- Rear heat exchangers have the 5/8" engine fittings on the back side
- 1 year limited warranty


S300EW


S300W


S700


S1900

Part #	Heat Exchanger	Gallons	W x D x H	Exterior Material
WHA S300W	Side	3	13" x 9" x 13"	White Epoxy coated aluminum
WHA S300EW	*ELECTRIC ONLY*		Same as above with no heat exchanger	
WHA S600	Rear	6	13" x 19" x 13"	Galvanized steel
WHA S600W	Rear	6	13" x 19" x 13"	White Epoxy coated aluminum
WHA F600	Front	6	13" x 19" x 13"	Galvanized steel
WHA F600W	Front	6	13" x 19" x 13"	White Epoxy coated aluminum
WHA F700	Front	6	13" x 19" x 13"	Stainless steel
WHA S700	Rear	6	13" x 19" x 13"	Stainless steel
WHA S1100	Rear	11	16" x 22" x 16"	Galvanized steel
WHA F1100	Front	11	16" x 22" x 16"	Galvanized steel
WHA S1200	Rear	11	16" x 22" x 16"	Stainless steel
WHA F1200	Front	11	16" x 22" x 16"	Stainless steel
WHA S1900	Front	20	20-1/4" x 20-1/4" x 27"	Stainless steel
WHA HF-2200	Front	20	16" x 32" x 16"	Stainless steel

Parts:

WHA 73129	Thermostat
WHA 74031	120V heating element
WHA 74032	240V-1500W heating element
WHA 74563	High limit switch 120 volts
WHA 74556	Magnesium 3/4" anode
WHA 75974	Pressure relief valve
WHA 80336	120V to 240V conversion kit


73129


74031


74563


74556

Whale 12 Volt Water Heater



An electric only 12V water heater is ideal for outboards or remote mounting. The neat design of the water heater means it can fit in compact spaces and electric only means installation is no longer tied to the engine room. The water heater has a rapid heat up time with hot water in less than an hour and is highly efficient with heat retention of up to 10 hours.

- 12V power supply - No generator / inverter/ shore power required
- 30A draw
- Ideal for use with deck showers
- Low current switching
- Integrated temperature and pressure valve
- Thermal cut-out
- Heating Indication output
- Ignition protected (ABYC E-11)
- Compact 3 gallon design - Fits in small places
- Connection: 1/2" NPT Female
- H: 13.78" x W: 13" x D: 10.47"
- Weight: 15 lb

WHA S360EW

Whale Thermostatic Mixer Valve



Temperature adjustable with integral non return valves on the supply side. Installed in conjunction with water heaters to control the maximum temperature of water at the tap or shower. Factory set at 43 degrees C. 1/2" BSP external threaded ports accept Whale System 15 fittings. Nickel plated brass body, stainless steel and heat resistant plastic internals.

WHA WX1599B

Dometic Green Turbo GTX Air Conditioner

The Green Turbo GTX units are now equipped with low GWP refrigerant and designed from the inside out with multiple patented innovations, continuing to evolve with even more enhanced design features and options.

- R454B low GWP refrigerant
- Increased efficiency
- Special coating on the evaporator coil helps shed water more quickly, minimizing corrosion
- Channels in drain pan guide water directly to multiple drain locations, regardless of boat's heeling angle
- Blower can rotate up to 270°
- Robust titanium condenser
- Dual frequency; accepts 50 or 60 Hz
- 115 VAC

NEW



Part #	BTU	Duct	Height	Width	Depth	Amps	Weight
CRS 205454012	12,000	6"	12.2"	20.4"	12.4"	35	62 lb
CRS 205454016	16,000	7"	13.3"	21.5"	13.3"	40	66 lb

Accessories:

CRS 298100100 Display Cable, 25'
CRS 298100101 Display Cable, 50'

Dometic VMD 2.5 Thermostat Display

NEW



- High resolution touchscreen display
- Smooth and fast response
- Remote air/humidity sensor
- Screen layouts are generously spaced for access without accidental button presses
- Drop in upgrade for select controls
- Optional bezel available
- 8 pin display cable
- Cutout: H: 1.81" x W: 2.9"
- H: 2.87" x W: 4.31" x D: 1.37"

CRS 222000267 Display
CRS 222000268 Display, bezel, and 6 to 8-pin adapter kit

Parts:

CRS 222000263 Bezel, Eikon classic
CRS 222000265 Kit, install adapters
CRS 298100100 Cable, 25'
CRS 298100101 Cable, 50'

DTGX Series Parts & Accessories:

CRS 222000239 Display, Q3 Marine DX
CRS CXP10 Cable interconnect, 10'
CRS CXP30 Cable interconnect, 30'
CRS TR115 Relay trigger, 115V
CRS TR230 Relay trigger, 230V
CRS 758000006 Replacement, TO-3 TRIAC (A548)
CRS 335884 ** Ring mounts 5"
CRS 228700012 * Ring ABS trans 5"
CRS 222130402 Temperature Sensor, RJ11 10'
CRS 763100044 3-pin plug socket adaptor
CRS SMXIIAB Control display/keypad

Pumps with Fittings

CRS 225500004 PML 250 GPH 115V 50/60HZ
CRS 225500005 PML 500 GPH 115V 50/60HZ

* Special Order - may have stock
** While Stock Lasts

DOMETIC

Guidelines For Selecting Air Conditioning For Your Boat

Step 1 Required Capacity

Divide your boat into three basic load areas:
(1) Below Deck - cabins where the hull slopes inward toward the keel and there are minimal port lights and hatches
(2) Mid Deck - areas on the main deck with small or shaded windows
(3) Above Deck - areas with large glass surfaces and direct sunlight

Measure the length and width of each room to be conditioned to determine the square footage. It is assumed that your boat has average headroom of about 6-1/2 ft. (2m) and you have an average amount of furniture. If one end of the compartment is narrower than the other, take your measurement in the middle.

Fill in the chart below with your measurements; then multiply the length by width to get the area of each. Next, determine which load factors to use from the table in figure 4, and multiply the area of each cabin by the load factor to determine the required air conditioner capacity.

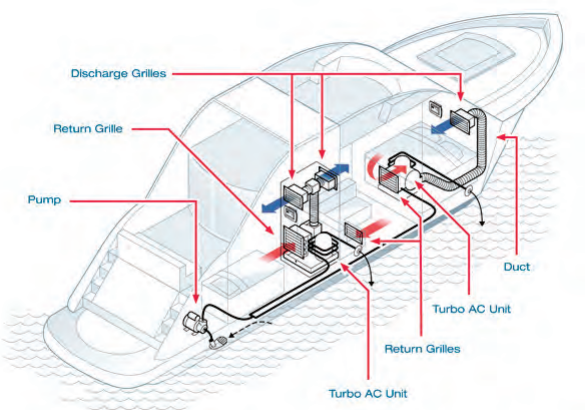
Load Calculation Worksheet

Cabin	Length (ft)	Width (ft)	Area (sq ft)	Factor	Capacity (BTU/hr)
Example for mid deck temperate climate installation below					
Mid Deck	10	10	100	90	9,000

Figure 4: Load Factors (BTU/hr per ft 2)

Climate	Below Deck	Mid Deck	Above Deck
Temperate	60	90	120
Tropical	80	120	150

Temperate: 95°F (35°C) air, moderate humidity
Tropical: 105°F (41°C) air, high humidity



Typical Installation of Two Turbo Self-Contained AC Systems

Step 2 Number of Units

The number of air conditioners and their locations will be determined by the size and layout of your boat, and the space limitations for ducting and plumbing. The typical maximum ducting run is 15 ft (4.5m), but if there are many bends then the overall length must be reduced to ensure good airflow.
Also consider which areas require independent thermostat control, and which cabins will be served by ducting or a secondary air handler (where the only temperature control is by reducing airflow with an adjustable grill or fan speed control).

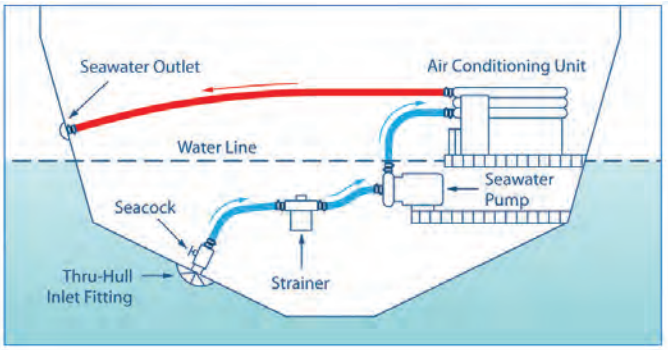
Step 3 Location

As in step 2, the location of the units will be determined by your boat layout. Check the appropriate specification sheet for unit sizes, and make sure that there is sufficient space to service the unit and remove if necessary.
The self-contained unit or air handler must have an open return air path, and be located such that the discharge ducting can be routed to a high point in the cabin. The return air grill does not need to be directly in front of the unit, in fact, the system will be less noisy if there is an indirect path for the return air to follow. Most units have blowers that rotate which will allow routing the discharge duct in the most direct path to reduce restrictions.

Step 4 Seawater Components

It is normally recommended that you use one pump of adequate capacity for all of the air conditioning systems on board. The rule of thumb is to have 250 gallons per hour (4gpm) of water per ton of air conditioning (one ton is 12,000 BTU/hr). If more than one Cruisair system shares a common pump, you will also need a pump relay and manifold.
The table below shows recommended seawater flow rates and minimum inlet (through-hull) for a system of a given capacity.

System Capacity (BTU/hr)	Seawater Flow Rate (gph)	Inlet Size
5-12,000	250	1/2"
16-24,000	500	3/4"
30-48,000	1000	1"



Star brite
CERAMICS
SiO₂ TECH

The NEW Star brite Ceramics line offers long-lasting results that are unbelievably durable.



- UNMATCHED LONGEVITY
- MINIMIZED MAINTENANCE
- ULTIMATE UV PROTECTION
- EXTREME WATER BEADING

Unbelievable Performance ‹ › Unparalleled Protection

Star brite
STAR TRON

RUN IN SEASON
WITH STAR TRON FUEL TREATMENT



STORE OFF SEASON
WITH STAR TRON STABILIZER+



ASK OUR EXPERTS

STARBRITE.COM

Caulking, Adhesives, & Sealants		06-002 to 012
Tapes		06-012 to 013
Resins		06-014 to 020
Lubricants & Lubricant Pumps		06-020 to 026
Fuel Treatments & Fogging Oil		06-027 to 029
Anti-Freeze & Test Tank Cleaner		06-029
Boat Care	Salt Corrosion Control	06-029
	Trac Ecological	06-030
	Aqua-Tek / Awesome / Awlgrip / Boat Bling / Boatlife	06-030 to 033
	Davis / Ecomar / Flitz / Hyseas / Meguiar's	06-033 to 035
	Mirka / Osborne / Protocol / Shurhold / Smell Zapper	06-035 to 036
	Spray Nine / Star Brite / Super Tuff	06-036 to 039
	3M	06-039 to 040
	303, Wash Safe	06-040 to 041
Glass, Plastic, & Metal Cleaning		06-041 to 043
Skin Care		06-043
Cleaning Supplies	Polishing Pads / Polishers	06-044 to 047
	Brooms / Brushes / Mops	06-047 to 051
	Sponges / Spray Pumps / Rags	06-051 to 053
	Buckets / Hoses / Nozzles	06-053 to 055
	Water Treatment	06-056
	Winterizing	06-056
Anodes	Canada Metal / Electro-Guard	06-057 to 070
	Maddox	06-071

Choose the Right Sealant for Each Job.

	Life-Calk	Life Seal	Silicone Rubber	Teak Deck Sealant	Polyurethanes
Metal to Wood (Deck and Hull Hardware)	E	G	S	G	G
Metal to Fibreglass (Deck and Hull Hardware)	E	E	G	E	G
Wood to Fibreglass (Wood Trim)	E	G	S	G	G
Wood to Wood (Wood Trim)	E	G	S	E	S
Deck Seams (Teak, Other Woods)	E	NR	NR	E	NR
Underwater Wooden Boat Hull Seams	E	NR	NR	NR	S
Deck to Hull Joints	E	E	E	E	E
Thru-Hull Fittings-Fibreglass Boat	E	E	G	G	E
Thru-Hull Fittings-Wooden Boat	E	S	S	S	E
Glass to Metal (Windshield)	E	E	E	E	G
Glass to Fibreglass	E	E	E	E	G
Glass to Wood	E	E	E	E	G
Glass to Vinyl	NR	E	E	S	S
ABS and Lexan Plastics to Fibreglass	NR	E	E	S	NR
ABS and Lexan Plastics to Wood	NR	E	S	E	NR
Plastic Hardware to Fibreglass	NR	E	G	G	NR
Plastic Hardware to Wood	NR	E	S	S	NR
Electrical Insulation	G	E	E	E	S
Rubrails to Fibreglass	E	E	S	S	NR
Rubrails to Wood	E	G	S	E	NR
Sandability	E	NR	NR	E	S
Paintability	E	NR	NR	NR	G
Chemical Resistance	E	S	S	E	S
Gluing/Adhesion	E	S	S	G	E
Cure Rate*	Med	Fast	Fast	Fast	Slow
Years of Approximate Shelf Life**	1-1/2	1	1	1/2	1/2
Years of Life Expectancy	20	20	20	20	8

E Excellent | G Good | S Satisfactory | NR Not Recommended for This Application

LIFE-CALK®
One part Thiokol® based polysulfide sealant and bedding compound. Cures to a positive waterproof seal - stays seaworthy for years. Sandable, paintable, twists, bends, expands, compresses. Bonds tenaciously to wood, fibreglass, glass, and metal. Will not harden, shrink, crack, or dry out. Use above or below the waterline.

LIFE-SEAL®
Designed specifically for fibreglass boats. The adhesion of polyurethane and the flexibility of silicone. Excellent for ABS®, Lexan®, Delrin®, Nylon® and all other plastics. Outstanding performance on fibreglass, metal, glass, and wood. Permanently flexible, non shrinking, non cracking, fast curing. Use above or below the waterline.

MARINE SILICONE RUBBER
Non-corrosive formula. Low odour. No shrinkage, no cracking, no dryout and non-yellowing. Contains the highest grade silicone polymers. Superior flexibility and adhesion to fibreglass, plastic, metal and wood. Use above or below the waterline.

TEAK DECK SEALANT
Fast curing one-part deck seam sealant. Sandable formula permits a smooth finish. Great adhesion to teak and other woods. Compatible with teak cleaners and finishes. Will not shrink, crack, or dry out. Flexes with deck. Resistant to cleaners and fuel. No primer needed. Use above the waterline.

POLYURETHANE ADHESIVE/SEALER
Permanent adhesive sealant. No shrinking. Paintable. Use above or below the waterline. For permanent installations only.

Consider that polyurethane does not lend itself to removal when choosing a sealant.

* Note: All curing times subject to atmospheric conditions.

** Note: Shelf Life may be affected by method of storage.

BoatLIFE Life-Calk Polysulfide Sealant

A one-part Thiokol polysulfide that cures to a positive waterproof seal. Resists oil, gas, brine, weather and most chemicals to stay seaworthy for years. Bonds to wood, fibreglass, metal, plastic and glass.

BOA 1305	30 ml	White
BOA 1030	83 ml tube	White
BOA 1031	83 ml	Black
BOA 1032	83 ml	Mahogany
BOA 1037	83 ml	Teak Brown
BOA 1033	315 ml cart	White
BOA 1034	315 ml	Black
BOA 1035	315 ml	Mahogany
BOA 1036	315 ml	Teak Brown



BoatLIFE Liquid Life-Calk Polysulfide Sealant

For sealing the finest cracks and seams Liquid Life-Calk is the only liquid type sealant that does not shrink when cured. It flows into the smallest cracks and seams and stays. It cures to a firm bond with the same lifetime adhesion as the regular Life-Calk.

BOA 1052	83 ml tube	White
BOA 1055	83 ml tube	Black



BoatLIFE Teak Deck Sealant

A one part fast curing teak deck seam sealant. It provides outstanding waterproofing and sealing qualities to wood decks made of teak and other woods. Teak Deck Sealant is fast skinning (30 minutes) and fast curing (24 hours). It combines the ease of use of a one part sealant with the outstanding performance of silicone rubber. The product is applied in a normal fashion and sands clean after curing to provide a smooth finish. It is unaffected by BoatLIFE Teak Cleaners and Teak Oils. It is also non-corrosive, so it can be used on any metal fittings on deck. The product remains flexible, and does not shrink, crack, or dry out.

BOA 1252 315 ml cartridge, black



BoatLIFE Life Seal

A fast skinning (10 minutes) and fast curing (24 hours) polyurethane/silicone adhesive sealant. Designed specifically for fibreglass boats. Permanently flexible, non-shrinking. Outstanding adhesion to fibreglass, glass, plastic and wood. Can be used above or below water line.

BOA 1109	38 ml tube	Clear
BOA 1160	83 ml tube	Clear
BOA 1161	83 ml tube	White
BOA 1162	83 ml tube	Black
BOA 1169	315 ml cart	Clear
BOA 1170	315 ml cart	White
BOA 1171	315 ml cart	Black
BOA 1172	315 ml cart	Aluminum



BoatLIFE Life-Calk Primer

Improves adhesion of both one-part and two-part Life-Calk, especially on oily woods, teak and steel. Life-Calk Primer is a clear, fast-drying liquid and easy to apply.

BOA 1059 230ml (8 oz)



BoatLIFE Life-Calk Solvent and Cleaner

General purpose solvent removes uncured polysulfide sealant and grease from tools and equipment. Ideal for the preparation of seams for caulking.

BOA 1056 473 ml (Pint)



BoatLIFE Empty Caulking Cartridge

These 315 ml empty cartridges complete with end plungers provide a mess-free method of applying 2-part caulking compounds.

BOA 1120



BoatLIFE Silicone Rubber

An all-purpose, non-yellowing, low odour silicone. Tack free in 30 minutes and fully cured in 1 hour. Use above or below the water line.

BOA 1110 Clear 38 ml (1 oz) tube



BoatLIFE Release Adhesive & Sealant Remover

Formulated to remove cured or uncured silicone, polyurethane, and adhesives. Good for clean up on hands, tools and equipment. Will not harm metals, fibreglass, gel coat, glass, plexiglass, etc.

BOA 1288 473 ml (16 oz)
BOA 1291 29 ml (1 oz)





SikaFlex - A NAME BOAT OWNERS AND BUILDERS TRUST ALL AROUND THE WORLD

Product Selection Guide for Sika Canada Inc. Sikaflex® Marine Products

Product	Description	Application	Advantages
Sikaflex 265	High-performance, elastic, gap-filling, one-part polyurethane adhesive .	Designed for direct glazing applications in both the OEM and repair markets, and is suitable for use with mineral-glass-based windows.	▪ One-part formulation ▪ Excellent working characteristics ▪ Fast cure time and low odour ▪ High Green Strength ▪ Excellent Sag Resistance ▪ Resistant to aging and weathering ▪ Solvent and PVC-free
Sikaflex 290 DC PRO	Weather-proof deck caulking sealant.	Used exclusively for the caulking of joints in traditional timber-strip decking in boat and yacht building.	▪ Non-corrosive ▪ Resistant to UV light and weathering ▪ Sea water- and fresh waterresistant
Sikaflex 291	Multi-functional adhesive sealant for marine applications.	Used for sealing and light duty bonding of all hull and structural members.	▪ Cures rapidly ▪ Permanently elastic ▪ Excellent cut- and tear resistance; ▪ Salt water-resistant ▪ Adheres to a wide range of substrates, in many cases without primer.
Sikaflex 291 LOT	All-purpose marine adhesive, sealant and bedding compound.	Used for sealing and lightduty bonding; also suitable for bedding of deck hardware, hatches, port lights and other items identified for future removal.	▪ Long assembly time ▪ Permanently elastic ▪ Salt water-resistant ▪ High strength
Sikaflex 292i	Structural adhesive for marine applications.	Used for applications requiring structural bonding and sealing as well as for sealing largedimension joints.	▪ Fast cure-rate and strength build-up ▪ Bonds and seals in one step ▪ Provides a high-strength bond with elasticity for joints ▪ Eliminates need for mechanical fasteners
Sikaflex 295UV	UV-resistant directglazing adhesive for plastic glass.	Used for sealing and directglazing applications for organic glass such as PMMA where resistance to direct sunlight is required.	▪ Fast cure-rate and strength build-up ▪ Bonds and seals in one step ▪ Provides a high-strength bond with elasticity for joints ▪ Eliminates need for mechanical fasteners ▪ Primer is mandatory
Sikaflex 296	Direct-glazing adhesive for safety, laminated and insulation-glass windows in the shipbuilding industry.	Non-solvent formula used for direct-glazing applications involving inorganic glass, such as mineral-glass-based windows.	▪ Excellent working characteristics ▪ Fast cure-rate ▪ Resistant to ageing and weathering ▪ Solvent- and PVC-free ▪ Primerless application possible.

The most trusted name in marine adhesives world-wide...

Product Selection Guide for Sikaflex® Marine Products

Suitable Surfaces: Providing proper surface preparation is first carried out, all products can be applied to: Wood, Stainless Steel, PVC, ABS, Aluminium, Plastics, Glass, Painted Surfaces and Iron/Steel.

Technical Data

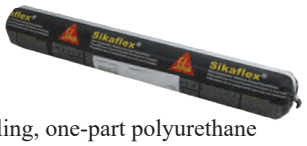
Product	Tensile Strength	Sandable	Paintable	Tack-Free Time	Non-Sag Rating	Use Below Water-Line	Application Temp
Sikaflex 265	6 N/mm²	N/A	N/A	45 minutes	Very Good	No	10 -35°C
Sikaflex 290 DC PRO	1.3 N/mm²	Yes	N/A	70 minutes	Good	No	5 -25°C
Sikaflex 291	1.8 N/mm²	Yes	Yes	60 minutes	Good	Yes	5 -40°C
Sikaflex 291 LOT	1.4 N/mm²	Yes	Yes	3 to 4 hours	Good	Yes	4 -43°C
Sikaflex 292i	4 N/mm²	Yes	Yes	40 minutes	Very Good	Yes	10 -35°C
Sikaflex 295UV	1.1 N/mm²	N/A	N/A	60 minutes	Good	N/A	10 -35°C
Sikaflex 296	6 N/mm²	N/A	N/A	45 minutes	Very Good	N/A	10 -35°C

Surface Preparation: Refer to the table below and select the appropriate surface preparation method depending upon the substrate.

Surface Preparation Guidlines

Product	Substrates	Applicator	Drying Time	Uses
Sika Aktivator-205	Metals, plastics, glazed ceramics, painted surfaces	Clean, lint-free tissue or paper towel	10 minutes to 2 hours	To clean all surfaces prior to priming or urethane application.
Sika Aktivator	Glass, ceramic-coated glass, cut face of old polyurethane adhesive beads, polyurethanecoated window glass and paint.	Clean, lint-free tissue or paper towel.	30 minutes to 2 hours	As a cleaning and activating agent specifically formulated to treat bond faces in direct-glazing work prior to the application of various Sika polyurethane adhesives.
Sika Primer-206 G+P	Glass, metal and plastics	Brush or felt pad	10 minutes to 24 hours.	On bright metal scratches; as a black-out primer when a frit is scratched or absent; on bare metal to inhibit rust.
Sika Primer-209 N	Paints: acrylics, alkyds/ melamines, baked enamels, powder coatings Plastics: acrylic (PMMA), polycarbonate, polystyrene, etc.	Brush or felt pad.	30 minutes to 24 hours	To prime painted surfaces and plastic substrates prior to bonding with Sikaflex® products.
NOTE: Always pre-test substrates for proper choice of sealant/adhesive. For detailed product and application information, please refer to the Product Data Sheet for each product. For detailed technical issues, please contact your local Sika distributor.				

Sika Canada Inc.
601 Delmar Avenue
Pointe-Claire, QC H9R 4A9
Tel.: 514-697-2610
Fax: 514-697-3087



Sikaflex 265 Direct Glazing

A high-performance, elastic, gap-filling, one-part polyurethane adhesive that cures on exposure to atmospheric moisture to form a durable elastomer. Designed for direct glazing applications and is suitable for use with mineral-glass-based windows. Because Sikaflex-265 can be tooled to a very fine finish, and because it is specifically designed for enhancing its UV resistance, it is suitable for use in exposed joints.

- Excellent working characteristics
- Fast cure time and low odour
- High green Strength
- Excellent sag resistance
- Resistant to aging and weathering
- Solvent and PVC-free

SIK 265BLK-600ML 600 ml sausage, Black

Before installing laminated safety glass windshields incorporating heating elements or radio aerials in the PVB sandwich layer, we recommend that you contact Sika's Technical Service Department for advice.

Sikaflex 291 Adhesive/Sealant/Bedding Compound

A non-sag, 1-component polyurethane sealant specifically developed for the marine market; it cures on exposure to atmospheric moisture to form a durable elastomer. Bonds extremely well to the materials commonly used in marine construction like wood, metals, metal primers and paint coatings, ceramic materials and plastics.



SIK 291WHT-300ML 300 ml cartridge, White
SIK 291BLK-300ML 300 ml cartridge, Black
SIK 291GRY-300ML 300 ml cartridge, Grey

- Easy-to-use squeeze tube

SIK 291I-BLK-70ML 70 ml tube, Black
SIK 291I-WHT-70ML 70 ml tube, White

Sikaflex 291 LOT Adhesive/Sealant/Bedding Compound

A 1-component, marine-grade polyurethane elastomeric adhesive and sealant. It is a moisture-cured, non-sag system designed with a long open time for more time-consuming installations. General, all-purpose marine sealant suitable for light-duty bonding.



- Sandable

*Not recommended as a deck seam sealer.

SIK 291LOTWHT-300 300 ml cartridge, White
SIK 291LOTBLK-300 300 ml cartridge, Black

Sikaflex 292i High Strength Marine Adhesive

A non-sag, 1-component, polyurethane adhesive that cures on exposure to atmospheric moisture to form a durable elastomer. Sikaflex®-292i exhibits excellent adhesive properties and a high degree of mechanical strength. Suitable for structural joints which will be subjected to high dynamic stresses. It is suitable for use on: metals, (particularly aluminum, including anodized finishes), metal primers and paint coatings (2-C systems), or ceramic materials and plastics.



- Bonds and seals at the same time
- Replaces rivets and mechanical fasteners

SIK 292i-WHT-300ML 300 ml cartridge, White

Sikaflex 295UV Direct Glazing Adhesive



Sikaflex-295 UV is a 1-component polyurethane adhesive of paste-like consistency that cures on exposure to atmospheric moisture to form a durable elastomer.

- Meets International Maritime Organisation (IMO)
- Used to bond and seal organic glazing materials
- Excellent UV-resistance

Suitable substrates include: aluminum (bright or anodized), GRP (polyester resin), stainless steel, timber, 2-component coatings, and organic glazing materials (PC, PMMA). Seek advice from our Technical services before using Sikaflex-295 UV on thermoformed plastics.

SIK 295UVWHT300ML 300 ml cartridge, White
SIK 295UVBLK300ML 300 ml cartridge, Black

The use of the 209N primer is strongly recommended with 295UV. Allow 30ml of primer for approximately five 310ml cartridges.

Sikaflex 296 Direct Glazing Adhesive



A high-performance, elastic, gap-filling, 1-component polyurethane direct glazing adhesive that cures on exposure to atmospheric moisture and forms a durable elastomer. Sikaflex-296 is designed for direct glazing applications, and is suitable for use with all types of mineral-glass-based windows.

- Resistant to aging, weathering and sunlight
- Solvent- and PVC-free
- Can be over-painted

SIK 296BLK-600ML 600 ml sausage, Black

Accessories:

SIK PTNOZZLE Nozzle for all the above cartridges
SIK 4137 Nozzle adapter

Sikaflex 290 DC PRO



Sikaflex-290i DC is a 1-component, UV-resistant, polyurethane-based joint sealing compound specially formulated for caulking joints in traditional marine timber decking. The sealing compound cures to form a flexible elastomer which can be sanded. Sikaflex-290i DC meets the requirements set out by the International Maritime Organisation (IMO)

- Non-corrosive
- Semi self-levelling
- UV and weather-resistant
- Resistant to seawater and fresh water

SIK 290DC-PRO-600ML 600 ml sausage, Black

Accessories:

SIK PTNOZZLE Nozzle for all the above cartridges
SIK 4137 Nozzle adapter

► *Also See* Caulking Guns pg 18-017

Sikaflex 591
Marine Multipurpose Sealant



- Fungicidal, UV-stable, Silane Terminated Polymer (STP) with excellent resistance against harsh maritime weathering conditions
- For above and below waterline applications
- Can be over-painted
- Suitable for elastic, vibration-resistant joint seals
- Compatible with non-ferrous metals, ceramic metals, & plastics
- Sikaflex -591 exceeds common environmental and safety standards, and is free of isocyanate, solvents, PVC, phthalates, and tin catalysts

SIK 591WHT-300ML	300 ml cartridge, White
SIK 591BLK-300ML	300 ml cartridge, Black
SIK 591GRY-300ML	300 ml cartridge, Grey

Sikaflex Sika Aktivator - 205



An activating agent, designed to improve adhesion. It is specifically formulated for the treatment of bond faces in direct glazing work prior to application of various Sika polyurethane adhesives.

SIK 205-250ML 250 ml

Sikaflex Sika Aktivator



An activating agent specifically formulated for the treatment of bond faces in direct glazing work prior to application of various Sika polyurethane adhesive. Surfaces: glass, ceramic-coated glass, the cut face of old polyurethane adhesive beads, polyurethane-coated windows glass and paints.

SIK 91283 250 ml

Sikaflex Sika Primer - 206 G+P



- For use on a wide variety of glass surfaces

A black, moisture-curing liquid primer specifically formulated for the treatment of bond faces in direct glazing work prior to application of Sika polyurethane direct glazing adhesives.

SIK 206G&P-250ML

Sikaflex Sika Primer - 209 N



- Improves adhesion on many plastics and paints such as GRP, epoxy resins, PVC, ABS, PMMA, PC, PS and acrylics, alkyds/melamine, powder coatings, and baking varnishes

A solvent-based black primer specifically formulated for the treatment of bond faces prior to application of Sika's 1-component polyurethanes.

SIK 209-D-250ML 250 ml

Sikaflex Sikafast 555



- Two component, fast curing, flexible, structural acrylic adhesive
- Paste like consistency allows for vertical as well as horizontal application
- Suitable for high strength fastening of concealed joints, and adheres well on different types of substrates including metals, plastics, glass, and wood
- Can replace fixations like rivets, screws, or welding
- Fixing time to reach 80% of torsional strength is 15 minutes at 23°C; tensile strength: 11 MPa (cured for 1 week at 23°C)
- Solvent and acid free, with reduced odour

Note: Suitable for experienced professional users only

SIK 571661 50 ml

Teakdecking Systems Teak Caulking



A one-part, Silane Polymer system which when exposed to moisture in the air reacts to form a tough, flexible solid rubber compound. TDS Teak Caulking is a thixotropic material that does not sag during cure, and, when cured, has excellent temperature stability and chemical resistance. Because the sealant is neutral cure, it is non-corrosive to all substrates.

- Tack free time: 20-40 minutes
- Tensile strength: 300psi
- Elongation: 350%
- Shelf life: 18 months

TDS SIS440CB	305 ml cartridge, Black
TDS SIS440CW	305 ml cartridge, White
TDS SIS440SB	600 ml sausage, Black

Teakdecking Systems Bonding Epoxy

A custom blend of high quality epoxy resins, activators and additives formulated for outstanding adhesion to common marine substrates such as fibreglass, wood, aluminum and steel. Developed as a 'tough' adhesive capable of enduring the flexing yachts undergo at sea, with special additives that enhance internal strength, bond strength and viscosity control under a variety of adverse environmental conditions.



TDS Bonding Epoxy is also DOT (US Dept. Of Transportation) certified to be non-corrosive and is designed not to harm the environment.

- 1:1 ratio, 2 gallon kit
- Approximate coverage: 30 ft^2

TDS FE180A-2G	Marine/Maximum bond
TDS FFE200-2G *	Fairing/Flexible bond

* Special Order

Adhesive Sealant Selection Chart



Sealant / Applications	5200	5200 Fast Cure	4200 Fast Cure	Fast Cure 4000UV	Silicone
	Extremely strong Non-Shrinking Permanent Bond Polyurethane	Extremely strong Non-Shrinking Permanent Bond Polyurethane	Flexible Non-Shrinking General Purpose Polyurethane	Flexible Non-Shrinking UV Resistant Polyurethane	Flexible Non-Sagging Mildew Resistant Silicone
Wood to:					
Metal (Deck/hull hardware)	Good	Good	Good	Excellent	Good
Wood (Trim)	Excellent	Excellent	Good	Good	Good
Thru-hull fastening (Wood)	Excellent	Excellent	Good	Good	Good
Glass (Sealing Only)	N/R	N/R	N/R	N/R	N/R
Lexan Plastic	N/R	N/R	N/R	N/R	N/R
Plastic hardware (ABS,Nylon)	Good	Good	Excellent	Excellent	Good
Rub Rails	Good	Good	Excellent	Excellent	Good
Fibreglass to:					
Metal (Deck/hull hardware)	Good	Good	Good	Excellent	Good
Wood (Trim)	Excellent	Excellent	Excellent	Excellent	Good
Thru-hull fastening (Wood)	Excellent	Excellent	Good	Good	N/R
Glass (Sealing Only)	N/R	N/R	N/R	Good	N/R
Lexan Plastic	N/R	N/R	N/R	Good	N/R
Plastic hardware (ABS,Nylon)	Good	Good	Excellent	Good	Good
Rub Rails	Good	Good	Excellent	Excellent	Good
Glass (sealing only) to:					
Metal (windshields)	N/R	N/R	N/R	Good	Good
Vinyl	N/R	N/R	N/R	Good	Good
Other:					
Deck to hull joints	Excellent	Excellent	Good	Good	N/R
Attributes:					
Sandable	Yes	Yes	Yes	Yes	No
Waterline Usage	Above/Below	Above/Below	Above/Below	Above/Below	Above
Chemical Resistant	No	No	No	No	Yes
Tensile Strength	700 psi	600 psi	300 psi	300 psi	220 psi
Cure Rate	7-14 Days	24 - 48 Hours	24 - 48 Hours	24 - 48 Hours	24 - 48 Hours

N/R: Not Recommended

Coverage Charts for Adhesive Sealant Products

Given the desired diameter of a bead or the dimensions of a seam, the coverage obtained from a cartridge or flex pack can be looked up in the following charts. Note that the values are calculated for "no waste." The actual coverage will be based on application technique and overfill.

Bead Diameter (inch)		Length of Bead (lineal feet)	
fractional	decimal	for 10 fl.oz.	for 400 ml
1/8	0.1250	126.2	165.7
3/16	0.1875	56.1	73.7
1/4	0.2500	31.6	41.4
5/16	0.3125	20.2	26.5
3/8	0.3750	14.0	18.4
7/16	0.4375	10.3	13.5
1/2	0.5000	7.9	10.4

Lineal Feet of Seam

Seam Depth (inch) \ Seam Width (inch)	1/8	1/4	3/8	1/2
1/8	96.2 (130.1)	48.1 (65.1)	32.1 (43.4)	24.1 (32.5)
3/16	64.2 (86.8)	32.1 (43.4)	21.4 (28.9)	16.0 (21.7)
1/4	48.1 (65.1)	24.1 (32.5)	16.0 (21.7)	12.0 (16.3)
5/16	38.5 (52.1)	19.2 (26.0)	12.8 (17.4)	9.6 (13.0)
3/8	32.1 (43.4)	16.0 (21.7)	10.7 (14.5)	8.0 (10.8)
7/16	27.5 (37.5)	13.8 (18.6)	9.2 (12.4)	6.9 (9.3)
1/2	24.1 (32.5)	12.0 (16.3)	8.0 (10.8)	6.0 (8.1)

Values given for 10 fl. oz. cartridge and 400 ml (in parentheses).

Lineal Feet of Seam

Seam Depth (inch) \ Seam Width (inch)	4	6	8	10	12
4	18.4 (25.0)	12.3 (16.7)	9.2 (12.5)	7.4 (10.0)	6.1 (8.3)
5	14.8 (20.0)	9.8 (16.3)	7.4 (10.0)	5.9 (8.0)	4.9 (6.7)
6	12.3 (16.7)	8.2 (11.1)	6.1 (8.3)	4.9 (6.7)	4.1 (5.6)
7	10.5 (14.3)	7.0 (9.5)	5.3 (7.1)	4.2 (5.7)	3.5 (4.8)
8	9.2 (12.5)	6.1 (8.3)	4.6 (6.3)	3.7 (5.0)	3.1 (4.2)
10	7.4 (10.0)	4.9 (6.7)	3.7 (5.0)	3.0 (4.0)	2.5 (3.3)
12	6.1 (8.3)	4.1 (5.6)	3.1 (4.2)	1.5 (3.3)	2.0 (2.8)

Area Coverage

Should it be necessary to cover an area with the adhesive sealant, the material should be dispensed from the container and spread with a trowel. Most trowels for spreading adhesives will have a notched edge to facilitate control of the thickness being applied. When the notch depth is known or can be measured the coverage area can be determined from the following tables. Should it be necessary to apply a solid layer of a specific thickness, take the value given in the following table and divide the area by two.

Square Foot Coverage

Package Size \ Notch Depth (inch)	1/16	1/8	3/16	1/4
3 oz. tube	1.2	0.6	0.4	0.3
10 oz. cartridge	4.0	2.0	1.3	1.0
400 ml flex pack	5.4	2.7	1.8	1.4
5 gallon pail	257	128	86	64

Square Foot Coverage

Package Size \ Notch Depth (centimeters)	0.30	0.40	0.50	0.60
3 oz. tube	0.06	0.04	0.04	0.03
10 oz. cartridge	0.20	0.15	0.12	0.10
400 ml flex pack	0.27	0.20	0.16	0.13
5 gallon pail	12.62	9.46	7.57	6.31

3M Marine 5200 Adhesive/Sealant

This high-performance polyurethane adhesive sealant becomes tack-free in 24-48 hours, and completely cures in 5-7 days with no shrinking. The seal is extremely strong, retaining its strength above or below the waterline. Stays flexible–allows for structural movement. Stress caused by shock, vibration, swelling or shrinking is effectively absorbed. Has excellent resistance to weathering and salt water. Not recommended as a deck seam sealer.



THR 05203	88 ml tube, White
THR 05205	88 ml tube, Black
THR 06500	295 ml cartridge, White
THR 06502	295 ml cartridge, Mahogany
THR 06504	295 ml cartridge, Black

3M Marine 5200 Fast Cure Adhesive/Sealant

A faster curing version of 3M 5200. This high performance polyurethane becomes tack free in one hour and fully cures in 24 hours. The seal is extremely strong, retains its strength above and below the water line. Won't sag or flow in vertical or horizontal seams.



THR 05220	88 ml tube, White
THR 06520	295 ml cartridge, White

3M Marine Grade Mildew Resistant Silicone

A high performance above the water line mildew resistant silicone that bonds to fibreglass, gel-coat, glass, metal, rubber, wood, Plexiglasss, lexan and vinyl. Seals and waterproofs. Always remains flexible. Excellent gasket adhesive. Cures in 24 hours.



THR 08017	88 ml tube, White
THR 08019	88 ml tube, Clear
THR 08027	295 ml cartridge, White
THR 08029	295 ml cartridge, Clear

3M Marine 4200 Fast Cure Adhesive/Sealant

A one-part general all-purpose polyurethane that chemically reacts with moisture to deliver flexible bonds with good adhesion to wood, fibreglass, gel-coat, plastics and metals. Paintable and sandable. Forms a watertight weather resistant seal on joints and hardware above or below the water line. Approximately half the strength of 5200 and allows for disassembly of parts.



THR 05260	88 ml tube, White
THR 06560	295 ml cartridge, White,
THR 06564	295 ml cartridge, Black

3M Marine 4000UV Adhesive/Sealant Fast Cure

Resistant to weathering, saltwater, and stresses caused by joint movement. Seals between mechanically fastened joints on wood, fibreglass, metal and most plastics above and below the water line. It is also paintable.



THR 05280	88 ml tube, White
THR 06580	295 ml cartridge, White

3M Marine Urethane Seam Sealer



- High quality, single component formula adheres well to bare metal, primed metal and painted surfaces
- Moisture curing property provides excellent performance in high heat and humidity environments
- Non-Shrinking, non-cracking, low/no odor formula remains flexible and offers superior results to solvent-based sealers
- Paintable after 30-45 minutes

THR 08365	310 ml cartridge, Beige
THR 08367	310 ml cartridge, Black

► *Also See* Caulking Guns pg 18-017

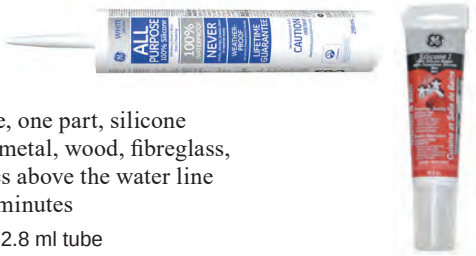
3M Heavy Bodied Seam Sealer



- Two-part epoxy for use in vertical or horizontal seams to match OEM sealers
- Helps to provide a flexible seam sealer over a wide range of temperatures with no shrinking or cracking
- Fast setup time allows technicians to continue repair procedures quicker, increasing productivity
- Non-sagging, non-flowing, and paintable in 30 minutes with a work time of 10 minutes
- Dynamic mixing; metered with dual syring cartridge eliminating difficulty and mess of manual mixing

THR 08308	200 ml
THR 58308	600 ml

G.E. Silicone



- General purpose, one part, silicone
- Bonds to glass, metal, wood, fibreglass, and most plastics above the water line
- Tack free in 10 minutes

CMP 2798879	82.8 ml tube
CMP 2769687	300 ml cartridge (interior/exterior)
CMP 2770203	300 ml cartridge

BoatLIFE Bond Breaker



- Easier to use than standard caulking cotton
- 1/8" wide cotton bond breaker prevents adhesion to bottom of deck seams

BOA 1211	50 yard roll

Life Safe Tape Butyl Caulking Tapes



- Tough rubber, pressure sensitive mass
- Excellent adhesion to a variety of surfaces
- Seal out: dirt, dust, moisture and water
- Easy to use in tape form
- Low moisture vapor transmission value
- Comes in a reusable, resealable package

LIF RE20760	Grey, 3/4" x 1/8" x 20'
LIF RE20761	White, 3/4" x 1/8" x 20'

Marine Spun Oakum



Part # 1 quality tarred jute fibres for caulking of wide or deep seams prior to cotton caulking or sealant. Not to be confused with plumbers oakum.

- Put up in 40 lb. bales
  *Sold by the pound (min.8 lbs per order)

OAK OAKUM

Simms Caulking Tube Caps



- Prevents dryout and blockage
- Airtight
- Reusable
- 2/pkg

SIM SC-101

Teakdecking Systems Reef Hook



- Use before re-caulking to remove old caulk or other flexible materials from seams
- Blade width 2.5mm
- Constructed for long service life and ease of use

TDS REEFHO

Teakdecking Systems Seam Sander

- For vertical sanding of the sides of a seam to remove old material before re-caulking
- Smooth grip
- Adjustable depth from 1/5" to 7/8"



TDS SEAMSA

Accessories:

TDS SEAMRPL Replacement strip kit, 6/pk

BoatLIFE Hot Knife



- Deck seam removal tool that cuts through old caulking like cheese
- This 110 volt tool provides a clean fresh surface for re-caulking.
- #3 - for 1/8" seams
- #4 - for 1/4" seams

BOA 1275 Hot knife unit comes/w #3 head & 12 blades
BOA 1284 Hot Knife unit comes with #4 head & 12 blades
BOA 1276 #3 head only 1/8" wide
BOA 1277 #4 head only 1/4" wide
BOA 1279 #3 blades only (12/pkg)
BOA 1280 #4 blades only (12/pkg)

3M Super 77 Multi-Surface Spray Adhesive

NEW



- Versatile adhesive bonds a wide range of lightweight materials
- Fast, aggressive tack for quick bond reduces set time
- Bonds paper, cardboard, plastic, fabric, foil, insulation, undyed leather
- Bond time of 30 seconds to 15 minutes

THR 77-NAT-EF 14.1 oz (399 g)

3M Marine Polyolefin Adhesive Promoter



- A specially formulated adhesion promoter for use when repairing low surface energy plastics such as thermopolyolefin (TPO)
- Aerosol dispenser ensures easy application
- Provides stronger adhesion to deliver excellent featheredge results

THR 05907 340g (12 oz)

3M Spray Adhesive - Hi-Strength



- Professional, industrial strength for demanding applications
- Lace spray pattern
- High strength, fast, contact type adhesive
- Bonds laminate, wood, concrete, metal, plastic and more
- High temperature and moisture resistance
- Long 1 - 10 minute open time

THR 90-24OZ-IND 24oz

3M Spray Adhesive - Hi-Tack



- High-tack spray adhesive creates strong bonds for many hard-to-hold materials, such as polyethylene and polypropylene
- Fast-tacking adhesive bonds quickly
- Variable-width lace spray pattern minimizes waste and overspray
- Low-misting property allows for precise spray control

THR 76 18.1 oz (515 gr)

Captain Tolley's Creeping Crack Cure



- Water based sealant formulated to penetrate fine cracks
- Uses capillary action to find leaks without dismantling
- Sets to a clear, flexible and waterproof seal
- Compatible with most materials, including glass, wood, and metal

CAP CTCC 64 ml (2 oz)
CAP 250-CTCC 250 ml

Gorilla Glue - 5 Minute Epoxy



- Dries crystal clear
- 5-Minute set - plenty of repositioning time
- Gap filling - fills voids and bonds uneven surfaces
- Superior water resistant - withstands moderate exposure to water
- Easy-to-use syringe - separate barrels of resin and hardener keep epoxy from hardening
- Solvent resistant
- Low VOC and non-toxic once cured
- Clamp time: 30 minutes
- Full cure: 24 hours

GOR 4200602 25 ml (.85 oz)

Gorilla Glue Wood Glue



- Complete projects faster - requires only 20-30 minutes of clamp time, and is fully cured in 24 hours
- Use indoors or outdoors - passes ANSI/HPVA Type II water resistance
- Versatile - ideal for use on hardwoods, softwoods, and natural wood composites
- Dries natural colour - offering a natural bond line
- Easy to use - it's a non-toxic, water-based, solvent free polyvinyl acetate (PVA)
- Compliant with FDA standards for indirect food contact
- Easy to clean with water
- Open Working Time: 10 minutes

GOR 6212002 118 ml (4 oz)

Gorilla Glue



- 100% waterproof
- Pure polyurethane glue
- Can be stained, painted and sanded
- Expands 3 to 4 times its size
- 20 minute working time
- Dries to a light tan colour
- Non-toxic when cured
- Acid free

GOR 5100201 59 ml (2 oz)
GOR 5100402 118 ml (4 oz)
GOR 51008T 236 ml (8 oz)
GOR 5100502 3 gr (.11 oz) each, 4/pkg

Gorilla Super Glue



- Unique rubber particles increase impact-resistance and strength
- Anti-clog tip with metal pin
- Thick formula flows better for improved control
- Dries in just 30-60 seconds, with no clamping
- Use on nearly anything, from wood to plastic, glass to metal

GOR 112381 15 gr (.53 oz) bottle
GOR 7900301 6 gr (2 x 3 gr tubes)

Super Glue GEL



Thicker and more controlled formula great for multiple surfaces and vertical applications

GOR 112441 15 gr (.53 oz) bottle

Life Safe Super Seal Tape



- Works on wet, dry, greasy or dirty surfaces
- Works on metal or plastic pipes
- Use for plumbing, electrical or emergency repairs

LIF RE3869 25mm x 4.8m

► *Also See* Electrical Tapes pg 02-136

Rescue Tape



- Self-fusing
- 700 PSI tensile strength
- Insulates 8,000 volts per layer
- Withstands 500° F of heat
- Remains flexible to -85° F
- Creates a permanent air-tight, water-tight seal in seconds
- Never gets gummy or sticky like electrical or duct tape
- Has a long shelf life
- Resists fuels, oils, acids, solvents, salt water, road salt, UV rays



RTP RT12012BBL	1" x 12' Black
RTP RT12012BRE	1" x 12' Red
RTP RT12012BWH	1" x 12' White
RTP RT12012BCL	1" x 12' Clear
RTP RT12012BYE	1" x 12' Yellow
RTP RT12012BBU	1" x 12' Blue
RTP RT12012BGN	1" x 12' Green
RTP RT12012BOR	1" x 12' Orange
RTP RT303601	2" x 36' Black
RTP RT303603	2" x 36' White
RTP RT303604	2" x 36' Clear
RTP RTUSC24AS	24 roll, assorted counter display

Tear-Aid Repair Tape





- Air & watertight - under pressure even when stretched
- Instant adhesion - with no sewing
- Elastic - conforms to irregular surfaces
- Peel & stick
- UV resistant
- Type A: sticks to canvas, most fabrics, rubber, neoprene, most plastics, nylon, fiberglass, stainless steel, aluminum, polyethylene, polypropylene and non-oiled leather
- Type B: Sticks to vinyl and vinyl-coated materials. Has unique adhesive that resists the oils in vinyl
- Kit contains: (1) 3"x12" TEAR-AID patch, (1) 7/8" square patch, (1) 1 3/8" square patch, (1) 12" Reinforcement filament for repairing tears at edges. (2) alcohol prep pads, (1) illustrated instructions and product repair list

TEA D-KIT-A01-100 Fabric, type A
TEA D-KIT-B03-100 Vinyl, type B

Counter Display



- 15 Vinyl repair kits
- 5 Fabric repair kits

TEA D-CASE-V10-005

T-H Marine Gator Patch Repair Tape

NEW



- Fibreglass reinforced patches cure in under an hour under UV light
- Easy Prep-Peel-Stick process
- Bonds securely to nearly all materials and fits flat or curved areas, dents, joints, and angles
- Watertight and impenetrable
- Can be drilled, tapped, sanded, or painted for a seamless finish

THM GP-36	3" x 6"
THM GP-318	3" x 18"
THM GP-69	6" x 9"
THM GP-912	9" x 12"

Gorilla Tape

Bonds to brick, stucco, wood and more.
Made with a double thick adhesive, strong reinforced backing and an all-weather shell to make a tough & durable tape.



GOR 6035060T 1.88" x 30 yd, Black
GOR 6101002 1" x 30 ft, Black
GOR 60124T 1.88" x 30 ft, Black
GOR 106425 2.88" x 25 yd, Black

Gorilla Tape - White



- Perfect for both indoor and outdoor use with its superior UV resistance
- Grips to rough, uneven, unforgiving surfaces like wood, stone, stucco, plaster, brick and more
- Triple layer strength
- Camouflages repairs on white surfaces; won't yellow outdoors

GOR 6025001 1.88" x 30 yd, White

Gorilla Tape - Silver



Bonds to brick, stucco, wood and more.
Made with a triple thick adhesive, strong reinforced backing and an all-weather shell to make a tough & durable tape.

GOR 6074004 1.88" x 35 yd

Gorilla Tape - Clear



The ideal solution for almost any repair, Gorilla Clear Repair Tape features the strength of Gorilla Tape in a weatherproof, airtight, crystal-clear tape. Easy to tear by hand, you can fix, patch, seal, hold and protect almost any surface with a crystal-clear appearance.

GOR 6115002 1.5" x 15 ft
GOR 6127002 1.88" x 27 ft

Gorilla Tape - All Weather



- Made with incredibly strong, permanent, butyl adhesive
- Resists drying, cracking, and peeling caused by sunlight, heat, cold, and moisture

GOR 101593 1.88" x 25 yd, Grey

Gorilla Tape - Patch & Seal



- Instantly seals out water, air, and moisture
- Extra thick adhesive layer
- UV resistant backing
- Conforms to form a permanent bond

GOR 4670002 4" x 10 ft, Grey

Gorilla Double Sided Mounting Tape



- Tough and clear and mounts in an instant, for a long-lasting, weatherproof bond
- Crystal clear adhesive won't yellow over time, and holds up to 10 pounds
- For indoor and outdoor projects and sticks to smooth and rough surface

GOR 6065102 1" x 60"

Shurtape Duck Pro General Purpose Duck Tape



- Contractor grade, co-extruded duct tape
- Service temperature range from 2°C to 93°C
- 30 day clean removal from indoor surfaces
- Will not twist or curl during application, hand-tearable, and conformable
- 8.21 N/10 mm adhesion to stainless steel
- Waterproof polyethylene film with cloth carrier

SHU PC9-48MMX55M 2"

Shurtape Duck Pro Duct Tape



- Utility grade, co-extruded duct tape
- Service temperature range from 4°C to 93°C
- Will not twist or curl during application, good conformability, and waterproof backing
- 6.02 N/10 mm adhesion to stainless steel

SHU PC6-48MMX55M 2"

Shurtape Duck Pro Professional Duct Tape



- Professional grade, UV-resistant, co-extruded duct tape
- Clean removal (indoor up to 6 months)
- Waterproof backing

SHU PC769-48MMX55M 2"

Shurtape T-Rex Waterproof & Repair Tape

NEW



- Versatile tape for indoor and outdoor fixes
- Instantly stops leaks and patches holes, seals out water and air, and even works underwater (not designed to withhold water pressure)
- Flex-to-Fit technology provides maximum stretch around objects for a tight seal
- Sticks to smooth and rough surfaces; initially repositionable

SHU RSW500-48MMX10YD 2"

Shurtape T-Rex Waterproof & Repair Tape

NEW



- General purpose indoor or outdoor
- Extra thick rubberized butyl adhesive for heavy duty waterproof adhesion, even underwater
- Made to withstand extreme weather conditions
- Temperature performance from -5°C to 60°C
- UV-resistant
- Peelable liner for ease of use

SHU WTRPRF-285987 2"

3M Tartan HD Duct Tape



Tartan silver cloth tape ia a general purpose duct tape with good adhesion and strong backing.

THR 3939-2X60 48 mm x 55 meters

3M Multi-Use Duct Tape



- Strong adhesive creates a secure bond
- Durable waterproof backing
- Suitable for both temporary and longer lasting repairs

THR 2930-C 1.88" x 30 yds, grey

► Also See Masking Tapes pg 07-036 to 037

Gelcote Repair Kits



Two Gel-coat kits to choose from:

100 Kit

- 6 bottles colourant (1/4 fl.oz.)
- 2oz. gelcote paste
- 1/4 fl oz hardener
- 2 plastic films (2.5" x 5")
- 2 mixing sticks
- 1 sheet 600 grit sandpaper
- 1/2 fl oz compound

GCI 100 6-Colour

101 Single Colour Only

- 2 oz gelcote paste
- 1/4 fl oz hardener
- 2 plastic films (2.5" x 5")
- 2 mixing sticks
- 1 sheet 600 grit sandpaper



GCI 101 White
GCI 101-B Black
GCI 101-C Champagne

Gelcoat Kits

- For a tack free finish
- Waxed

Air Dry Liquid Gelcoat Kits

- 1 x 250 ml gelcote liquid
- 1 x Application brush
- Mixing sticks
- 1 - 14 ml catalyst



100-1AD

GCI 100-1AD Clear
GCI 101-1AD White

Paste Gelcoat Kits

- 1 x 250 ml gelcote paste
- Mixing sticks
- 1 - 14 ml catalyst



100P

GCI 100P Clear
GCI 100PW White

Gelcoat Colour Pastes

Highly pigmented colour for colouring polyester resin. Use 2 jars of colour paste for each litre of Gelcote or resin. Light colours may require more colour. Use up to 15% of colour to obtain a rich, vibrant colour.

- 1 ounce (28.4 ml) jars



GCI 109-01 White
GCI 109-02 Yellow
GCI 109-04 Dark Green
GCI 109-05 Black
GCI 109-06 Red

Fiber Craft Waxed Gel-Coat

Waxed gel coat resin ideal for small or large projects and repairs.



FIB 70100 250 ml, Neutral base
FIB 70105 250 ml, White base
FIB 70106 1 litre, White base
FIB 70107 4 litre, White base
FIB 70101 1 litre, Neutral base

- Approximate coverage: 40 sq. ft. per litre
- Catalyst: 15 ml per litre (included)

*Note: White base gel-coat is recommended for white or lightly coloured finishes. Use the neutral base for darker tinting.

Waxed gelcoat is designed to cure without covering it. It is a finishing gelcoat, rather than a layup one. The wax should surface as the gelcoat cures, then be cleaned with a dewaxer.

Fiber Craft Polyester Waxed Resin

This is a high quality general purpose waxed resin that only requires the addition of the supplied catalyst to promote curing. Suitable for all marine fibreglass repair and lamination jobs. *Waxed Resin.*



FIB 70001 1 litre
FIB 70002 4 litre

D.G.

FIB 70014 18.9 litre

- Approximate coverage when used with standard 8 oz. matte: 8 sq. ft. per litre
- Catalyst: 15 ml per litre (included)

Fiber Craft MEKP Catalyst

A strong oxidizing agent conveniently packaged in plastic dispensing bottles. Supplementary stock to all polyester resin products.



FIB 70025 15 ml
FIB 70026 60 ml

FIB 70023 250 ml

D.G.

Fiber Craft Poly-Foam

A formed in place two-part polyurethane foam system with a density of approximately 2 lb. per cubic foot. An excellent material for flotation, thermal insulation, void filling, and model building. Poly-Foam will bond to most materials and expands 25 to 30 times its mixed volume.



- 2 litre kit yields approx. 2 cubic feet of foam
- 8 litre kit yields 8 cubic feet

FIB 70311 2 litre
FIB 70312 8 litre
FIB 70313 37.8 litre

Fibreglass Repair Kit

Fibreglass kit comes with 250 ml (8 oz) of resin with hardener, woven cloth, stir stick, brush and instructions.



- Cloth: 12" x 36"

GCI 102

Fiber Craft Fibreglass Mat



A composite of chopped glass fibres and emulsion binder which, when saturated with polyester resin, may be worked into complex curves and shapes. This is a medium weight material, 1 oz./sq. ft., requiring 3 fl. oz. (90 ml.) of resin per square foot for saturation.

FIB 70240	38" x 1 yd
FIB 70245	38" x 25 yd

Fiber Craft Fibreglass Cloth



A medium weight (6 oz per square foot) woven cloth.

FIB 70215	38" x 25 yd
FIB 70212	38" x 5 yd
FIB 70210	38" x 1 yd
FIB 70129	4" x 3 yd
FIB 70094	4" x 50 yd
FIB 70095	6" x 50 yd

Fiber Craft Pigment

Used to match colours on repair jobs. For use with Fibre Craft gel-coat and fibreglass resin.

- 60 ml each



FIB 70150	White
FIB 70155	Black
FIB 70165	Red
FIB 70170	Green
FIB 70175	Blue
FIB 70180	Yellow

Fiber Craft Fibreglass Rollers



For eliminating trapped air between successive laminations of fibreglass and resin. Aluminum finned roller on plated steel frame with a hardwood handle tapped for threaded broom handle extension.

FIB 70326	3/4" dia. x 3"
FIB 70328	2" dia. x 3"

System Three Resins T-88 Structural Epoxy Adhesive



T-88 is a high-performance, non-brittle, two-part epoxy adhesive designed to give superior results under adverse conditions. The adhesive may be used without modifications in normally fitted joints, and will cure in any thickness without shrinkage. T-88 is clear amber and becomes virtually invisible when varnished. T-88 exhibits outstanding adhesion and permanence on a wide variety of materials.

Recommended Uses:



Mixed at a 1:1 by volume ratio, T-88 will cure at temperatures as low as 35°F. When fully cured, it is unaffected by water, oil, kerosene, and many other chemicals. It will not stain wood and is immune to fungus and rot. T-88 is unique in that it may be applied to damp wood, provided it is worked well into the surface.

Mix Ratio by Volume.....100:100
Mix Ratio by Weight.....100:83
Tensile Strength, psi 7000
Flexural Strength, psi.....11,500
Coverage.....80 Ft 2/Gal
Gel Time @ 77°F (25°C) .....60 Minutes (100g mixture)
Full Cure @ 77°F (25°C) .....72 Hours (100g mixture)

SYS 1100K10	236 ml (8 oz) kit
SYS 1100K16	946 ml (1 quart) kit
SYS 1100K91	Universal cartridge, 250 ml (8.4 oz)†♦

†Mixing tips sold separately
♦Note: Requires a high ratio gun, 12:1 or higher (See tools)

Parts:

SYS 3661S99	Mixing tips 6/pkg

► Larger sizes available on request

System Three Resins Quick Cure-5 Epoxy



The standard quick setting "five minute epoxy" system. Mix at a 1:1 by volume ratio. Quick Cure is ideal for all small jobs requiring a strong bond and rapid cure. Quick Cure is highly water resistant but not waterproof. Quick Cure is quite thick, but is easily measured by squeezing equal sized lumps from the convenient application bottles or from the UNI cartridge.

Mix Ratio by Volume.....100:100
Mix Ratio by Weight.....100:97
Gel Time @ 77°F (25°C) .....4 - 5 Minutes (30g mix)
Tack Free @ 77°F (25°C).....5 Minutes (30g mix)

SYS 1000K10	273 ml (1/2 pt) kit
SYS 1000K14	473 ml (1 pt) kit
SYS 1000K90	50 ml syringe with 2 mixing tips
SYS 1000K91	Universal cartridge 250 ml (8.4 oz) with one mixing tip†



†Note: Requires a high ratio gun, 12:1 or higher (See tools)

Parts:

SYS 3661S99	Mixing tips, 6/pkg (for universal cartidges)

► Larger sizes available on request

SYSTEMTHREE
PREMIUM ADHESIVES & COATINGS

PRODUCT END USE CHART

Use this chart as a starting point, then refer to the individual products for a final choice.

Legend:
✓✓✓ Excellent
✓✓ Good
✓ Fair
NR Not recommended

	Laminating	Adhesive	Filleting	Fairing	Consistancy	Colour
SilverTip Laminating Resin	✓✓✓	✓	✓	✓	Pourable	Colourless
SilverTip GelMagic	NR	✓✓✓	NR	NR	Gel	Tan
SilverTip QuikFair	NR	NR	✓✓	✓✓✓	Putty	Tan
SilverTip EZ-Fillet	NR	✓	✓✓✓	✓✓	Thick Liquid	Brown
SilverTip MetlWeld	NR	✓✓✓	NR	NR	Thick Liquid	Grey
General Purpose Resin	✓✓✓	✓	✓	✓	Pourable	Colourless
MirrorCoat	✓✓✓	✓	✓✓	✓✓	Pourable	Colourless
Quick Cure	NR	✓✓✓	✓✓	✓✓	Thick Liquid	Amber
T-88	NR	✓✓✓	✓✓	✓✓	Thick Liquid	Amber
RotFix	✓✓✓	✓	✓	✓	Pourable	Amber
SculpWood	NR	NR	✓✓✓	✓✓✓	Putty	Brown

Cleanup: Lacquer thinner, Isopropyl alcohol

System Three Cold Cure Epoxy



Bonds virtually everything, including wood, metals, concrete, and non-waxy plastics in cold, wet, hot and dry weather. Cold Cure Epoxy exhibits superior strength and bonding capabilities down to 2°C (35° F) even in moist and humid conditions. Cold Cure is ideal for gluing together unlike materials such as wood to metal or to plastics. Cold Cure is an excellent gap-filler and requires no clamping. gap-filler, putty, fairing compound. Cold Cure epoxy can be mixed with a variety of manufactured fillers to increase its viscosity for filling gaps and fairing surfaces. For grouting applications, Cold Cure can be mixed with sand or cement.

SYS F1000K38 355 ml (12 ounce) kit
SYS F1000K40 710 ml (1.5 pt) kit
SYS F1000K42 1.42 litre (1.5 qt) kit

SYS F1000K46 5.68 litre (1.5 gal) kit

Mix Ratio by Volume.....100:50
Mix Ratio by Weight.....100:44
Tensile Strength, psi.....6000
Compressive Strength, psi.....12,000
Gel Time @ 77°F (25°C).....45 Minutes (100g mixture)
Full Cure @ 77°F (25°C).....72 Hours (100g mixture)

► Larger sizes available on request

Estimate How Much to Use on Your Project

The following will serve as a guide for estimating the amount of product you'll need. The key to any estimate is a reasonably accurate idea of the surface area involved. The numbers given are in square feet of coverage per gallon of mixed resin and hardener except as noted. Divide by 40 to convert figures to square meters per litre.

COATING AND LAMINATING RESINS		
Includes SilverTip, General Purpose, Clear Coat & Cold Cure.		
COATING WOOD	**FIRST COAT**	**SUBSEQUENT COATS**
Softwood Plywood/Veneer	250	400
Hardwood Plywood/Veneer	325	400
Vertical Surface-maximum non-sag	500	500
FIBREGLASSING		
(Sealer, wet-out & fill coats)		
4 ounce cloth	150	300
6 ounce cloth	130	250
10 ounce cloth	100	170
Biaxial Tape	32	40

System Three G-2 Epoxy



For over 35 years, G-2 has been an excellent adhesive choice for oily, acidic hardwoods like teak and other tropical woods. Use it for gluing oak and cedar, as well as other materials that are difficult to bond. G-2 was developed primarily for waterproof bonding of rot-resistant woods used in fine yacht joinery. Use G-2 for both interior and exterior applications as well as below the waterline. G-2 can be mixed in small or large batches, has a long pot life and cures overnight. No clamping pressure is required. After fully curing it can be machined, drilled, sanded and tapped.

SYS F1110K38 355 ml (12 ounce) kit
SYS F1110K40 710 ml (1.5 pt) kit
SYS F1110K42 1.42 litre (1.5 qt) kit
SYS F1110K46 5.68 litre (1.5 gal) kit

Mix Ratio by Volume *100:50*
Mix Ratio by Weight *100:44*
Tensile Strength, psi *6000*
Compressive Strength, psi *12,000*
Coverage @ 10 mils ..... *150 ft2/Gal (3.6 m2/L)*
Gel Time @ 77°F (25°C) ..... *40 Minutes (100g mixture)*
Full Cure @ 77°F (25°C) ..... *48 Hours (100g mixture)*

► Larger sizes available on request

System Three Resins SilverTip GelMagic



A toughened, non-sagging, two component, structural epoxy adhesive designed for superior bonding to wood and most porous materials. It is unique in that it starts as two self-leveling liquids, which form a soft, thixotropic, sag-resistant paste when mixed. Measuring is easily accomplished by either volume or weight. GelMagic requires no additional modification with fillers and can be applied to vertical and overhead surfaces without running. GelMagic exhibits exceptionally high peel strength and employs a state of the art, two-phase epoxy morphology, which creates an adhesive bond that is tougher, more resistant to embrittlement and has better elevated temperature properties than other room temperature cured epoxy adhesives. GelMagic can be post-cured up to 140°F for even greater performance.

Coverage @ 250 microns (10 mils) *150 ft2/gal*
Gel Time @ 77°F (25°C) ..... *30 Minutes (100g mix)*
Tack Free Time @ 77°F (25°C) ..... *3 Hours (100g mix)*

SYS 1230K40 710 ml (1.5 pt) kit Gelmagic kit
SYS 1230K91 190ml (6.4 oz) cartridge†

†Mixing tips sold separately, requires a high ratio gun

Parts:
SYS 3661S99 Mixing tips 6/pkg

► Larger sizes available on request

System Three Resins SilverTip Epoxy



A medium-low viscosity, liquid epoxy resin system that has been optimized for coating and reinforcing fabric saturation in wood-composite boat building. Designed for use with fibreglass, Kevlar, Dynel, and graphite as well as on bare wood. It has superior wet-out characteristics with little tendency to foam or trap air. Both the resin and hardener are nearly colourless and are used in an easy 2:1 volumetric ratio. Fillers, wood flour, and bulking agents can be combined with SilverTip epoxy.

Gel Time @ 77°F (25°C)
Fast Hardener ..... *26 Minutes (100g mixture)*
Slow Hardener ..... *60 Minutes (100g mixture)*
Tack Free Time @ 77°F (25°C)
Fast Hardener ..... *3 Hours (100g mixture)*
Slow Hardener ..... *6 Hours (100g mixture)*

SYS 0900A16	946 ml (1 qt)	Resin
SYS 0900A24	3.78 litre (1 gal)	Resin
SYS 0900B14	473 ml (1 pt)	Hardener fast
SYS 0901B14	473 ml (1 pt)	Hardener slow
SYS 0900B20	1.89 litre (.5 gal)	Hardener fast
SYS 0901B20	1.89 litre (.5 gal)	Hardener slow
SYS 0901B24	3.78 litre (1 gal)	Hardener slow

► Larger sizes available on request

System Three SilverTip Submarine Epoxy Paste



- A general use, epoxy paste compound that bonds to wet surfaces by displacing water from the substrate
- Can be applied to objects that are completely submerged
- Will cure in temperatures as low as 35°F
- Bonds to a variety of wet substrates
- Patch holes in wooden and aluminum boats

SYS 1250K16 946 ml (1 qt) kit

System Three SilverTip MetlWeld Epoxy



- A super tough epoxy adhesive designed to bond dissimilar materials such as steel, wood, and rubber
- Exhibits excellent elastic properties and superior bond strength while remaining rigid
- 100% waterproof
- Will not shrink upon curing; fills large gaps without loss of strength
- Features a convenient 1:1 mixing ratio
- Superior adhesion to brass, copper, bronze, aluminum, galvanized, stainless and mild steel, glass, wood, composite and most porous materials
- Forms permanent, non-brittle bonds with high impact and creep resistance
- Cures reliably at temperatures as low as 50°F
- Colour: Grey

SYS 1200K10 273 ml (1/2 pt) kit

System Three S-1 Epoxy Sealer



A two-part clear penetrating epoxy sealer. Mixed at a 1:1 ratio S-1 is effective at prolonging the service life of all woods, concrete, metals and fiberglass reinforced polyester.
Ready to use with no thinning required. Excellent wetting properties on most surfaces. Can be applied with a brush, roller or spray equipment.
It is completely waterproof and suitable for use above or below the waterline. S-1 is a superb undercoat primer for most paints and clear finishes featuring strong adhesion to most substrates with minimal surface preparation.
S-1 does not require sanding between coats if recoat time is less than 24 hours. Not recommended for gas tanks containing unleaded gasoline.

D.G.

SYS F1400K16	946 ml (1 qt) kit
SYS F1400K20	1.89 litre (1/2 gal) kit
SYS F1400K50	7.6 litre (2 gal) kit

► Larger sizes available on request

BoatLIFE Fix Repair Putty



1196

- Non-sagging repair putty that cures like steel
- Completely cured after 24 hours
- Can be used underwater
- Once cured, it can be drilled, tapped, sanded and painted
- It bonds to fiberglass, wood, metal, glass and concrete and is impervious to oil, gasoline, alcohol, caustic detergent and salt water oxidation
- Easy clean up with soap and water
- Heat tolerant to 300° F.
- Colour: White

BOA 1197	90 ml (3 oz)
BOA 1196	473 ml (16 oz)

Eco Marine Aluminum Repair Stick



- Cures in 45 minutes - even underwater
- Apply to wet or dry surfaces and underwater
- Cut off amount required, knead for 1-2 minutes & repair
- Can be drilled, painted and tapped

ECO 57060	114 g (4 oz)

Eco Marine Epoxy Repair Stick



- Repair anything fibreglass
- Also patches holes in glass, concrete, ceramics, metals, wood, and many plastics
- Cures in 45 minutes, just cut off amount required, knead for 1 - 2 minutes repair
- Can be drilled, sanded, painted or tapped

ECO 70560	114 g (4 oz)

Star brite
Emergency Repair Epoxy Putty Stick



Makes permanent and emergency repairs on fibreglass, wood, metal, and plastic. Easy to use - just hand knead until colour turns white and apply to damaged area. Forms tenacious bonds in minutes - even underwater. Can be sanded, painted, drilled, tapped and filed.

STA 87104	114 gr (4 oz)

Star brite
Emergency Repair Putty Stick Epoxy/Aluminum



Makes permanent or emergency repairs on aluminum boats, outdrives, fuel and water tanks and other aluminum parts. Special additives cut through oxidation and anodization to maximize adhesion.

STA 87004	114 gr (4 oz)

BoatLIFE "Git" Rot



The original cure for dry rot. A penetrating adhesive, flexible sealant that restores strength to rotted wood. By penetrating deeply and saturating rotted wood, the progress of dry rot is arrested and the subsequently cured mass is stronger than the original wood. Ideal for wood encapsulated by fibreglass such as transoms and stringers.

BOA 1063	118 ml (4 oz)
BOA 1064	473 ml (pint)
BOA 1065	946 ml (quart)

System Three Resins Rot Fix



An ultra-low viscosity, penetrating sealer for hardening and solidifying rot damaged wood.

- 100% solids formulation is low odour and solvent free
- Flows like water for superior penetration into wood and most porous materials
- Two part system features an easy 2:1 mixing ratio
- Apply by pouring or brush
- Reliably cures at temperatures as low as 35°F
- Can be used on damp wood
- Use to harden soft, "punky", wood as a base for further repair
- Seals wood permanently to prevent future moisture penetration

SYS 1500K06	89 ml (3 ounce kit)
SYS 1500K40	710 ml (24 ounce kit)
SYS 1500K42	1.42 litre (1.5 quart) kit

System Three SilverTip EZ-Fillet



EZ-Fillet is a wood flour-filled two-part putty specifically designed for stitch-and-glue wooden boat construction. Its ketchup-like, self-leveling consistency allows it to be measured by volume or weight. The resin (part A) is brick red in colour while the hardener (part B) is a deep, dark green. A rich brown wood tone results when the two parts are combined indicating complete mixing. The putty thickens after mixing to form an easy to spread thixotropic compound which will not run or sag.

SYS 1430K40 710 ml (1.5 pt)

► Larger sizes available on request

System Three Sculpwood Epoxy Putty Kits

SculpWood putty is a 2-component, solvent free, kneadable epoxy resin putty. It is moldable, carvable, lightweight, strong, and exhibits excellent adhesion to a variety of substrates. It is easily sanded and will accept paint, screws and nails. It is most commonly used in conjunction with System Three RotFix, a low viscosity wood sealer and consolidant.



SYS 1600K16 946 ml (1 qt)
SYS 1600K20 1.89 litre (2 qt)
SYS 1600K10 237 ml (8 oz)

D.G.

System Three Sculpwood Epoxy Paste Kits

SculpWood paste is a 2-component, spreadable, waterproof paste for filling cracks and defects in rot-damaged wood. It spreads easily; won't sag, drag or pull. An excellent companion for Sculpwood Putty where filling cracks is needed.



SYS 1610K05 118 ml (4 oz)
SYS 1610K16 946 ml (1 qt)

D.G.

System Three Resins QuikFair

QuikFair is a lightweight, micro-balloon-filled, fast-curing two-part epoxy fairing putty with excellent moisture resistance. The two colour coded parts have a non-sagging, butter-like consistency and are easily mixed to form a third colour. At 70°F, QuikFair is sufficiently cured to be hand-sanded in 3 hours or machine sanded in 4 hours. Recommended on both fibreglass and wood-epoxy boats above or below the water line.



Mix Ratio by Weight..... 100:50
Mixed Colour..... Tan
Gel Time @ 77°F (25°C)..... 10 Minutes (100g mix)
Tack Free Time @ 77°F (25°C)..... 3 Hours (100g mix)

SYS 1400K40 710 ml (1.5 pt) kit
SYS 1400K42 1.42 litre (1.5 qt) kit
SYS 1400K46 5.678 litre (1.5 gal) kit

D.G.

► Larger sizes available on request

3M Marine Vinylester Premium Filler

- Use for filling and fairing of fibreglass above and below the water line
- Exceptional water barrier
- Cures fast-sandable in 30 minutes
- Easy to sand/contains 3M Glass Bubbles
- Use for hulls, decks and other parts



46005

3MR 46005 862 gr (quart)
3MR 46006 3.54 kg (gallon)

Accessories:
3MR 05844 Assorted spreader kit 3/pkg

3M Marine Vinylester High Strength Repair Filler

- Use for filling blisters and gouges in fibreglass laminate above and below the water line
- Exceptional water barrier
- Contains fibreglass strands to restore strength when repairing and bonding fibreglass
- Cures fast
- Unique high performance filler formulated with short strand fibreglass



3MR 46013 1.06 kg

Accessories:
3MR 05844 Assorted spreader kit 3/pkg

System Three MirrorCast



- A clear epoxy casting resin designed to fill knots, cracks and voids in wood substrates with minimal shrinkage
- Can be tinted with pigment dispersions
- When cured it can be sanded, shaped and drilled

SYS 0530K40 710 ml (1.5 pt) kit

System Three Resins MirrorCoat



MirrorCoat is a pourable, self-leveling bar and tabletop coating. It works well on many surfaces such as wood, ceramics, plaster, masonry and some plastics. MirrorCoat cures to a glossy, smooth finish that is scratch and stain resistant. Cured MirrorCoat is waterproof and unaffected by alcohol.

D.G.

Mix Ratio by Volume 100:50
Mix Ratio by Weight 100:44
Coverage @1.5 mm (60 mils) 26 ft2/Gal (0.6 m2/L)
Gel Time @ 77°F (25°C) ..... 40 Minutes (100g mixture)
Full Cure @ 77°F (25°C) ..... 72 Hours (100g mixture)

SYS 0500K40 710 ml (1.5 pt) kit
SYS 0500K42 1.42 litre (1.5 qt) kit

► Larger sizes available on request

System Three Squeegees



Epoxy will not stick to these re-usable polyethylene squeegees. These can be cut and trimmed to make filleting tools and even notched with pinking shears for spreading epoxy glue over large areas.

SYS 3540S99 Small, 4" x 2-3/4"
SYS 3541S99 Large, 5-3/4" x 3-1/2"



System Three Resins Accessories

SYS 3001S99 3 oz mixing cups, 100/pkg
SYS 3003S99 12 oz mixing cups, each
SYS 3010S99 1 quart graduated tub, each
SYS 3015S99 5 quart graduated tub, each
SYS 3551K99 60 cc syringe, 2/pkg
SYS 3611S90 Mixing tips, for 50ml cartridge, 6/pk
SYS STIR-STICK Wooden stir/mixing sticks, each
SYS 3022S99 Pump for 946ml, 3.8 and 9.46 ltrs

System Three Resins Thickeners and Fillers

Silica Thickener



This material is also referred to as colloidal or fumed silica, and is an excellent thixotropic agent which is used to control the viscosity of mixed epoxy systems. Silica can be used alone for a very smooth, non-sagging, high strength mixture or combined with fillers or fibers to make them non-sagging. A 5-quart quantity of Silica Thickener when combined with 1 gallon of mixed epoxy/hardener, will produce about 1.75 gallons of a non-sagging firm paste.

- Mixing ratio: As desired up to 3:1 (thickener to resin)

SYS 3105S16 946 ml (1 qt) tub
SYS 3105S47 4.73 litre (5 qt) tub

Glass Microspheres

These bulking agents are hollow, clear microscopic spheres that make a low cost, low density filler. Added to epoxy resin and hardener mix, they make a good, heat-resistant, light-weight fairing compound with good compressive strength. Mixture can be blended with a small amount of Silica Thickener to prevent sagging. Not recommended for glue.

- Mixing ratio:1:1



SYS 3145S16 946 ml (1 qt) tub
SYS 3145S47 4.73 litre (5 qt) tub

Wood Flour

A fine sawdust that has been filtered so that there are no lumps, is excellent for creating wood glue and structural fillers and fillets. It is a fibrous filler that is also thixotropic. To make a smoother fillet, some users add a small amount of Silica Thickener.

SYS 3110S16 946 ml (1 qt) tub

Aqua-Tek Maxx Lube

NEW



- Long-lasting, water-resistant lubricant and rust inhibitor
- Transparent, penetrating formula
- Provides superior wear, rust, and corrosion protection, including where heavy weight, shock loads, and intermittent operations occur
- Safe on plastic, rubber, glass, painted surfaces, and all metals and alloys
- Free from solvents, silicone, and PFAS, non-corrosive, and VOC compliant

AQU 61580 400 g

Boeshield T-9 Corrosion & Waterproof Lubricant



- Designed to penetrate into fasteners and fixtures
- Displaces moisture and attacks existing corrosion
- Dries to a clean waxy film
- Lubricates and protects all metals for months
- It will also loosen rusted parts
- Will not harm paints, plastics or vinyls
- No CFCs

CMP T90004 113 ml (4 oz) aerosol
CMP T90012 354 ml (12 oz) aerosol

Corrosion Block



- Displaces moisture
- Protects the flexibility of rubber
- Excellent penetrant, lubricant and dielectric
- Contains no wax, tar, asphalt, silicon, or teflon
- Frees metal parts that are frozen by corrosion
- Protects electrical systems and electronics from salt water, moisture, and corrosion

CMP 20002	113 ml (4 oz), spray
CMP 20012	354 ml (12 oz), aerosol

Corrosion Block Grease



- Provides maximum protection under severe conditions
- Suitable for extended periods of operation at high temperatures and for "sealed for life" applications
- Excellent lubricant and dielectric
- Resists salt water; won't soften, breakdown or wash out in wet applications
- Environmentally friendly

CMP 25002	59 ml (2 oz), tube
CMP 25014	414 ml (14 oz), cartridge
CMP 25016	473 ml (16 oz), tub

Davis Max-Lube



- Synthetic lube, great for steering cables, gears, sporting equipment and all metals
- Superior rust and corrosion protection

DIN 422 **	3 oz

** While Stock Lasts

Howes Lubricant & Penetrating Oil



- Made from a formula of refined petroleum ingredients
- Lubricates without evaporation and penetrates (actually permeates) leaving a protective film that will not attract dirt or dust
- Dissolves rust, sludge and gunk while displacing water
- Safe to use on almost any surface

HOW HMP056	340 g (12 oz) aerosol

Fluid Film



- Formulated from processed wool-wax, refined petroleum oils and selected agents
- Provides corrosion control, penetration, metal wetting and water displacement
- Contains no solvents, will not dry out and will penetrate to the base of all metals

CMP 1450	145 g (4 oz), aerosol
CMP 3300	333 g (12 oz), aerosol
CMP 5207	237 ml (8oz), brush can

Forespar Lanocote



Extremely effective in preventing and stopping corrosion on all types of metals Formulated to withstand salt water marine conditions, particularly useful in preventing thread seizure due to all types of corrosion on boats and machinery. Applied during assembly, LanoCote will greatly assist in easy dismantling years later. Combats galvanization where dissimilar metals are fastened together, such as stainless steel fittings on alloy masts, etc.

FRS 770001	118 ml (4 oz) jar
FRS 770003	473 ml (16 oz) jar
FRS 770007	236 ml (8 oz) spray

Forespar Lanocote Prop & Bottom



- Recommended for boats operating at speeds up to 15 knots
- Can be applied with boat in the water
- Environmentally safe
- Flow efficient
- For boat bottoms, props, struts, shafts and trim tabs
- Depending on local conditions, can significantly retard marine growth for over six months
- It can be applied over clean, fresh bottom paint or a freshly clean bare bottom for added protection and to make regular cleaning easier and faster.

FRS 770035	473 ml (16 oz)

McLube HullKote



- Environmentally-friendly, citrus-based polish
- Long-lasting, high-gloss finish repels water
- Applies easily over other waxes and polishes and is safe to use on fibreglass, metal, Plexiglass and painted surfaces
- Lasts more than a season when applied above the waterline, and more than 20 hard days of sailing when applied below

MCL 7880	473 ml (16 oz)

McLube Speed Polish



- High-gloss, citrus-based foul-release polish for everything below the waterline
- Prevents marine growth and slime from adhering for weeks
- Reduces drag and increases efficiency on both power and sail boats
- Non-toxic, non-metallic, non-leaching, biodegradable & environmentally friendly

MCL 7881	473 ml (16 oz)

Forespar Marelube



MareLube has been refined by Forespar to suit the needs of boaters for the lubrication of marine valves and seacocks of any material, metal or composite. Very importantly, MareLube is not petroleum based so it will not degrade seals and O rings. All marine valves require regular lubrication and regular activation of the handle.

FRS 770050	118 ml (4 oz) jar, paste

Forespar Liquid Marelube



- For valves where access is difficult or convenience is desired. Simply pour Liquid MareLube into the system through the valve tailpipe or hose, and activate the handle of the valve.
- Formulated using advanced PTFE lubrication technology designed to keep marine valve seals and balls working smoothly
- Biodegradable and biorenewable

FRS 770055 473 ml (16 oz)

Forespar Marelube TEF 45



- Excellent dissimilar metals barrier for long term protection on fasteners such as stainless steel screws and bolts used on aluminum spars
- Superior corrosion barrier and anti-seize for screws, bolts and nuts
- Won't wash away
- High-load lubrication in a fresh or salt water environment
- Use on turnbuckles and other rigging fittings
- Great for rebuilding and maintaining outboard lower units
- Formulated with 45% PTFE for maximum effectiveness
- Many commercial and industrial uses
- Contains no petroleum
- ISO 9001 Certified

FRS 770065 5 cc syringe
FRS 770066 20 cc syringe
FRS 770067 118 ml (4 oz) jar

McLube Sailkote

Easy to apply, high performance dry lubricant that makes sails, hulls, rigging, deck hardware and anything that moves on your boat run smoother.

- Formulated with Dupont Krytox



MCL SAILKOTE8OZ 227 g aerosol can
MCL SAILKOTE-QT 946 ml wipe on liquid

McLube One Drop Ball Bearing Conditioner



- Keeps bearings rolling freely
- Keeps bearings dirt-free
- Prevents bearings from skidding
- Only one drop needed

MCL ONEDROP.5FLOZ 14.7 ml (1/2 oz)

Prolan Enduro



- Versatile general purpose lubricant is easily sprayable, and leaves a shiny finish
- Frees up seized materials, provides corrosion protection, and rust protection
- Biodegradable, food grade certified, and non-carcinogenic
- Non-conductive up to 70 kV
- Resists acids and alkalis, moisture, and salt
- Safe on rubbers and wiring

PRO ENDURO-AEROSOL 300 g
PRO ENDURO-1L 1L
PRO ENDURO-4L 4L

Prolan Extreme



- Long lasting, UV-resistant, high-penetration, multipurpose corrosion protection that leaves a clean, dry, waxy coating
- Stays on even in the harshest marine conditions, it resists wash off – up to 2,465 PSI after drying
- Resistant to acids, salts, acetone and thinner, and corrosive elements
- Environmentally friendly and biodegradable, food grade certified, non-toxic, and non-carcinogenic
- Lanolin content prevents the onset of corrosion, and provides anti-fouling properties
- Electrically and electrolytically separating up to 70 kV
- Does not damage glass, enamel, or other treated surfaces
- Coverage: Approximately 8 – 10 square meters per litre depending on the surface for a light coating



PRO EXTREME-AEROSOL 300 g
PRO EXTREME-1L 1L
PRO EXTREME-4L 4L

Prolan Anti-Seize Grease



- Lanolin dielectric anti-seize grease provides long lasting corrosion protection and lubrication that does not leach off or evaporate
- Acid, salt, and water resistant
- Biodegradable, food grade certified, and non-carcinogenic
- Provides an electrolysis barrier between dissimilar materials
- Electrically and electrolytically separating up to 70 kV
- Does not damage glass, enamel, or treated surfaces
- Use above or below water, both fresh and salt
- Suitable for drilling and tapping, as a lubricant, and as an assembly grease for couplings/O-rings (not EPDM seals)



PRO GREASE-15G 15 gram
PRO GREASE-100ML 100 ml
PRO GREASE-500ML 500 ml
PRO GREASE-4L 4L

Leland Rust Protection Bags

Reusable poly bags with an interior lined with corrosion inhibitors which prevent rust on steel tools and parts without using damaging oils. Protected parts are easily removed from the bag and are ready for immediate use with no smell or residue.

- 3 Bags: 6" x 8", 8" x 10" & 12" x 18"



LND 90100 **
** While Stock Lasts

Ancor Dielectric Silicone Compound

- Fights oxidation to improve conductivity
- Penetrates aluminum oxide to maintain current paths
- Temp. rated 40º-500ºF (4.4º-260ºC)



ANC 700115 10 ml (1/3 oz) tube

Pipe Thread Compound

- Slow dry, soft set and non-hardening
- All temperature connection work
- Lubricates and protects all threads
- Use on steel, copper, aluminum, brass, ABS, PVC and fibreglass piping



CMP TTS-2 59 ml (2 oz) tube
CMP TTS-4 118 ml (4 oz) brush top can

Shurhold Snap Stick



For snaps and zippers on awnings, straps and other items that suffer the corroding effects of rain, dirt and grime. One application from the Snap-Stick tube can last up to three months.

SHU 251 .45 oz

Spray Nine Anti-Seize

- Highly refined blend of aluminum and graphite lubricants to prevent galling, corrosion, and seizing of metal parts, threaded joints and fasteners, and sliding surfaces
- Assures easier disassembly of parts even after exposure to weathering, extreme temperatures, and corrosive conditions
- Salt, corrosion, and moisture resistant
- Temperature range: -51°C to 871°C



SP9 76763 113 g

Spray Nine Dielectric Grease

- Insulates electrical connections in boats, trailers, and marine equipment
- Protects against moisture, water, salt, dirt, and corrosion
- Insulates spark plug connections
- Meets OEM specs



SP9 22068 80 ml

Spray Nine Threadlocker

- High-temperature applications up to 232°C (450°F)
- For heavy duty or severe service
- Prevents loosening
- 3/8" to 1-1/2"
- Meets OEM specs



SP9 27209 10 ml

Star brite Zipper Lube

- Fight wear and friction, salt water deposits and corrosion with PTEF lubricant
- Non toxic and non staining
- Will not wash off and will prevent binding of snaps and zippers
- Protects from -65°F to +650°F



STA 89102P 1.75 oz

Teflon Tape

- Military spec. white Teflon thread
- For plumbing of water, oil and gas



WES 121M8

► Also See Propane Tape pg 05-027

Star brite Wheel Bearing Grease

- Superior rust and corrosion protection from salt water, salt air and atmospheric chemicals
- Special water-insoluble formula is highly resistant to wash-out
- For marine applications: trailer wheel bearings, water pumps, hinges, pins, winches, anchor chainwheels



STA 26014 415 ml (14 oz), cartridge

Ultra Safety Systems Tef-Gel

A specially formulated waterproof paste that has many uses including: eliminating the seizing and galling of metals, prevention of galvanic corrosion between dissimilar metals and also as a lubricant that will not break down in salt water or detergents.



USS TG-.25 3 cc (1/4 oz) syringe tube
USS TG-1 20 cc (1 oz) syringe tube
USS TG-2T 56 gr (2 oz) tub
USS TG-16T 453 gr (16 oz) tub
USS TG-B Applicator brush

► Also See Salt-Away pg 06-029

Moeller Lower Unit Pump

- Quart size pump for outward lower units, power trim and tilt units
- Fits outboards and stern drives with 3/8-16 threaded screws
- Johnson/Evinrude, Mercury/Mariner, Suzuki 25 HP and larger, Yamaha 8 HP and larger



MOE 042905

Sea-Dog Deluxe Lower Unit Pump

- Deluxe nylon pump fits quart oil bottles
- Flexible hose gets to hard to reach locations
- Metal threaded fitting fits most motors
- Includes Yamaha adapter



SED 502155-1 Pump
Parts:
SED 502159-1 Yamaha adapter

Sea-Dog Lower Unit Pump

- Standard pump fits quart oil bottles
- Flexible hose gets to hard to reach locations
- Metal threaded fitting fits most motors
- Includes Yamaha adapter



SED 502150H-1

Sierra 5 Gallon Oil Pump

- For lower units on outboards and stern drives
- Designed for use with 5 gallon Sierra containers



SIE 18-9788

Sierra Gear Lube Pump

- Standard pump fits quart oil bottles
- Flexible hose gets to hard to reach locations
- Metal threaded fitting fits most motors
- Aluminum fittings



SIE 18-9779

Sierra Gear Lube Adaptors

For use with quart pumps and lower unit fill tubes.



SIE 18-9794 Nissan-Yamaha-Honda-Tohatsu
SIE 18-9795 Suzuki

Sierra Gearcase Filler



This 3 gallon design filler makes it easier to fill or flush gearcases. Translucent plastic container allows you to check tank oil levels. Sturdy tear-drop design resists tipping over. Includes the check valve venting system. The check valve on the vent allows you to remove the filler nozzle without losing any appreciable amount of lubricant.

SIE 18-99524 (CDI 551-33-1)

Accessories:

SIE 18-99536 Merc adapter (CDI 551-334B)
SIE 18-99525 5 piece adapter kit (CDI 551-334K)
SIE 18-99528 Replacement valve (CDI 551-33VA

Sierra Hi-Performance Lube & Pump Kit



- Includes 1 qt 18-9650-2 gear oil, pump, and adapters

SIE 18-9650-2QP 1 qt

Star brite 5 Gallon Oil Pump



- Contains a 96" hose with a 3/8"-16 threaded fitting
- Designed for use with 5 gallon containers

STA 27405

Star brite Lower Unit Quart Pump



- Includes 8mm adapter
- Fits standard quart plastic bottles
- Flexible hose makes it easy to get to hard-to-reach fill plugs
- Metal threaded fitting fits Mercruiser, OMC, Evinrude, Johnson, Honda (70-90hp), Volvo, Force, and Gamefisher lower units

STA 27410

Star brite Lower Unit Lube Tube



- Quick, easy and clean way to change marine lower unit gear lube
- For use with all 8 oz and 10 oz squeeze tubes
- Metal threaded fitting fits Mercruiser, OMC, Evinrude, Johnson, Honda (70-90hp), Volvo, Force and Gamefisher lower units

STA 28600

Star brite Adaptor Fittings



Adapters fit tube # 28600 and lower unit quart pump # 27400

- For Nissan/Yamaha/Tohatsu and Honda lower unit

STA 28401

- For Suzuki lower unit

STA 28402

Star brite Grease Guns

- Use with 14 oz cartridges
- Produces up to 6,000 psi
- Corrosion resistant finish
- One hand operation

STA 28704 Lever
STA 28724 Pistol



Sierra Power Trim & Steering Fluid



- Anti-foam additives for uniform flow with reduced air contamination
- For heavy-duty use at high operating pressures in applications subject to varied temperature ranges
- Lubrication and corrosion protection for internal hydraulic components

SIE 18-9751-2 946 ml (quart)

Sierra Power Trim & Tilt Fluid



- Formulated for high operating pressure
- Anti-foam additives
- Provides lubrication and corrosion protection

SIE 18-9750-0 283.5g (10 oz)

Star brite TC-W3 Premium 2-Cycle Oil



- Meets or exceeds manufacturers' specifications - will not void engine warranty
- NMMA approved-meets or exceeds their stringent TC-W3 requirements
- Environmentally friendly, clean burning oil that reduces emissions
- For use in oil injection, 2 cycle and pre-mix engines
- Ashless formula minimizes piston ring sticking and protects against pre-ignition problems

STA 19000 3.78 litre (gallon)

Star brite Synthetic Blend 80W 90 Lower Unit Gear Lube



- For API GL-5, MT-1 service
- Special extreme pressure and anti-wear additives
- Recommended for all engines over 100 hp
- Protects against rust and corrosion
- Superior thermal stability
- Protection over a wide temperature range
- Meets or exceeds OEM requirements-will not void manufacturers' warranty. Recommended for use in Mercury, Mercruiser, Johnson, Evinrude, OMC, Force, Mariner, Nissan, Suzuki, Yamaha and Volvo

STA 27232 946 ml (32 oz)

Star brite Biodegradeable High Performance 90W Lower Unit Lube

- Combines a bio-renewable base oil with hi-tech additives to create a biodegradable fluid
- Formulated with special anti-wear & anti-foam additives
- Will not void manufacturers warranties

STA 26810 ** 295 ml (10 oz)

** While Stock Lasts



Sierra Marine Gear Lubes





Part No	Size	Description	Classification & Recommendations
GEAR LUBRICANTS			
SIE 18-9600-0	295 ml (10 oz), tube	Premium Blend	API GL-5, MIL-L-2105D, Mack JO-J, API MT-1 (PG-1) and proposed PG-2
SIE 18-9600-2	946 ml (quart)		
SIE 18-9600-5	18.95 litre (5 gallon)		
SIE 18-9650-0	295 ml (10 oz), tube	Hi-Performance Blend	API GL-5, MIL-L-2105D, Mack JO-J, API MT-1 (PG-1) and proposed PG-2 ▪ Formulated for high performance drive systems ▪ Replaces: Mercury (Quicksilver) Hi-Performance Blend OMC (System Matched) Ultra-HPF Blend Yamaha (Yamalube) LUB-GEARL-11-00
SIE 18-9650-2	946 ml (quart)		
SIE 18-9650-5	18.95 litre (5 gallon)		
SIE 18-9650-7	208 litre (55 Gallon)		
SIE 18-9680-2	946 ml (quart)	Full Synthetic	API GL-5, MIL-L-2105E, Mack JO-J, API MT-1 (PG-1) and proposed PG-2,SAE J2360
SIE 18-9680-5	18.95 litre (5 gallon)		
SIE 18-9620-2 **	946 ml (quart)	Type C, Electric Shift	▪ Replaces: OMC (System Matched) Premium Blend

** While Stock Lasts

Sierra Marine Engine Oils





Part No	Description	Size	Classification & Recommendations
GASOLINE - INBOARD STERNDRIVE ENGINE OIL			
SIE 18-9554-2	15W-40 Multi-Vehicle Premium Blend	946 ml (quart)	API up to CK-4, API SM ▪ Specifically formulated for the heavy duty inboard marine market, including cruiser and towboats ▪ NOT for use in gasoline engines equipped with catalytic converters
SIE 18-9554-4		4.7 litre (5 quart)	
SIE 18-9554-5		18.95 litre (5 gallon)	
SIE 18-9400-2	25W-40 Premium Blend	946 ml (quart)	NMMA FC-W API SL ▪ Meets or exceeds quality performance API SJ, CF-4, CH-4 ▪ Recommended for use in Mercruiser, OMC and Volvo Penta ▪ Will not void your engine manufacturer's warranty
SIE 18-9400-4		4.7 litre (5 quart)	
SIE 18-9400-7		208 litre (55 gallon)	
SIE 18-9440-2	25W-40 Synthetic Blend	946 ml (quart)	NMMA FC-W API SL ▪ Formulated for inboard and sterndrive engines
SIE 18-9440-4		4.7 litre (5 quart)	
SIE 18-9440-7		208 litre (55 gallon)	
SIE 18-9410-2	SAE 30 Full Synthetic	946 ml (quart)	API SL/CF ▪ Formulated for inboard and sterndrive engines
SIE 18-9410-4		4.7 litre (5 quart)	
SIE 18-9690-2	Full Synthetic 10W-30	946 ml (quart)	NMMA FC-W API SL ▪ Formulated specifically for 4 cycle outboard and sterndrive engine technology ▪ Exceeds the FC-W requirements for marine engine oils
SIE 18-9690-3		3.78 litre (gallon)	
GASOLINE - CATALYST COMPATIBLE INBOARD ENGINE OIL			
SIE 18-9559CAT-2	10W-40 Full Synthetic	946 ml (quart)	▪ All high performance Volvo/Penta inboard engines ▪ Developed for excellent protection against severe wear at both high and low temperatures, for year round use
SIE 18-9559CAT-3		3.78 litre (gallon)	

Sierra Marine Engine Oils







Part No	Description	Size	Classification & Recommendations
GASOLINE - OUTBOARD ENGINE OIL - TWO CYCLE			
SIE 18-9500-1	Premium Blend	473 ml (pint)	NMMA TC-W3 ▪ Exceeds JASO, ISO, API and NMMA, for advanced generation 2 cycle lubricants ▪ Formulated for all PWC (Personal Water Craft), power equipment, applications where TC-W3 is required
SIE 18-9500-2		946 ml (quart)	
SIE 18-9500-3		3.78 litre (gallon)	
SIE 18-9530-3	Direct Injection Synthetic Blend	3.78 litre (gallon)	NMMA TC-W3 ▪ Mercury Optimax, Yamaha HPDI and Johnson/Evinrude Ficht and DI motors
SIE 18-9540-2	Full Synthetic	946 ml (quart)	TC-W3 ▪ For use in all outboards including Johnson/Evinrude E-Tec
SIE 18-9540-3		3.78 litre (gallon)	
GASOLINE - OUTBOARD ENGINE OIL - FOUR CYCLE			
SIE 18-9551-2	10W-40 Synthetic Blend	946 ml (quart)	API C14-Plus/SL; Volvo VDS-3; Cummins CES 20078, 20077 & 20076 ▪ A direct replacement oil for Suzuki motors
SIE 18-9551-3		3.78 litre (gallon)	
SIE 18-9420-2	10W-30 Premium Blend	946 ml (quart)	NMMA FC-W API SL ▪ Meets and exceeds quality performance API SJ, CF-2, CH-4 ▪ Specifically formulated to meet or exceed the requirements of the Marine 4-Stroke motor manufacturers, Mercury, Yamaha, Johnson-Evinrude, Suzuki and Honda
SIE 18-9420-3		3.78 litre (gallon)	
SIE 18-9440-3	25W-40 Synthetic Blend	4.7 litre (5 quart)	NMMA FC-W API SL ▪ Formulated for outboard engines
SIE 18-9440-8		1 litre (33.8 oz)	
SIE 18-9552-3	25W-50 Synthetic Blend	4 litre (135.2 oz)	NMMA FC-W API SL ▪ Meets the FC-W requirements for 4 cycle, water cooled engines *Do not mix with gas*
SIE 18-9552-8		1 litre (33.8 oz)	
SIE 18-9690-2	10W-30 Full Synthetic	946 ml (quart)	NMMA FC-W API SL ▪ Formulated specifically for 4 cycle outboard and sterndrive engine technology ▪ Exceeds the FC-W requirements for marine engine oils
SIE 18-9690-3		3.78 litre (gallon)	
GASOLINE - CATALYST COMPATIBLE ENGINE OIL			
SIE 18-9420CAT-2	10W-30 Premium Blend	946 ml (quart)	NMMA FC-W Catalyst Compatible
SIE 18-9420CAT-3		3.78 litre (gallon)	
SIE 18-9420CAT-7		208 litre (55 gallon)	
SIE 18-9400CAT-2	25W-40 Premium Blend	946 ml (quart)	NMMA FC-W Catalyst Compatible API SL
SIE 18-9440CAT-2	25W-40 Synthetic Blend Catalyst Compatible	946 ml (quart)	NMMA FC-W Catalyst Compatible API SL
SIE 18-9440CAT-4		4.7 litre (5 quart)	

► *Also See* Pail Pumps pg 06-024

Star brite
Star*Tron Shooter Gasoline Additive



- 30 ml (1 oz) treats 22 litres (6 gal)
- Unique enzyme formula improves performance of all engines
- "Cures" and prevents ethanol fuel problems
- Allows engines to start easily & run smoothly
- Improves fuel economy, reduces emissions
- Cleans entire fuel delivery system
- Removes carbon deposits; prevents future deposits

STA 14324 24 x 30 ml (1 oz) shooters
STA 14312 Display w/12 shooters

Star brite Star*Tron Vertical Shooter Gasoline Additive - Super Concentrated Formula



- 30 ml (1 oz) treats 95 litres (25 gal)
- Holds a dozen 1 ounce "Super Concentrated" Star Tron "shooters"
- Ideal for treating fuel in SUVs, boats and large outdoor power equipment
- Sold only as a 12-piece display; bottles not sold separately

STA 14512 12/pkg

Star brite Star*Tron Gasoline Additive



- 237 ml (8 oz) treats 485 litres (128 gal)
- Reduces all emissions
- Prevents fuel oxidation and stabilizes fuel chemistry for at least 1 year
- Lowers fuel system maintenance
- Eliminates carbon build-up in fuel delivery system and on exhaust components
- Increases fuel economy, especially in older engines.
- Cures fuel jelling caused by cold weather and E10-alcohol fuels

STA 93008 237 ml (8 oz)
STA 93016 574 ml (16 oz)
STA 93032 1148 ml (32 oz)

Star brite Star*Tron Enzyme Fuel Treatment - Classic Gasoline Formula



- 30 ml (1 oz) treats 22 litres (6 gal)
- Cures and prevents most ethanol problems
- Makes all engines start easily, run smoothly; improves performance
- Removes and prevents gum, carbon and varnish
- Works in all engines and in all fuel
- Helps prevent phase separation by dispersing water throughout fuel as submicron-sized droplets that are safely eliminated while the engine operates
- Stabilizes fuel; helps rejuvenate old fuel
- Reduces smoke and all other emissions
- Keeps fuel delivery system clean

STA 14308 237 ml (8 oz)

Star brite EZ-Start Gasoline Additive



- 30 ml (1 oz) treats 19 litres (5 gal)
- Combines gas stabilizers which prevent fuel from breaking down for up to 2 years with a polymer coating that acts like fogging oil
- Corrosion proofs all internal engine surfaces
- For inboard and outboard winter storage

STA 84308 236 ml (8 oz)
STA 84316 473 ml (16 oz)

Sierra Gasoline Fuel Injector Cleaner



- Replaces: Mercury 92-8M0062765
- For: Mercury, Yamaha, Honda
- Cleans all fuel injector types
- Prevents rough idling and stalling
- Reduces intake and port deposits
- For use with SIE 18-8600

SIE 18-8606 473 ml (16 oz)

► *Also See* Sierra Fuel Injector Cleaning Kit pg 09-023

Petrolabs Gasoline Treatment



- Treats 284 litres (75 gal)
- Can be used with all internal combustion systems and gas blends
- Disperses water in fuel systems
- Contains no alchohol
- Cleans engine fuel injectors and carburettor
- Provides better combustion and fuel economy

CMP FGT416+ 472 ml (16 oz)

Sta-Bil Marine 360 Ethanol Blend Treatment



- Treats 303 litres (80 gal)
- Engineered to combat the effects of harsh marine environments
- Ultimate defense against the harmful effects of ethanol blended fuels
- Cleans the fuel system and ensures your engine is operating at peak performance
- Keeps fuel fresh for up to 12 months
- Ideal for boats, jet skis, and other watersport engines

STB 22257 236 ml (8 oz)

Sierra EGuard Ethanol Treatment



- Stabilizes E10 gasoline for up to 12 months
- Contains a non-alcohol water remover that helps to reduce the chance of phase separation
- Prevents gum and varnish formation
- Safe for use in gasoline engines including 2- and 4-cycle, generators, and outdoor power equipment
- Mix ratio 30 ml (1 oz) per 38 litre (10 gal)

SIE 18-9777 3.78 litre (gallon)

Sta-Bil Gasoline Fuel Stabilizer



- 237 ml (8 oz) treats 75 litres (20 gal)
- Keeps fuel fresh for long term storage - up to 24 months
- Eliminates the need to drain fuel prior to storage
- Ensures quick easy starts after storage by preventing gum and varnish build up
- Effective in all gasoline, including ethanol and non-ethanol
- For all gas engines, including 2-cycle

STB 22209 236 ml (8 oz)
STB 22258 946 ml (32 oz)

Star brite Stabilizer+ Fuel Storage



- 30 ml (1 oz) treats 19 litres (5 gal)
- Double action- enzymes stabilize fuel and break down contaminants, while corrosion inhibitors add a layer of protection to metal surfaces to fight against internal rust
- Ensures fuel quality up to two years for all-weather and any-season storage
- For all non-ethanol and ethanol blend gasoline

STA 14808 237 ml (8 oz)
STA 14816 473 ml (16 oz)

Sta-bil 360° In-Season Protection

NEW



- Ultimate in-season ethanol treatment
- 30 ml treats up to 19L of fuel
- Prevents corrosion caused by ethanol blended fuels
- Increases engine power and fuel efficiency
- Cleans and protects entire fuel system
- Effective in all gasoline, including non-ethanol

STB 22274 296 ml

H.U.M. Out Fuel Biocide



- 30 ml (1 oz) treats 454 litres (120 gal)
- Fuel treatment that prevents filter plugging and corrosion due to bacteria and algae
- Formulated for a wide range of applications
- Kills bacteria and algae

CMP FH0316 472 ml (16 oz)

Howes Lubricator Diesel Treatment



- Replaces chemicals not found in today's low sulphur fuel
- Only non-solvent product on the market
- Summer/winter formula
- Injectors/fuel filters last up to three times longer
- Engine smoking significantly decreased
- Decrease in oil consumption
- Encapsulates water molecules that burn off harmlessly, fighting condensation
- Increased combustion and power

HOW 103070 444 ml (15 oz), treats up to 450 L (119 gal)
HOW 103061 1.9 L (64 oz), treats up to 3600 L (951 gal)
HOW 103066 946 ml (32 oz), treats up to 1800 L (476 gal)

Howes Meaner Power Diesel Kleaner



Purifies and stabilizes diesel fuel while inhibiting corrosion and removing water harmlessly. A cleaner running engine will increase the life of the fuel injection system and result in more power, lower emissions, increased fuel economy and a decrease in maintenance costs. This product scored a "superior" rating by Cummins L-10 test specifications.

- Treats up to 1200 litres (317 gal)
- 4.8% improvement in fuel economy
- 65% reduction in injector deposits
- 35% increased lubricity-injectors, pumps & cylinders
- 80% emissions reduction-stops the smoking

HOW 103069 946 ml (32 oz)

Petrolabs Diesel Power Plus



- 30 ml (1 oz) treats 121 litres (32 gal)
- Absorbs water
- Improves Cetane number
- Contains no alcohols
- Cleans entire fuel injector system
- Increases combustion for greater efficiency
- Controls bacteria growth
- Controls waxing and gelling
- Lubricates entire fuel system

CMP FDP116+ 472 ml (16 oz)

Sta-bil Diesel All Season



- 591 ml (20 oz) treats 568 litres (150 gal)
- Advanced year-round formula for all your additive needs
- Cleans and lubricates entire fuel system; safe for all diesel engines
- Removes water and acts as anti-gel protection down to -40°F
- Boosts Cetane

STB 15216 591 ml (20 oz)

Star brite Star*Tron Diesel Additive



93108

- 237 ml (8 oz) treats 969 litres (256 gal)
- Disperses bacteria without the use of poisons
- Reduces all emissions, including carcinogenic particulate smoke
- Prevents fuel oxidation and stabilizes diesel chemistry for at least two years
- Lowers fuel system maintenance
- Eliminates carbon build-up on injectors and exhaust components
- Increases fuel economy, especially in older engines
- Cures fuel gelling caused by cold weather and alcohol fuels
- Instantly cures filter problems caused by bio-diesel fuels during cold weather

STA 93108 237 ml (8 oz)
STA 93116 473 ml (16 oz)

Sierra Fogging Oil



- Formulated for the seasonal storage of all 2 & 4-cycle engines

SIE 18-9550-3 3.78 litre (gallon)

Solvable Anti-Freeze



- Safe for septic systems, boats, recreational vehicles, and seasonal homes
- A mixture of propylene glycol, alcohols and water, it is completely nontoxic
- Plumbing antifreeze does not have a definite freezing point, but becomes thick and viscous as temperature drops
- Provides burst protection and prevents serious damage to plumbing to -50°C

***For use with plastic pipes only**

NOTE This product is not designed for use in cooling systems of internal combustion engines nor for elevated temperature uses such as boilers, solar systems, evaporator coolers, or heat pump loop systems.

SOL 15-334-3.78L 3.78 litres

BoatLIFE Test Tank Cleaner



- Emulsifies oil in water and leaves in suspension
- Removes oil slick from water surface
- Lower units come out clean - no wipedown necessary
- Economical 50:1 ratio
- Environmentally friendly - No phosphates - biodegradable
- Pleasant fragrance, neutralizes foul odors
- Safe for rubber impellers and hoses, cleans water passages

BOA 1127 3.78 litre (gallon)

Aqua-Tek Salt Clean Concentrate

NEW



- Engine flush, concentrated cleaner, and corrosion inhibitor
- Penetrates, moistens, dissolves, and lifts salt, salt contaminants, and dirt from all surfaces
- Leaves behind a polymeric coating treatment for UV protection and resistance to corrosion, salt, and dirt
- Not slippery, and will not leave stains, streaks, or spots, nor alter colours or textures
- Suitable for engines, boats, trailers, scuba and fishing gear, and a wide variety of substrates
- Can be used in automatic applicators, pressure washers, and pump sprayers

AQU 57401 2 litre

Salt-Away Corrosion Control



Salt-Away is a water-based, nonhazardous, biodegradable solution and contains properties that dissolve, release and remove salt crystals from any surface.

- Breaks down and removes salt build-up
- Can safely be used on all metals, fibreglass, paint, rubber, plastic, chrome, glass, concrete or brick
- Easy to apply and leaves a protective film on surfaces
- Will not strip wax or cause streaks or spots

SLT SA04	118 ml (4 oz) spray
SLT SA16	473 ml (16 oz) spray
SLT SA32	946 ml (32 oz) Concentrate
SLT SA32M	946 ml (32 oz) Concentrate & mixer
SLT SA128	3.785 litres (128 oz) Concentrate
Parts:	
SLT SAM	Mixer unit only
SLT SAM12	Mixer unit with reservoir
SLT SAR	Reservoir set for SA32M & SAM
SLT 2"-O-RING	Replacement O rings for SAM

Zaal Salt Remove Soap



- Water based, low foaming, non-hazardous, biodegradable solution that dissolves, neutralizes and removes salt
- Leaves bright work spot free and protects sails from salt abrasion and black mold caused by salt build up
- Won't strip away protective wax
- Safe to use on all metals, fibreglass, rubber, plastic, chrome and glass
- One litre bottle will clean approximately 200 feet of boat
- Blue adaptor nozzle is a foaming dispenser with a rinse mode for garden hose
- Available 6/case

ZAA FI-ZAA-043 1 litre

Trac Ecological Barnacle Buster

Safely re-circulates through seawater cooling systems, dissolving barnacles, zebra mussels, calcium, rust, lime, and all other mineral deposits.



- Safe, non-toxic, and biodegradable
- Most applications can be completed within 4 hours
- One gallon concentrate makes 5 gallons of Barnacle Remover

TRA 1206-MQ Quart
TRA 1206-MG Gallon

Note: Not for Retail sale - Shop use only.

Trac Ecological Descaler

Designed specifically for fresh and brackish water applications, Trac's Descaler can safely be used within engines, cooling towers, boilers, or just about any other system re-circulating water.



- Mild solution penetrates hard-to-reach areas, and removes years of scale build-up
- Will not harm most materials including plastic, metal, rubber, fibreglass, vinyl, wood, or paint
- Safe, non-toxic, and biodegradable freshwater scale remover
- One gallon will make 5 – 10 gallons of ready-to-use solution
- Note: Care should be given when used with metals such as zinc anodes, tin, or galvanized metals

TRA 1212-MG Gallon

Trac Ecological Sew Clean

Formulated to target uric scale and clean sewage systems from toilet to tank, Sew Clean can dissolve clogs causing plumbing to overflow and create nasty odours.



- Foam and bacteria are significantly reduced while flushing
- Non-toxic, biodegradable, and safe to use on all types of materials commonly found in black water systems
- Can be disposed through regular sewer systems
- One gallon concentrate will make 5 – 8 gallons of ready-to-use solution

TRA 1218-MQ Quart
TRA 1218-MG Gallon

Trac Ecological Port-O-Flush Jr

- Powerful tool packaged into a 5 gallon bucket
- Anti-corrosive, epoxy encapsulated, centrifuge submersible pump
- Provides portability and versatility while still efficiently handling small to medium size engines, heat exchangers, air conditioning, and refrigeration systems
- Engineered for use with TRAC's line of environmentally friendly products
- To be used with TRAC products only; warranty is voided upon use of any other chemical



TRA 1245 110 VAC
TRA 1245-DC 12 VDC

Trac Ecological Sea Flush

With Sea Flush, you are able to introduce Barnacle Buster into critical cooling systems without removing parts or even hoses.



- Fits sea strainers with inside openings ranging from 1.65" to 4.8"
- Insert allows fit to shop vacs with OD ranging from .75" to 2.8"
- Kit includes: reservoir, snorkel, ShopVac adapter, and two bungee cord fasteners

TRA 1280

Trac Ecological Flush Caps



- Three sizes to fit any Groco ARG strainer
- Makes flushing raw water cooled equipment a snap
- Designed for flushing use only

TRA 1285-A ARG500-750
TRA 1285-B ARG1000-1250
TRA 1285-C ARG1500+

Aqua-Tek Flush 'n Flow



- Cleans marine water-cooled systems, both fresh and salt, including gas and diesel engines, air conditioning and refrigeration systems, heat exchangers, water makers, and more
- Safely removes water and lime scale, rust and calcium deposits, barnacles, mussels, tiger shells, clay, oily and biological matter, and more
- Does not cause flash rusting
- Leaves behind a residue that repels water to impede further scaling and attachment
- Safe for a variety of material, and 100% biodegradable

AQU 51000 1 L

Aqua-Tek Live Well Clean

NEW



- One-step cleaner, deodorizer, and decontaminant
- Removes fish waste and blood, biofilms, organics, algae, mould and mildew stains, and hard water deposits
- Spray on surfaces or run through live well systems
- Will not harm painted surfaces, fibreglass, plastics, stainless steel, or aluminum, and effective in both fresh and salt water, and leaves no residue
- Environmentally friendly and biodegradable

AQU 50930 650 ml

Aqua-Tek Deck and Boat Wash



- Powerful cleaning action that removes the toughest stains including black marks, spider, and bird spots
- Will not effect existing wax
- Water based
- Non-abrasive
- Biodegrades quickly and easily

AQU 52010 1 litre

Aqua-Tek Easy Clean Marine



- Powerful cleansing action that removes the most stubborn stains
- Effective on any surface and type of stain
- Will not remove waxes, polishes or treatment on fabrics
- Environmentally friendly (phosphate-free and quickly biodegradable)

AQU 52025 750 ml
AQU 52026 4 litre

Aqua-Tek Mega Clean



- One product to do everything outdoors/indoors
- Powerful cleaning action that removes the most stubborn stains
- Effective on almost any surface
- Easy to rinse and does not leave film or oily residue

AQU 52004 950 ml

Aqua-Tek Dinghy and Fender Cleaner



- Powerful cleaner removes most tough spots
- Fast, easy, and safe application
- Water-based
- Non-abrasive
- Biodegradable
- Environmentally friendly

AQU 51150 750 ml

Aqua-Tek GelBrite



- Non-abrasive, one step cleaner, polish, sealer, and protectant for all fibreglass and gelcoat surfaces
- Removes stains, light to moderate oxidization, and other minor flaws without damage
- Anti-static additives
- Non-toxic and environmentally friendly

AQU 54030 650 ml

Aqua-Tek Hull Cleaner



Effectively and safely removes algae, oily residues, stubborn stains, rust stains, scum, zebra and barn mussels from boat hulls. Although a powerful cleaner, this product is soft on boat surfaces such as anodized aluminum, gel finishes, wood, metal, and fibreglass.

- Thickened formula ensures product sticks to the surface to be cleaned to avoid waste
- Non-corrosive and acid free formula
- Biodegradable, phosphate free

AQU 51050 950 ml

Aqua-Tek Pro Hull Cleaner



Effectively and safely removes algae, oily and greasy residues, stubborn stains, rust spots, scum, zebra and barn mussels from boat hulls. Although a powerful cleaner, this product is gentle on boat surfaces such as anodized aluminum, gel finishes, wood, metal, and fibreglass.

- Thick formula sticks to the applied surface
- Extra powerful and fast-acting cleaner for ALL fibreglass and aluminum hulls

AQU 51010 950 ml
Accessories:
FBS 50350 Acid spray pump

Aqua-Tek Impervium Sub-Aqua



- Easy to apply, non-biocidal, hydrophobic treatment for underwater surfaces
- Reduces fouling in both fresh and salt water environments
- Specifically designed to protect inflatable boats, dinghies, RIBs, waterlines, and submerged engine components
- Safe for hypalon, PVC, rubber, vinyl, fibreglass, gelcoat, polyurethane, polyester, plastic, and painted surfaces
- Non-toxic and environmentally friendly

AQU 52500 750 ml

Aqua-Tek Fabri-Guard



- Dries quickly
- Very little odour
- Does not stain
- Ozone safe and safe to use (very little irritation)
- Prevents mold
- Compatible with Sunbrella fabrics

AQU 53000 950 ml
AQU 53002 4 litre

Aqua-Tek Vinyl Guard



- Provides long lasting protection for inflatable boats (vinyl, PVC, hypalon, rubber)
- Use on seats, leather or vinyl cushions, rubber moldings, and dashboards
- Ideal for treating extension rubbers
- Protects from UV rays
- Penetrates, revitalizes and restores finish, refreshes colour
- Indoor and outdoor use

AQU 53105 120 ml
AQU 53100 650 ml

Aqua-Tek Organa Clean Stain Remover



- A pet and organic stain remover designed for cotton, synthetics, clothing, carpeting, vinyl, canvas, leather, etc.
- Digests and cleans stains while neutralizing both chemical and biological odours

AQU 58800 650 ml

Aqua-Tek Water Spot Clean



- Non-abrasive, thickened cleaner penetrates, lifts, emulsifies, and removes hard water spots
- Leaves behind a polymeric coating treatment that is non-slippery and resists future deposits and UV rays
- Will not harm Impervium coatings, fibreglass, gelcoat, glass, chrome, stainless steel, aluminum, vinyl, fabrics, plastic, or painted surfaces
- Non-toxic and environmentally friendly

AQU 51710 650 ml

Aqua-Tek Mould-Tek



- 3-in-1 solution for stains caused by mold and mildew
- Thick formula sticks to vertical surfaces
- Ideal for both hard and soft surfaces including fabrics, vinyls, boat tops, stitching, and awnings

AQU 50300 950 ml
AQU 50301 4 litre

Aqua-Tek Impervium with Easy Clean



- Environmentally friendly wash and wax that combines the cleaning power of Easy Clean with the Impervium coating system
- Impervium crosslinks and anchors to the surface, forming an impervious, longer lasting barrier that repels water; leaving a bright finish with heavy UV protection

AQU 52030 950 ml
AQU 52031 4 litre

Aqua-Tek Sap Off



- Softens fresh and dried out tree sap, making it easier to remove from soft and hard surfaces
- Thick formula sticks to vertical surfaces
- Biodegradable, non-toxic, and non-flammable
- Also effective in removing bug detritus, bird droppings, and other organic deposits

AQU 51060 950 ml

Aqua-Tek Aqua Clean



- Non-chlorinated, non-toxic, septic and environmentally friendly solution for cleaning fresh and hot water tanks, lines, and faucets
- Self-cleaning action penetrates, lifts, and removes biofilm, slime, algae, organic and bacterial buildup, stains, scale, calcium, and hardness deposits
- Also eliminates foul odours and tastes such as sulphur, antifreeze, and organic residue
- Safe for drainage into waterways, and does not affect holding tank treatments

AQU 58200 650 ml

Aqua-Tek Bilge Cleaner & Treatment



- Concentrated, 4-in-1 bilge cleaner and treatment that cleans/degreases, digests oil, deodorizes, and protects

AQU 57450 950 ml

Awesome Cleaner



- Concentrated cleaner, cleans, degreases and removes stains off everything washable
- Removes blood stains, glue, hair dye, juice, fresh paint, bugs and oxidation
- Biodegradable, non-flammable
- Contains no acid or ammonia

CMP AC32 948 ml (32 oz)
CMP AC128 3.78 litre (gallon)

Awesome Multi-Purpose Degreaser



- A professional degreaser used for heavy duty jobs
- Removes: oil stains on equipment, outdoor stains on concrete, asphalt and steel, animal and vegetable-based oil
- A concentrated product that must be properly diluted for use

CMP AG128 4 Litre

Awl Grip Awlwash Cleaner



Formulated to clean Awlgrip topcoats, AWLWASH does not contain alkalies, acids or abrasives. 100% biodegradable.

AWL 73234-QT Quart
AWL 73234-GAL Gallon

Awlgrip Awlcare Clean & Protect



- Non-abrasive, synthetic polymer formulated to clean and protect AWLGRIP and AWLCRAFT 2000 high-gloss topcoats
- Removes mild stains such as water spots and diesel soot
- Increases resistance to attack from acid rain and other pollutants with regular applications

AWL 73240-PT Pint
AWL 73240-HG 2 quart

Boat Bling Mild Soap Sauce



- Safe and effective mild cleaner for all fabrics and fabric canvas except dry clean only materials
- Use for specialty fabrics such as cool touch vinyl, synthetic leathers, and outdoor canvas without compromising your warranty
- Repels mold, mildew, and fungal stains
- Rinses residue free, and will not discolour vinyl or fabrics

BOA MSC00946 946 ml (32 oz)

Boat Bling Condition Sauce



- Bio-degradable, safe, soft water based conditioner
- 100% UV Protection for vinyl, leather, and rubber surfaces
- Moisturizes surfaces and reduces cracking and wear
- Rejuvenates slightly damaged vinyl and leather
- Provides the stunning factory fresh "just detailed" look without the grease
- Spray on, wipe off application
- Recommended for application once per month

BOA CSC00946 946 ml (32 oz)

Boat Bling Green Sauce



- Removes mould and mildew stains without caustic chemicals, and helps prevent stains from reoccurring
- Biodegradable formula is enzyme activated and 99.9% natural
- Safe for fibreglass, vinyl, outdoor fabric, canvas, and carpet
- Colour safe formula

BOA GSC00946 946 ml (32 oz)

Boat Bling Hot Sauce



- Bio-degradable, safe, soft water based detailer with specialty wax sealants
- Removes hard water spots, mineral deposits and exhaust residue
- Will NOT strip your current wax, adds additional wax sealants with each use
- Designed for fibreglass, plastic, chrome, glass, and all painted surfaces
- Spray on, wipe off application
- Use after each day on the water, follow up with Boat Bling Quickie Sauce every 3 months

BOA HSC00946 946 ml (32 oz)
BOA HSC03785 Gallon refill
BOA HSC0640CA 5 gal

Boat Bling Quickie Sauce



- Elite high gloss fast wax
- Completely wax any boat in 25% of the time as a traditional paste wax
- Premium Montan Wax Formula - Easy to spray, simple to rub in, easy to wipe off - no buffer needed
- Perfect for all fibreglass and painted surfaces
- Safe on vinyl moldings and decals
- Wax content lasts up to 16 weeks
- Spray on, rub in, wipe off application
- One quart will wax a 24' boat 3 to 4 times

BOA QSC00946 946 ml (32 oz)

Boat Bling Vinyl Sauce



- Professional vinyl, leather upholstery cleaner
- Guaranteed to remove the toughest spots while leaving a beautiful, non greasy, shine on your upholstery
- Bio-degradable, safe, non-caustic and non-silicone cleaner
- Removes mildew from interior surfaces
- Helps prevent mildew and staining
- Spray on, wipe off application
- Use after each day on the water, follow up with Boat Bling Condition Sauce every month

BOA VSC00946 946 ml (32 oz)
BOA VSC03785 Gallon refill

BoatLIFE Fibreglass Powder Cleaner and Stain Remover



- Use to remove heavy oxidation, stains, dirt, grease, and oil from fibreglass
- No-scratch formula is completely harmless to gel-coat finishes
- Use with fresh or salt water

BOA 1190 737 g (26 oz)

Davis FSR Fibreglass Stain Remover



- A stain absorbing gel for removing oil, rust, exhaust, road soil, and water line stains from fibreglass boats
- Also useful on shower stalls, furniture, and white painted surfaces
- Nonabrasive and requires no sanding

DIN 790 .47 litre
DIN 792 2.0 litre

Ecomar Spider Spot Remover



- Works on fibreglass, aluminum, painted surfaces and vinyl to remove spider spots, black streaks, mildew and leaf spots - inside and out
- An environmentally safe product

ECO 5056 450 ml

Ecomar Deck Traction Wax



- An environmentally friendly solution
- For restoring surface shine while increasing grip to nonskid or textured decks
- Formulated with polymers that seal, shine, provide UV protection and help give 'wet deck' grip
- Just wipe on and buff

ECO 5070 450 ml

Flitz Ultimate Marine Care Kit



The Flitz Buff Ball won't tear like foam. Fits any 3/8-inch drill or air tool. Buffs evenly-no low spots. Buffs at speeds up to 2,500 rpm. Self-cooling. Won't scorch or burn clearcoat. Washable and reusable.

- 1 x polish-paste 1.7 oz
- 1 x marine speed wax 1.7 oz
- 1 x 5" buff ball

FLZ MK-5109 **
** While Stock Lasts

Flitz Buff Ball



- Designed for re-use; heat resistant, tear resistant, and washable up to 10 times
- Self-cooling viscose felt material won't tear and shred like foam buffers, nor scorch or burn finishes
- Power-rated for speeds up to 2500 RPM
- Fits any 3/8" drill or air tool
- Includes 50g tube of Flitz polish

FLZ PB101-50 White 5"

Flitz Ceramic Sealant



- Simple-to-use ceramic spray coating that gives virtually any surface a water-resistant, hard-shell finish
- Protects surfaces for up to one year
- Repels water and the elements
- Easy to use: spray on, and immediately buff with microfibre polishing cloth
- Covers up to 1,100 square feet
- Safe on: all metals, fibreglass, clear coats, all paints, plastics, granite, glass, all man-made hard surfaces

For best results: Apply a second coat after 48 hrs

FLZ CS02908TV 8 oz with microfibre cloth
FLZ CS02906 16 oz sealant only

Flitz Marine Speed Waxx



A premium-grade detailing spray for when you're in a hurry and need a super-fast, super gloss shine.

- Use on fibreglass, gelcoat, plastic windows, hatches, plexiglasss, acrylics, enamel & painted surfaces, clearcoat, lacquer, polyurethane, ceramic & powder coatings
- Made with brazilian carnauba
- Fills in swirls & hairline scratches
- Water-based, environment friendly
- No streak, no smear

FLZ MX32806 473 ml (16 oz) spray

Hyseas Bilge Cleaner



- An industrial strength bilge cleaner for commercial as well as pleasure vessels
- Specially formulated to scour bilges clean using the motion of the boat

HYS BILGE-1L Litre
HYS BILGE-4L 4 litres
HYS BILGE-PAIL 18.9 litres

Hyseas Boat Soap



- Safely removes grime, bird droppings, and fuel without stripping the wax or harming the boats finish
- Biodegradable, use above or below deck
- Safe for cleaning upholstery, sails, life preservers and inflatable boats
- Dilute 1oz. per gallon of fresh or salt water for regular use and up to 4oz, per gallon for those heavier jobs

HYS SOAP-1L Litre
HYS SOAP-4L 4 litre

Hyseas Hull Cleaner

NEW



- Removes water stains, rust stains, and mineral deposits from the hulls and structures of fibreglass and aluminum boats
- Use at full strength for difficult applications, or dilute with up to 4 parts water

HYS HULL-1L Litre
HYS HULL-4L 4 litres

Meguiar's Boat/RV Wash



- Suds action gently washes away scum, grime and dirt without stripping the wax protection
- Non-streaking formulation that also contains conditioners to leave a high shine finish

MEG M-4364C 1.9 litre (64 oz)

Meguiar's Heavy Duty Oxidation Remover



- For machine applications to remove heavy to extreme oxidation, scratches and water spots
- Use on all fibreglass surfaces, new hi-tech paints and gel coat formulations

Recommended use of #45 Boat Polish immediately after #49

MEG M-4916C 473 ml (16 oz)

Meguiar's One Step Compound



- An aggressive cutting agent to remove heavy oxidation from gel coats
- One step formula is designed to both clean surfaces and leave a high gloss
- Removes stains, scratches and water spots by hand or machine

MEG M-6732C 950 ml (32 oz)

Meguiar's Mirror Glaze Ultra-Cut Compound



- Formulated with super micro abrasive technology for best in class finish
- Ultra-fast cutting removes 1200 grit or finer sanding marks
- Great for removing scratches, defects, acid rain, and severe swirls/holograms
- Apply by hand, dual action polisher, or rotary buffer

MEG M10532C 946 ml (32 oz)

Meguiar's Final Inspection Cleaner



- High-lubricity formula encapsulates dust particles and enhances deep lustre-without using water
- Great for removing residue after buffing
- Contains brighteners for a high gloss shine
- Perfectly safe for all paint finishes, including clear coats

MEG M-3401 3.78 litre (gallon)

Meguiar's Cleaner Wax



- A one step cleaner wax
- Cleans chemically without the use of abrasives

MEG M-5016C 473 ml (16 oz)
MEG M-5032C 950 ml (32 oz)

Meguiar's Gold Class Quik Wax



- Blend of premium carnauba wax for rich, deep, wet-looking shine
- Easy-to-use spray formula mists on and wipes off
- Can even be applied to a warm surface in full sun
- Safe for all glossy paints and clear coats
- No white wax residue on exterior plastic or rubber

MEG G-7716C 473 ml (16 oz)

Meguiar's Gold Class Paste Wax



- Blend of carnauba plus protecting polymers
- Safe for clear coat and all glossy paint types
- Apply by hand, or with a dual action polisher
- Includes foam applicator

MEG G-7014JC 11 oz

Meguiar's Flagship Premium Marine Wax



- Durable high gloss protection for fibreglass and painted surfaces
- Protects against UV

MEG M-6316C 473 ml (16 oz)

Meguiar's Hybrid Ceramic Wax



- Easy to use: Just spray on, rinse off, and dry
- Less effort: No rubbing, curing, buffing or mess
- Advanced S1O2 hybrid technology delivers ceramic wax protection
- Protection and durability beyond conventional wax
- Ceramic wax protection with extreme water beading action

MEG G190526C 768 ml (26 oz)

Meguiar's Ultimate Liquid Wax



- Premium paint protectant with a pure synthetic wax blend for maximum performance
- Improved formula provides a glossier finish, increased protection, and greater water beading action
- Easy spread on and wipe off application, even in full sun
- Can also be applied by dual action variable speed polisher
- Safe and effective on all glossy paints and clear coats
- Kit includes 473ml Ultimate Liquid Wax, (1) 10 x 2 cm foam applicator pad, and (1) 60 x 40 cm microfibre towel

MEG G-210516C 473 ml (16 oz)

Meguiar's Quik Spray Wax



- Works on light scratches, oxidation, water spots and other contaminants
- Spray on and wipe off for high gloss with a light wax protection
- Provides UV protection

MEG M-5916C 473 ml (16 oz) spray

Meguiar's Polish & Gloss Enhancer



- Boat polish and gloss enhancer develops an extremely high gloss finish on fibreglass boats
- Restores the original "new boat" appearance
- Contains no wax or silicones so it can be used often without fear of build-up

MEG M-4516C 473 ml (16 oz)

Meguiar's Vinyl & Rubber Cleaner Conditioner



- Deep cleans and revitalizes vinyl and rubber
- Restores colour and screens out damaging UV rays

MEG M-5716C 473 ml (16 oz) spray

Mirka Polarshine 10 Polishing Compound

NEW



- Coarse polishing compound
- Suitable for polishing of all paint systems and scratch resistant clear coats
- Keeps surface temperature low, and removes marks
- Water based and silicone free, can be applied by machine or by hand

MIR PC10-1L 1 litre
MIR PC10-5L 5 litre

Mirka Polarshine 12 Polishing Compound

NEW



- One-step water based and silicone free polishing compound
- Removes scratches from P2000 or finer (depending on surface and polishing pad)
- Perfect balance of haze and hologram vs speed of cut

MIR PC12-1L 1 litre
MIR PC12-5L 5 litre

Mirka Polarshine 20 Polishing Compound

NEW



- Medium-coarse polishing compound
- Suitable for scratch removal and is optimized to work on fresh clear and top coats
- Excellent cut leaves a very high gloss surface

MIR PC20-1L 1 litre

Mirka Polarshine 35 Polishing Compound

NEW



- Coarse polishing compound ideal for gel coats, high gloss lacquers, and composites
- Produces a high surface gloss, and minimizes the sanding steps
- Special emulsifying properties reduce risk of drying out or overheating the surface

MIR PC35-1L 1 litre
MIR PC35-5L 5 litre

Mirka Polarshine 45 Polishing Compound

NEW



- Coarse and fast cutting compound saves time while still achieving a perfect deep gloss finish
- Removes scratches from P600 and finer
- Use in both production and restoration of hard surfaces
- Ideal for one step polishing of white and light coloured gel coat surfaces

MIR PC45-025L 250 ml
MIR PC45-1L 1 litre
MIR PC45-2.8L 2.8 litre

Mirka Marine Polishing Kit

NEW



- Professional polishing kit takes the guesswork out of marine surface care
- Includes:
  - PC10-1L Polarshine 10, 1 litre
  - PC45-1L Polarshine 45, 1 litre
  - MPADTW-7.5-1.5 twisted white wool cutting grip buff pad 7.5" x 1.5"
  - MPADTWY-7.5-1.5 twisted yellow yarn medium grip buff pad 7.5" x 1.5"
  - FY-6MF-400 Galaxy multifit abrasive 400, 50/pk
  - FY-6MF-600 Galaxy multifit abrasive 600, 50/pk
  - FY-6MF-800 Galaxy multifit abrasive 800, 50/pk
  - M-9915G microfibre cleaning cloth, 2/pk
  - GOLDCOOLERBAG storage and cooler bag

MIR MUS-MP5KIT 5" abrasives
MIR MUS-MP6KIT 6" abrasives

Osborne Marine Residue Remover



- An innovative product to remove barnacles and marine growth from propellers
- Made using organic acid salts (non-corrosive to skin)
- Much safer and easier to use than muriatic acid

CMP BD-128 3.78 litre (gallon)

Protocol Xtreme Marine Washdown



- Removes deeply embedded stains, yellowing, rusts, residues, and grime from a variety of marine surfaces
- Safer than hydrochloric acid and other corrosive cleaners
- Biodegradable and not marine polluting

PRO XTREME-MARINE-WASHDOWN 500 ml

Protocol Deep Clean Xtreme



- Industrial-grade alkaline cleaner and degreaser, designed to clean a variety of grease, grime, and dirt off most surfaces, including stainless steel and metals
- Can be used on any surface that is not damaged by water and moisture, and can be used full strength or diluted with cold tap water, depending on surface and soil level
- Water-based, fully biodegradable formula

PRO DEEP-CLEAN-XTREME Gallon

Shurhold Brite Wash



Brite Wash is an environmentally safe, concentrated wash soap that will not strip wax or polish while resisting water spots even in hard water. One ounce will clean a 40 foot boat!
Brite Wash is safe and effective on:

- All fibreglass and gel coat exterior surfaces
- Clear Eisenglass panels, glass & plastic, canvas/ canopies and stainless steel railings

SHU YBP-0301 948 ml (32 oz)

Shurhold Pro Polish Wax & Sealant



- Polymer wax offers superior protection and performance over traditional waxes without the use of talc powder
- Protects surfaces from the effects of the sun with UV inhibitors
- Safe on fibreglass, paint and metal

SHU YBP-0202 473 ml (16 oz)

Skippers Watershedz

NEW



- Restores lost water and stain repellency to as new levels
- Protects against water-based and oil-based stains
- Does not alter fabric colour, feel, or breathability
- Safe for synthetic and natural fibres

CMP SP8050 800 ml (27 oz)
CMP SP8051 3.78 litre

Smell Zapper B-Gone



- Safely removes the impossible: Adhesive, tar, grease, asphalt sealer, oil and glue
- Safe for finished surfaces
- Environmentally safe
- Rinses easily in water leaving behind a surface that is totally film-free
- 100% biodegradable & non-flammable

SME BGONE * 473 ml (16 oz)
* Special Order - may have stock

Smell Zapper Spot Remover



- Effective against all types of stains including oils, ink, food stains and many other difficult spots on carpets, rugs and upholstery
- When used on carpet, ERASE restores nap and texture
- Free of chlorinated solvents
- Deodorizes as it penetrates and cleans; won't leave any residue
- Works on new & old stains!
- 100% biodegradable, non-flammable & has a clean scent

SME ERASE * 473 ml (16 oz)
* Special Order - may have stock

Smell Zapper Odour Eliminator



- Designed to quickly and permanently eliminate organic odors such as urine, feces, sewage, fish scents etc.
- Can be used on any water safe fabrics/surfaces
- 100% biodegradable & non-flammable

SME ODOR-ELIMINATOR * 946 ml (32 oz) spray
* Special Order - may have stock

Smell Zapper Smoke Eliminator



- Permanently eliminates odors caused by smoke, cannabis, kitchen fires, cigarettes/cigars and cooking
- Ideal & safe to use on any water safe fabrics/surfaces for boat rentals and restoring in-trade value of your boat
- Use sparingly - a little goes a long way
- 100% biodegradable, non-flammable & pleasant scent!

SME SMOKE-ELIMINATOR * 946 ml (32 oz) spray
* Special Order - may have stock

Spray Nine Grez-Off



- Water soluble biodegradable degreaser
- Cuts through heavy oil and grime
- Non-flammable with no unpleasant odours

SP9 C12532 946 ml, spray
SP9 C12501 3.78 lires refill

Spray Nine Multi-Purpose Cleaner - Marine



- Great for preventing mold and mildew growth
- Marine formulation cleans grease, grime, streaks, algae, bird and insect debris, and more
- Disinfects and kills germs
- For non-porous surfaces

SP9 C27946 946 ml, spray

Spray Nine Multi-Purpose Cleaner



- Cuts through stubborn grease, grime, and hard-to-remove soils
- Disinfectants and kills germs
- For non-porous surfaces

SP9 C26804 4 litre refill

Spray Nine Bottom Cleaner



- Gel formula clings to and penetrates the toughest boat fouling, oil slick, algae and rust stains
- Works above and below the water line
- Non-abrasive and hydrochloric-acid free
- For fibreglass, plastic, metal and wood hulls

SP9 C30832 946 ml (32 oz)

Star brite Ez-On-Ez-Off Hull Cleaner



- Water based environmentally friendly formula
- Removes stains and scum lines
- Special buffering process makes this safer then acid based bottom cleaners

STA 92832 946 ml (32 oz)

Star brite Instant Hull Cleaner



- Removes stains from grassy marine growth, scum line and rust stains
- Use on fibreglass, metal, and painted surfaces
- Easy to use spray or wipe on formula - no rubbing required
- Biodegradable

STA 81732 946 ml (32 oz)
STA 81700 3.78 litre (gallon)

Star brite Gel Hull Cleaner



- New Gel formula "sticks" where applied for maximum cling time and cleaning power
- Specifically formulated to remove the toughest stains, including rust, dried fish blood and leaf stains
- Works on all fibreglass and painted surfaces; ideal for vertical surfaces
- Does not contain harmful acids, safe and easy to use

STA 96132 946 ml (32 oz) spray

Star brite Boat Bottom Cleaner



- Removes marine deposits, scum lines, and rust quickly and easily
- Water based, environmentally friendly & biodegradable formula
- Buffering process makes this product safer than other acid based bottom cleaners

STA 92200 3.78 litre (gallon)
STA 92232 946 ml (32 oz)

Star brite Non-Skid Deck Cleaner With PTEF



- Cleans away ground-in dirt and stains
- Safe to use, contains no harsh chemicals
- Leaves a protective coating to repel dirt and stains
- No hard scrubbing or rubbing
- Will not remove wax or polish
- A very effective, all-surface cleaner for fibreglass, vinyl, plastic, metal, and painted surfaces

STA 85932 946 ml (32 oz)
STA 85900 3.78 litre (gallon)

Star brite Foam Spray & Cleaner

NEW



- Designed for foam decking; formulated for EVA, PE, and blended marine foam pad materials
- Deep clean formula removes tough stains, grime, fish blood, sunscreen, and salt deposits
- Restores original look and improves grip on foam pads
- Spray on, scrub lightly, and rinse clean - no mixing required; quickly penetrates to lift dirt without heavy scrubbing
- Non-acidic and biodegradable, safe for marine environments

STA 204922C 650 ml (22 oz) spray
STA 204932C 946 ml (32 oz)

Star brite Bilge Cleaner



- Biodegradable
- Easy to use; just pour in, run boat, pump out
- Dissolves and eliminates oil, grease, fuel, scum, and sludge
- Will not harm fibreglass, rubber hoses, wiring, metal, or plastic

STA 80532 946 ml (32 oz)
STA 80500 Gallon

Star brite Ultimate Xtreme Clean



- Removes even the toughest dirt and grease stains, even on tough to clean porous surfaces
- Special chelating agents break the bond that holds dirt or stains to the surface without heavy scrubbing
- Cleans fiberglass, vinyl, plastic, metal, and even inflatable boats
- Phosphate free formulation is safe for use on or near the water; runoff will not harm sealife or cause algae blooms

STA 83222 650 ml (22 oz) spray

Star brite Mildew Stain Remover

- Removes mildew stains on contact
- Simple spray on application
- Use on vinyl covers, headliners, cushions, etc

STA 85616 650 ml (22 oz) spray



Star brite Instant Black Streak Remover

- Instantly removes black streaks caused by water run off
- Safe for use on fibreglass, metal and painted surfaces
- Just spray on and hose off
- Contains no harsh acids or alkalies

STA 71622 650 ml (22 oz) spray



Star brite Rust Stain Remover

- Wipe out rust stains
- Easy to use spray on formula
- No rubbing or scrubbing required
- Safe for use on fibreglass, metal and painted surfaces

STA 89222 650 ml (22 oz) spray



Star brite Spider & Bird Stain Remover

- Quickly dissolves messy spider and bird droppings
- Nontoxic, all-natural formula
- Contains no bleach; safe for use around kids and pets
- Will not remove polish or wax

STA 95122 650 ml (22 oz) spray



Star brite Vinyl Cleaner & Polish

- Shines and protects all kinds and colours of vinyl
- Leaves a long lasting, waterproof protective coating
- Keeps vinyl soft and supple, prevents drying out and cracking
- Provides protection against UV damage & weathering
- Ideal for restoring stained and faded vinyl

STA 91016 473 ml (16 oz)



Star brite Vinyl Cleaner

- Formulated to blast away the toughest dirt, grime, and greasy stains from vinyl, plastic, rubber, and leather surfaces
- Use on upholstery, interior/exterior trim, foul weather gear, outdoor cushions or canopies, and more
- Contains no harsh acids or caustic cleaners; won't harm vinyl

STA 96232 946 ml (32 oz)



Star brite Ultimate Vinyl Guard with PTEF

- Enhances appearance and UV protection to vinyl, rubber, plastic, and leather surfaces
- Formulated to restore suppleness to vinyl exposed to the harsh marine environment
- PTEF polymers bond to treated surface to form a barrier that helps repel stains and UV rays; acts like a sunblock for vinyl surfaces

STA 95932 946 ml (32 oz) spray



Star brite Ceramics Vinyl Protect

- SiO2 ceramic protection prevents fading and staining
- Restores suppleness to vinyl, rubber, plastic, and leather surfaces

STA 203922C 650 ml (22 oz)



Star brite Premium Cleaner Wax With PTEF

- Cleans, shines and protects in one step
- Quick and easy to use
- Specially formulated for fibreglass, metals and painted surfaces
- PTEF polymers & UV inhibitors help prevent fading and oxidation

STA 89616 473 ml (16 oz)



Star brite Ceramics Wash & Wax

- Powerful deep-cleaning surfactants blast through dirt and grime
- SiO2 ceramic technology guards against future staining
- Repels dirt, grime, dust, and waterspots for an easy-to-clean, candy-like finish

STA 203532C 1 L (32 oz)



Star brite Ceramics Wax & Seal

- SiO2 ceramic polymers create a super-slick, glossy shine that prevents water spots and UV damage
- Protection and durability that outlasts traditional waxes
- Candy-like finish keeps surface lustrous and oxidation free

STA 204116C 473 ml (16 oz)



Star brite Non-Skid Deck Wax

- Provides a non-slippery barrier against stains and UV exposure
- Helps restore luster to fibreglass decks
- Helps keep decks clean and stain-free

STA 97316 473 ml (16 oz) spray



Star brite
Premium Restorer Wax



- Heavy-duty premium restorer wax
- A one-step formula that easily removes medium to heavy chalk & oxidation
- No hard rubbing or buffing required
- Special UV inhibitors guard against fading, and eliminate the need to use rubbing compound, followed by wax
- Ideal for use on coloured fibreglass hulls
- Can be applied by hand or with a buffer

STA 86016 473 ml (16 oz)

Star brite
Premium Marine Polish with PTEF



- Leaves an unbelievably tough, super slick finish
- Actually repels dirt, grime, oil and stains

STA 85716 473 ml (16 oz)

Star brite Marine Polish



- #1 selling polish
- Good for new and older boats
- Helps stop fading from UV rays
- No hard rubbing required
- Lasts up to 4 times longer than other polishes

STA 80116 473 ml (16 oz)

Star brite
Ceramics Speed Detailer



- Infused SiO2 ceramic polymer for maximum protection against UV, spotting, and staining
- For use on fibreglass, vinyl, painted surfaces, polished metal, and rubrails

STA 203722C 650 ml (22 oz) spray

Star brite
Waterproofing & Fabric Treatment



- Top rated waterproofing
- Prevents rot and mildew
- For boat covers, bimini tops, sail covers, clothing, and tents
- Allows fabric to "breathe"

STA 81922 650 ml (22 oz) spray

Star brite
Water-Based Waterproofing



- Adds and restores water-repellency to new, delicate, aged, worn, or sun-damaged fabrics
- Solvent-free, water-based formula
- Can be used while the boat is in or near water
- Use on boat tops, covers, cushions, and other outdoor fabrics

STA 82222 650 ml (22 oz) spray

Super-Tuff



- All purpose cleaner degreaser
- Environmentally safe, non toxic, biodegradable
- Cleans dirt, grease, oil, mildew, blood stains, rust, wax, soap scum, black scuff marks and carpet stains
- This product should be used with care: use full strength on those really "Tuff" jobs
- No bleach, acid, or phosphates

CMP SP8040 1 litre
CMP SP8041 4 litre

Super-Tuff GREEN



- Ready to use concentrated cleaner degreaser
- Intended for daily use
- Takes the guess work out of mixing

CMP SP8056 950 ml spray

3M High Power Spray Gun Cleaner



- Helps reduce the use of cleaning solvents
- Compatible for cleaning waterborne and solvent-based coatings
- Aerosol cleaner is low VOC - less than 25 g/L
- Designed for use on metal spray equipment or composite/plastic components

THR 26689 426g (15 oz)

3M Mildew Stain Remover



- Easy spray application
- Removes mildew stains from most marine surfaces
- Use to remove mildew stains from vinyl, covers, cushions, and other marine surfaces

THR 09067 ** 500 ml (16.9 oz) spray
** While Stock Lasts

3M Sharpshooter Mark Remover



- No-rinse formula cleaner for quick, easy removal of soil and grease
- This powerful cleaner penetrates and loosens buildup quickly
- Convenient and effective

THR 19344 946 ml (32 oz) spray

NOT for retail sale - Boatyards ONLY

3M Super Duty Rubbing Compound



- Recommended for heavy aggressive compounding of paint
- Clings to paint surface - remains wet on the job with little or no mess
- Maintains high rate of cut with constant pressure
- Buffs to high gloss with minimum of swirl marks
- Can be used by hand or by machine

THR 05955 3.78 litres (128 oz)

3M Perfect-It Rubbing Compound



- Designed medium-cutting compound for removing grade 1200, 1500 and 2000 colour-sanding scratches in paints including clear coats
- Formulation produces minimal compound swirl marks while buffing to a high gloss

THR 05973 946 ml (32 oz)

3M Perfect-It EX Rubbing Compound



- Designed to remove P1200 and finer scratches with either a wool pad, or a foam compounding pad
- Non-gritty formula works on all types of automotive paints, leaving an extremely fine finish with easy clean-up

THR 36060 946 ml (32 oz)

3M Perfect-It EX Machine Polish



- Quick and effectively helps to remove compound swirl marks, leaving an outstanding finish
- Polish is a wetter formulation than the regular 3M Perfect-It Machine Polish, which allows for a longer work time without drying
- The polish can be used with the foam polishing pad 05726

THR 06094 946 ml (32 oz)

3M Perfect-It EX Ultrafine Machine Polish



- Eliminates swirl marks and produces a high gloss finish, even on dark coloured surfaces
- Good handling, easy cleanup

THR 06068 946 ml (32 oz)

3M Scotch Gard Protector for Outdoor Fabric



- Extra-strength formula gives added protection against rain, salt water, dirt and oily spills
- Causes no change in look, feel or breathability of fabrics
- Great for canvas and outdoor apparel

THR 55563-SG-O 297 gr

303 Aerospace Protectant



- Matte finish with no oily and greasy residue
- Prevents fading and cracking
- Restores lost colour and luster
- Powerful UV blockers
- Anti-static, repels smudges, dust, soiling and staining
- Easy to use, simply spray on and wipe dry
- Safe and effective for vinyl, clear vinyl, gel-coat, fiberglass, carbon fiber, synthetic/natural rubber, plastics and finished leather

303 130340 473 ml (16 oz) spray
303 130313 946 ml (32 oz) spray
303 130370 3.78 litre refill

303 Touchless Sealant



- Provides superior water beading
- Protects against paint fading
- Lasts up to 2x longer than traditional wax
- Spray on, rinse off
- Great for use on windshields, wheels, glass, and paint

303 130371 946 ml (32 oz)

303 Fabric Guard



- Strengthens and restores water repellency
- Greatly increases stain resistance
- Prevents mold and mildew
- Maintains colourfastness
- Keeps fabrics soft and breathable
- Safe for synthetic and natural fibers

303 130616 473 ml (16 oz) spray
303 130606 946 ml (32 oz) spray
303 130674 3.78 litres (gallon) refill

303 Multi-Surface Cleaner



- Ultimate cleaning power with no residue
- Safely brightens & rejuvenates surfaces
- Designed for all water-safe materials
- Leaves surfaces looking new every time

303 130207 473 ml (16 oz) spray

Wash Safe Clean All



Clean All is a 100% eco-friendly, non-toxic, 4-in-1 liquid concentrate that not only cleans, but also sanitizes, degreases, and deodorizes.

- Strong enough to degrease your engine compartment, but gentle enough to wash stain off your hands
- Can be used at full strength for tough jobs, or diluted (1:4 or 1:6) for easier cleaning needs
- Safe for all boat surfaces - plexiglass, stainless steel, aluminum, fibreglass, black streaks and fender scuffs, fenders, inflatables, life jackets, vinyl cushions, awnings, sail covers, sail stains, fridges, heads, bilges, engines, and exhaust stains
- Does not kill mold and mildew, but will effectively loosen growth on hard, non-porous surfaces, making it very easy to wipe the mold and soiling off

WSF WS-CA-500ML ** 500ml, 12/case
** While Stock Lasrs

Wash Safe Marine Mold & Mildew Wash



- Non-toxic cleaner, safe for oceans, lakes, rivers, and all aquatic life
- Very space efficient, made from super concentrated powder with no expiration date
- Eliminates organic matter on your boat, including mold, mildew, algae, fish blood and bird feces on decks, vinyl upholstery, carpet, bilges, toilet bowls, live wells and refrigerators

WSF WS-MW-850 850 grams (1.9 lbs)

Wash Safe Rust Off



- Removes rust stains from fibreglass, metal, vinyl, cloth, wood, sails
- Simply spray on and rust disappears

WSF WS-RO-32OZ 946 ml (32 oz) spray
WSF WS-RO-1GAL 4 litre
WSF WS-RO-5GAL 5 gallon

Aqua-Tek Poly Clear Marine



- For use on vinyl windows, glass, plexiglass, lexan, plastic, acrylic, wood, mirror, marble, polished stone, stainless steel, brass, bronze,and chromium
- Brilliant appearance
- Does not damage vinyl windows
- Reduces maintenance time and effort
- Dry product without greasy film
- Long-lasting cleanliness
- Eliminates hard water stains on plastic windows

AQU 53014 650 ml

Klear-To-Sea



- Cleaner and preservative for plastics, lexan, polycarbonates, acrylic, clear vinyl, glass, isinglass, strataglass, mirrors, windshields or anything optical
- Anti-static, anti-fog, anti-smudge and repels dust
- Gives a lustrous "Klear" look with no streaking and no wax
- Reduces glare
- No ammonia, no alcohol, no harmful abrasives
- Repairs light scratches with continued use
- Meets multiple MIL specs for acrylic and Lexan

CMP SP8008 550 ml aerosol
CMP SP8021 1 litre refill
CMP SP8020 474 ml trigger spray

Rain-X Glass Treament



Dramatically improves wet weather driving visibility, simply apply the treatment to exterior glass. Helps improve visibility by repelling rain, sleet and snow.

- Helps easily remove frost, ice, salt, mud and bugs
- *Not for use on plastics

RNX 36231 207 ml
RNX 36232 473 ml, spray

Spray Nine Glass & Stainless Steel Cleaner



- Removes dirt, dust, fingerprints, smudges, and light grease from glass, stainless steel, and metal
- Clinging action formula is ideal for vertical surfaces
- Leaves no streaks

SP9 C23319 600 g (21 oz)

Rain-X Anti-Fog Interior



- Prevents fogging of interior windshields, windows, and mirrors before the problem begins
- Improves visibility
- Also removes smoke residue
- Do not use on glass treated with anti-reflective or scratch resistant coatings

RNX 36236 355 ml

Rain-X Plastic Treatment



- Applies water beading technology to dramatically enhance visibility
- Provides a superior water beading coating on various plastics including Lexan, Plexiglass, Perspex, Lucite, Acrylics and Polycarbonate.
- Easily applied for a durable coating

RNX 75016 355 ml, spray

Meguiar's Plastx Plastic Polish



- For use on both rigid and flexible clear plastics
- Removes light oxidation, chemical degradation, surface contamination, stains and light surface scratches
- Contains water-resistant polymers for long lasting, durable protection

MEG G-12310C 296 ml (10 oz)

Aqua-Tek Sailboat Fuel



- Ideal dust, dirt and lint remover for keyboards, cameras, computers, printers and other electronic devices

AQU 51085 285 gr

Flitz Polish Paste



- A concentrated cream that cleans, polishes, deoxidizes and protects
- Non-abrasive, nontoxic, non-flammable, USDA authorized
- Protects up to 6 months in fresh water; up to 3 months in salt water
- Use on: Brass, copper, silverplate, sterling silver, chrome, stainless steel, nickel, bronze, solid gold, aluminum, anodized aluminum, beryllium, magnesium, platinum, pewter, factory hot gun bluing, painted surfaces, Formica, cultured marble, Corian, glass, plexiglass, plastics, fibreglass, eisenglass, and Armatel
- Easily removes: Tarnish, rust, water stains, chalking, lime deposits, heat discolouration, lead & powder residue, oxidation, bugs, tar, oil, fingerprints, tree sap, bird droppings, graffiti, dyes, black streaks/scuff marks

Not for electroplated finishes

FLZ BP03511	50 gr (1.76 oz)
FLZ BU03515	150 gr (5.29 oz)
FLZ CA03516-6	453 gr (16 oz)
FLZ CA03518-6	906 gr (2 lbs)

Aqua-Tek Stainless Steel Clean



- Non-abrasive, non-etching cleaner and treatment that brightens and leaves stainless steel and chrome surfaces unreactive
- Penetrates, lifts, emulsifies, and removes dirt, stains, oils, soot, corrosion pits, light rust, iron and other metallic contaminants, oxide deposits, hard water spots, salt deposits, soap scum, and organic matter
- Does not thin or cut chrome layers
- Environmentally friendly, non-flammable, non-corrosive, nontoxic, and PFAS-free

AQU 57800 650 ml

Blue Steel Treatment



- Combines chemical rust conversion properties with the protective characteristics of a tough surface film
- A single application stops rust and also primes the steel
- Can be applied by brush, deck scrubber or low pressure spray
- Compatible with most water-based and solvent-based coatings
- Clean-up with soap and water
- Allow to cure for 3-4 days before over coating with epoxy

BLS BLUEST2	474 ml
BLS BLUEST3	Litre
BLS BLUEST4	4 litre

BoatLIFE Stainless Steel Cleaner



Cleans and protects in one easy step. Non-streaking formula. Removes grease and stains. Easy spray-on, wipe-off. Leaves surface fingerprint resistant.

BOA 1134 16 oz, spray

Flitz Stainless Steel & Chrome Cleaner



- Powerful degreasing action
- Water-based & streak-free
- It easily cuts through grease buildup; won't discolour stainless steel
- Fast & easy - just spray & wipe
- Non-flammable

FLZ SP01506 473 ml (16 oz) spray

Flitz Stainless Steel & Chrome Polish



- Water-based formula, non-toxic, eco-friendly
- Produces a deep gloss shine
- Use on appliances, gas grills, vent hoods & more

FLZ SS01306 473 ml (16 oz) spray

Flitz Calcium, Rust, & Lime Remover



- Quickly and easily removes even the crustiest of stains, deposits and build-up
- Made of organic salt, it is safer and easier to use than traditional cleaners
- Recommended for removal of hard water spots and rust stains

FLZ CR01606 473 ml (16 oz) spray

Shurhold Yacht Brite Buff Magic



- Fibreglass reconditioner & metal polisher
- For steel, aluminum, brass, bronze, copper & gold
- Removes oxidation, gelcoat staining, surface rust, tarnish, plexglass scratches

SHU YBP-0101 624 gr (22 oz)

3M Stainless Cleaner/Polish



- For stainless steel, chrome, and all metal surfaces
- Wipes off without streaking and leaves no residue

THR C-10097-21OZ 21.5 oz aerosol

Wash Safe Rust Stopper



- Chemically converts rust overnight into a hard metal surface (iron phosphate)
- Can be painted over
- Coverage: 200 sq ft per quart

WSF WS-RS-32OZ 946ml, spray
WSF WS-RS-1GAL * Gallon
* Special Order - may have stock

Wichard Wichinox Cleaner



- Cleaning and passivating product for marine stainless steel and industrial applications
- Gel formulation makes it easy to apply, even in hard to reach places
- Safety cap

WIC 9605 250 ml

Star brite Ceramics Metal Protect



- SiO2 ceramic polymers block damaging UV, salt, corrosion, and dirt
- Excellent for pontoons, trailers, towers, and all raw or polished metals

STA 203322C 650 ml (22 oz)

Aqua-Tek Aluminum Cleaner



Extremely powerful acid-based formula. It removes algae quickly and efficiently on aluminum boat hulls as well as oily and greasy residues, stubborn black marks and stains, rust stains, scum, zebra and barn mussels. It is specially designed to restore the surfaces of unpainted aluminum boats and pontoons by giving them a glossy finish.

- Powerful cleaner that removes stubborn and difficult stains
- Extra fast and efficient cleaning action
- Phosphate free
- Easy to rinse

AQU 51020 950 ml
AQU 51021 4 L

Star brite Aluminum Polish



- Formulated to preserve the finish of all types of aluminum boats
- PTEF polymers provide UV protection and help repel dirt and stains

STA 87616 473 ml (16 oz)

Star brite Aluminum Cleaner/Polish



- Formulated to clean and restore stained or dull aluminum

STA 87764 1.89 litres (64 oz)

3M Marine Aluminum Restorer and Polish



Designed to remove oxidation, growth and stains and restore a lustrous appearance to bare aluminum. Also removes heavy oxidation and restores shine to most painted aluminum surfaces.

THR 09020 ** 510 gr (18 oz) paste
** While Stock Lasts

Sika Cleaning Wipes-120



- Hand and tool cleaning wipes
- Fast action loosens and dissolves tough-to-clean substances including dirt, heavy grease, adhesive, lubricants, oils, and much more
- Hands are left fresh and clean, and are conditioned with gentle emollients
- No rinsing, no drying, no residue left

SIK 737343 90 wipes/pail

Spray Nine Fast Orange Hand Cleaner



- Contains no harsh chemicals, mineral oils or ammonia that can sting cuts and abrasions
- Pure, fresh-smelling natural citrus power does the cleaning
- Fortified with aloe, lanolin, glycerin and other skin conditioners
- Fine Pumice formula gently deep cleans the toughest dirt

SP9 25117 443 ml
SP9 25142 1.42 litre
SP9 25219 3.87 litre

O'Keeffe's Working Hands



- Relief for dry hands that crack and split
- Contains a high concentration of Glycerin that draws in and retains moisture
- Includes Allantoin, an odorless, non-toxic and non-allergenic skin-protectant derived from the Comfrey plant

GOR K1350001 102 ml (3.4 oz)

O'Keeffe's Healthy Feet



- Relief for feet that crack and split
- Non-oil based and made with glycerin, that draws in and retains moisture
- Has a higher concentration of allantoin to remove dead skin cells for better penetration and absorption of moisture and moisturizing ingredients
- Also protects against damaging friction

GOR K1320001 96 ml (3.2 oz)

Mirka 8" Quick Disconnect Waffle Pads

NEW

- Thick, double sided pads with waffle face for better traction, easier user control, and less heat
- Use on any rotary polisher with 5/8" thread
- Can be used with MPAD-QD adapter for easy attachment and removal in seconds (sold separately)



- Scratch and defect removal

MIR MPADOF-8QD Orange

- Medium to coarse polishing

MIR MPADWF-8QD White

- Fine polishing with a high gloss finish

MIR MPADBF-8QD Black

Mirka Quick Disconnect Pad Adapter

NEW



- Holds up in heat generated by rotary polishers

MIR MPAD-QD

Mirka Twisted Wool Pads

NEW



- Pure wool pads for aggressive compounding and cutting applications
- Grip attachment

MIR MPADTW-6 6" x 1" pile

- Double sided, threaded attachment

MIR MPADDS-8 8" X 1" pile

- Double sided, quick disconnect attachment

MIR MPADTW-8QD 8" x 1.5" pile

Mirka Lambswool Pad

NEW



- Natural wool pad
- For general purpose use
- 2/pk

MIR MPADLW-6

3M Hookit SBS 7" Backup Pad



- Get easy attachment, quick removal and accurate centring of either the compounding or polishing pad with the Hookit system
- Thread size: 5/8"
- 7" diameter
- Max RPM: 3000

THR 05717 Each

3M Perfect-It SBS 7" Back-up Pad

- Designed for use with adapter (05710)
- Enables 3M Superbuff Pad users to use the 3M Perfect-it Foam Polishing Pad (05726) without having to remove the Superbuff adaptor from the shaft of the polisher
- Thread size: 5/8"
- 7" diameter
- Max RPM: 3000



THR 05718 Each

3M Hookit SBS System 9" Pads



05711

- Single sided wool compounding/ polishing pad system
- Produces exceptional finishes on today's paint systems
- The Hookit SBS System is designed to provide easy attachment and removal and accurate centring of the Hookit SBS Compounding or Polishing Pad to the Hookit SBS Back-up Pad
- 9" diameter, single sided
- 1/pkg

THR 05711 Compounding pad
THR 05713 Polishing pad

Accessories:
THR 05717 Hook-It back-up pad



05713

3M Finesse-it Knit Buffing Pad



- For use with random orbital sanders
- Made from wool fibers
- For applying the Finesse-it Finishing Material or Finesse-it Final Finish
- Has a Hookit attachment system
- 3" diameter x 15/16 trim length

THR 85078 Each

3M Superbuff Polishing 9" Pad

- A double sided, soft edge polishing pad, specially designed for use with a polisher and glaze
- Extremely fine fibres produces a high gloss on paint surfaces
- Long life, flexibility, lightweight and well balanced
- Fine, polishing pad
- Built-in lightweight back-up support
- 9" diameter, double sided
- Use with 05710 Superbuff adapter



THR 05705 Each

Accessories:
THR 05710 Adapter



05710

3M Superbuff III Compounding 9" Pad

- A double sided, 100% wool pad with a stiffer central hub for more cutting power
- This pad has untwisted wool yarn construction, which allows for more surface contact, while giving excellent cut and finish
- Excellent for hard paint
- Aggressive, fast cutting pad
- 9" diameter, double sided
- Use with 05710 Superbuff adapter



THR 05703 Each

Accessories:
THR 05710 Adapter



05710

3M Perfect-It Wool Compounding 9" Pad



- Double sided low linting 100% wool pad
- Designed to refine sanding scratches on finishes
- Provides a finer finish than most 100% wool pads without the linting mess
- Use with 3M quick connect adaptor, # 05752
- Suggested for use with Perfect-It rubbing compound

THR 33279 Each

Accessories:

THR 05752 Quick release adapter



3M Perfect-It Wool Compounding 9" Pad



- High performance double sided 100% wool compounding pad
- Refines P1200 and finer sand scratches and other paint surface defects
- Quick connect design

THR 05753 Each

Accessories:

THR 05752 Quick release adapter



3M Wool Polishing Pads



- A high performance, double sided yellow blended wool polishing pads
- Removes compound swirl marks and fine paint surface defects

THR 05754 9" each

Accessories:

THR 05752 Quick release adapter



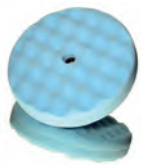
3M Paint Finishing Pad Kit



- Complete buffer kit for compounding, polishing and finishing paint defects
- Single-sided 4" Hook-It buffer pads are excellent for control and access in small areas or tight spaces
- Includes foam and 100% low-lint wool buffer pads for compounding
- Foam polishing pad is designed for removing compounding swirls and small paint defects

THR 30045

3M Ultra Fine Foam Polishing Pad



- Double sided ultrafine pad with quick connect
- Provides a swirl free finish with 3M Ultrafine Machine Polish (39062, 06068 or 06069)
- Use with 3M Quick Connect Adaptor 05752

THR 05708

Accessories:

THR 05752 Quick release adapter



3M Foam Polishing Pad



- Double sided pad with quick connect
- Provides high-gloss shine
- For use with Quick Connect Adaptor 05752, and Perfect-It Machine Polish (39061 or 06065)

THR 05707

Accessories:

THR 05752 Quick release adapter



3M Foam Compounding Pad



- Double sided pad with quick connect
- Use to remove sand scratches
- For use with 3M Quick Connect Adaptor 05752
- Suggested for use with Perfect-It Rubbing Compound (39060, 06086)

THR 05706

Accessories:

THR 05752 Quick release adapter



3M Perfect-It Foam Polishing 8" Pad



- Utilizes a 3M patented convoluted foam face
- Insert backing for self-centering and edge protection
- Aggressive cut
- Do not exceed 2500 RPM

THR 05737 Each, single sided

Accessories:

THR 05717 Back-up pad, Hook-It

THR 05718 Back-up pad, Perfect-It

3M Perfect-It Foam Polishing 8" Pad



- Designed to be used with the 3M back up pad (05718)
- Specially designed convoluted foam face to produce a wheel mark free finish on topside paint or during acrylic and polycarbonate plastic reconditioning

THR 05725 Ssingle sided, 2/pkg

Accessories:

THR 05718 Back-up pad

3M Perfect-It Foam Compounding 8" Pad



- Used to apply compound to remove sand scratches and swirls
- Convoluted foam face design holds compounds better, i.e., reduces slinging of compound
- Use backup pad 05717
- For extremely fine finishing

THR 05723 Single sided, 2/pkg

Accessories:

THR 05717 Back-up pad

3M Hookit Foam Polishing 3" Pad



- Hookit foam polishing pad
- Convoluted foam face for cool and swirl free polishing
- Easy-On-Easy Off 3M Hookit attachment
- Ideal size for getting into hard to reach areas

THR 05726 Each, single sided

Shurhold Serious Pad Cleaner



- Formulated powdered cleaner for rejuvenating buffing pads. Mixed with water this cleaner dissolves compounds and waxes from wool, foam and blended buffing pads.
- Also great for cleaning dock lines along with microfiber and cotton bonnets

SHU 30803 340 g (12 oz)



Shurhold Dual Action Polisher Pro

- Orbit (21mm) and pad size (7")
- 6" quick change backing plate
- 2 different ergonomic gripping styles
- EZ change carbon brush ports
- Thumb controlled variable speed dial (1,800-4,800 OPM)
- Locking on button
- 120V AC, 60Hz
- 7.5 amp, 900 watt
- Weight: 6 lbs - (2.72kgs)
- Power Cord: 20 feet
- Includes a detailed user guide and canvas storage bag

SHU 3500



Accessories:

SHU 3530	6" quick change backing plate
SHU 3552	7" polishing foam pad, red
SHU 3554	7" cutting pad, orange
SHU 3555	7" heavy oxidation pad, blue



Shurhold Pro Rotary Polisher

This super powerful true rotary polisher cuts, polishes, and buffs.

- 7" quick change backing plate
- 3 different ergonomic gripping styles
- EZ change carbon brush ports
- Thumb controlled variable speed dial (600 - 3200 RPM)
- Locking on button
- 120V AC, 60Hz
- 12 amp, 1400 watt
- Backing Plate: 177mm (7"), pad size: 190mm (7.5")
- Weight: 9.4 lbs - (4.39kgs)
- Power Cord: 20 feet
- Includes a detailed user guide and canvas storage bag

SHU 3400



Shurhold Dual Action Polisher Kit

- Random action orbital polisher
- Rated power: 500 watts
- 6 speed: 2,500-6,500 OPM
- 20' power cord w/GFCI plug
- 4.8 lbs
- Includes: Polisher
  - Pro Polish liquid wax sealant & polish (16oz)
  - Pro Polish foam finishing pad
  - Microfibre towel
  - Quick change backing plate & wrench
  - Heavy duty carry bag

SHU 3101 Kit

Buff Magic Pads



- A general purpose, light cutting pad
- 6-1/2" 100% premium wool
- Perfect for removal of oxidation
- Hook & loop backing

SHU 3151 2/pkg

Pro Polish Pads



- 6-1/2" black foam finessing pads
- Decreases polish absorption
- Prevents pad skipping
- Reduces heat & friction
- Hook & loop backing

SHU 3152 2/pkg

Buff Magic Foam Pads



- A general purpose, light cutting, compounding, foam pad
- 6-1/2" in diameter
- Dimpled pattern pad face runs cooler
- For removing oxidation, swirls and scratches

SHU 3154 2/pkg

Pro Polish Scrub Brushes



Dual action polisher scrub brushes.

- Stiff (White) for teak and heavily stained areas.
- Medium (Yellow) for medium duty cleaning and scrubbing. Works well on carpets.
- Soft (Yellow Flagged) for general duty cleaning and scrubbing. Also great for waxing non-skid.
- All brushes are designed to easily fit Shurhold's Dual Action Polisher.





SHU 3205	Stiff, white
SHU 3206	Medium, yellow
SHU 3207	Soft, yellow, flagged

Shurhold Brite Bonnet Final Polish Pads



The Brite Bonnet is a shaggy microfiber pad used to remove excess wax and buff your surface to a final shine. This unique pad is designed with a vapor barrier inside so it may be fitted over a wet wax pad for quick use.
For use with the Dual Action Polisher (3101).

Not compatible with the Pro Rotary Polisher (3400) or Dual Action Polisher Pro (3500)

SHU 3153	5"
SHU YBP-3153	7-1/2"

Camco Adjustable Broom



- Handle adjusts from 52" to 24"
- 9-1/2" broom head folds for storage & two position use
- Soft bristled head adjusts to different angles for maximum cleaning power
- Handy dustpan clips onto broom handle for storage

CAM 43623

Camco Dust Pan & Whisk Broom



- Small size makes it easy to keep handy
- Whiskbroom snaps into dust pan when not in use
- Includes whiskbroom and dust pan
- Whiskbroom is 10" wide

CAM 43945

Shurhold Broom

Angled broom that attaches to handles.

SHU 120



B&H Deck Brushes

Set in 4-1/2" dia. molded plastic head that fits tapered and threaded handles.



BAH 852BR	Brown, stiff
BAH 852BL	Soft, blue PVC
BAH 852Y	Poly, medium
BAH 852T	Natural tampico (absorbent)

B&H Wood Handles

For deck brushes or brooms.



BAH 5248	Tapered 48"
BAH 5254	Tapered 54"
BAH 5260	Tapered 60"
BAH 6148	Threaded 48"
BAH 6154	Threaded 54"
BAH 6160	Threaded 60"

Camco Boat Hook



- Multi-purpose Boat Hook has many uses including a centered push-off and line carrier
- Fits all Camco Handles and most other brands

CAM 41940 *
* Special Order - may have stock

Easy Reach Brush with Bumpers



- Larger footprint to provide more cleaning power
- Integrated bumper prevents scuffing and allows access to hard to reach spaces
- 9-1/2" length

EAS 173B ** Stiff blue polyestrene
** While Stock Lasts

Easy Reach Multi-Surface Brush



- Oval shape is ideal for multipurpose cleaning applications
- Three-hole designed block allows use of brush at multiple angles
- Flagged green nyltex bristle; 2" trim
- 9-1/2" x 5-3/4"

EAS 196 **
** While Stock Lasts

Easy Reach Extendable Handles



- Heavy duty aluminum handle with zinc thread
- 1-1/4" outer tube over 1" inner tube

EAS 480A **	4' - 8'
EAS 510A **	5' - 10'

** While Stock Lasts

Sea-Dog Bucket of Brushes



A 3.5 gallon bucket packed with a variety of soft, medium, and stiff brushes to be used with Sea-Dog boat hooks or other ACME threaded device.

- Includes 1 ea.: soft, medium, and stiff three-sided bristle brushes, combo soft bristle brush and squeegee, and medium angled bristle brush

SED 916125

Sea-Dog Boat Hook Brush



- Three-sided bristle brushes fit all universal threaded devices
- Soft bristles are safe for gelcoat, paint and plastic windows
- Medium bristle is a good overall brush for textured and non-skid surfaces
- Side bristles make it easy to clean in hard to reach places
- 10-1/2" head is longer than industry standard covering a larger cleaning area
- W: 10-1/2" x H: 3-5/8" x D: 3-1/4"

SED 491070-1	Soft / Blue
SED 491080-1	Medium / Yellow
SED 491090-1	Stiff / White

Sea-Dog Combination Soft Bristle Brush & Squeegee



- Universal Acme thread
- Fits all Sea-Dog boat hooks
- Soft brush with injected molded nylon/rubber squeegee
- W: 3-1/4" L: 10-3/8" D: 2-3/4"

SED 491075-1

Sea-Dog Boat Hook To Lock Button Adapter



Allows the Sea-Dog boat hook to be used with Shurhold and other accessories that have a lock button attachment system.

- Fibreglass filled injection molded nylon

SED 491060-1

Shurhold Mate Brush & Handle

For the budget minded customer who wants quality without the SHUR-LOK system.



7" Hardwood brush with safety bumper mounted on a 48" threaded wood handle.

SHU 1950	Stiff polypropylene
SHU 1955	Medium polystyrene
SHU 1960	Soft flagged polystyrene

Shurhold Hammerhead Brush



- Soft, contoured body that is comfortable and easy to grip when hand washing
- Fits onto all Shurhold handles
- Equipped with the SHUR-LOK II quick-release system, it will not spin or pop off during use
- Bi-level design; special fibres set at different angles in the brush head allow for horizontal or vertical cleaning
- 4-1/2" x 8"

SHU 2110

Shurhold 900 Series Combo Brush



- Combo deck brush is perfect for gentle washing along with areas that require more effort
- Features longer soft fibers for washing, and medium short fibers for scrubbing, as you push down harder on stubborn spots, the stiffer fibers take over
- Snaps into any Shurhold handle
- Solid wood block and rubber wraparound bumper.

SHU 965 6"

Shurhold Swivel Pads and Scrubbers



Swivel pad base with the SHUR-LOK adapter.

SHU 1700



Swivel pad combo that includes swivel pad base with the SHUR-LOK adapter and synthetic lambs wool cover.

SHU 1710C

Synthetic lambs wool cover.

SHU 1710



SHU 1700F	Scrubber pad - Fine (each)
SHU 1700M	Scrubber pad - Medium (each)
SHU 1700C	Scrubber pad - Coarse (each)
SHU 1701	Fine scrubber pad (2/pkg)
SHU 1702	Med. scrubber pad (2/pkg)
SHU 1703	Coarse scrubber pad (2/pkg)
SHU 1715	Microfibre pad cover, grey



1715

Shurhold Brushes

900 series brushes feature a hard wood base, premium bristles, wrap around safety bumper, flared bristles, and angled heads.



SHU 950 6" stiff brush, white polypropylene bristles
SHU 955 6" medium brush, yellow polystyrene bristles
SHU 960 6" soft brush, yellow polystyrene bristles
SHU 970 6" extra soft blue nylon bristles



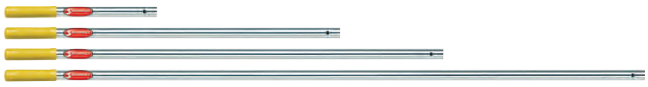
SHU 980 10" soft brush, yellow polystyrene bristles
SHU 985 10" med .brush, yellow polystyrene bristles
SHU 990 10" stiff brush, white polypropylene bristles



Great for windows, hulls, wheels, and other hard to reach areas.

SHU 50 5" round soft brush, yellow polystyrene bristles
SHU 310 8" nylon soft brush, blue nylon bristles
SHU 308 8" soft brush, yellow polystyrene bristles

Shurhold Handles



Handles are made from triple anodized, heat treated aluminum and quickly lock with all Shurhold accessories.

SHU 713 13" fixed length
SHU 730 30" fixed length
SHU 740 40" fixed length
SHU 760 60" fixed length



SHU 833 72" telescoping, locks at 4 lengths from 43"-72"
SHU 855 108" telescoping, locks at 5 lengths from 63"-108"

Shurhold Handle Mate PFD



- Protects surfaces from scratches and dings
- High-quality neoprene sleeve with closed cell foam insert
- Handles will now float for easy retrieval

SHU 760H For 760 handle
SHU 833H For 833 handle
SHU 855H For 855 handle

Shurhold Boat Hook



- Feature SHUR-LOK quick release adapter
- 3 in 1 boat hook that features a line carrying feature, centre push off, and a basic boat hook

SHU 130

Shurhold Adapters and Extensions



Threaded adapter that is compatible with most internally threaded products.

SHU 101



10" curved adapter adds a 30 degree angle to any of the four SHUR-LOK equipped accessories. Two holes at the end provide a 180 degree rotation.

SHU 102CH

Shurhold Hand Held Brushes



Includes unique spot scrubber on handle.
- L: 6" x W: 2-1/2" x H: 2"

SHU 270 Utility brush



Soft comfortable handle and safety bumper.
- L: 7-1/4" x 3-3/4" x H: 4-1/2"

SHU 272 Scrub brush



Stiff chemical resistant bristles.
- Length overall: 8-1/4" x Head: 3-1/2" x 3-1/2"

SHU 274 Dip & scrub brush



Stiff chemical resistant bristles.
- Length overall: 20" x Head: 3-1/2" x 3-1/2"

SHU 276 Dip & scrub brush

NEW



Star brite Extend-A-Brush Telescoping Handles

- Aircraft-grade, triple-anodized aluminum
- Floats
- Equipped with two non-slip hand grips and a secure twist lock
- Quick connect/disconnect is compatible with all Star brite Extend-A-Brush accessories

STA 40000 3' - 6'
STA 40005 5' - 10'

Star brite 8" Brushes



40011

- Polypropylene construction which is impervious to salt, sun & chemicals
- Will not crack split or warp like wood brushes
- Fits on Davis 4122, 4132 & 4152 or standard threaded hardwood handles

STA 40010 Stiff
STA 40011 Medium
STA 40013 Soft

Star brite Hand Scrub Brush



Nylon Bristles set in a shaped plastic block with a contoured handle.

- L: 6" x W: 2-1/4" x H: 3-1/4"

STA 40027

B&H Mop



Yacht Mops of 3-ply yarn, securely bound with rustproof wire to finished 48" handle.

BAH 06020 16 oz / 450 gr

Sea-Dog Boat Hook Microfibre Mop



- Injection molded nylon base
- Soft 15" long microfibre strips provide gentle and effective cleaning action
- Highly absorbent, scratch resistant, and fast drying
- Fits all Sea-Dog boat hooks/poles and universal Acme threaded devices

SED 491105-1

Shurhold Water Sprite Mop



- Premium mop with highly absorbent strips able to dry more in less time
- Resistant to mold and mildew, as well as household chemicals
- Snap-on, compatible with any Shurhold handle

SHU 117 Standard
SHU 117XL X-Large

Shurhold Wave Mop



- Snap on mop works with all Shurhold handles
- Exclusive wave pattern helps mop to glide smoothly
- Absorbs 5x more water than average mops, yet wrings out easily
- Resistant to mold and mildew

SHU 115 Standard
SHU 116 X-large

Shurhold Mop



All mops are oversized and feature the exclusive SHUR-LOK quick release adapter.

Synthetic chamois mop, super absorbent.

SHU 113 **

** While Stock Lasts

Shurhold Squeegees



All squeegees are constructed of stainless steel and feature the exclusive SHUR-LOK quick release adapter.

SHU 1412 12"
SHU 1416 16"

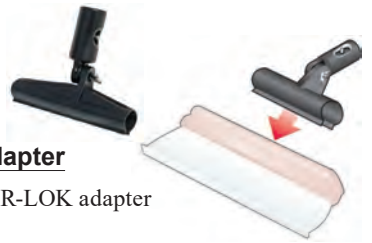
Shurhold Flexible Water Blade



12" flexible water blade easily molds to curved surfaces, drying in 1/3 the normal time. Patented T-Bar edge eliminates water spotting without chamois and towels.

SHU 260

Shurhold Flexible Water Blade Adapter



- Water blade holder to SHUR-LOK adapter

SHU 265

Sea-Dog Boat Hook Hull Scraper



- Attach to any Sea-Dog boat hook/boat pole or universal/acme threaded device
- Great for waterline cleaning on the vessel, and scraping ice from windshields
- Injection molded nylon
- W: 6" x H: 3"

SED 491108-1

Shurhold Flexible Rope & Cord Brush





- Cleans 1/2" - 1" rope
- Ideal for boat line
- Simple to use and store
- Works on twisted & braided line
- 4" x 3"

SHU 273

Simms Scratch & Scraper Brush



- Wire brush with long handle and metal scraper attached
- Size: 12" x 1-1/4"

SIM 6350

Simms Wire Scratch Brushes



Wire scratch brush with long handle.

Part #	Wire Rows	Size
SIM 6330	3	14" x 1-1/8"
SIM 6340	4	14" x 1-1/8"

Star brite Stainless Steel Cleaning Brush



- Stainless steel wire bristles are stapled into a curved hardwood block
- Bristle trim 1-3/16"
- Block size: 14" x 1-1/8"

STA 40059

Star brite Detail Brush



- Block size 7-1/8" x 7/16"

STA 40062 Nylon bristles

Star brite Detail Brush Set

NEW



- 3-piece detail brush set includes nylon, brass, and stainless brushes
- Nylon brush is non-abrasive for delicate surfaces and light cleaning
- Brass brush for cleaning metal connections and removing corrosion
- Stainless brush with heavy duty design for tough dirt, rust, and durable surfaces
- Ergonomic plastic handles ensure a comfortable grip to reduce hand fatigue

STA 40073

Star brite Utility Brushes



40069

- Plastic handle, 5/8" bristle trim
- Block size: 7-1/4" x 1-1/2"

STA 40070 Nylon bristles
STA 40069 Brass bristles

Star brite Ultimate Magic Sponge + Scrub Xtend



- The perfect tool for reaching and eliminating annoying black marks and scuffs on your boat or RV without the strain of scrubbing on your hands and knees.
- Dual-articulating connector allows pad to stay in contact with varying angled surfaces
- Screw-thread adapter included
- 1 swivel pad, 4.5" x 9.75"

STA 41010
STA 41011 Refill scrubber pad

Star brite Large Scrub Pad Kit



- Great for tackling many different cleaning jobs
- Fine, medium, and coarse scrub pads included can be switched out, depending on the level of scrubbing needed
- The premium handle is durable and comfortable to hold for long periods. It grips pads easily, and inludes a scraper for removing tough, dried on grime

STA 42023 4.5" x 10"

Star brite Magic Sponges



- The fastest way to remove stains, scuffs and streaks from fibreglass and vinyl surfaces

STA 41001 Small, 2-1/2" x 4", each
STA 41008 Large, 4" x 7", display 8/pkg

3M Extra Large Commercial Sponge



- Extra large commercial sponge
- Excellent quality, highly absorbent sponge
- 7.5" x 4.3" x 2"

THR 80200C-41

Shurhold PVA Sponge & Towel



- PVA sponges absorb more than regular sponges
- Faster and more effective drying
- Prevents water spots on all surfaces
- Resists mold and mildew
- L: 6-3/4" x H: 3" x D:1-3/8".

SHU 210

- Absorbs 50% more than natural chamois
- Extra large size: 17" x 27"

SHU 220

Shurhold Microfibre Towels



3-Pack of towels includes:
(1) Polish & Shine-Super soft
(1) Wash & Wax-Xtra strong
(1) Glass & Mirror- Lint free

SHU 293 16" x 16"

Star brite Ultimate Water Absorber



- Lint-free, reistant to chemicals, mold, and mildew, and can easily last years
- Super soft and safe to use on any gelcoat, fibreglass, eisenglass, and plastic
- Machine washable, and stores in its own packaging

STA 42046 26" x 17"

Shurhold Microfibre Wash Mitt



- Plush chenille fibres designed to clean the most sensitive surfaces while holding tons of clean soapy water

SHU 286

Meguiar's Micro-Fibre Wash Mitt



- Extra thick, clear coat safe, Microfibre lifts and traps dirt and grime for a swirl-free finish
- Comfort-fit cuff and soft inner lining
- 7.5" x 11.5"

MEG X-3002

FBS Compression Spray Pump



- Performance compression sprayer with enclosed end cap pump design
- Expert-FKM/PA sealing materials and technical plastics
- Can be used for wax and grease removers, brake and parts cleaners, degreasing and cleaning agents, and surface coatings (not for acetone or other non-compatible chemicals)

FBS 50100 1 L
Accessories:
FBS 50175 Repair kit

FBS FPV-FPE Spray Pump



- Performance Series pump and spray with enclosed end cap pump design
- FPV sealing materials and FPE technical plastics
- Added 1/4" connector for compressed air charge or manual pump option
- Strong steel pump cylinder rod, and internal pressure release valve
- Provides a conical or stream spray pattern
- Can be used for gun wash, solvents, brake parts cleaners, wax and grease removers, pre-conditioners and final wipes, engine degreasers and cleaning agents, surface coatings, as well as products containing acetone, toluene, xylene, MEK, etc

FBS 50300 1 L
Accessories:
FBS 50375 Repair kit

FBS FPV/FPE Acid Spray Pump



- Acid resistant compression sprayer for applications with acid based cleaners
- FPV sealing materials, technical plastics, and acid proof metal parts
- Trigger “safety clip” to prevent accidental spraying, and enclosed “end cap” pump design
- Can be used for wheel and rim cleaners, metal and steel parts cleaners, aluminum cleaners and brighteners, as well as industrial, aviation, marine, and household acid cleaners

FBS 50350 1 L

FBS Colour Coding Caps



- Set of (5) colour coding caps for easy chemical identification
- Specifically designed to snap onto FBS Pump & Spray head units
- Compatible with 1L and 1.8L FBS Pump & Spray bottles

FBS 50160

FBS WHMIS Label Set



- Set of (5) WHMIS identification labels and protective films
- Affix to Pump & Spray bottles for easy identification of the chemical being used in the sprayer

FBS 50161

Rags



Rags White Terry Rags

White / Off White.

RAG TO201-8 8 lb

1 White Wipers

White / Off White cotton blend broadcloth shirts and pants. An economic mix, which can be used for most jobs, including solvent cleaning.

RAG WHO201-10 10 lb

1 Flannel Rags

Coloured cotton flannel material. This is a medium weight wiper, ideal for many jobs, low lint, soft, absorbent, great for polishing.

RAG FLO301-10 10 lb

Ganzies Rags

RAG WHO601-8.8 8.8 lb

1 White Ganzies Rags

All "T" shirt material which is knit cotton and cotton blends.It is very low in lint and is colourfast in solvent. Ideal for pre-paint preparation and wood staining. New double cut rags are half the normal size for smaller jobs and greater cost controls.

RAG WHO701-10 10 lb

Polo Coloured Rags

Dark coloured "T" shirt material, which is knit cotton and cotton blends. This is an economical wiper, excellent for most jobs.

RAG CO901-10 10 lb

Kimberly-Clark Wypall L20 Rags



- Textured for extra cleaning power
- No adhesives or binders
- Multi-ply capacity for large spills
- 12.5" x 16.8"
- White

RAG 34607 176/box

Kimberly-Clark Wypall Manufactured Rags



- Extra-tough WYPALL wipers
- No adhesives or binders
- Reinforced for extra scrubbing power
- Tough enough for big jobs and soft enough for face and hands
- White colour.
- 12.5" x 16.8"

RAG 54015 180/box

Camco Collapsible Oval Bucket



- Over 18" wide for ease of use with large wash brushes
- Collapses to 2-3/4" tall to fit in its own easy to carry storage bag (included)
- 18-1/4" x 9-1/2" x 10-1/2"
- 5 gallon capacity

CAM 42973

Camco Collapsible Round Bucket



- 3 gallon (11L) capacity
- Opens easily to 9.25" (23.5 cm) tall and folds to less than 2" (3.5 cm) tall for compact storage
- Zippered storage bag included.

CAM 42993

Camco TastePURE Drinking Water Hoses

NEW



- Premium grade PVC hose with diamond-hatch reinforcement and UV-stabilization for maximum kink resistance and durability
- Lead, BPA, and phthalate-free
- NSF/ANSI 61 certified hose for drinking water

CAM 22783 5/8" x 25'
CAM 22793 5/8" x 50'

Camco TastePURE Premium Hose



- Heavy duty reinforced 5/8" ID drinking water hoses are 20% thicker than our standard hoses
- Rated for 300 PSI and NSF listed
- BTA free
- Anti-kink design, machined fittings and strain-relief ends for added durability

CAM 22853 ** 5/8" x 50'
** While Stock Lasts

Camco EVOFlex Drinking Water Hose



- Extra flexible hose holds no memory, making it easier to position and store
- Drinking water safe; BPA-free, lead-free, and phthalate-free
- Won't leave a strong plastic taste in your water
- Features nickel-plated machined fittings
- UV stabilized

CAM 22596 5/8" x 50'

Fairview Star Brand Water Hose



Yellow Star:
Quality hose, 1/2" x 50' hose with machined brass hose couplings. 125 P.S.I.

FRV WH8YEL-50H *
* Special Order

HoseCoil Standard Series Hose Coils



- 3/8" ID Standard HoseCoil feature a 4" coil and single strain relief for reduced kinking
- Standard 3/4" garden style fittings

HCH HS1500HP 15'
HCH HS2500HP 25'

HoseCoil Pro Series Hose Coils



- Tough and rugged, featuring a large 4.75" coil and dual strain reliefs to reduce kinking
- 1/2 ID provides 30% increase in flow rate over 3/8" ID
- Standard 3/4" garden style fittings

HCH HCP1500HP 15'
HCH HCP2000HP 20'
HCH HCP2500HP 25'

HoseCoil Flexible Hose Kits



- 600 PSI rating
- Protected by UV-resistant 1000D Tetoron fabric outer cover
- Resistant to abrasion, fading, and mold
- Dries quickly
- Field-serviceable hose fittings are built from non-marring sturdy black plastic, and spigot fitting has brass end for added strength
- Includes WN510 spray nozzle with soft rubber comfort grip and impact resistant tip

HCH HF25K 25'
HCH HF50K 50'
HCH HF75K 75'

Plastair ELASTO Hardshell Stretch Hoses



- Resists rips, tears, scuffs, and punctures while remaining flexible in all weather conditions
- Drinking water safe
- Outfitted with a Swivel Quick Connector that eliminates hose twisting and tangling
- 3/4" ID for maximum water flow

PLA SH-15-1 ** to 15'
PLA SH-25-1 ** to 25'
PLA SH-50-1 ** to 50'
** While Stock Lasts

Plastair Deluxe Hose Kits



- Retains flexibility in hot or cold
- Excellent flexibility, lightweight and compact
- Chromed brass fittings
- Grip guard on working end
- Lifetime warranty

PLA PUW650B9M30T ** 50' hose only
PLA WNE-G-1 ** Nozzle only
** While Stock Lasts

Teknor Apex Neverkink Drinking Water Hose



- Flexible, and made with kink-resistant technology
- Drinking water safe and lead safe
- Ergonomic leak proof coupling for easier attachment to the faucet
- Made in the USA with a lifetime replacement guarantee

TEK 8604-25 ** 5/8" x 25'
TEK 8604-50 ** 5/8" x 50'
** While Stock Lasts

Teknor Apex zero-G Water Hose



- 50% lighter in weight than standard garden hoses
- Abrasion, leak, and puncture resistant G-Force woven fibre outer cover provides longer performance
- Tru-Flex inner core minimizes kinking, yet still coils easily for storage
- Commercial grade crush-resistant coupling with brass insert to prevent corrosion
- Drinking water safe and lead safe
- 600 PSI burst rated
- Made in the USA with a 5 year warranty

TEK 4001-25 ** 5/8" x 25'
TEK 4001-50 ** 5/8" x 50'
** While Stock Lasts

HoseCoil Flush Mount Hose Enclosure



- Mounts into the deck or bulkhead
- Supplied with hardware
- Clear PETG housing material with polyethylene locking lid
- Brass fitting on bottom for attachment of a drainage hose
- Includes 3/8" ID 15' high performance HoseCoil, nozzle, and hardware to pressurized water system or washdown pump
- Dimensions: 8" dia x 13" depth, requires 6-3/4" cut out and 13" below deck clearance

HCH HC15F

HoseCoil Side Mount Hose Enclosure



- Side mount enclosure
- Durable, high density ABS
- Includes 3/8" ID 15' HoseCoil with nozzle and hardware to connect directly to pressurized water system or raw water washdown pump
- W: 8" x H: 15"

HCH HC15S

HoseCoil Horizontal Mount Hose Enclosure



- Constructed of durable, high-density ABS
- Includes 3/8" ID 25' HoseCoil with nozzle and 5' feeder hose for connecting to an external water spigot
- Can be plumbed directly into existing pressurized water system or raw water washdown pump
- W: 20.5" x H: 9.5"

HCH HC25H2

HoseCoil Skipper Spray System

NEW



- Short hose washdown system includes self-coiling hose, nozzle, and a quick release & swivel fitting
- High performance polyether material hose, and metal body nozzle with brass spray mechanism
- Boat Bumper nozzle has a big rubber tip to protect surfaces, thumb lever control, and adjustable spray pattern
- Strain relief on spigot end reduces kinking
- Fits standard 3/4" garden fittings

HCH HS2011K 20'

Plastair Flush Mount Hose Enclosure



- Multi pattern nozzle
- Drinking water safe
- Resistant to ultra violet sun rays
- Comes complete with an internal mount enclosure, 15' spring hose deluxe, and S/S screws
- Flange OD: 7-7/16" x 7-7/16"
- Flange cutout: 5-1/4" x 5-1/4"
- Mounts: 16-3/4" deep from flange
- Lifetime warranty

PLA PUW615IC30T **
** While Stock Lasts

T-H Marine Wash Down Station & Hose



- 25' coiled hose with nozzle
- Chrome brass fittings stay corrosion free
- Five foot supply hose with female hose fitting
- Can be directly plumbed to pumps or affixed to existing wash down fitting

THM WDHH-25W-C-DP

Shurhold Hose Strap





- Convenient one-piece, sturdy construction
- Has a hang-up hole
- Adjustable strap holds a variety of hose lengths
- May also be used for extension cords, ropes and power cables

SHU 289

Groco Pistol Grip Nozzle



- Built for continuous use with salt water
- All parts are corrosion-free plastic
- Internal stainless steel return spring
- Carded for display

GRO PGN-50

HoseCoil Hose Nozzle



- Adjustable spray pattern
- Comfort grip
- Smooth action handle
- Fits all standard 3/4" garden style fittings
- Plastic body

HCH WN510

HoseCoil Hose Nozzle



- Adjustable spray pattern
- Comfort grip
- Thumb action lever
- Fits all standard 3/4" garden style fittings
- Metal body

HCH WN810

HoseCoil Hose Nozzle



- 9 spray patterns: flat, shower, cone, jet, soaker, angle, mist, centre, and full
- Fits all standard 3/4" garden style fittings
- Strong plastic body with solid brass fittings and internal components
- Contoured rubber grip, and impact resistant rubber dial

HCH WN515

Jabsco Spray Nozzle



- High impact plastic spray nozzle
- Adjusts from mist to full stream
- Lock clip for continuous spray
- Includes quick connect adapter

JAB 30703-1000

Shurflo Spray Nozzle



- High impact plastic spray nozzle
- Adjusts from mist to full stream
- Lock clip for continuous spray

SHR 94-010-00

Shurhold Hose Nozzle



- Ergonomically-shaped, die-cast zinc hose nozzle body has a soft, black, vinyl grip for a comfortable hold
- Includes a hold-open clip for a constant water flow and has a stainless steel spring

SHU 288







Bulls Eye Power Nozzle

- Delivers 50% more power & uses 50% less water
- Will not break & will not leak
- Adjusts from POWER mode to heavy SPRAY, pin point PRECISION, and leak proof OFF

BLY POWER-NOZZLE	Bulk
BLY POWER-NOZZLE-CARDED	Carded
BLY FISHBOWL-SMALL	Bowl display w/25 units

Sea-Dog Hose Klip Water Hose Lock for Deck Fills



- Stops your hose from coming out of the deck fill during filling
- Compression fitting locks into place for hands free operation
- Fits most 1-1/2" deck fills

SED 357393-1

Camco TastePURE RV & Marine Water Filter



Improve the taste and smell of your drinking water for up to 120 days. Filters down to 150 microns.

CAM 40646

Camco TastePURE KDF/Carbon Water Filter



- Larger capacity filter lasts an entire season
- Greatly reduces bad taste, odours, chlorine and sediment in drinking water
- 100 micron fibre filter
- In-line, exterior mount filter has a wider body to increase flow.
- Includes flexible hose protector to minimize kinking that impedes water flow

CAM 40013

Camco TastePURE Water Freshener



- Eliminate algae and slime build-up from drinking water tanks
- Keeps stored water fresh & odour free
- 1 oz for each 20 gallons of water

CAM 40200

► *Also See* Water Filtration Systems pg 05-009

Camco DIY Winterizing Kit



- Quickly and efficiently services inboard/outboard marine engines
- Allows flushing and preparation of boat engine for winter storage with just five gallons of antifreeze and your flusher

CAM 65501

Camco Bypass Kit



- Save on antifreeze when you winterize with this easily-installed, permanent, water heater bypass kit
- Sturdy, brass backflow preventer and 100% shut-off valve lets you bypass the water heater with a single turn

CAM 35983

Camco Pump Converter



- Permanent kit installs with an adjustable wrench and comes complete with brass valve, siphon hose, Teflon tape and pump adapters

CAM 36543

Camco Blow Out Plugs



- Completely clear your water lines
- Screw the plug into the city water inlet, open all drains and faucets, attach and activate air pump until all lines are clear

CAM 36103 Plastic
CAM 36153 Brass

Camco Heater Drain Plug



- Replace water heater valves with sturdy, easily-installed brass replacements that last a lifetime

CAM 11703

Camco Hand Pump Kit



- Pump antifreeze directly into your waterlines and supply tanks
- Kit includes flexible connecting line with city water connection

CAM 36003

Martyr®
ANODES

Al premium – # 1 choice for salt and brackish water
SALT AND BRACKISH WATER

Mg fresh – Safe option for fresh water
FRESH WATER ONLY

Zn traditional – Trusted proven salt water results
SALT WATER ONLY

Only the best anodes ensure repeat business for dealers.
Order today!

martyranodes.com



DOCK EDGE®
Your Dock • Your Way

Built to Take the Hit.

Dock Edge® Premium Fenders

Tough. Reliable. Proven.

- ✓ Multiple styles & sizes
- ✓ Marine-grade durability
- ✓ Protection you can trust

Stock Dock Edge.

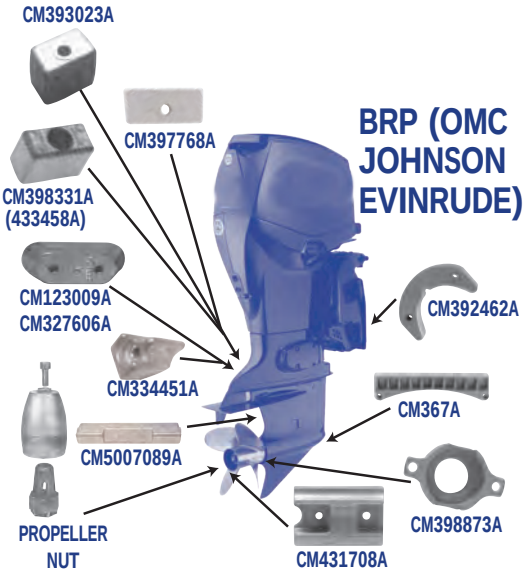
dockedge.com

Martyr® Al premium

SALT AND BRACKISH WATER

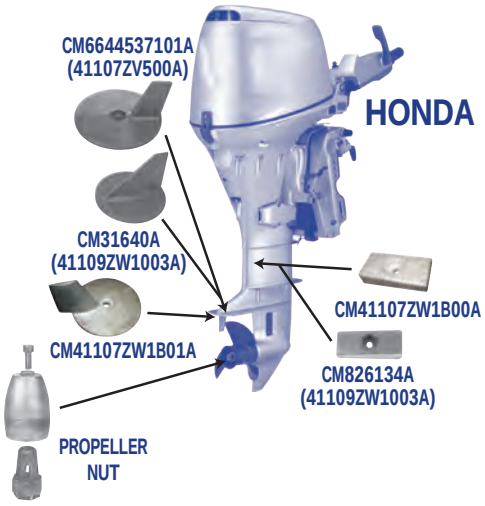
Protect your boat, respect our waters.

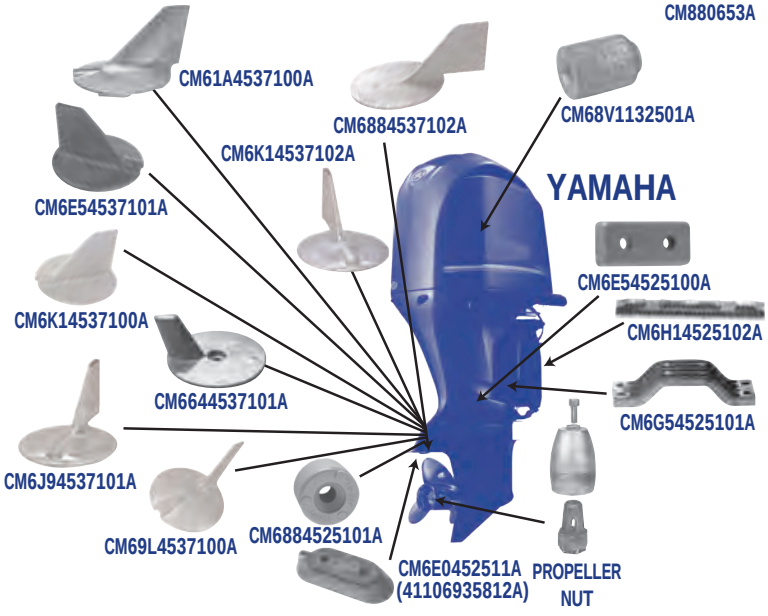
OUTBOARDS











Martyr® is a registered trademark of Canada Metal (Pacific) Limited. Martyr® Anodes are manufactured under an ISO-9000 series Quality Assurance Program to original equipment standards and are guaranteed to conform to the latest US Mil-DTL-24779C(SH) specification for Aluminum anodes.

Check anodes regularly and replace them when they are 70% consumed.

Protects longer and is more efficient than Zinc.
Protect your investment in salt and brackish water with genuine Martyr®Anodes because...
Not all "Zincs" are created equal.

STERN DRIVES

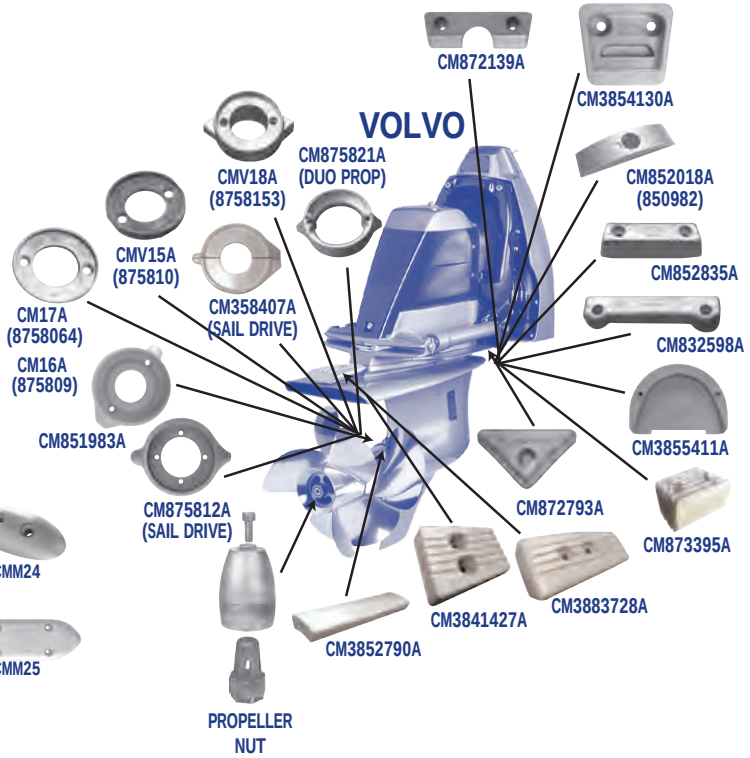
MERCRUISER



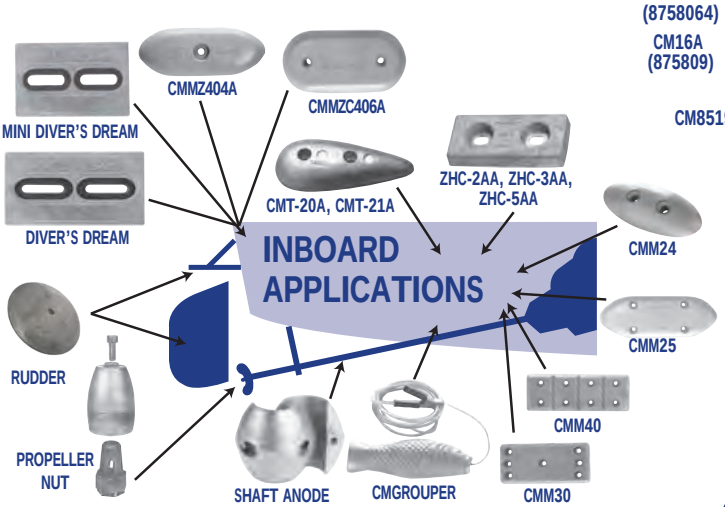
(BRP) OMC



VOLVO



INBOARD APPLICATIONS



Kits available for Mercury, Yamaha & Volvo

sales@martyranodes.com • www.martyranodes.com
See your dealer for full listing.



Martyr

ZINC: *SALT WATER ONLY*
Zinc Alloy: US Mil-A-18001K

ALUMINUM: *SALT & BRACKISH WATER*
Aluminum Alloy: US Mil-A-24779(SH)

MAGNESIUM: *FRESH WATER ONLY*
Magnesium Alloy: AZ91D

ZINC - For use in salt water
Not recommended for use in fresh water
Alloy is manufactured to meet or exceed US Military Specification

ALUMINUM - For use in salt and brackish water
Performs better, protects longer than Zinc
Alloy is manufactured to meet or exceed US Military Specification

MAGNESIUM - ONLY for use in fresh water
Not recommended for use in salt or brackish water
The only alloy proven to protect your boat in fresh water

Committed to Protecting the Environment!

Martyr
BRP OMC / JOHNSON EVINRUDE Anodes

These anodes are direct replacements on OMC engines and meet or exceed specified requirements.

Part #		
CMT 367Z	ZN	
CMT 123009A	AL	
CMT 123009M	MG	
CMT 123009Z	ZN	
CMT 327606Z	ZN	
CMT 389999Z	ZN	
CMT 393023Z	ZN	
CMT 392123Z	ZN	
CMT 392462Z	ZN	
CMT 397768Z	ZN	
CMT 398331Z	ZN	
CMT 431708Z	ZN	
CMT 433580Z	ZN	

Martyr
BRP OMC / JOHNSON EVINRUDE Anodes

Part #		
CMT 980756Z	ZN	
CMT 982277Z	ZN	
CMT 983494Z	ZN	
CMT 984547M	MG	
CMT 983952Z	ZN	
CMT 984547Z	ZN	
CMT 984513M	MG	
CMT 984513Z	ZN	
CMT 5007089Z	ZN	

Martyr
BRP Evinrude E-TEC G2 Anode Kits

CMT ETECG2KITA AL
CMT ETECG2KITM MG

- 5007089
- 355964
- 357507
- 5009138
- Fasteners



Martyr HONDA BF40-50 HP Anode Kit

CMT HBF4050KITA AL

- 41107ZV500
- 06411ZV5
- 41109ZW1003 / 826134 (x2)
- Fasteners



Martyr HONDA BF75-90-115 Anode Kits

CMT HBF75115KITA AL
CMT HBF75115KITM MG

- 41107ZW1B01
- 06411ZW1
- 41109ZW1B00 (x2)
- Fasteners



Martyr
HONDA Anodes

These anodes are direct replacements on Honda engines and meet or exceed specified requirements.

Part #		
CMT 06411ZV5Z	ZN	
CMT 06411ZW1Z	ZN	
CMT 31640Z	ZN	
CMT 41109ZW1B00A	AL	
CMT 6644537101A CMT 6644537101M CMT 6644537101Z	AL MG ZN	

Martyr
LEWMAR Anodes



CMT 589150Z	ZN	Bolt hole: .33"
CMT 589350Z	ZN	Bolt hole: .41"
CMT 589550Z	ZN	Bolt hole: .70"

Martyr
MERCURY Anode Kits

Complete kits ready for installation.



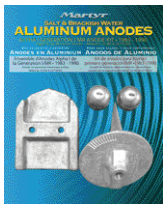
CMT ALPHAKITA AL
CMT ALPHAKITM MG
CMT ALPHAKITZ ZN

Alpha I Generation II Kit 1991-present
6 piece anode kit, blister packed.
- 762145A
- 806105A
- 821629CA
- 821631A
- 806189A (x2)
- Fasteners



CMT 8M0107548KITA AL
CMT 8M0107548KITM MG
CMT 8M0107548KITZ ZN

EFI 75-150HP
4 piece anode kit, blister packed.
- 8M0057772
- 826134 (x2)
- 762145
- Fasteners



CMT ALPHAGEN1KITA AL
CMT ALPHAGEN1KITM MG
CMT ALPHAGEN1KITZ ZN

Alpha I Gen I / MR Anode Kit 1983-1990 4 piece anode kit, blister packed.
- 31640A
- 55989A (x2)
- 821631A
- Fasteners

Martyr
MERCURY Anode Kits

CMT BRAVO1KITA AL
CMT BRAVO1KITM MG

Bravo I Kit 1988-present
5 piece anode kit, blister packed.
- 762145A
- 806188A
- 821630C2A
- 806190A (x2)
- Fasteners



CMT BRAVO23KITA AL
CMT BRAVO23KITM MG

Bravo II & III Kit 1989-present
4 piece anode kit, blister packed.
- 762145A
- 821630C2A
- 806190A (x2)
- Fasteners



CMT BRAVO3KITA AL
CMT BRAVO3KITM MG
CMT BRAVO3KITZ ZN

Bravo 2004-present
- 821630C2A
- 806190A (x2)
- 762145A
- 865182CA
- 762144A
- Fasteners



CMT VERADO4KITA AL Verado 4
- 818298A
- 826134A
- 762145A
- Fasteners



CMT VERADO6KITA AL Verado 6
- 880653A
- 892227A (x4)
- 826134A (x2)
- 762145A
- Fasteners



CMT 8M0116590KITA AL
CMT 8M0116590KITM MG
CMT 8M0116590KITZ ZN

Verado MMP Series
7 piece anode kit, blister packed.
- 826134 (x2)
- 762145
- 892227 (x2)
- 8M0012083
- 8M0001734
- Fasteners



Martyr

ZINC: *SALT WATER ONLY*
Zinc Alloy: US Mil-A-18001K

ALUMINUM: *SALT & BRACKISH WATER*
Aluminum Alloy: US Mil-A-24779(SH)

MAGNESIUM: *FRESH WATER ONLY*
Magnesium Alloy: AZ91D

Martyr MERCURY Aluminum Kits





CMT 806189KITA AL
- 806189A (x2)
- Fasteners

CMT 806190KITA AL
- 2 x 806190A
- Fasteners

Martyr MERCURY Anodes

These anodes are direct replacements on Mercury engines and meet or exceed specified requirements.

Part #		
CMT 31640A	AL	
CMT 31640M	MG	
CMT 31640Z	ZN	
CMT 34127Z	ZN	
CMT 34762Z	ZN	
CMT 43994M	MG	
CMT 43994Z	ZN	
CMT 46399Z	ZN	
CMT 55989A	AL	
CMT 55989M	MG	
CMT 55989Z	ZN	
CMT 43396Z	ZN	
CMT 76214M	MG	
CMT 89949Z	ZN	

Martyr MERCURY Anodes

Part #		
CMT 762144A	AL	
CMT 762144M	MG	
CMT 762144Z	ZN	
CMT 762145A	AL	
CMT 762145M	MG	
CMT 762145Z	ZN	
CMT 984325Z	ZN	
CMT 806105A	AL	
CMT 806105M	MG	
CMT 806105Z	ZN	
CMT 806188A	AL	
CMT 806188M	MG	
CMT 806188Z	ZN	
CMT 806189A	AL	
CMT 806189M	MG	
CMT 806189Z	ZN	
CMT 806190A	AL	
CMT 806190M	MG	
CMT 806190Z	ZN	
CMT 818298A	AL	
CMT 818298M	MG	
CMT 818298Z	ZN	
CMT 821630C2A	AL	
CMT 821630C2M	MG	
CMT 821630C2Z	ZN	
CMT 821631A	AL	
CMT 821631M	MG	
CMT 821629CA	AL	
CMT 821629CZ	ZN	
CMT 822157C2Z	ZN	
CMT 826134A	AL	
CMT 826134M	MG	
CMT 826134Z	ZN	
CMT 865182CM	MG	
CMT 8M0137814A	MG	

Martyr
NISSAN-TOHATSU Anode



This stern bracket anode is a direct replacement on Nissan/Tohatsu engines and meets or exceeds specified requirements.

CMT 3C7602181A0Z ZN

Martyr
SUZUKI 40-50 HP Anode Kits



CMT SZ4050KITA AL
CMT SZ4050KITM MG
- 5532095310 (x2)
- 5532187J00 (x4)
- 5512595500
- Fasteners

Martyr
SUZUKI 90-100-115-140 HP Outboard Kits



CMT SZ90140KITA AL
CMT SZ90140KITM MG
- 5532190J01
- 1113094600 (x4)
- 3C7602181A0
- Fasteners

Martyr
SUZUKI 150-350 HP Kits



CMT SZ150350KITA AL
CMT SZ150350KITM MG
CMT SZ150350KITZ ZN
- 3C7602181A0
- 5532187J00 (x8)
- 5532095310 (x3)
- Fasteners

Martyr
SUZUKI Anodes

These anodes are direct replacements on Suzuki engines and meet or exceed specified requirements.

Part #		
CMT 551259630Z	ZN	
CMT 5512587D00Z	ZN	
CMT 5532095310Z	ZN	
CMT 1113094600Z *	ZN	

* Special Order - may have stock

Martyr
VOLVO 280 Kits





CMT 280DPKITA AL Dual prop
CMT 280DPKITM MG Dual prop
- 875821A
- 832598A
- Fasteners

CMT 280KITA AL
CMT 280KITM MG
- V18A
- 832598A
- Fasteners

Martyr
VOLVO 290 Kits





CMT 290DPKITA AL Dual prop
CMT 290DPKITM MG Dual prop
- 875821A
- 852835A
- Fasteners

CMT 290KITA AL
CMT 290KITM MG
- V18A
- 852835A
- Fasteners

Martyr
VOLVO DPH Kits



CMT DPHKITA AL
CMT DPHKITM MG
CMT DPHKITZ ZN
- 3588745
- 3863206
- Fasteners

Martyr
VOLVO Aluminum SX-A/DPS Kit



Fits Volvo SX-A/ DPS engines

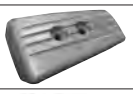
CMT SXAKITA AL
- 3841427A
- 3883728A
- Fasteners

Martyr
VOLVO SX Kits



CMT SXKITA AL
CMT SXKITM MG
- 3854130A
- 3855411A
- Fasteners

Martyr
VOLVO Anodes

Part #		
CMT 3841427Z	ZN	
CMT 3588745A	AL	
CMT 3588745Z	ZN	
CMT 3854130A	AL	
CMT 3854130M	MG	
CMT 3854130Z	ZN	
CMT 3855411A	AL	
CMT 3855411M	MG	
CMT 3855411Z	ZN	
CMT 3863206A	AL	
CMT 3863206Z	ZN	
CMT 3883728A	AL	
CMT 3883728M	MG	
CMT 823661Z	ZN	
CMT 832598A	AL	
CMT 832598M	MG	
CMT 832598Z	ZN	
CMT 838929A	AL	
CMT 838929M	MG	
CMT 838929Z	ZN	
CMT 851983Z	ZN	
CMT 852835A	AL	
CMT 852835M	MG	
CMT 852835Z	ZN	
CMT 872139Z	ZN	
CMT 872793Z	ZN	
CMT 873395A	AL	
CMT 873395M	MG	
CMT 875812M	MG	
CMT 875812Z	ZN	
CMT 875821A	AL	
CMT 875821M	MG	
CMT 875821Z	ZN	
CMT 852018Z	ZN	
CMT 40005875A	AL	
CMT 40005875Z	ZN	

Martyr
VOLVO Anodes

These anodes are direct replacements on Volvo engines and meet or exceed specified requirements.

Part #		
CMT V15	ZN	
CMT V16	ZN	
CMT V17	ZN	
CMT V18A	AL	
CMT V18M	MG	
CMT V18	ZN	

Martyr

ZINC: SALT WATER ONLY
Zinc Alloy: US Mil-A-18001K

ALUMINUM: SALT & BRACKISH WATER
Aluminum Alloy: US Mil-A-24779(SH)

MAGNESIUM: FRESH WATER ONLY
Magnesium Alloy: AZ91D

Martyr YAMAHA Anodes

These anodes are direct replacements on Yamaha engines and meet or exceed specified requirements.

Martyr YAMAHA 150 HP Outboard Kits

CMT Y150CRKITA AL
CMT Y150CRKITM MG
- 6G54525101
- 6K14537102
- Fasteners



Martyr YAMAHA 150/200 HP Outboard Kits

CMT Y150KITA AL
CMT Y150KITM MG
- 6J9437101A
- 6G54525101A
- Fasteners



Martyr YAMAHA 200/250 HP Outboard Kits

CMT Y200250KITA AL
CMT Y200250KITM MG
- 6G54525101
- 61A4537100
- Fasteners



Martyr YAMAHA 200/300 HP Outboard Kits

CMT YHP200300KITA AL
CMT YHP200300KITM MG
- 6G54525101
- 69L4537100
- Fasteners



Martyr YAMAHA MARINER 40/60 HP Outboard Kits

CMT Y4060KITA AL
CMT Y4060KITM MG
- 65W4525100 (x3)
- 67C4525100
- 67C4537100
- Fasteners



Martyr YAMAHA MARINER 60/90 HP Outboard Kits

CMT Y6090KITA AL
CMT Y6090KITM MG
- 6884537102
- 6H14525102
- Fasteners



Martyr YAMAHA Anodes

These anodes are direct replacements on Yamaha engines and meet or exceed specified requirements.

Part #		
CMT 6AW4525100Z	ZN	
CMT 6E54525100Z	ZN	
CMT 6E54537101A	AL	
CMT 6E54537101Z	ZN	
CMT 6E04525111A	AL	
CMT 6E04525111M	MG	
CMT 6E04525111Z	ZN	
CMT 65W4525100A	AL	
CMT 6G54525101A	AL	
CMT 6G54525101M	MG	
CMT 6G54525101Z	ZN	
CMT 6H14525102Z	ZN	
CMT 6J94537101A	AL	
CMT 6J94537101M	MG	
CMT 6J94537101Z	ZN	
CMT 6K14537100Z	ZN	
CMT 6L5452510300Z	ZN	
CMT 61A4537100A	AL	
CMT 61A4537100M	MG	
CMT 61A4537100Z	ZN	
CMT 61N4525101Z	ZN	
CMT 67C4525100A	AL	
CMT 67C4525100M	MG	
CMT 67C4525100Z	ZN	
CMT 67C4537100A	AL	
CMT 67C4537100M	MG	
CMT 67C4537100Z	ZN	
CMT 67F1132501A	AL	
CMT 67F1132501Z	ZN	
CMT 67F4537100Z	ZN	
CMT 68T4525100Z	ZN	
CMT 68V1132501A	AL	
CMT 6644537101A	AL	
CMT 6644537101M	MG	
CMT 6644537101Z	ZN	
CMT 6884525101Z	ZN	
CMT 6884537102A	AL	
CMT 6884537102M	MG	
CMT 6884537102Z	ZN	
CMT 69L4537100A	AL	

Martyr YANMAR Split Ring Anodes



CMT 19644002660KITA AL
CMT 19644002660KITM MG
CMT 19644002660KITZ ZN

Martyr YANMAR Engine Anodes



This anode is a direct replacement on Yanmar engines and meets or exceeds specified requirements.

CMT 272100200200Z ZN Short
CMT 272100200300Z ZN Standard

Martyr YANMAR Saildrive Ring



This anode is a direct replacement on Yanmar engines and meets or exceeds specified requirements.

CMT 19642002652Z ZN

Martyr BENETEAU Prop Nut Anodes



Direct replacement for Beneteau Prop nut.

CMT LAEC3250 ZN 22/25 mm prop nut
CMT AN225 ZN Zinc only

CMT LAEC3300 ZN 30 mm prop nut
CMT AN230 ZN Zinc only

Martyr FLEXOFOLD Prop Anodes



- For Flexofold propellers

CMT PNFXA AL 0.4 lb
CMT PNFXZ ZN 1 lb

Martyr FLEXOFOLD 2-Blade Prop Anode



- For Flexofold 2-blade propellers

CMT PNFF2Z ZN .12 lb

Martyr SIDE POWER Prop Anodes



CMT SGSL565A AL
CMT SGSP626A AL
CMT SGSP31180A AL
CMT SGSP501180A AL
CMT SGSP501180Z ZN
CMT SGSL565Z ZN
CMT SGSP626Z ZN

Martyr MAX PROP Anodes



- Direct replacement for Max Prop
- Round

Part #		Size	For Shaft Size	Weight lbs
CMT MP63RA	AL	63 mm	3/4"-1-1/8"	.25
CMT MP70RA	AL	70 mm	1-1/4"-1-3/8"	.45
CMT MP63RZ	ZN	63 mm	3/4"-1-1/8"	.64
CMT MP70RZ	ZN	70 mm	1-1/4"-1-3/8"	1.14
CMT MP83RZ	ZN	83 mm	1-1/2" and up	1.65

Martyr Propeller Nut Anodes



These anodes provide streamlined and secure protection for shafts and propellers. The complete assembly includes brass prop nut and washer, zinc anode and stainless steel fasteners. The zinc only replacement of the units are also stocked.

Complete Part #		Shaft Size	Thread Size	Zinc O.D.	Complete Wt lbs
CMT PNAZC13	ZN	3/4"	1/2" - 13	1-1/4"	.34
CMT PNBZC11	ZN	7/8"	5/8" - 11	1-5/8"	.82
CMT PNCZC10	ZN	1"	3/4" - 10	2"	1.55
CMT PNDZC09	ZN	1-1/4"	7/8" - 9	2-5/16"	2.20
CMT PNEZC08	ZN	1-3/8"	1" - 8	2-1/2"	2.55
CMT PNFZC07	ZN	1-1/2"	1-1/8" - 7	2-3/4"	3.20
CMT PNGZC07	ZN	1-3/4"	1-1/4" - 7	3-1/8"	4.60
CMT PNHZC06	ZN	2"	1-1/2" - 6	3-3/8"	5.75

Zinc Only		Shaft	O.D.	Weight lbs
CMT PNZA	ZN	3/4"	1-1/4"	.20
CMT PNZB	ZN	7/8"	1-5/8"	.50
CMT PNZC	ZN	1"	2"	1.06
CMT PNAD	AL	1-1/4"	2-5/16"	.63
CMT PNZD	ZN	1-1/4"	2-5/16"	1.50
CMT PNZE	ZN	1-3/8"	2-1/2"	1.70
CMT PNZF	ZN	1-1/2"	2-3/4"	2.00
CMT PNZG	ZN	1-3/4"	3-1/8"	3.20
CMT PNZH	ZN	2"	3-3/8"	3.60



Martyr Autoprop Anode



- OD: 2.24" x ID .27" x H: 1.3"

CMT PNH5Z ZN .33 lb

Martyr J-Prop Anode



- OD: 2.4" x ID .34" x H: 1"

CMT JPROP60Z ZN .736 lb

Martyr MERCRUISER Bravo 3 Propeller Nut Kits

These anodes provide streamlined and secure protection for shafts and propellers. The complete assembly includes brass prop nut and washer, choice of anode and stainless steel fasteners.

- Shaft size: 1"
- Length: 3.06"
- OD: 2.12"
- Engines 2003 and older



Complete Part #		Complete Wt lbs	Zinc Only
CMT PNDAF14UNS	AL	1.13	CMT PNAD
CMT PNDMF14UNS	MG	0.9	CMT PNMD *
CMT PNDZF14UNS	ZN	2.14	CMT PNZD

* Special Order

Zinc only Engines 2004 - present

	Zinc Only
AL	CMT 865182CA
MG	CMT 865182CM
ZN	CMT 865182CZ

Martyr

ZINC: SALT WATER ONLY
Zinc Alloy: US Mil-A-18001K

ALUMINUM: SALT & BRACKISH WATER
Aluminum Alloy: US Mil-A-24779(SH)

MAGNESIUM: FRESH WATER ONLY
Magnesium Alloy: AZ91D

Martyr
Streamlined Shaft Anodes



Mounts on shaft with stainless steel socket cap screws, included.

Part #		Shaft size	Length	Zinc O.D.	Weight lbs
CMT X01AL	AL	3/4"	2-1/8"	2-1/8"	0.28
CMT X02AL	AL	7/8"	2-1/8"	2-1/8"	0.32
CMT X03AL	AL	1"	2-1/8"	2-1/8"	0.34
CMT X04AL	AL	1-1/8"	2-1/8"	2-1/8"	0.40
CMT X05AL	AL	1-1/4"	2-1/2"	2-5/8"	0.44
CMT X06AL	AL	1-3/8"	2-1/2"	2-1/2"	0.56
CMT X07AL	AL	1-1/2"	2-1/2"	2-1/2"	0.64
CMT X08AL	AL	1-3/4"	2-7/8"	3-1/4"	0.88
CMT X09AL	AL	2"	2-7/8"	3-1/4"	1.1
CMT X10AL	AL	2-1/4"	3-3/4"	4-1/4"	2.16
CMT X11AL	AL	2-1/2"	3-3/4"	4-1/4"	1.84
CMT X12AL	AL	2-3/4"	3-5/8"	4-3/4"	2.67
CMT X13AL	AL	3"	3-5/8"	4-3/4"	2.32
CMT X02M *	MG	7/8"	2-1/8"	2-1/8"	.25
CMT X03M	MG	1"	2-1/8"	2-1/8"	.22
CMT X04M	MG	1-1/8"	2-1/4"	2-3/8"	.28
CMT X05M	MG	1-1/4"	2-1/2"	2-3/4"	.47
CMT X06M	MG	1-3/8"	2-1/2"	2-1/2"	.36
CMT X07M	MG	1-1/2"	2-1/2"	2-1/2"	.42
CMT X09M	MG	2"	2-7/8"	3-1/4"	.8
CMT X00	ZN	1/2"	2-1/8"	2-1/8"	.51
CMT X01	ZN	3/4"	2-1/8"	2-1/8"	.8
CMT X02	ZN	7/8"	2-1/8"	2-1/8"	.9
CMT X03	ZN	1"	2-1/8"	2-1/8"	.92
CMT X04	ZN	1-1/8"	2-1/8"	2-1/8"	1.14
CMT X05	ZN	1-1/4"	2-1/2"	2-1/2"	1.17
CMT X05A	ZN	1-1/4"	2-1/2"	2-34"	1.75
CMT X06	ZN	1-3/8"	2-1/2"	2-1/2"	1.48
CMT X07	ZN	1-1/2"	2-1/2"	2-1/2"	1.68
CMT X08	ZN	1-3/4"	2-7/8"	3-1/4"	2.48
CMT X09	ZN	2"	2-7/8"	3-1/4"	3.1
CMT X10	ZN	2-1/4"	3-3/4"	4-1/4"	6.08
CMT X11	ZN	2-1/2"	3-3/4"	4-1/4"	5.18
CMT X12	ZN	2-3/4"	3-5/8"	4-3/4"	7.53
CMT X13	ZN	3"	3-5/8"	4-3/4"	6.54
CMT X15	ZN	3-1/2"	3-7/8"	5-3/4"	9.03
Metric Zincs					
CMT X25	ZN	25mm	2-1/8"	2-1/8"	1.08
CMT X30	ZN	30mm	2-3/8"	2-5/16"	1.21
CMT X35	ZN	35mm	2-3/8"	2-5/8"	1.52
CMT X40	ZN	40mm	2-7/8"	2-7/8"	2.64
CMT X45	ZN	45mm	2-7/8"	3-1/4"	2.51

* Special Order

Martyr
Limited Clearance Shaft Anodes



Mounts on shaft with stainless steel socket cap screws, included.

Part #		Shaft size	Length	O.D.	Weight lbs
CMT C01AL	AL	3/4"	1"	2-1/8"	.21
CMT C02AL	AL	7/8"	1"	2-1/8"	.25
CMT C03AL	AL	1"	1-1/4	2-1/2"	.47
CMT C04AL	AL	1-1/8"	1-1/4"	2-1/2"	.43
CMT C05AL	AL	1-1/4"	1-1/4"	2-1/2"	.45
CMT C06AL	AL	1-3/8"	1-1/4"	3"	.63
CMT C07AL	AL	1-1/2"	1-1/4"	3"	.58
CMT C08AL	AL	1-3/4"	1-3/8"	3-1/2"	.89
CMT C09AL	AL	2"	1-3/8"	3-1/2"	.82
CMT C13AL	AL	3"	1-1/2"	5"	1.9
CMT C01	ZN	3/4"	1"	2-1/8"	.65
CMT C02	ZN	7/8"	1"	2-1/8"	.65
CMT C03	ZN	1"	1-1/4	2-1/2"	1.20
CMT C04	ZN	1-1/8"	1-1/4"	2-1/2"	1.10
CMT C05	ZN	1-1/4"	1-1/4"	2-1/2"	1.00
CMT C06	ZN	1-3/8"	1-1/4"	3"	1.55
CMT C07	ZN	1-1/2"	1-1/4"	3"	1.50
CMT C08	ZN	1-3/4"	1-3/8"	3-1/2"	2.25
CMT C09	ZN	2"	1-3/8"	3-1/2"	2.10
CMT C09A	ZN	2-1/4"	1-3/8"	3-1/2"	1.75
CMT C12	ZN	2-1/2"	1-1/2"	5"	5.31
CMT C12A	ZN	2-3/4"	1-1/2"	5"	4.85
CMT C13	ZN	3"	1-1/2"	5"	4.50
CMT C14	ZN	3-1/2"	1-1/2"	6-1/2"	7.92
CMT C15	ZN	4"	1-1/2"	6-1/2"	7.16

Martyr Rudder Anodes



Consists of two anodes, for mounting on each side of the rudder. Supplied with stainless steel socket cap screw.

Part #		Dia.	Thickness	Weight lbs
CMT R01AL	AL	1-7/8"	1/4"	.1
CMT R02AL	AL	2-13/16"	1/2"	.34
CMT R03AL	AL	3-3/4"	1/2"	.56
CMT R04AL	AL	5"	5/8"	1.13
CMT R05AL	AL	5-1/8"	7/8"	1.65
CMT R01M	MG	1-7/8"	1/4"	.07
CMT R02M	MG	2-3/4"	1/2"	.23
CMT R03M	MG	3-3/4"	1/2"	.39
CMT R01	ZN	1-7/8"	1/4"	.28
CMT R02	ZN	2-13/16"	1/2"	.90
CMT R03	ZN	3-3/4"	1/2"	1.60
CMT R04	ZN	5"	5/8"	3.21
CMT R05	ZN	5-1/8"	7/8"	4.75
CMT R07	ZN	6-1/2"	7/8"	9.10

Martyr Bolt-On Rudder Anodes



Part #		Dim.	Weight lbs
CMT RP4A	AL	4" x 1"	1.01
CMT RP5A	AL	5" x 1"	1.89
CMT RP6A	AL	6" x 1.5"	3.59
CMT RP7A	AL	7" x 1"	3.15
CMT RP4Z	ZN	4" x 1"	2.24
CMT RP5Z	ZN	5" x 1"	4.4

Martyr Engine Cooling Anodes

E Series marine engine anodes consist of a brass plug with anode attached. These anodes meet or exceed the recommended specifications. Please note separate part #'s for complete units and zinc only replacements.

Zinc Complete

Part #		L	OD	NPT
CMT E00	ZN	2"	1/4"	1/8"
CMT E0	ZN	1-3/4"	3/8"	1/4"
CMT E1	ZN	2"	1/2"	3/8"
CMT E1F	ZN	1-1/4"	1/2"	3/8"
CMT E1G	ZN	1"	1/2"	3/8"
CMT E1H	ZN	2"	3/8"	3/8"
CMT E2	ZN	2"	5/8"	1/2"
CMT E3	ZN	2"	3/4"	3/4"
CMT E4	ZN	3-3/8"	3/4"	3/4"
CMT E5	ZN	3-5/8"	3/4"	3/4"



Zinc Only

Part #		L	OD	UNC
CMT EZ00	ZN	1.9"	1/4"	1/4"
CMT EZ0	ZN	1-3/4"	3/8"	5/16"
CMT EZ1	ZN	2"	1/2"	3/8"
CMT EZ1E	ZN	1-1/2"	1/2"	3/8"
CMT EZ1F	ZN	1-1/4"	1/2"	3/8"
CMT EZ1H	ZN	2"	3/8"	3/8"
CMT EZ2	ZN	2"	5/8"	7/16"
CMT EZ3	ZN	2"	3/4"	1/2"
CMT EZ4	ZN	3-3/8"	3/4"	1/2"
CMT EZ5	ZN	3-5/8"	3/4"	1/2"



Brass Plug Only



CMT EP1 3/8" NPT
CMT EP2 1/2" NPT
CMT EP3 3/4" NPT

Martyr BENNETT Trim Tab Anodes





- 3-3/4" x 1-1/8"

CMT BNT1AZ ZN each

Anode Kit

CMT BNT1AKITA AL 2 anodes & fasteners
CMT BNT1AKITZ ZN 2 anodes & fasteners

Martyr Grouper Anodes



The Grouper weighs 5 pounds (zinc) and comes complete with an 11 ft. cable and clamp/clip.

CMT GROUPER ZN
CMT GROUPERA AL

Martyr Divers Dream



The slotted steel plate cast in the centre of these anodes allows for easy underwater or boat yard installation.

Part #		L x W x H	Bolt Centres	Weight lbs
CMT DIVERA	AL	12" x 6" x 1/2"	5.5"	3.25
CMT DIVERHA	AL	12" x 6" x 1"	5.5"	6.12
CMT DIVERMINIA	AL	6" x 4" x 1/2"	2.7"	.87
CMT DIVERMINIHA	AL	6" x 4" x 1"	2.7"	1.96
CMT DIVERM	MG	12" x 6" x 1/2"	5.5"	2.5
CMT DIVERMINIM	MG	6" x 4" x 1/2"	2.7"	.68
CMT DIVERZ	ZN	12" x 6" x 1/2"	5.5"	8
CMT DIVERHZ	ZN	12" x 6" x 1"	5.5"	14.52
CMT DIVERMINI	ZN	6" x 4" x 1/2"	2.7"	2.25

Torrid Divers Dream Mounting Plates



- Eliminates leaks when changing zincs on transoms
- Stainless steel construction

TOR ZP0406 4" x 6"
TOR ZP0612 6" x 12"

Martyr Hull Anodes

Part #		L x W Bolt Centres	Weight lbs	
CMT Z10Z	ZN	12" x 6 -	9.9	
CMT M24	ZN	4-3/4" x 2" 1.25"	0.53	
CMT M25	ZN	9-1/4" x 3-3/8" 3.68"	3.92	
CMT M30	ZN	6-1/4" x 2-3/4" -	1.9	
CMT M40	ZN	7-1/2" x 2-3/4" -	2.08	
CMT T20A	AL	3-1/2" x 1-3/4" 1.28"	0.15 0.38	
CMT T20	ZN			
CMT T21A	AL	5-1/4" x 2" 1.625"	0.39 1	
CMT T21	ZN			
CMT ZHC2AA	AL	5-3/4" x 2-1/2" 2.78"	2.15	
CMT ZHC2AZ	ZN			
CMT ZHC3AZ	ZN	6-1/4" x 2-3/4" 2.57"	2	
CMT ZHC5AA	AL	8" x 4" 4.35	1.75 4.5	
CMT ZHC5AZ	ZN			

Martyr

ZINC: SALT WATER ONLY
Zinc Alloy: US Mil-A-18001K

ALUMINUM: SALT & BRACKISH WATER
Aluminum Alloy: US Mil-A-24779(SH)

MAGNESIUM: FRESH WATER ONLY
Magnesium Alloy: AZ91D

Martyr Commercial Semi-Streamlined Series Anodes



Commercial semi-streamlined anodes are used to protect the hull and other areas of small, medium and large vessels. Steel straps are standard but aluminum are available and denoted by an A after the size in the part number. Both types are weld-on mount.

Part #		L x W x H	Weight lbs
For Steel Hulls			
Aluminum with weld-on Steel straps			
CMT Z03SA	AL	12" x 3" x 1.25"	5
CMT Z04SA	AL	6" x 3.5" x 1"	2.1
CMT Z06SA	AL	5" x 2.5" x 1"	1.3
CMT Z19SA	AL	25" x 3.125" x 1.25"	10.0
Zinc with weld-on Steel straps			
CMT Z03SZ	ZN	12" x 3" x 1.25"	10.3
CMT Z04SZ	ZN	6" x 3.5" x 1"	5.0
CMT Z06SZ	ZN	5" x 2.5" x 1"	3.0
CMT Z19SZ	ZN	25" x 3.125" x 1.25"	22
For Aluminum Hulls			
Aluminum with weld-on Aluminum straps			
CMT Z03AA	AL	12" x 3" x 1.25"	4.8
CMT Z04AA	AL	6" x 3.5" x 1"	2.1
CMT Z06AA	AL	5" x 2.5" x 1"	1.3
CMT ZC5AA	AL	9" x 2.25" x 1.25"	1.8
Zinc with weld-on Aluminum straps			
CMT Z03AZ	ZN	12" x 3" x 1.25"	10.3
CMT Z04AZ	ZN	6" x 3.5" x 1"	5.0
CMT Z06AZ	ZN	5" x 2.5" x 1"	3.0

Martyr Commercial Hull Anodes

- For steel hulls
- Weld-on steel straps



Part #		L x W x H	Shape	Weight lbs
CMT Z22SZ	ZN	14" x 6.5" x 1.3"	Oval	23.5
CMT Z02SZ	ZN	12" x 6" x 1.38"	Square	23.5

Martyr Mil-Spec Plate Stock



- Solid zinc plate

Part #		L x W x H	Weight lbs
CMT P05606A	AL	6" x 6" x 1/2"	1.9
CMT P05303Z	ZN	3" x3" x1/2"	1.25
CMT P05306Z	ZN	3" x 6" x1/2"	2.2
CMT P05606Z	ZN	6" x 6" x 1/2"	4.8
CMT P05612Z	ZN	6" x 12" x 1/2"	9.5
CMT P075303Z	ZN	3" x 3" x 3/4"	1.75
CMT P075306Z	ZN	3" x 6" x 3/4"	3.5
CMT P075606Z	ZN	6" x 6" x 3/4"	6.55
CMT P075612Z	ZN	6" x 12" x 3/4"	14
CMT P1303Z	ZN	3" x 3" x 1"	2.25
CMT P1306Z	ZN	3" x 6" x 1"	4.5
CMT P1606Z	ZN	6" x 6" x 1"	9
CMT P1612Z	ZN	6" x 12" x 1"	18

Martyr Teardrop Anodes



- Commercial weld-on anode
- 5 lbs
- L: 9" x W: 3" x H: 1.5"

CMT ZTSZ ZN with Steel strap
CMT ZTSAZ ZN with Aluminum strap

Martyr Hull Bolt-On Anodes



Zinc anode with aluminum inserts.

Part #		L x W x H	Bolt Centres	Weight lbs
CMT Z12AZ	ZN	3.65" x 1.25" x 1"	2"	.53
CMT Z13AZ	ZN	5.75" x 1.84" x 1.14"	3.25"	1.5
CMT Z14AZ	ZN	7.75" x 2.5" x 1.5"	4"	3.65

Martyr Semi-Streamlined Anode



- Zinc anode
- Bolt-on

Part #		L x W x D	Bolt Centres	Weight lbs
CMT Z03BSA	AL	12" x 3" x 1.6"	7.88"	3.91
CMT Z03BSZ	ZN	12" x 3" x 1.6"	7.88"	8.9

Martyr Hull Anodes



- Zinc anodes
- Bolt-on
- Bolt Centres: 12.25"

Part #		Strap	L x W x D	Weight lbs
CMT P5B2BAZ	ZN	Aluminum	24" x 3.1" x 2"	25
CMT P5B2SZ *	ZN	Steel	24" x 3.1" x 2"	25

* Special Order

Martyr Commercial Hull Anode

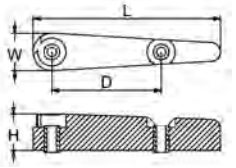


- For steel hulls
- Steel bolt-on
- Bolt centres: 6"

Part #		L x W x H	Weight lbs
CMT Z01BSZ	ZN	12" x 6" x 1.25"	23

Martyr ARNESON Twin Disc Anodes





Part #		L x W x H	D	Weight lbs
CMT ARNSMALLA	AL	6.13" x 1.25" x 1.25"	3.5"	.6
CMT ARNLARGEA	AL	7.5" x 1.88" x 1.88"	5"	1.63

Martyr Walter Keel Cooler Anodes

Part #		L x W	Weight lbs	
CMT KK1Z	ZN	2-5/8" x 2-3/4"	1.02	
CMT KK2Z	ZN	2-3/4" x 3-1/4"	1.21	
CMT KK3Z	ZN	3-7/8" x 3-1/2"	3.12	
CMT X453Z	ZN	3-3/8" x 7/8	.21	
CMT X473Z	ZN	6-3/4" x 1-1/4"	.63	
CMT X58Z	ZN	6-1/4" x 7/8"	.73	

Martyr Heat Exchanger Anodes



These anodes are used on vessels of all sizes for protection of heat exchangers and other areas where space is a limiting factor. Integrally cast steel insert.

Part #		Diameter	Weight lbs
CMT H2B3375GA	AL	3"	0.7
CMT H2B4375GA	AL	4"	1.3
CMT H2B5375GA	AL	5"	2.0
CMT H2B2375GZ	ZN	2"	0.8
CMT H2B3375GZ	ZN	3"	2.1
CMT H2B4375GZ	ZN	4"	3.2
CMT H2B5375GZ	ZN	5"	5.6
CMT H2B6375GZ	ZN	6"	7.1

Martyr Prop Nut Anodes



Most propeller shafts are partially insulated from other parts of the vessel. The relatively high-resistant electrical path isolates the propeller from anodes attached to the stern bearing, hull or rudder. The Martyr Propeller Nut Anode is attached to the prop at its axis and revolves with it. Stud hole and stud are not provided.

Part #		Inside Dia	Outside Dia	Height	Weight lbs
CMT PN13Z *	ZN	2"	2.75"	2.875"	2
CMT PN14Z	ZN	2.25"	3"	3"	2.5
CMT PN01Z	ZN	2.5"	3.375"	3.625"	4
CMT PN02Z	ZN	2.875"	3.75"	4"	4.9
CMT PN03Z	ZN	3.25"	4.125"	4"	6
CMT PN04Z	ZN	3.75"	4.625"	4.5"	7.5
CMT PN05Z	ZN	4.25"	5.25"	5"	11
CMT PN06Z	ZN	4.625"	5.625"	5.5"	11.5
CMT PN07Z	ZN	5"	6"	6"	13

* Special Order - may have stock

► Also See Vetus Thruster Anodes pg 08-054

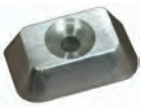
Electro-Guard Reference Cell Assembly



- Rugged and druable surface mount reference cell
- Can be used with vessels of any hull material
- Typical lifespan 4-5 years
- L: 2-3/4" x W: 1"; 1/2" thru-hull penetration

ELE RE-104

Electro-Guard Replacement Electrodes



- Replacement zinc reference electrodes for use with Electro-Guard RE-206D

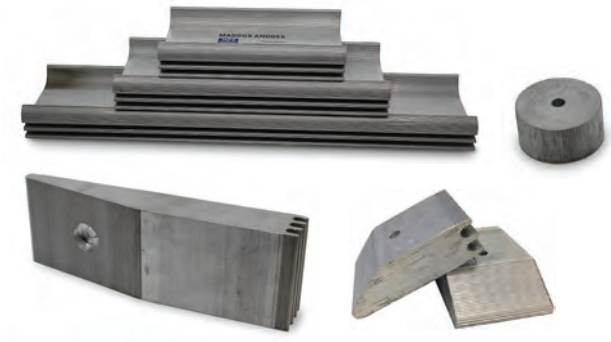
ELE MR-1 Stud #1
ELE RE-200 Stud #2



MADDOX by CANADA METAL (PACIFIC) LIMITED

Maddox Anodes

- Maddox are the only low voltage anode designed to effectively protect bronze and stainless steel parts on composite and wooden vessels by creating a more efficient pathway for cathodic protection.
- By generating more efficient galvanic currents - common issues associated with overprotection are remarkably reduced. Vast improvements to coating performance and reduction of marine growth are experienced.
- Maddox Anodes are cadmium free and environmentally friendly.



The appropriate size anode for any one vessel depends on the type, volume and surface area of the submerged metals to be protected.

MAD MPS.MA200	Anode 200MM, 7-3/4" x 4-1/2" x 1-1/2"
MAD MPS.MA300	Anode 300MM, 11-3/4" x 4-1/2" x 1-1/2"
MAD MPS.MA500	Anode 500MM, 19-1/2" x 4-1/2" x 1-1/2"
MAD MPS.MDXBT	Bow button, 3/4" x 1-1/2" diameter
MAD MPS.MDXSW	Small wedge, pair, 2-3/8" x 3-1/2" x 1"
MAD MPS.MDXWD	Large wedge, 3" x 9-1/4" x 1-3/8"

► *Also See* Maddox Shaft Straps pg 03-131

Martyr Digital Corrosion Test Meter



- Colour test results
- Quick response times
- Easy to use and customize
- Quick release lock connectors for both the reference cell and the alligator clip
- Measurement range: -2.5V~+2.5V
- Accuracy: 0.5%
- Display: 1.8" TFT, Resulution: 320 x 220
- With zinc reference cell

CMT SEACORB * Standard model

* Special Order

Maddox Conductive Grease



MAD MPS.CG50 50 ml syringe

Maddox Portable Reference Anode

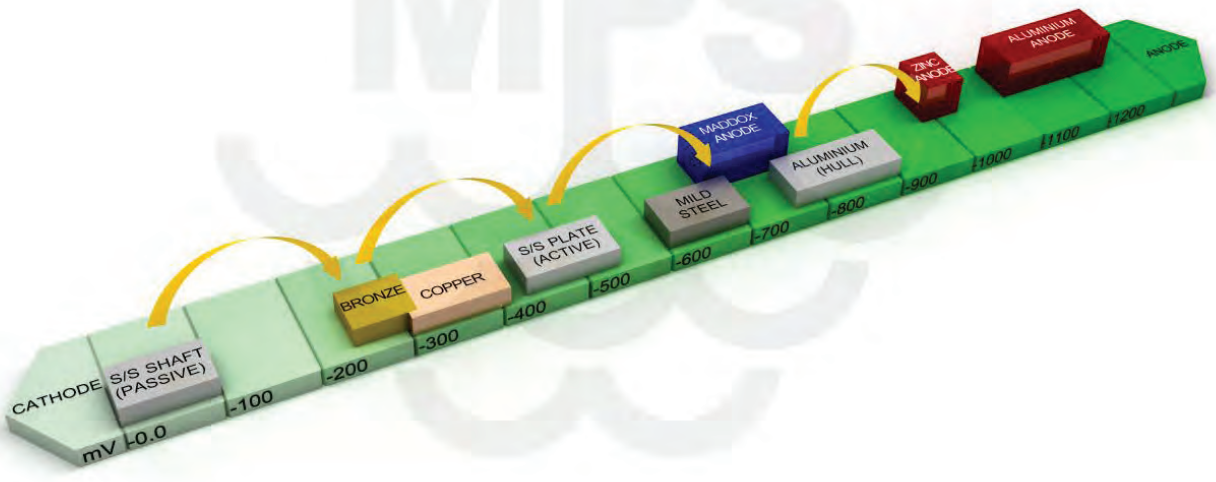


The Silver/Silver Chloride (Ag/Ag/Cl) Reference Electrode is designed to be used to identify the electrical potential generated by metals in water like drive shafts, eye brackets or through hull fittings. Using those results you can determine a vessels optimum level of cathodic protection.

- Quickly and accurately check for signs of galvanic corrosion
- Used efficiently with any good quality digital multi meter
- 12 meter lead

MAD MPS.PRE12M

HULL MATERIAL	vM RANGE
Fibreglass	-550 to -900
Wood	-550 to -600
Aluminium	-900 to -1100
Steel	-800 to -1050
Non-Metallic W/ Aluminium Drives	-900 to -1050



Interlux®

AkzoNobel



It's what's under the surface that counts

It is so much more than just bottom paint.

Interlux® fouling control products not only improve your performance by protecting your hull from fouling, they also protect against the spread of invasive species, safeguarding your local waters when exploring new regions, therefore helping you make a difference by looking after the waters that have provided you with enjoyment and freedom for so many years.

Like you, we have a passion for boating. We provide boaters the hull protection they deserve with over 140 years of cutting-edge science, technology and expertise. You can expect only the best from every Interlux® yacht paint product, providing you the confidence to explore your world.

Relentless performance
for every yacht, everywhere, every time.

interlux.com

® Registered trademark of AkzoNobel in one or more countries. © 2026 Akzo Nobel N.V.

Paints	Guides	07-002 to 007
	Bottom Paint	07-008
	Propspeed	07-009 to 010
	Topside Paints	07-011 to 012
Barrier Coats, Primers, & Surface Prep		07-012 to 013
Non-Skid		07-013 to 014
Teak Prep, Oils, & Varnishes		07-014 to 017
Awlgrip		07-017 to 026
Solvents & Strippers		07-027 to 029
Engine Paints		07-029
Paint Applicators		07-029 to 034
Surface Protection, Masking & Tapes		07-035 to 037
Sanding Stations & Sanders		07-037 to 038
Abrasives & Backing Pads		07-040 to 046
Protective Wear & Respirators		07-047 to 049

Interlux® Wood Solutions

Cetol® Marine



Cetol Marine
IVA300

Cetol Marine
Light
IVA290

Cetol Marine
Natural Teak
IVA316

Cetol Marine
Gloss
IVA315

Cetol Marine with Next Wave™ UV-absorbing technology is a durable translucent protective wood finish for use above the waterline on interior and exterior woods. Next Wave technology is a unique UV package of advanced Ultra Violet absorbers that provide greater protection, durability and longevity. Cetol Marine has excellent weathering properties and allows for the natural expansion and contraction of wood which prevents Cetol Marine from cracking. Cetol Marine is also micro-porous, allowing moisture to escape from the wood which will prevent blistering and flaking of the finish. Cetol Marine is an easy to apply, low maintenance alternative to wood oils and other wood treatments.

- **Cetol Marine** produces an attractive dark amber appearance on wood.
- **Cetol Marine Light** produces a lighter amber appearance on wood.
- **Cetol Marine Natural Teak** has a rich golden color on wood.
- **Cetol Marine Gloss** provides a high-gloss, hard-wearing, UV protection and is developed as a topcoat for Cetol Marine, Cetol Marine Light and Cetol Marine Natural Teak.

Schooner® Gold



This product offers a higher film build per coat that allows both professional applicator and boat owners to achieve great results faster and in fewer coats. This 'thicker' varnish will require thinning, in most conditions, to achieve optimum flow. Schooner Gold has shown to out-perform other leading brands and will offer superb longevity and durability.

Schooner® 96



Combines the very best of classic varnish craftsmanship with the newest technology. Schooner Varnish contains ultra-violet filters to screen the sun's damaging rays for remarkable durability, excellent water resistance and silky application. Superior self-leveling property and a bright, clear, high-gloss finish with the traditional golden color.

Compass® Clear



Compass Clear is a highly durable one-part polyurethane gloss varnish that contains a unique combination of ultra-violet additives, HALS, surface stabilizers and antioxidants to ensure long-term gloss and clarity. Polyurethane resin adds incredible abrasion, chemical and water resistance. Superior leveling properties along with silky application allows you to achieve a professional, long lasting finish. Compass Clear is suitable for all internal and external woods, and can be applied directly to oily timber, such as teak.

Goldspar® Satin 60



A modified polyurethane, low luster varnish designed for application to interior wood surfaces. It produces a warm, rich satin sheen finish that resists scratches and stains and applies easily enough to yield truly professional results by either brush or spray. Goldspar Satin Varnish 60 is ideal anywhere a low luster finish is desired, such as cabin soles, cabinets, counters and tables.



International Paint LLC. 6001 Antoine Dr. Houston, TX USA 77091
Tel: (713) 682-1711 Technical Support Tel: 1-800-468-7589
Fax: (713) 684-1301 Email: InterluxTechnicalService@akzonobel.com
interlux.com

The information given in this document is not intended to be exhaustive. Any person using this product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk and we can accept no responsibility for the performance of the product or for any loss or damage (other than death or personal injury resulting from negligence) arising out of such use. The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous development.

All trademarks mentioned in this publication are owned by, or licensed to, the AkzoNobel group of companies. © AkzoNobel 2023. SKU Catalog/Canada 2023

9384/0818

Premium Yacht Paint Solutions

Topside Finishes

Toplac® Plus



Premium High Durability Yacht Gloss Finish

Toplac Plus is a new premium gloss one-part topcoat for all substrates above the waterline. Toplac Plus offers a professional quality finish that is easy to apply with exceptional roller application, without the need for tipping. The new, advanced formula provides highly durable UV protection for longer lasting gloss and color retention over time.

- Comes in a large range of vibrant colors
- Advanced formula for superior protection, gloss, and color retention
- Use with Pre-Kote Plus for professional quality and lasting results in fewer steps

Pre-Kote Plus



Two-in-One Primer and Undercoat for One Part Finishes

Pre-Kote Plus is a one-part Primer and Undercoat, offering substrate protection and an ultra-smooth surface all in one. For use above the waterline with Interlux one-pack finishes and deck paints, Pre-Kote Plus can be applied directly to most substrates, including properly prepared metal. It has lower VOCs, is easier to apply, and has improved flow and aesthetics compared to primers or undercoats alone, making painting easier for DIY customers while providing the perfect foundation for your topcoat.

- Reduced working time with greater substrate protection
- Easy to apply by brush and roller with an extra smooth finish
- Excellent flow, leveling, and easy to sand

Snow White YLK000 (001) ○	Mediterranean White YLK184 (545) ○	Matterhorn White YLK198 (199) ○	Off White YLK192 (193) ○
Oyster White YLK194 (195) ○	Ivory YLK187 (812) ○	Cream YLK027 (027) ○	Sundown Buff 237 (YLK237) ○
Ice Blue YLK904 (904) ●	Sea Foam Green YLK256 (256) ●	Boston Whaler Blue YLK962 (962) ●	Bondi Blue YLK898 (016) ●
Lauderdale Blue YLK936 (936) ●	Sapphire Blue YLK830 (830) ●	Oxford Blue YLK993 (105) ●	Flag Blue YLK990 (992) ●
Platinum YLK151 (151) ○	Atlantic Gray YLK898 (289) ●	Anthracite Gray* YLK315 (315) ●	Jet Black YKL999 (051) ●
Yellow YLK101 (101) ○	Rochelle Red YLK299 (011) ◑	Bounty YLK292 (350) ◑	Donegal Green YLK541 (077) ●

Recommended undercoat for one-part finishes

○ White Pre-Kote Plus ● Blue/Grey Pre-Kote Plus

◑ To give extra depth of color, blend the final coat of Pre-Kote Plus 50:50 with an approved Interlux one-pack topcoat

Interdeck



An excellent slip-resistant finish with a tough polyurethane resin that protects decks against everyday wear and tear. It contains a fine aggregate and will apply easily on all substrates. Interdeck has a low sheen finish to reduce sun glare from decks.

White YJB000 | Gray YJF684 | Sand Beige YJG009

Bilgekote®



A fast drying, durable coating formulated for application in bilge areas. Bilgekote helps prevent substrate absorption of oil, gasoline or sludge (into wood and fiberglass surfaces). Want an easy-to-clean finish? Try Bilgekote today!

Gray YMA100 | White YMA102

AkzoNobel

Interlux® Antifouling Range

Micron® CSC – CA

Micron® CSC – CA is a multi-season antifouling paint based on Controlled Solubility Copolymer technology. Designed to polish at a controlled rate to improve boat handling, performance, and reduces paint buildup allowing for easier application. Providing protection against all types of algae, weeds, barnacles, and other shell fouling. Micron CSC – CA can be used in fresh, salt or brackish water on power and sail boats.

- Premium multi-season performance
- High solids formulation
- Can be applied down to 5°C / 41°F
- Compatible over most antifoulings
- Suitable for power and sail, in all waters
- **Now available in Quarts!**

Blue
YBM000

Red
YBM002

Black
YBM003



Bottomkote – CA

Bottomkote – CA provides excellent season-to-season protection, enabling the antifouling paint to wear away with use and eliminates the build-up of old spent coatings and the heavy sanding needed to remove them.
Bottomkote – CA allows application at lower temperatures giving flexibility in the painting schedule.
Bottomkote – CA delivers premium protection to control marine fouling such as barnacles and zebra mussels and algae in waters with moderate to heavy fouling and can be used in all waters (fresh, salt and brackish waters).

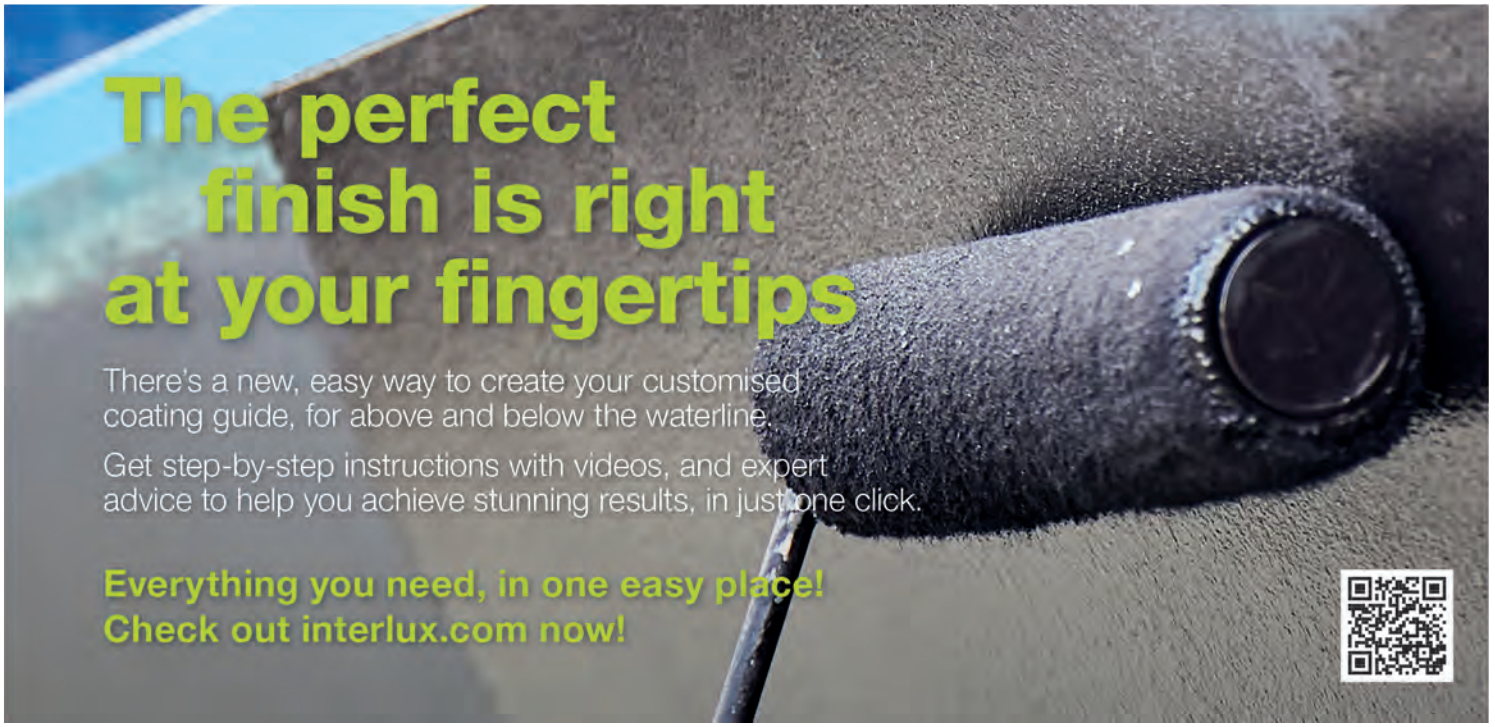
- Premium season-to-season ablative protection
- Flexible application schedule – apply at low temperatures
- Use on power and sail boats in all waters
- **Now available in Quarts!**

Blue
YBM010

Red
YBM012

Black
YBM013





VC® Offshore



VC Offshore is a hard antifouling tailored for high performance or racing sail and power boats. Formulated with a fluoro-microadditive that creates a hard, smooth and low-friction surface which can be polished to achieve a very low profile with maximum durability.

- Provides a hard, smooth racing finish
- Can be polished to achieve a low profile and minimum drag
- Suitable for use in both fresh and salt water

Black
V118

Blue
V116

VC Performance Epoxy (non-antifouling)



- Two-part epoxy designed for use on the underwater surfaces of boats that do not require antifouling paint such as high performance, rack-stored or trailered boats
- Hard, semi-gloss, white finish is ideal for wet sanding and burnishing

White
V127/V128



InterProtect® 2000E with Micro-Plates

InterProtect 2000E is a unique two-part epoxy coating developed to protect fiberglass hulls from water absorption, which can lead to osmotic blistering. Micro-Plates create an overlapping barrier to help stop water migration through the coating.

The InterProtect system is the system of choice for repairing gelcoat that has already been damaged by osmotic blistering. InterProtect 2000E can be used above and below the waterline as a universal primer for all surfaces and has proven itself to be an excellent primer for all metals. It also can be used as part of a no-sand system.

Available in two colours, Gray and White, so you can alternate colours to ensure full coverage.

Gray
Y2000E

White
Y2002E





Antifouling

Is my new antifouling compatible?

Once you've identified the Interlux antifouling that's most suitable, if you have an existing coating on your hull you will need to establish the compatibility of the two products. Use this simple table to check compatibility between Interlux® antifoulings and also with competitor products.

New Antifouling	Old Antifouling: Micron CSC, Micron CSC - CA, Bottomkote CA, Trilux II, Ultima	Fiberglass Bottomkote ACT Horizons, Aquaguard Bottom Paint	Fiberglass Bottomkote, Epoxycop	Unepoxy HRT, Premium HRT, Odyssey HD, Ultima, Horizons	Bottomkote, Bottomkote XXX	VC Offshore, Baltoplate or Vinyl Antifouling Paints	VC17m
Micron CSC - CA	●	●	●	●	●	●	●
Bottomkote - CA	●	●	●	●	●	●	●
VC Offshore	●	●	●	●	●	●	●

Micron®, Bottomkote®, Trilux®, VC®, and Aquaguard® are trademarks owned by AkzoNobel.
Odyssey®, Unepoxy®, and Ultima® are trademarks owned by Modern Recreational Technologies.

● Remove all paint ● Lightly sand & apply

How much topside paint do I need?

Determining how much topside paint you will need is fairly simple...just use the chart below.

	Power					Sail				
Waterline length (feet)	20	25	30	35	40	20	25	30	35	40
2 part products (quarts)	2	3	4	5.5	6	2	3	4	5	6
1 part products (quarts)	3	4.5	6	8	9	2.5	4	5.5	7	8.5
1 part primers (quarts)	4	5.5	7.5	10	11	3	5	7	9	10.5

Applying your desired Interlux antifouling has never been easier. Compatibility is always an issue boaters must worry about, but there are 3 easy steps to solve this problem:

1. Check for compatibility with old antifouling. If you know what antifouling is currently on your boat, you can quickly determine whether your Interlux paint choice is compatible.
2. Use Primocon YPA984 as a tie-coat primer. If you do not know what the old antifouling is on your boat, it is still easy. Apply our Primocon YPA984 primer directly to the old antifouling. Then simply overcoat with the Interlux antifouling of your choice. (Not compatible with VC Offshore, or VC17m)
3. Remove old antifouling. If you would prefer to remove the old antifouling, use a non methaline chloride based paint stripper. Paint stripper can remove several coats of paint in one application. After stripping, you are ready to prime and paint your newly cleaned hull.

Important: Now that you've stripped your hull, it is important to inspect for any gelcoat damage before repainting. Also, consider applying the InterProtect® System to give your hull a barrier coat to protect from gelcoat blistering.

How much antifouling paint do I need?

Determining how much antifouling you will need is fairly simple. Here are two quick guides to help you purchase the correct amount:

1. Calculate the area needing paint. For a rough estimate of the area to be painted, multiply the length of your hull (LOA) by the beam and multiply by 0.85 (LOA x B x 0.85 = Area). Then divide the area by the coverage of the paint you've chosen to determine how many quarts per coat you will need, or
2. Refer to the reference chart below for a quick estimate of how much antifouling paint is required for two coats:





	Power					Sail				
Waterline length (feet)	**20**	**25**	**30**	**35**	**40**	**20**	**25**	**30**	**35**	**40**
Standard range*	4.0	5.0	7.0	9.5	12.0	3.0	4.0	5.5	7.0	9.5

* Quarts

LOA Length Overall LWL Length Waterline B Beam D Draft F Freeboard

Top Tips

- Apply an extra coat to all leading and trailing edges, water-line, trim-tabs, outdrives, keel and rudder. High turbulence in these areas tends to wear the antifouling faster.
- Always use the specified amount of antifouling. Under-application can result in premature fouling and costly mid-season haul out.

Interlux Bottomkote-CA

- Uses ablative action to provide season-to-season protection
- Applies at lower temperatures (5°C - 35°C), for greater flexibility in painting schedules
- Use in all waters - fresh, salt, and brackish
- Can be used on fibreglass, wood, and properly primed metals
- Coverage: (brush and roller) 505.2 ft²/gal

INT YBM010-QT	Blue
INT YBM010-GAL	Blue
INT YBM012-QT	Red
INT YBM012-GAL	Red
INT YBM013-QT	Black
INT YBM013-GAL	Black



Interlux Micron CSC-CA

Provides excellent, long lasting antifouling protection against all types of fouling. Micron CSC-CA wears away (polishes) at a controlled rate, resulting in a reduced buildup of old coatings and minimized sanding at reapplication. It can be hauled and re-launched without repainting.

- High solids formulation makes it easier to achieve film thickness with a reduction in VOC
- Can be applied over all types of properly prepared substrates, except aluminum
- Suitable for power and sailboats
- All the benefits of Micron technology

Note: Can overcoat Micron CSC with Micron CSC-CA, but cannot mix together.

INT YBM000-QT	Blue
INT YBM000-GAL	Blue
INT YBM002-QT	Red
INT YBM002-GAL	Red
INT YBM003-QT	Black
INT YBM003-GAL	Black



Brush solvent ..... INT 216
Application..... Brush or roll
Coverage ..... 300 sq. ft./gal

Interlux VC Offshore Antifouling Paint

- For racing, sailing and power boats
- Suitable for salt and freshwater
- Formulated with Fluoro microadditive for a low friction surface
- Hard, smooth finish can be burnished to a very low profile

INT V116-QT	Blue
INT V116-GAL	Blue
INT V118-QT	Black
INT V118-GAL	Black



Brush solvent ..... INT 216
Generic Type: ..... Vinyl antifouling
Antifoulant: ..... Cuprous oxide
Coverage: ..... 320 sq.ft./gal.
Application: ..... Brush, roll, or spray
Dry Times: ..... Touch: 1 hour
Re-coat: ..... Min - overnight; max - 30 days
Launch Time: ..... Min - 8 hours; max - 30 days

Interlux VC Underwater Epoxy Paint with Teflon

- A bright white hard epoxy with Fluoro microadditive for use on the bottoms of performance boats that do not require antifouling
- Use on fiberglass, epoxy and properly prepared metal surfaces

INT V127KIT-2GAL 7.56 Litre kit



No Antifouling Properties

Theoretical Coverage: .. 200 sq. ft./gal
Application: ..... Brush, roll or spray
Overcoat: ..... Min. 5 hours. Max. 24 hours
Dry Time: ..... 3 hours
Launch Time: ..... Max. 4-7 days

PROPSPEED®

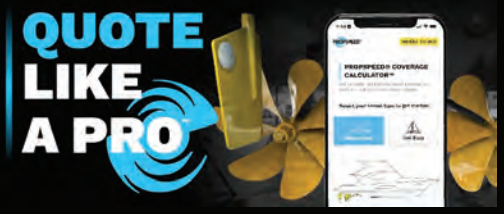


propspeed.com

QUOTE | PREP | APPLY | BOAT

LIKE A PRO

THE INDUSTRY LEADER IN FOUL-RELEASE COATINGS



PROPSPEED CALCULATOR™

- Answer “How much do I need” in seconds
- Easy to use coverage calculator
- Download to the home screen of your phone

CALCULATE NOW >



STRIPSPEED™

- Remove Propspeed and other foul-release coatings hassle-free
- Save time and avoid the grind with Stripspeed
- Works within 30 minutes or less

AVOID THE GRIND >



PROPSPEED APPLICATION KIT™

- All-in-one Propspeed Application Kit
- Simplified application process
- Reduced application time
- Flawless finish

APPLICATION TECHNIQUE >



BOAT LIKE A PRO™

- Minimize maintenance, maximize performance
- Reduced running cost
- Superior coatings, better boating

MAXIMIZE PERFORMANCE >

NOW YOU CAN JOIN THE PROS!

Don’t just work—work like a pro. Dive into the Propspeed difference today.

Propspeed Performance Coating for Propellers & Running Gear



- A coating system designed to prevent marine growth from adhering to a vessel's propellers, rudders, shaft, struts, trim-tabs, thruster wheels and any other metal surface below the waterline
- This unique, environmentally-friendly, two-part coating system bonds to your boat's propeller and running gear while providing multi-season performance
- Its slick non-porous finish makes it virtually impossible for barnacles and other marine growth to gain a foothold, resulting in fuel savings, reduced drag, improved top end speed, increased performance, and reduced engine fatigue
- Does not contain any harmful chemicals or heavy metals that pollute the water; works because it's slick, not because it's toxic

PSP SMALL-KIT	Includes: Propclean wipe, Propprep wipe, 96ml Etching primer base, 24ml Etching primer hardener, 80 ml Clear Coat
PSP MEDIUM-KIT	Includes: Propclean wipes (2), Propprep wipes (2), 240 ml Etching primer base, 60ml Etching Primer hardener, 200ml Clear Coat
PSP LARGE-KIT	Includes: Propclean wipes (4), Propprep wipes (2), 240ml Etching primer base, 60ml Etching primer hardener, 320ml Clear Coat
PSP 782D	Clear Coat, 440 ml
PSP PP500	PropPrep, 500 ml
PSP ETCHINGPRIMERKIT	240 ml primer / 60 ml hardener



Kits Include: Clear Coat, etching primer base with hardner and stir stick(s)

NOTE Propspeed is available for Boatyard use ONLY Professional Applicators ONLY

Estimated Coverage Rates for Applicators

1 Prop only			
Prop size cm	*Prop size in*	*Blades*	*Kits*
Up to 60cm	Up to 24"	3 – 4	Small Kit
66 – 76cm	26 – 30"	4 – 5	Medium Kit
79 – 96.5cm	31 – 38"	4, 5 & 6	Medium Kit
98 – 117cm	39 – 46"	5, 6 & 7	Large Kit
119 – 142cm	47 – 56"	6 - 7	Large Kit
2 Props only			
Prop size cm	*Prop size in*	*Blades*	*Kits*
Up to 60cm	Up to 24"	3 – 4	Medium Kit
66 – 76cm	26 – 30"	4 – 5	Medium Kit
79 – 96.5cm	31 – 38"	4, 5 & 6	Large Kit
98 – 117cm	39 – 46"	5, 6 & 7	Large Kit
119 – 142cm	47 – 56"	6 - 7	2 x Large Kit
2 Props including shafts, struts & trim tabs			
Prop size cm	*Prop size in*	*Blades*	*Kits*
Up to 60cm	Up to 24"	3 – 4	Large Kit + Medium Kit
66 – 76cm	26 – 30"	4 – 5	Large Kit + Medium Kit
79 – 96.5cm	31 – 38"	4, 5 & 6	2x Large + 1x Medium
98 – 117cm	39 – 46"	5, 6 & 7	4x Large +1x Medium
119 – 142cm	47 – 56"	6 - 7	5x Large Kit

Propspeed Foulfree Multi-Surface Coating System

NEW

The Foulfree MS coating system brings Propspeed's industry leading, biocide-free, foul-release protection to underwater components.



- Applies quickly and effortlessly in just 4 steps
- Tested to ISO and ASTM standards on more than 20 substrate classes, OEM parts, and factory coatings
- Kit includes removal pad, prep pad, 2x brushes, and one each of MSclean, MSprime, and Foulfree Clear Coat (60 ml each in Small kits, 240 ml each in Medium kits)

PSP FFKITMS-S	Small kit
PSP FFKITMS-M	Medium kit

Propspeed Foulfree

Foul-release coating designed specifically for transducers that is biocide-free and does not poison marine growth. Once cured, Foulfree forms a super-slippery surface over the transducer, preventing marine growth from attaching to its surface. Offering a long service life - it lasts a minimum of 12 months, with an even longer life span in cooler climates.



- AIRMAR Certified
- Coverage: 1 ft² per 15ml
- Kit includes abrasive pad, XDClean wipe, applicator brush, and 15 ml tube of Clear Coat

PSP FF15K	15 ml kit

Propspeed Lightspeed

- The first transparent foul release coating specifically developed for underwater lights
- Underwater lights generate light and heat, creating environmental conditions that favour marine growth. This clear foul release system will not only protect your lights, but will improve their luminosity.
- Environmentally friendly
- Coverage: 1.08 ft² per 15 ml
- Kit includes Lightclean wipes, applicator brush, and 15 ml tube of Lightspeed



PSP LSP15K	15 ml kit

Propspeed Stripspeed



- Removes foul-release coatings in 30 minutes or less from metal surfaces
- Thick consistency easily hangs on vertical and overhead surfaces
- No mixing required - just shake, pout, and go
- Non-flammable and non-caustic

PSP SS501	1 litre

Propspeed Application Kit

- All-in-one kit provides a faster and easier application process
- 4" rollers achieve a more consistent finish than brushing, and can be used with both the etching primer and the clear coat
- Kit includes two paint trays (1 for primer, 1 for clear coat), roller handle with comfortable grip, and two 4" Propspeed rollers (1 for primer, 1 for clear coat)



PSP PSAP4KIT	
Parts:	
PSP PSAP4-10	4" rollers, 10/pk

Interlux Toplac Plus

- Premium gloss topcoat for most substrates above the waterline
- Advanced formula provides highly durable UV protection for longer lasting gloss and colour retention
- Easier to apply - no tipping needed, and no sanding between coats
- Improved aesthetics and distinction of image
- Lower VOC, no MEKO, no diisocyanates

INT YLK000-QT	Snow White
INT YLK000-GAL	Snow White
INT YLK027-QT	Cream
INT YLK101-QT	Yellow
INT YLK151-QT	Platinum
INT YLK184-QT	Mediterranean White
INT YLK184-GAL	Mediterranean White
INT YLK187-QT	Ivory
INT YLK192-QT	Off White
INT YLK194-QT	Oyster
INT YLK198-QT	Matterhorn White
INT YLK237-QT	Sundown Buff
INT YLK256-QT	Sea Foam Green
INT YLK292-QT	Bounty
INT YLK299-QT	Rochelle Red
INT YLK315-QT	Anthracite Grey
INT YLK541-QT	Donegal Green
INT YLK684-QT	Atlantic Grey
INT YLK830-QT	Sapphire Blue
INT YLK898-QT	Bondi Blue
INT YLK904-QT	Ice Blue
INT YLK936-QT	Lauderdale Blue
INT YLK962-QT	Boston Whaler Blue
INT YLK990-QT	Flag Blue
INT YLK993-QT	Oxford Blue
INT YLK999-QT	Jet Black



Brush Solvent.....INT Y2333N
Application.....Brush or roller
Coverage .....516 sq. ft./gal

Interlux InterDeck Polyurethane

- Ready-mixed Polyurethane non-skid finish
- Contains fine mineral additive for hard wearing, non-slip surface
- Suitable for all substrates
- Apply straight from the can with brush or roller

INT YJB000-QT	White
INT YJF684-QT	Grey
INT YJG009-QT	Beige



Solvent .....INT 333
Coverage: .....396 sq ft / gallon
Undercoat: .....INT 404KIT
Application: .....Brush or roll

Interlux Bilge Kote

- Hard wearing coating for bilges and bulkheads
- Chemical resistance to fumes, fuel and oil
- High opacity for thorough coverage
- Cleans easily for reduced upkeep

INT YMA100-QT	Grey
INT YMA102-QT	White



Brush Solvent.....INT 333
Spray Solvent.....INT 216
Application.....Brush, roll or spray
Coverage .....321 sq. ft./gal

Interlux Brightside Polyurethane

- A one-part linear polyurethane topside finish
- Surface stabilizers insure high gloss and colour retention
- Contains fluoro microadditive which adds excellent abrasion resistance and durability
- Superior self levelling properties that yield that "sprayed on" look when brush applied in thin coats
- Contains teflon for increased stain/abrasion resistance

INT 4152-QT ** Yellow



Spray Solvent.....INT 216
Brush Solvent.....INT 333
Application.....Brush, roll or spray
Coverage .....495 sq. ft./gal
** While Stock Lasts

Interlux Flattening Agent

A clear solution specially formulated for mixing with Interlux 1-part finishes (Brightside Polyurethane and Yacht enamels) and varnishes (Goldspar, Schooner and Original) to produce a variety of gloss, satin or matte effects.



- For interior or exterior use

- 4 oz per quart = Semi gloss
- 8 oz per quart = Low gloss

INT YMA715-QT

Epifanes Enamel Paint

- A high gloss, one-component, alkyd-based, traditional marine finish. This enamel has very good flowing and covering properties and provides long lasting gloss retention and excellent weather durability.
- Fibreglass - steel - wood - aluminum: suitable for interior and exterior use above the waterline in with a primer
- Application: Brush, roll or spray
- Re-coatable: After 24 hours at 65°F/18°C
- Coverage: 750 ml is sufficient for 120 sq. ft. /11 m² @ 1.5 mil dry film thickness

EPI YEUW-750ML	Ultra White
EPI YE007-750ML	Bright Blue
EPI YE008-750ML	Dark Blue
EPI YE016-750ML	Bright Red
EPI YE019-750ML	Black
EPI YE024-750ML	Light Oyster
EPI YE026-750ML	Buff
EPI YE040-750ML	Off White
EPI YE072-750ML	Dark Green



Epifanes Waterline Paint

- A high gloss one-component paint, especially formulated for use at the waterline.
- For fibreglass - steel - wood - aluminum: on well adhering paint systems above the waterline
- Recommended to strike the boot top 5-10 cm above the waterline, while boat is fully loaded, preventing constant water immersion
- Coverage: 250 ml is sufficient for 30-40 sq. ft./3-4m² @ 1.5 mil film thickness

EPI WLPW.250	White
EPI WLP007.250	Bright Blue
EPI WLP008.250	Dark Blue
EPI WLP016.250	Bright Red
EPI WLP019.250	Black



Epifanes Mono-Urethane Paint



- A hard, one-component, air-drying, high gloss finish paint based on urethane/alkyd resins
- Superior covering and filling, long lasting weather durability and high gloss retention
- Rapid initial curing
- Coverage: 120 sq. ft. per litre
- 750 ml

EPI MUW-750	White
EPI MU-3101.750	Cream
EPI MU-3116.750	Bright Red
EPI MU-3119.750	Black
EPI MU-3165.750	Deep Green
EPI MU-3168.750	Green
EPI MU-3210.750	Flag Blue

Epifanes 2 Part Polyurethane

- A high gloss, two-component, polyester saturated, aliphatic urethane coating
- Scratch resistant, high durability and weather resistance
- Application by brush, roller or spray.
- Fibreglass/steel/wood/aluminum: suitable for interior and exterior use above the waterline in with the appropriate primer or directly on well degreased and sanded fibreglass.
- The Clear Gloss is suitable as a varnish system on its own, as a UV-resistant and protective finishing coat on epoxy resin, or as an intermediate coat on wood treated with epoxy resin prior to application of varnish

EPI PU800.750	White
EPI PU801.750	Black
EPI PU803.750	Cream
EPI PU804.750	Light Oyster
EPI PU811.750	Grey Mist
EPI PU841.750	Grey
EPI PU845.750	Red
EPI PU853.750 *	Pacific Blue
EPI PU854.750	Dark Blue
EPI PU879.750 *	Dark Green
EPI PUPG.750	Primer Grey
EPI PUPW.750	Primer White
EPI PUCG-750ML	Clear Gloss
EPI PUCS-750ML	Clear Satin



For thinning and cleaning all 2 part polyurethane Epifanes products.

EPI PUTB-500ML	500 ml, brush
EPI PUTB-1000ML	1000 ml, brush
EPI PUTS-1000ML	1000 ml, spray

* Special Order - may have stock

More Epifanes Colours Available Upon Request
Please Ask For A Colour Chart

Interlux Fibreglass Surface Prep



- Removes mold release wax from new and used boats
- Can be used with Interprotect 2000E in the Ultimate No Sand System
- Pink colour for easy application and visibility when preparing gelcoat

INT YMA601V/QTCA

► *Also See* Awlwash Cleaner pg 06-032

Interlux Interprotect 2000

- A two-part epoxy designed to reduce the potential of water absorption by fibreglass hulls
- Universal anti-corrosive primer for all metal surfaces above and below the waterline
- Uses Micro-Plates, a protective barrier within its film to slow down water permeation
- Provide millions of overlapping microscopic plates that eliminate any direct path for water migration and to improve the sag resistance of the epoxy
- Up to two weeks is allowed between coats
- Fast drying, easy application

INT 2000EKIT-QT	Grey
INT 2000EKIT-GAL	Grey
INT 2002EKIT-QT	White
INT 2002EKIT-GAL	White

Solvent ..... INT 2316N
Application..... Brush, roll or spray
Coverage ..... 240 sq. ft./gal



Interlux Interprotect Watertite

- A two-part, fast drying epoxy compound for filling holes and repairing scratches in gelcoat and fibreglass
- Recommended to fill gelcoat blisters below the waterline and for use with the Interprotect Epoxy Barrier System or VC Tar
- An excellent fairing compound due to its two-phase cure, which gives a long easy-to-sand window
- Applied to a thickness of 3/4" without sagging, its spread-ability makes it an ideal glazing compound for filling small nicks and scratches

INT YAV135KIT-.5L	1/2 litre kit
INT YAV135KIT-1L	Litre kit



Interlux Pre-Kote Plus

- Undercoat and primer in one offers substrate protection and an ultra-smooth surface
- Use above waterline
- Can be applied to most substrates including properly prepared metal substrates
- Improved flow and levelling
- Lower VOC

INT YUC000-QT	White
INT YUC000-GAL	White
INT YUC001-QT	Blue Grey

Brush Solvent..... INT Y2333N
Application..... Brush or roller
Coverage ..... 440 sq. ft./gal



Interlux Primocon Metal Primer

- An anti-corrosive primer for underwater metal surfaces (including hulls, running gear, and lower units)
- Reduces pitting of metal from galvanic corrosion
- An excellent primer for antifouling paint over sanded fibreglass
- Also suitable as a barrier/sealer coat over incompatible or unknown antifoulings

INT YPA984-QT
INT YPA984-GAL

Spray Solvent..... INT 216
Application..... Brush, roll or spray
Coverage ..... 300 sq. ft./gal



Awlgrip RP Hull Primer

NEW

- 2-component, high solids product designed for a rapid production process
- Easy to apply, with excellent levelling properties for optimum topcoat appearance
- Superior corrosion resistance on aluminum substrates
- VOC compliant (depending on reducer selection)
- Quick overcoating, and excellent adhesion
- Consistent performance



AWL O78001-GAL	Base, Grey
AWL O78003-GAL	Base, White
AWL O78002-GAL	Converter

Awlgrip Auto-Prep Pre-Treatment Wipes



- Ready-to-use on bare metal for corrosion protection
- Produces a conversion coating that forms chemical bonds with metal surfaces for enhanced adhesion
- Eliminates mixing, stirring, and spray gun cleaning
- Chromate-free with 0% VOCs
- Estimated coverage: 1 wipe covers 9-12 sq feet

AWL 77020 25 wipes

Epifanes Wood Primer

- A traditional one-part primer based on alkyd resins
- For use on bare wood with good filling, build-up, and covering properties
- Use above water line, top-coat with Epifanes enamel
- Coverage: 110 sq. ft. per litre



EPI WPG-750ML **	Grey, 750 ml
EPI WPW-750ML **	White, 750 ml

** While Stock Lasts

Epifanes Multi Marine Primer

NEW

- Universal one component, fast drying, and easy to sand primer
- For above waterline
- Able to protect steel and aluminum surfaces, gives perfect adhesion to FRB, and has very good bonding to wood



EPI MMPG-750	Grey, 750 ml
EPI MMPW.750	White, 750 ml

Epifanes Fibreglass Prep Cleaner

A special degreaser for optimum preparation of fibreglass surfaces.

- Removes all wax and oily residues on fibreglass and ensures a proper surface for sanding and coating
- For use above and below the waterline



EPI FPC.1000 1000 ml

Interlux Epoxy Primekote

- A multi purpose 2-part epoxy primer
- Use above or below the waterline
- Recommended on under water metal surfaces
- Must be thinned for use by 25-30% with 2316N (spray) or 2333N (brush)



INT 404KIT-QT

Martyr Seaguard Zinc Spray

- Can be used above or below waterline
- Contains 96% zinc by weight (competition is 93%)
- Very fast dry; touch dry in 10 minutes at 20° F
- Requires only two coats
- Unlimited shelf life
- Future overcoats (recharging) can be applied forming a single layer
- Colour: Grey



CMT SGMSPRAY500Z 650 gram

Epifanes Thinners & Accessories

Brush Thinner

A high quality thinner for brushing or rolling most one-component primers, paints and varnishes.



EPI TPVB-500ML	Thinner, 500 ml
EPI TPVB-1000ML	Thinner, 1000 ml

Spray Thinner

Thinner for spray applications of one-component primers, paints and varnishes. Also highly suitable for degreasing wood and existing paint and varnish layers.



EPI TPVS-1000ML Spray thinner, Litre

Accelerator

Resin based additive for use in traditional one-component, half synthetic paints and varnishes to speed up the curing process. For interior use, this product can be added up to 50% to Epifanes Clear Gloss Varnish for a harder, more scratch-resistant finish. Do not use with Epifanes Mono-urethane and Epifanes Nautiforte. If not more than 5-7% is added, through-drying time will be reduced without affecting flexibility, gloss and longevity.



EPI APV-500ML Accelerator, 500 ml

Awlgrip Griptex Non-Skid

A translucent polymer bead that gives Awlgrip and AWLCRAFT topcoats a non-skid texture for decks and stairs

- Packaged 10 oz by weight



AWL 73012-QT	Fine
AWL 73013-QT	Coarse
AWL 73237-QT	Extra coarse

Epifanes Non-Skid



A one-component, semi-gloss, urethane/alkyd based nonskid deck paint containing a measured amount of polypropylene beads as the nonskid agent.

- Sufficient for 30-60 sq. ft @ 1.5mm dry film thickness

EPI NS212.750	Grey, 750 ml
EPI NSW.750	White, 750 ml
EPI NS1.750 *	Cream, 750ml
EPI NS213.750 *	French Grey, 750ml

* Special Order - may have stock

Epifanes Non-Skid Beads



Nonskid Beads for addition to Epifanes Mono-urethane or Epifanes Poly-urethane Yacht Coating to create a custom made colour in nonskid.

- 20 gr
- Sufficient for 750 ml

EPI PPB-20

Interlux Polymeric Non-Skid



- Powdered additive, when mixed with paint and applied to decks provides a sure footing
- Its spherical shape not only has superb non-slip properties but also has less tendency to collect dirt than natural grit
- 1/2 Pint

INT 2398C-1/2PT

KiwiGrip Non-Skid



- Durable coating spreads easily and quickly with KiwiGrip's proprietary roller
- Texture can be adjusted from rolled "pleasure boat" to industrial aggressive "work boat" depth
- Homogeneous material means the coating will endure, without fillers falling out
- One-coat application
- Coverage: Approx. 20 square feet per litre
- Cures in 24 hours
- Cleans up with soap and water
- Water-based acrylic polymer, non-toxic, no volatile solvents
- Easy re-coat and repair: Just clean the old and roll on the new

KIW KG-1WP-R	White 1 litre, w/roller
KIW KG-4WP-R	White 4 litre, w/roller
KIW KG-1GP-R	Grey 1 litre, w/roller
KIW KG-4GP-R	Grey 4 litre, w/roller
KIW KG-1CP-R	Cream 1 litre, w/roller
KIW KG-4CP-R	Cream 4 litre, w/roller
KIW KG-1BK-PR	Black 1 litre, w/roller
KIW KG-4BK-PR	Black 4 litre, w/roller





Accessories:

KIW KG-102-04	4" replacement roller
KIW KG10209	Replacement 9" sleeve

Aqua-Tek Teak Clean



- Cleaner and brightener easily revitalizes and restores grey and weathered teak, hard, fine, and exotic woods to original colour and beauty with a single step process
- Penetrates quickly
- Formula contains no harsh acids, caustics, or bleach
- Thickened for easier cleaning on vertical surfaces
- Non-toxic and environmentally friendly

AQU 54010 750 ml

Aqua-Tek Teak Impervium



- Natural oil blend enhances, nourishes, seals, and preserves teak, hard, fine, and exotic woods
- Combines with Impervium technology to allow deeper penetration, protecting the wood from within
- Provides a durable, long lasting, non-slip surface that repels water and dirt, blocks UV rays, and protects against discolouration, oxidation, drying, splitting, mould, and mildew
- Allows wood to breathe and flex in hot or cold weather, ideal for all indoor/outdoor teak surfaces above the water line
- Enhances wood colour and leaves a satin finish
- Non-toxic

AQU 54020 750 ml

BoatLIFE Teak Brite Cleaner



- A heavy-duty, one-step powder cleaner
- For restoring badly stained teak decks without sanding
- Should be applied to wet teak, scrubbed with a stiff brush and rinsed thoroughly with fresh or salt water
- Will not harm seam compounds, fibreglass, plastic or vinyl

BOA 1085 946 ml (32 oz)

BoatLIFE Teak Brite Brightener



- A one-step liquid brightener
- Formulated to lighten and brighten your teak to a lighter shade
- Can be used as an in between maintenance step to spruce up teak and keep it looking like new
- Will not attack seam or bedding compounds

BOA 1087 946 ml (32 oz)

Eco Marine Two Part Teak Cleaner



- Two-step teak cleaner requires no sanding
- Step one chemically strips grease, residue, and oxidation
- Step two restores teak to natural colour

ECO 5134 900 ml x 2

Star brite Premium Teak Cleaner



- Use as the first step in the restoration of grey, weathered teak
- No need to sand after cleaning
- Does not contain acid - no neutralizers needed
- Does not raise wood grain
- Removes stains and weathering

STA 81432 948 ml (32 oz)

Star brite One Step Teak Cleaner & Brightener



- Saves time and effort preparing teak for oiling
- Cleans teak; removing dirt, grime and old oil
- Leaves teak ready for oiling
- Ideal for use on all teak and fine woods
- Contains no dangerous acids; phosphate-free, biodeg formula

STA 94932 948 ml (32 oz)

Star brite Teak Care Kit



- Contains all you need to clean, restore, and protect teak
- Formulated to provide long-lasting protection and beauty
- Use on all fine woods and wood furniture
- Cleaner contains no dangerous acids and will not raise wood grain
- Brightener will not harm fibreglass and painted surfaces
- Oil uses an advanced tung oil polymer formula that is easy to use, fast drying, penetrates deeply for UV protection, and gives teak a natural, warm golden colour

STA 81216 Pint kit

Star brite 2-Part Teak Conditioner



- Two-part cleaner with an acid and a base provides a freshly-sanded look to your teak
- Removes rust stains, fish blood, and fuel stains
- Will not soften deck seams
- No hard work or bronze wool needed
- Use at full strength for deep cleaning, or dilute with water if the teak is not too badly soiled

For professional use only, not for retail sale

STA STN-G1 Gallon, Part 1
STA STN-G2 Gallon, Part 2

Teakdecking Systems Teak Cleaner



- Contains no acid, caustic sodas and phosphates
- Cleans and brightens without removing the soft fibers of your teak
- Mixes easily in water and is designed not to harm your teak, caulking, hardware or paint
- 100% Environmentally safe: Non-toxic (The ONLY U.S. EPA recognized teak cleaner)
- Concentrated - Dilute with water
- Removes mold & mildew stains

TDS ECO1002 2 lb

BoatLIFE Teak Brite Teak Oil



- A deep, penetrating teak preserver that is the final step in complete teak care
- Seals wood against grease, oil, and food stains
- Restores natural oil and resins that are lost due to cleaning and exposure to the elements

BOA 1088 946 ml (32 oz)
BOA 1089 3.785 litre (128 oz)

Star brite Golden Premium Teak Oil



- Easy to use, fast drying, lasting protection
- Gives teak a natural warm golden colour.
- Contains ultraviolet absorbers to resist weathering
- Lasts 4 to 6 times longer than standard teak oils
- #1 rated teak oil in independent testing

STA 85116 473 ml (16 oz)
STA 85132 948 ml (32 oz)

Solvable Linseed Oils



SOL 53-401 Boiled Linseed Oil, 946ml
SOL 53-404 Boiled Linseed Oil, 3.78L

Daly's SeaFin Teak Oil



- Penetrating oil that dries to a low sheen
- Seal and protect interior and exterior woods
- Creates a durable non-slip surface to repel water and resist wear
- Will not chip, crack, blister or peel
- Use on brightwork, doors, rails, furniture and for polishing varnished surfaces

DAL 15080 473 ml (pint)
DAL 15040 946 ml (quart)
DAL 15010 3.785 litres (gallon)

Daly's SeaFin Ship'n Shore Sealer



- Penetrating wood waterproofing sealer
- Use as a preparation coat varnish or teak oil
- Hardens wood 15-25%, leaving no surface film
- Provides sealing protection from moisture while preserving the natural look of wood
- Interior/Exterior
- Helps stabilize wood
- Siding, decks and hot tub areas

DAL 15140 946 ml (quart)
DAL 15110 3.785 litres (gallon)

Daly's SeaFin AquaSpar Gloss & Satin



- Waterborne polyurethane spar varnish
- Excellent protection from sun, salt air and water
- Ideal for most wood surfaces
- Interior/Exterior
- High gloss and satin finish
- Waterborne finish

DAL 1558 Gloss, 473 ml (pint)
DAL 1554 Gloss,946 ml (quart)
DAL 1551 Gloss, 3.785 litres (gallon)
DAL 1568 Satin 473 ml (pint)
DAL 1564 Satin 946 ml (quart)
DAL 1561 Satin, 3.785 litres (gallon)

Daly's ProFin Finish



- Exceptionally durable hard drying, quick set oil finish
- Easy to apply and is often used where spraying is not practical
- Recommended on furniture, cabinets, doors, millwork and panelling
- Can be used on reasonably protected exterior surfaces such as doors
- 2-3 coats suggested
- Compatible with most stains

DAL 15654 Gloss, 946 ml (quart)
DAL 15651 Gloss, 3.785 litres (gallon)
DAL 15758 Satin, 473 ml (pint)
DAL 15754 Satin, 946 ml (quart)

Sikkens Cetol Marine

- Easy to apply, low maintenance
- Durable translucent protective wood finishes
- For use above the waterline on interior and exterior hard woods
- Micro-porous, allows moisture to escape from the wood which prevents blistering and flaking of the finish
- UV-absorbing technology
- Flexible allowing for the natural expansion and contraction of wood
- Coverage: approx. 85 sq. ft. per quart

Cetol Marine



UV-absorbing pigments which shields wood against damaging UV rays and produces an attractive dark amber appearance on wood.

CET IVA300-QT .946 litre (qt)
CET IVA300-GAL 3.785 litres (gal)

Cetol Marine Light



Identical to the Cetol Marine but formulated with different pigments to produce a lighter amber appearance on wood

CET IVA290-QT .946 litre (qt)

Cetol Marine Natural Teak



Cetol Marine Natural Teak is a rich golden colour that will enhance the natural beauty and grain of wood, offering the traditional classic look.

CET IVA316-QT .946 litre (qt)
CET IVA316-GAL 3.785 litres (gal)

Sikkens Cetol Marine Gloss



- Provides high gloss, hard wearing, UV protection and an easy to clean finish (not a stand alone finish)
- Protective finish topcoat for Cetol Marine, Cetol Marine Light and Cetol Marine Natural Teak
- Not suitable for decks

CET IVA315-QT .946 litre (qt)

► *Also See* Colour Chart pg 07-002

Epifanes PP Varnish Extra

NEW



- Professional, quick drying, high gloss build up varnish
- For all types of wood, and recommended sealer for oily wood such as teak and iroco
- Alkyd resin and isocyanate base
- Use as an insulation coat, sealer, or filling coat in one and two component synthetic or polyester based varnish systems
- Resistant to water, alcohol, and various household chemicals
- Excellent flow and abrasion resistance, superior grain filling, and rapid build up
- High quality UV filter

EPI PPX2000ML 2 Litre

Fast evaporating thinner

EPI TPPX-1000ML 1 Litre

Epifanes Clear Gloss Varnish



- A clear, high gloss one-part varnish, based on tung oil, phenol and alkyd resin
- Excellent exterior durability and ultra-violet filter
- World famous for it's high gloss retention
- Coverage: 150 sq. ft. per litre

EPI CV-250ML 250 ml
EPI CV-500ML 500 ml
EPI CV-1000ML Litre

Epifanes Rapidcoat & Rapidclear



Quick and easy alternative to conventional varnish.

- Easy application by brush, roller, or spray
- Rapid drying
- Great bonding to oily woods - like teak
- No sanding between coats
- Excellent water resistance
- Great breathing properties and flexibility
- U.V. Protection with superb longevity
- Suitable for interior and exterior use
- Easy touch up, semi-gloss finish

Use Rapidcoat if you want a light tint added to the wood
Use Rapidclear if you want zero tint, it is the perfectly clear product

EPI RCC-750 Rapidclear semi-gloss - 750 ml
EPI RC-750 Rapidcoat tinted- 750 ml
EPI RCMM-750 Rapidclear matte finish - 750ml

Epifanes Rubbed Effect Varnish



- Interior varnish that provides a rich satin lustre finish
- Based on polyurethane alkyds
- Apply as a final, finish coat over several build-up coats of clear gloss Epifanes varnish
- Coverage: 140 sq. ft. per litre

EPI RE-500ML 500 ml
EPI RE-1000ML Litre

Epifanes Wood Finish Gloss



- Formulated to give a high gloss finish (with excellent adhesion) to new teak and other (oily) exotic hardwood
- Protection even in tropical climates
- Sanding between coats is not required when the next coat is applied within 30- 72 hours
- Coverage: 130 sq ft per litre

EPI WFG-500ML 500 ml
EPI WFG-1000ML Litre

Epifanes Wood Finish Matte



- A one-component varnish alternative based on urethane alkyd resins and tung oil and contains U.V. absorbers
- Specifically formulated for oily woods like teak and iroco, Wood Finish Matte looks its best when applied over multiple coats of Epifanes Wood Finish Gloss, Clear Gloss Varnish or Polyurethane Clear Gloss
- Its finish is a rich matte with a clear amber colour and has the apperance of being hand-rubbed
- It offers superior flow and durability and excellent scratch resistance and exterior weather resistance
- No sanding between coats applies if recoated with 72 hours, otherwise, a light sanding is required

EPI WFM-500ML 500 ml
EPI WFM-1000ML Litre

Interlux Superspar Varnish



- Traditional spar varnish that combines ease of application with good gloss and durability
- Phenolic resin varnish that contains ultra-violet filters
- Ease of use and traditional golden colour is ideal for use on interior and exterior woodwork

INT 90-QT .946 litre

Brush Solvent.....INT 333
Spray Solvent.....INT 216
Area.....Above water
Finish/Sheen.....Gloss
Number of Coats:.....At least 5-6 coats
Application:.....Brush / Roller / Spray / Airless Spray

Interlux Compass Varnish



- A highly durable one-part polyurethane gloss varnish
- Contains a combination of ultra-violet additives, HALS and antioxidants to ensure long-term gloss and clarity
- Suitable for all internal and external woods, and can be applied directly to oily timber, such as teak
- Provides a bright, clear, high gloss finish

INT YVA502-QT .946 litre

Interlux Goldspar Satin Varnish



- A low lustre modified urethane varnish designed for application to interior wood surfaces
- Produces a warm, rich sheen finish which resists scratches and alcohol stains
- Excellent handling qualities

INT 60-QT .946 litre

Brush Solvent.....INT 333
Spray Solvent.....INT 216
Application.....Brush, roll or spray
Coverage .....526 sq. ft./gal
Area.....Above water
Finish/Sheen.....Satin

Interlux Schooner Varnish



- Contains ultra-violet filters for remarkable durability, excellent water resistance and silky application
- A bright, clear, high gloss affords a finish with a traditional golden colour

INT 96-QT .946 litre

Brush Solvent.....INT 333
Spray Solvent.....INT 216
Area.....Above water
Finish/Sheen.....Gloss
Number of Coats:.....At least 5-6 coats
Application:.....Brush / Roller / Spray / Airless Spray

► Also See Flattening Agent pg 07-011

Interlux Schooner Gold Varnish



- Advanced UV technology
- Longest lasting one-part varnish
- Traditional amber colour
- High build formulation achieves aesthetic results in fewer coats

INT YVA500-QT .946 litre

Brush Solvent.....INT 333
Spray Solvent.....INT 216
Application.....Brush, roll or spray
Coverage .....526 sq. ft./gal

Awlgrip Awlwood MA Clear System

Awlwood is an exterior clear system that is made up of a Primer and Clear Finish (available as satin or gloss). By combining the Primer and Clear together, the synergistic effect results in an outstanding performing system that adheres and bonds directly to the wood cellular structure giving extended performance and retaining the same gloss, DOI and natural appearance as first application.

- For exterior, above waterline use only



AWL J3810-GAL **	Clear satin
AWL J3810-QT	Clear satin
AWL J3890-GAL	Clear gloss
AWL J3890-QT	Clear gloss
AWL J4000-QT	Multi-Climate gloss
AWL J3809-QT	Primer, clear
AWL J7809-QT	Primer, red tone
AWL J9809-QT	Primer, yellow tone
AWL T0200-QT	Brush cleaner
AWL T0201-QT	Brushing reducer
AWL T0202-QT	Spray reducer

** While Stock Lasts

Awlgrip Awlspar Reducer



- Specialized reducer formulated for use with Awlspar varnishes
- Not for use with urethane or epoxy coatings
- Do not use below the waterline

AWL T0016-QT .946 litre (qt), brush reducer

Awlgrip Awlbrite - 2 Part



- A combination of light fast resins and ultraviolet inhibitors
- Provides a clear, long lasting high gloss finish
- Mixed 2:1, base to converter.
- Reduces maintenance by 50% or more compared to conventional spar varnish
- Fast dry, fast re-coat for quick build up
- Easy to apply by brush with excellent flow characteristics
- Compatible with AWLSPAR and most varnishes

AWL J3005-QT	.946 litre (qt), clear base
AWL J3005-GAL	3.785 litres (gal), clear base
AWL J3006-HG	1.89 litres (2 qt), converter
AWL J3006-PT	473 ml (pint) converter

TOPCOATS

AWLGRIP TOPCOATS

Awlgrip's industry-leading topcoat products provide a wide range of colors and effects, combined with high gloss and proven durability. Recently, AkzoNobel has added to the Awlgrip finishes range Awlcraft 3000 Clearcoat and Single Stage. These new and exciting additions to the range show the investment in continuous innovation within AkzoNobel.

AWLCRAFT® 3000

Topcoat & Clearcoat



FEATURES & BENEFITS

- Provides a buffable, polishable, and repairable high gloss finish
- Fast drying and easy to apply
- Easily repaired and maintained in a wide variety of climates

AWLGRIP® HDT

High Definition Technology Topcoat & Clearcoat



FEATURES & BENEFITS

- Mirror-like surface with excellent distinction of image, high gloss and color retention
- Long-lasting hard finish with scratch resistance
- Repairable, buffable and polishable
- High solids with low VOC

AWLGRIP®

Polyester Urethane Topcoat



FEATURES & BENEFITS

- High performance polyester urethane topcoat
- Excellent color retention and chemical resistance
- Long lasting with exceptional distinction of image

AWLCRAFT® SE

Solids and Effects Base Coat



FEATURES & BENEFITS

- Revolutionary Basecoat to be used with Awlgrip HDT Clearcoat, Awlcraft 3000 Clearcoat or Awlcraft CS
- Solid, Metallic, and Pearl finishes
- Fast drying with excellent hide

AWLCRAFT® CS

Customizable Sheen Clearcoat



FEATURES & BENEFITS

- Provides a smooth, hard and durable finish, with good scratch resistance
- The assortment consists of two bases (low gloss and medium gloss) which can be mixed together to achieve a variety of gloss levels
- Designed to complement the full range of colors and effects of the Awlcraft® SE basecoat

REDUCED VOC CONVERTERS

Awlgrip has also developed reduced VOC converters and reducers to be used with Awlgrip and Awlcraft 3000 to be VOC compliant in the strictest of regulations*

AWLCAT #5



Awlcat #5 is an optimized, easy to use spray converter with reduced VOC content. When used with Awlgrip topcoat and the VOC exempt reducers, all colors are VOC compliant*. Using Awlcat #5 with Awlcraft 3000 delivers a fast drying coating that complies with the strictest U.S. VOC regulations* with most colors. It can reduce the number of coats needed as low as just two coats while reducing emissions and working time.

- Fast Drying – Reducing overall working time and minimizing dust pick up
- Simple System – Easy to apply, buffable and repairable finish.

* VOC compliance measured against South Coast Rule 1106.1

COLOR DEVELOPMENT

THOUSANDS OF COLORS

Customers can choose from tens of thousands of colors on-demand, from a solid finish to a sparkling metallic or a pearlescent sheen at Mixitcloud.com.

- Up to 13,000 already matched colors. Choose from thousands of standard swatches, delivered fast and always of the best quality.
- Any custom color you want. Looking for a truly unique color? We can provide any custom color on-demand.
- Awlgrip colors online. The MIXIT Cloud site provides the ability to search online for the most up to date product color formulations.



This is a Professional Use Product

AWLGRIP.COM

AWLCRAFT 3000

DEEPER AND TRUER COLORS



Awlcraft 3000 is a sprayable, repairable and easy-to-apply topcoat that brings you vibrant, true-to-life colors that stand out like never before. It's everything you love about Awlcraft 2000, now in an enhanced color platform, our AkzoNobel YSC Toner System.

FEATURES & BENEFITS

- Provides a buffable, polishable, and repairable high gloss finish
- Fast-drying and easy to apply
- Can be used with wide range of reducers to suit local application conditions



AWLGRIP HDT

UNRIVALLED APPEARANCE & SUPERIOR PROTECTION

Awlgrip has created a new standard in topcoat appearance & durability: High Definition Technology. Awlgrip HDT has an outstanding high gloss, distinctness of image (DOI), and color retention even after years of use. Its unique hard, polishable, and repairable formulation brings the best of both worlds of coating technology, with an extensive range of color options to be explored with our color tools.



FEATURES & BENEFITS

- Mirror-like surface with excellent distinction of image, high gloss and color retention
- High performance topcoat that combines hardness and scratch resistance with repairability
- High solids with low VOC
- Large range of colors available on mixitcloud.com combined with our color tools: AutoMatchic Vision

This new cutting-edge topcoat offers superior in-service performance with 24 months warranty, backed by extensive trials and testing, so you can have the best of both appearance and durability. Contact your local Awlgrip representative to know more about the warranty process.



AWLGRIP 3D COLOR VISUALIZER

Select from tens of thousands of colors, preview on your boat type and revolutionize your yacht coating experience on **awlgrip.com**





This is a Professional Use Product

AWLGRIP.COM

EXTERIOR WOOD SYSTEMS

AWLSPAR VARNISH



FEATURES & BENEFITS

- A traditional tung oil varnish that provides a rich amber finish
- Outstanding durability providing a long lasting finish
- Fast drying varnish allowing for a reduction in labor time
- Simple application characteristics making it easier to achieve a classic high gloss finish
- Excellent base for the Ultimate Brightwork system

AWLBRITE CLEAR



FEATURES & BENEFITS

- Provides tough, long lasting, high gloss durable finish
- Unique combination of light fast resins, UV inhibitors and absorbers
- Excellent flow characteristics
- Fast dry, fast recoat for quick build up and maintenance
- Compatible with Awlspar Varnish

Brightwork and Varnish : Traditional Varnish System

2 VARNISH	**Apply Awlspar** (6-8 coats, as needed)
1 SUBSTRATE PREPARATION	Clean then sand (as necessary)
WOOD	

Brightwork and Varnish : Ultimate Brightwork System

3 VARNISH	**Apply Awlbrite Clear** (8-10 coats, as needed)
2 VARNISH	**Apply Awlspar** (6-8 coats, as needed)
1 SUBSTRATE PREPARATION	Clean then sand (as necessary)
WOOD	

AWLWOOD

FEATURES & BENEFITS

- Excellent application properties – applicable over a wide temperature and humidity range using a variety of methods
- High building, fast-curing formulation allows multiple applications per day
- Outstanding performance – system remains highly flexible throughout its lifetime allowing natural substrate movement whilst giving excellent toughness and abrasion resistance
- Long-lasting beauty – unique technology that delivers multi-season performance, far exceeding any other current varnish
- High-performing Primer & Clear Finish system that adheres directly to wood, providing high gloss, distinction of image and enhancing the wood's natural appearance
- Multi-climate gloss J4000 for high temperature applications
- Available with a gloss or satin-matt finish



3 FINISH	**8 coats***
2 PRIMER	**1 coat**
1 SUBSTRATE PREPARATION	Clean and sand with no finer than 120 grit
ALL WOOD SUBSTRATES	

* Dependent upon timber absorbancy, figure is given as a guide only

This is a Professional Use Product

AWLGRIP

AWLGRIP.COM

PRIMERS

QUICK BUILD

Fast Drying Primer

FEATURES & BENEFITS



- Yacht priming system formulated to provide quick drying and easy application.
- Quick Build's versatility allows it to function as a primer in both sealing or a surfacing systems, for a quick & easy finish or a fully smooth surface.
- Easy application system for preparation and application in a single day
- By mixing the colored primers, Quick Build can closely match any finish
- Quick Build Sealer may be directly applied to aluminum, gelcoat, fiberglass and existing coatings in good condition. For Quick Build Surfacer, the Wash primer CF is required on aluminum.
- Quick Build Sealer primer is a single coat product that doesn't require sanding

545 EPOXY

Finish Primer

FEATURES & BENEFITS



- A multi-use, corrosion-resistant epoxy primer for above and below water
- Seals both undercoats and surfacing primers in a single product
- Corrosion protection, increasing the longevity of your system
- Excellent adhesion to all substrates

HIGH BUILD

Build Primer

FEATURES & BENEFITS



- An epoxy surfacing primer, used where high build and filling is required above the waterline
- Protects filler from solvent leaching

ULTRA BUILD

Build Primer

FEATURES & BENEFITS



- Designed for areas above the waterline where high build and filling are required
- Excellent sag resistance
- Offers strong resistance to print-through

HULLGARD EXTRA

Substrate Primer

FEATURES & BENEFITS



- A holding primer and as a base for subsequent fairing
- Excellent anti-corrosive properties
- Provides the perfect base for Awlfair fairing compound
- Can be used on all substrates above and below the waterline

WASH PRIMER CF

Substrate Primer

FEATURES & BENEFITS



- Chromate-free etch primer
- Excellent adhesion to stainless steel and anodized aluminum through Controlled Fusion technology
- Can be directly overcoated with 545 Epoxy Primer or any Awlgrip finish

MAX COR CF

Substrate Primer

FEATURES & BENEFITS



- Contains anti-corrosive pigments to extend system longevity
- Great adhesion to aluminum and steel
- Can be directly overcoated with Hullgard Extra or High Build

This is a Professional Use Product

FILLERS

AWLFAIR LW
Fairing Compound

FEATURES & BENEFITS

- Provides a super-smooth finish and easy sanding
- Suitable for manual and automatic mixing
- Can be applied above and below the waterline



SPRAYABLE FAIRING COMPOUND
Surfacing Compound

FEATURES & BENEFITS

- Excellent sag resistance and film build capacity
- Easy to sand, making large areas quicker to sand
- Saves time when applying multiple coats



WASH AND PROTECTIVE CARE

AWLWASH WASH DOWN CONCENTRATE

An effective detergent for cleaning, yet still gentle enough for frequent use on Awlgrip, Awlcraft 3000, Awlcraft SE System and Awlgrip HDT.

- **Awlwash** does not contain alkalies, acids or abrasives. It's easy to mix: one ounce (30 ml) of Awlwash per gallon (3.785 L) of fresh water. Stubborn stains may require a higher concentration
- **Awlwash** comes in a refillable, quart "Tip 'N' Measure" container, which makes it easy to get the proper mix ratio
- **Awlgrip** recommends washing the surface once a week to prevent dirt build up



AWLCARE PROTECTIVE POLYMER SEALER

Awlcare will help protect the finish of fully cured, newly applied topcoats, as well as temporarily seal and restore shine to aged and weathered painted surfaces. Once a painted surface becomes porous it allows dirt to collect on the surface making the normal washing process more difficult. Regular applications of Awlcare will help seal the porosity, helping to maintain a satisfactory appearance until there is time to repaint.

- **Awlcare** contains no harsh abrasives and will not scratch the painted surface
- **Awlcare** leaves a non-yellowing, protective polymer coating which lasts through multiple washings
- **Awlcare** removes mild stains such as diesel soot and, with regular applications, increases resistance to attack from acid rain and other environmental pollutants



DO:

1. Wash the surface regularly with Awlwash (O73234) and water.
2. Use only mild solvents to remove stubborn stains. Awlprep OT0008, mineral spirits and xylene are acceptable for use on Awlgrip Finishes.

   Do not allow solvent to dry on the surface or puddle and soak into the surface. Wash these areas with Awlwash and water to remove solvent residue.
3. Always thoroughly rinse surfaces with fresh water after cleaning with Awlwash or solvents.
4. Use distilled white vinegar and hot water to remove stubborn salt stains. Washing with Awlwash after use of vinegar is recommended.
5. Use Awlcare (O73240) by hand only to remove mild diesel soot stains.

   Protecting the surface with Awlcare will help maintain the gloss of Awlgrip Finishes. Awlcare is a **hand applied**, non-abrasive, synthetic polymer. It will remove mild stains, water spots and diesel soot while increasing resistance to attack from acid rain and other pollutants, when applied regularly.

DO NOT:

1. Do not use traditional waxes. Awlgrip has developed Awlcare Protective Polymer Sealer for those who want to enhance their finish.
2. Do not use abrasives, scratch pads or polishing compounds on Awlgrip topcoats that are not polishable and repairable. Scratching the surface gives dirt a place to cling while wearing out the resin layer.
3. Do not allow contact between the Awlgrip Finishes and teak cleaners.
4. Do not allow metal polishes to dry on the surface of Awlgrip Finishes. Metal polishes may discolor and stain the painted surface.
5. Do not use strong solvents (eg. lacquer thinner, M.E.K., acetone) to clean Awlgrip Finishes.
6. Do not allow wet equipment (e.g. seat cushions, coils of line, sails, sail covers, coolers) to trap and hold moisture against Awlgrip Finishes.
7. Do not 'shrink wrap' or tightly bind Awlgrip Finish surfaces with plastic wrappings. The cover system, whether synthetic or natural fiber, should be ventilated to allow the coating system to 'breathe'.

This is a Professional Use Product

SYSTEMS ABOVE THE WATERLINE

1. Custom Build and Maintenance & Repair systems:

Fiberglass, Gelcoat, Composite and Wood:

6	TOPCOAT	Awlgrip HDT / Awlgrip Topcoat / Awlcraft 3000 / Awlcraft SE*
5	FINISH PRIMER	545 Epoxy Primer / Awlquik for brush/roller
4	EPOXY SURFACER	High Build or Ultra Build
3	EPOXY FAIRING COMPOUND	Awlfair LW
2	SUBSTRATE SEALER	Hullgard Extra Epoxy Primer
1	SUBSTRATE PREPARATION	Clean, sand, grind or blast (as necessary)
	SUBSTRATE	

* Note: use Awlgrip HDT Clearcoat, Awlcraft 3000 Clearcoat or Awlcraft CS in combination with Awlcraft SE Basecoat.

Steel and Aluminum:

7	TOPCOAT	Awlgrip HDT / Awlgrip Topcoat / Awlcraft 3000 / Awlcraft SE*
6	FINISH PRIMER	545 Epoxy Primer* / Awlquik for brush/roller
5	EPOXY SURFACER	High Build or Ultra Build
4	EPOXY FAIRING COMPOUND	Awlfair LW
3	SUBSTRATE SEALER	Hullgard Extra Epoxy Primer
2	SUBSTRATE SEALER	Max Cor CF
1	SUBSTRATE PREPARATION	Clean, sand, grind or blast (as necessary)
	SUBSTRATE	

* Note: use Awlgrip HDT Clearcoat, Awlcraft 3000 Clearcoat or Awlcraft CS in combination with Awlcraft SE Basecoat.

2. Systems for Series build & component/spare part suppliers:

Aluminum:

4	Awlcraft 3000 Clear / Awlgrip HDT Clear
3	Awlcraft SE / Awlcraft 3000*
2	Quick Build Sealer and Surfacer
1	Wash Primer CF**
	SUBSTRATE

Fiberglass, Gelcoat, Composite and Wood:

3	Awlcraft 3000 Clear / Awlgrip HDT Clear
2	Awlcraft SE / Awlcraft 3000*
1	Quick Build Sealer and Surfacer
	SUBSTRATE

* Optional Clearcoat application for Awlcraft 3000 Topcoat. Mandatory Clearcoat application for Awlcraft SE Basecoat

**** PLEASE NOTE:** Wash Primer CF is optional for Sealer but mandatory for Surfacer.

This is a Professional Use Product

AWLGRIP®

APPLICATION INFORMATION*

Spray Brush Roller

PRODUCT	CODE	MIX RATIO BY VOLUME	REDUCTION BY VOLUME	REDUCER**	WFT PER COAT	MINIMAL OVERCOATING TIME (25°C/77°F) WITH ITSELF	WITH OTHER
AWLGRIP HDT	OC Codes	1:1:12.5% with OC0010 and OA0010 / OA0015 / OA0020. Example: 1 GL: 1GL: 1QT	Optional extra 12.5%. Respect the 15min Induction Time.	OT0002, OT0003, OT0001 OT0005	2-3 mils (50-75 µm)	2+ coats 30 mins	N/A
AWLGRIP TOPCOAT	G & H Codes	1:1 with G3010 2:1 with H3002	Up to 25% 10-33%	OT0001, OT0002, OT0003, OT0005, OT0031	2-3 mils (50-75 µm)	3+ coats 30 mins	N/A
AWLGRIP TOPCOAT VOC	G & H Codes	1:1 with G3039	Up to 25%	OT0163, OT0167 or OT0168	2-3 mils (50-75 µm)	3+ coats 30 mins	N/A
AWLCRAFT® 3000	TF Codes	2:1 with G3010	Up to 33%	OT0001, OT0002, OT0003, OT0005	2-3 mils (50-75 µm)	2+ coats 30 mins	N/A
AWLCRAFT® 3000 VOC	TF Codes	2:1 with G3039	Up to 33%	OT0163, OT0167 or T0168	3-4.5 mils (75-112 µm)	2+ coats 30 mins	N/A
AWLCRAFT® SE	E/P/L/S Codes	2:1 with T0003 then add 10% G3010	N/A	OT0001, OT0003, OT0005, OT0031	2-3 mils (50-75 µm)	2+ coats 1 hour	1 hour OC0300 or TF0300
545 EPOXY PRIMER	D1001 / D8001	1:1 with D3001	Up to 25% 5-10%	OT0006 OT0031	4-6 mils (100-150 µm)	2+ coats 60 mins 12 hours	12 hours
545 EPOXY PRIMER VOC	D1001 / D8001	1:1 with D3400	Up to 25%	OT0163 or OT0167	4-6 mils (100-150 µm)	2+ coats 1 hour	12 hours
AWLQUIK	D8003	1:1 with D9001	Up to 50%	OT0006 (spray) or OT0031 (brush/roller)	5 mils (125 µm)	1+ coats 4 hours 12-14 hours	12-14 hours
QUICK BUILD	Surfacer: OU Base OU3200 OA3210	3:1:1	5 to 10% optional	OT0001, OT0002, OT0003, OT0005	3.9 mils (100 µm)	3 coats 5-15 mins	1.5 hours
	Sealer: OU Base OU3100 OA3110	4:1:1.5			3 mils (75 µm)	N/A	15 mins
HIGH BUILD	D8002 / D9002	1:1 with D3002	10-20%	OT0006 or OT0176	6-8 mils (150-200 µm)	2+ coats 2 hours	12 hours
ULTRA BUILD	D8008	1:1 with D3018	5-25%	OT0073	10-15 mils (250-375 µm)	1+ coats 1 hour	12 hours
HULLGARD EXTRA	D6120	10:1.5 with D3730	Up to 5% at low temps.	OT0006	9 mils (220 µm) 5 mils (130 µm)	1 coat 2 coats 16 hours	16 hours
MAX COR® CF	R4330	2:1 with R3330	Do not reduce	N/A	0.8-1.4 mils (20-34 µm)	N/A	17 hours
WASH PRIMER CF	D6600	1:1 with D3300	Do not reduce	N/A	2-4 mils (50-100 µm)	N/A	1 hour
AWLFAIR LW	D8200	1:1 with D7200 or D7222	Do not reduce	N/A	Up to 240 mils (6000 µm)	Multiple coats. 17 hours. Must be sanded before overcoating	17 hours. Must be sanded before overcoating
SPRAYABLE FAIRING COMPOUND	OD6001	1:1 with D3011	5-25%	OT0006	Up to 750 µm (30 mils)	Multiple coats 2 hours	24 hours. Must be sanded before overcoating
AWLSPAR	M3131	N/A	100% first coat only, then up to 20% if needed	OT0180 (spray) or OT0016 (brush/roller)	50-75 µm (2-3 mils)	7-10 coats 3 hours	N/A
AWLWOOD	Primer: J3809 J7809 J9809	N/A	N/A	N/A	Apply until timber saturation is achieved (once saturated do not apply more material)	N/A	4 hours with Awlwood Clear or Multi-Climate
	Gloss: J3890 J3810 J4000		Up to 10%	OT0201 (brush) or OT0202 (spray)	3 mils (80 µm)	8+ coats 2 hours	12 hours with Awlwood Satin Matt

For technical and application information, please refer to the technical datasheet available at awlgrip.com or contact your local Awlgrip Sales Representative for more information.

**Recommended reducer is temperature dependent. Check TDS for further information

This is a Professional Use Product

PRODUCT CHECK LIST

WIPE DOWN SOLVENTS

Awlprep Surface Cleaner OT0008
Awlprep 400 Slow Evaporating Wipe Down Solvent . OT0170
Awlprep Plus Wax and Grease Remover OT0115

CORROSION-INHIBITING SURFACE TREATMENTS

Max Cor CF
Base OR4330
Converter OR3330
Wash Primer CF
Base OD6600
Converter OD3300

PRIMERS & SEALERS

545 Epoxy Primer
VOC Exempt Converter OD3400
Base – White OD8001
Base – Gray OD1001
Converter OD3001
Quick Build
Base – White OU8000
Base – Black OU2000
Base – Red OU7000
Base – Blue OU5000
Base – Green OU4000
Base – Yellow OU2000
Surfacer Converter OU3200
Surfacer Activator OA3210
Sealer Converter OU3100
Sealer Activator OA3110
Awlquik
Base – Pale Yellow OD8003
Converter OD9001
Hullgard Extra
Base – Off White OD6120
Converter OD3730
Ultra Build
Base – White OD8008
Base – Yellow OD9002
Converter OD3002
High Build
Base – Off White OD8002
Converter OD3002

FAIRING & SURFACING COMPOUNDS

Awlfair LW Epoxy Trowelable Fairing Compound
Base – White OD8200
Converter – Red OD7200
Converter – Red Fast OD7222
Epoxy Sprayable Fairing Compound
Base – Tan OD6001
Converter OD3011

PRIMER REDUCERS

High Build (VOC Compliant) OT0176
Standard – Spray OT0006
For 545 Epoxy Primer & Awlquik OT0031
Ultra Build OT0073

AWLGRIP FINISHES REDUCERS

Fast OT0001
Very Fast OT0002
Medium OT0003
Slow – Hot Weather Retarder OT0005
For Awlgrip Finishes OT0031
Fast VOC Exempt (Awlgrip & Awlcraft 3000 VOC only) OT0163
Standard VOC Exempt (Awlgrip & Awlcraft 3000 VOC only) . . . OT0167
Hot Weather VOC Exempt (Awlgrip & Awlcraft 3000 VOC only) OT0168



This is a Professional Use Product

Awlgrip AwlPrep Surface Cleaner

- A fast evaporating surface cleaner used to wipe down final primed or topcoated surfaces before and after sanding
- Will remove hand oils, light grease and other light surface contaminants
- Has a "drying" effect which removes latent moisture from the surface
- Non-photochemically reactive

AWL T0008-GAL



Same as above, but with a 5 times slower evaporation rate, for use in warm weather conditions.

AWL T0170-GAL

Awlgrip AwlPrep Plus Wax & Grease Remover

- A medium fast evaporating, strong, solvent designed to remove waxes, oils, and greases
- Use before and after sanding the substrate prior to priming
- Do not use T0115 on freshly applied primers or topcoats
- T0115 is photochemically reactive



AWL T0115-GAL

AWLGRIP®

MAINTENANCE PRODUCTS

Awlwash – Wash Down Concentrate O73234
Awlcare – Protective Polymer Sealer O73240

TOPCOATS

Awlgrip HDT
Base Clear OC0300
Binder OC0310
Toners . . . . . YSC Codes
Bases . . . . . OC-Codes
Converter OC0010
Activators OA0010, OA0015, OA0020

Awlcraft SE
Base – Toners . . . . . OQ-Code
Binder OQ0065
Base – Solid Color . . . . . Selected from Color Card (L-Code #)
Base – Metallic . . . . . Selected from Color Card (E-Code #)
Base – Pearlescent . . . . Selected from Color Card (P-Code #)
Converter . . . . . Awlcat #2 (OG3010)

Awlgrip Spray
Base . . . . . Selected from Color Card (G or H Code #)
Converter . . . . . Awlcat #2 (OG3010)

Awlgrip Brush
Base . . . . . Selected from Color Card (G or H Code #)
Converter . . . . . Awlcat #3 (OH3002)

Awlcraft 3000
Base Clear TF0300
Binder TF0310
Bases . . . . . Selected from Color Card (TF Code #)
Converter . . . . . Awlcat #2 (OG3010) Awlcat #5 (OG3039)

BRIGHTWORK & VARNISH

Awlbrite Clear Urethane
Base OJ3005
Converter OJ3006
Activator . . . . . OA0001 (spray), OA0031 (Brush)

Awlspar Classic Spar Varnish
Base OM3131
Reducer OT0016

EXTERIOR CLEAR COAT SYSTEM

Awlwood
Clear Primer OJ3809
Red Tone Primer OJ7809
Yellow Tone Primer OJ9809
Gloss Finish OJ3890
Satin Matt Finish OJ3810
Brushing Reducer OT0201
Spray Reducer OT0202
Brush Cleaner OT0200
Multi-Climate Gloss OJ4000

AUXILIARY PRODUCTS

Griptex – Fine Grit Non-Skid Additive O73012
Griptex – Coarse Grit Non-Skid Additive O73013
Griptex – Extra Coarse Grit Non-Skid Additive O73237
Deluxe Tack Rags O73009
Pro-Cure X – 98 Fast Accelerator O73014
Pro-Cure X – 138 Inhibited Accelerator O73015
Flattening Agent for Urethane Topcoats OG3013
Cold Cure 545 Primer Accelerator OM3066
Awlgrip Repair – Basecoat Foundation Coat OE3001
Awlgrip Repair – Basecoat Blender OT0190
Awlgrip Repair – Topcoat Blender OT0195



This is a Professional Use Product

Please call for product information

► Also See Awlwood Products pg 07-017

Why do I need a Thinner?



Thinners are solvents which are usually the same, or very similar, to those used within the product they are recommended with. Thinners can be used as an additive to ease application, or to clean brushes and equipment.

To find out which thinner you need to use, refer to the chart below:

Product	Brush	Spray	Cleanup	% Thinner required Brush	% Thinner required Spray
Toplac Plus	2333N	216	216	As required 10% max	10-15%
Perfection Epoxy Primekote	2333N	2316N	2333N or 2316N	As required 5-10%	As required 25-35% max
Brightside Bilgekote Varnishes	333	216	216	As required 10% max	10-15%
Bottom Paints (Conventional)	216	N/A	216	10% 1st coat wood only	As required 10% max
Micron CSC-CA	216	N/A	216	As required 10% max	10-15%
Bottomkote-CA	216	N/A	216	10% 1st coat wood only	As required 10% max
VC Offshore	216	N/A	216	10% 1st coat wood only	As required 10% max
Pre-Kote Plus	2333N	216	216	As required 10% max	10-15%
InterProtect 2000E	2333N	2316N	2333N/ 2316N	5-10%	10-15%
VC Performance Epoxy	2333N	2316N	2333N/ 2316N	5-10%	5-10%

Fiberglass Surface Prep YMA601V



Fiberglass Surface Prep YMA601V is a low VOC contamination/mold release agent remover used for preparing fiberglass bottoms of new boats or unpainted hulls before applying primers or antifouling paints. Removing contaminants from fiberglass is extremely important if full adhesive qualities of primers and/or antifouling paint are to be realized. It can also be used for the removal of amine blush from clear epoxy and cleaning previously painted surfaces prior to sanding before repainting topside finishes. Fiberglass Surface Prep YMA601V is ideal for preparing inflatable boats for a compatible antifouling system.

Interlux Reducing Solvents



Reducing Solvent 2316N is a fast evaporating solvent to be used in specific two-part polyurethane and epoxy products.

2333N Reducing Solvent is a slow evaporating solvent to be used in specific two-part polyurethane and epoxy products.

INT 2316N-QT Spray
INT 2333N-QT Brush

Interlux 202 Solvent Wash



Solvent Wash is a combination of several solvents, some of which are very slow to evaporate from the surface of gel coat being wiped. This characteristic is very important because the wax contaminants must stay in solution so that it can be wiped from the surface before it dries. This solvent wash is also an excellent parts clean up and multipurpose wipe down solvent.

INT 202-QT

Interlux 216 Special Solvent



A fast evaporating solvent which, when added to specified paint coatings, improves drying in cold climates and facilitates spray application. Also recommended for removing sanding residue from hull bottoms, wiping down bare aluminum clean and for the general clean-up of paint equipment.

INT 216-QT

Interlux 333 Brushing Liquid



A slow drying solvent to ease brushing and facilitate the flow of specified paint coatings. Extends drying in hot weather. Also recommended in various topside systems for removing sanding residue from fibreglass and wood surfaces.

INT 333-QT

Awlgrip Tack Rags



When tacking a primer or topcoat surface, use only Awlgrip Tack Rags as they have the proper type and amount of resin to pick up dust without leaving contamination on the surface. Other tack rags can easily leave a residue that causes fisheyes and cratering of the topcoat.

AWL 73009 4/pkg

Solvable Paint Thinner



- Low odour mineral spirits
- Ideal as a paint thinner or brush cleaner

SOL 53-231X100V 946 ml, New VOC standards
SOL 53-234X52V 3.78 litres, New VOC standards

Solvable Lacquer Thinner



- For thinning lacquer based paints and primers
- Excellent for cleaning spray guns, rollers and brushes

SOL 53-351 946 ml
SOL 53-354 3.78 litres
SOL 53-358 18.9 litres

Solvable Acetone



For thinning fibreglass resin mixes, dissolving 2-part epoxies, cleaning tools and brushes used for epoxy and lacquers.

SOL 53-261 946 ml
SOL 53-264 3.78 litres
SOL 53-268 18.8 litres

Solvable Xylene



- Thins oil-based paint, varnishes & specialty coatings such as epoxy & synthetic enamels
- Cleans and degreases steel, tools & equipment
- Dissolves and removes adhesives, acrylic/alkyd resins & water proofing agents
- Slows down drying time of oil-based paints and helps achieve a smooth finish
- Ideal for professional and industrial use

SOL 53-144 3.78 litres

Solvable Methyl Hydrate



- Used as a fuel in non-pressurized alcohol stoves
- A cleaner and thinner for shellac
- Excellent gas line antifreeze
- Solvent for gums, resins and rubber cement

SOL 53-391 946 ml

► *Also See* Kerosene pg 05-045



Protocol DeFoul Antifouling Paint Remover



- Easy and effective way to remove anti-fouling paint without sanding or blasting
- Will not damage gel coats and epoxy barrier coatings
- Safe for use on gel coats, fibreglass, aluminum, steel and wood hulls
- Can remove multiple layers of anti-fouling paint
- Water-based and fully biodegradable in water
- Less clean up, solid paint waste is easily collected and disposed of
- Uses adhesion bond breaking technology
- No regulated VOC's

PRO DEFOUL-GAL Gallon
PRO DEFOUL-5GAL 5 gallon

Protocol DeBond Industrial Paint & Coating Remover



- Easy and effective way to remove most paints, coatings, and powder coatings - including barrier coats
- Ideal for lead-based paint removal and containment - no airborne lead particles
- Easy spray-on application will not flash off - ideal for large removal projects
- Safe for use on almost any substrate
- Non-hydrogen embrittling according to ASTM F 519-93
- Water-based and fully biodegradable
- Eliminates mechanical methods & toxic chemical strippers
- Uses adhesion, bond-breaking, and encapsulation technology
- For use indoors, outdoors, and in confined spaces

PRO DEBOND-GAL Gallon
PRO DEBOND-5GAL 5 gallon

Moeller Engine Paints



- Heat and solvent resistant acrylic lacquer
- Colour matched to your engine's original colour
- For use on all outboard and inboard engines, stern drive and lower unit applications
- 340 gr (12 oz) net weight

MOE 025350	Mercury Phantom Black 1960-Present
MOE 025433	Evinrude/Johnson White 1977-80
MOE 025454	Evinrude Light Blue 1978-87
MOE 025461	Johnson/Evinrude White 1978-87
MOE 025469	Yamaha Blue Metallic 1985-1990
MOE 025488	Volvo Sterndrive Grey 1989-Present
MOE 025491	Crusader Blue

Moeller Zinc Primers



- Outstanding durability and abrasion resistance
- Excellent resistance to the marine environment
- Ideal for aluminum surfaces above or below the water line
- Zinc phosphate primer may be top-coated with two epoxies or left as-is
- 12oz net weight spray can

MOE 025802-C-1	Green zinc phosphate
MOE 025801-C-1	Yellow zinc phosphate

Moeller Clear Coat



- Finishing application to increase lustre and depth
- For use on all outboard & inboard engines, stern drive and lower unit applications
- Quick-dry formula
- Enhanced UV protection
- 340 gr (12 oz) net weight

MOE 025519

► *Also See* Martyr Seaguard Zinc Spray pg 07-013

Preval Portable Spray Gun



- Handles all kinds of liquids; paints, thinner, lacquer, shellac, cleaners and solvents
- Comes with a modular power unit and refillable container jar with screw cap
- Power unit sprays up to 470 ml (16 oz) of liquid

PRE 367	Paint sprayer complete
PRE 368	Replacement aerosol unit
PRE 569	Extra container

► *Also See* Spray Gun Cleaner pg 06-039

3M Performance Industrial Spray Gun System



- Lightweight and easy to use
- Durable, impact-resistant composite body
- Versatile design allows spray from either pressure or gravity sources
- Quick-change replaceable atomizing heads ranging from 1.1 to 2.0mm - like getting a brand new spray gun with every new nozzle
- Cleanup can be as simple as wiping the tip of the needle and replacing the head
- Sprays a wide range of coatings - from stains and primers to topcoats, and even adhesives
- Uses the 3M PPS Series 2.0 Spray Cup System
- Recommended air inlet pressure is 18 psi (1.24 bar) for pressure feed, and 20 psi (1.38 bar) for gravity feed

THR 26832 Spray gun and air control valve only

3M Performance Spray Gun H/O Conversion Pack



- Upgrades the 3M Performance Spray Gun (26832) to spray heavy, thick coatings using the 3M PPS Series 2.0 Spray Cup System by adding a port
- Provides excellent application control of heavy or texture coatings
- Simple two-screw installation

THR 26837

3M Performance Pressure HVLP Atomizing Heads



- Excellent pattern control, atomization, and transfer efficiency
- Nozzle rotates for vertical and horizontal spraying
- Use exclusively with 3M Performance Spray Gun
- Like-new spray performance with each new atomizing head
- Quick-change nozzles in sizes 1.1mm, 1.4mm, and 1.8mm for spraying a wide range of coatings
- 10 heads/pack

THR 26811 1.1 mm, Yellow
THR 26814 1.4 mm, Orange
THR 26818 1.8 mm, Clear

	1.8	1.4	1.1
Textured Paints	✓	✓	✓
1K Top Coats		✓	✓
2K Top Coats		✓	✓
Base Coat/ Single Stage Materials			✓
Clear Coats		✓	✓
Epoxy / Urethane Primers	✓	✓	✓
Adhesives	✓	✓	
Release Agents			✓

Note: Starting point only, always refer to Paint Manufacturer's recommendation on fluid tip size

3M Performance Gravity HVLP Atomizing Heads



- Exceptional pattern control, atomization, and transfer efficiency
- Use exclusively with 3M Performance Spray Gun and PPS Series 2.0 Spray Cup System
- Like-new spray performance with each new atomizing head
- Quick-change nozzles range from 1.2mm to 2.0mm for spraying a wide range of coatings
- 5 heads/pack

THR 26712 1.2 mm, Blue
THR 26713 1.3 mm, Green
THR 26714 1.4 mm, Orange
THR 26716 1.6 mm, Purple
THR 26718 1.8 mm, Clear
THR 26720 2.0 mm, Red

	2.0	1.8	1.6	1.4	1.3	1.2
High Viscosity Coatings	✓	✓				
Sprayable Fillers	✓	✓				
High Build Primer		✓	✓	✓		
Primer Surfacer		✓	✓	✓		
Wet on Wet Primer				✓	✓	
Primer Sealer				✓	✓	
Direct Gloss				✓		
Single Stage Top Coat				✓		
Solvent Base Colour				✓	✓	
Clearcoat				✓	✓	✓
Waterborne Base Coat					✓	✓

Note: Starting point only, always refer to Paint Manufacturer's recommendation on fluid tip size.

3M Accuspray PPS Series 2.0 Spray Cup System Kits



- Redesigned adapters provide four points of connection from spray gun to lid, improving stability and confidence - especially in large cup applications
- Quarter-turn lid locking system locks lid to cup and eliminates paint build up and cross threading
- Domed lid geometry and a wider fluid spout allows up to 3 fl oz of material to be held below the full size filter, reducing inconsistent spray due to air entrapment and sputter
- Reusable hard cup is included in every kit
- Cut-out access window allows you to grasp the liner through the cup, offering easier lid removal when paint filling or tinting
- Larger sealing plug allows for stable upside down storage, keeping filter wet and reducing number of lids
- Kit Includes: 50 lids, 50 liners, 32 sealing plugs, 1 hard cup

THR 26000 Standard, 22 fl oz, 200 micron filter
THR 26024 Large, 28 fl oz, 200 micron filter
THR 26312 Midi, 13.5 fl oz, 125 micron filter
THR 26301 Standard, 22 fl oz, 125 micron filter
THR 26325 Large, 28 fl oz, 125 micron filter

3M PPS Series 2.0 Starter/Refill Kit

- Standard, 22 fl oz, 200 micron filter

THR 26173 Refill kit contains:12 lids, 12 liners, 16 sealing plugs



3M Accuspray Atomizing Heads for PPS Series 2.0 Spray Guns

- Highest performing disposable spray cup system
- Atomizing heads are available for spraying of primer, sealer, base, and clear coat
- Can be used on any 3M Accuspray atomizing head spray gun
- Size is presented clearly on each atomizing head for fast, accurate selection
- Fast, simple head replacement affords the performance of a brand new spray gun on demand
- See-through design makes it easy to see when the heads are clean
- 4 heads/pack

THR 26612 1.2 mm, Blue
THR 26613 1.3 mm, Green
THR 26614 1.4 mm, Orange
THR 26618 1.8 mm, Clear
THR 26620 2.0 mm, Red

	2.0	1.8	1.4	1.3	1.2
High Viscosity Adhesives	✓				
Anti-Skid Coatings	✓				
Gel Coat / Metal Flake	✓				
Polyester or High Build Primers	✓				
Bottom Paint	✓	✓			
Water/Solvent Based Adhesives		✓			
Epoxies		✓			
Enamel		✓			
Single Stage Paints			✓		
Wood Lacquers			✓		
Clear Coat			✓	✓	✓
Top Coat			✓	✓	✓
Mold Release Agents				✓	✓
Wood Stain & Varnish				✓	✓
Finish / Viscosity	High	Medium	Fine	Fine	Very Fine

Note: Starting point only, always refer to Paint Manufacturer's recommendation on fluid tip size.



3M Accuspray ONE Spray Gun Kit

- Redesigned gun frame for increased durability
- One gun meets all of your spraying needs
- Combines the simplicity and easy maintenance of the 3M Accuspray spray gun with material saving, rapid clean up convenience of the PPS Series 2.0, the next generation, highest performing disposable spray cup system
- Fast, simple head replacement affords the performance of a brand new spray gun on demand
- Atomizing heads can be used on any 3M Accuspray atomizing head spray gun
- Replaceable atomizing heads for spraying primer, sealer, base, and clear coat
- Kit Includes: Accuspray ONE Spray Gun, Accuspray Atomizing Heads (1 ea 5 sizes), air control valve, colour ID clips

THR 26578



3M Accuspray (HGP) Spray Gun Kit

- Designed for use with H/O Pressure Cups (sold separately), excellent for high-viscosity coatings
- Equivalent of a new spray gun whenever you need it, for a fraction of the cost
- Replaceable atomizing heads reduce clean-up time, and maximize consistent application
- Lightweight, composite body is designed for operator comfort
- Kit Includes: Accuspray HGP Spray Gun, Accuspray Atomizing Heads (2 each of 1.8mm and 2mm), one airflow control valve

THR 16587 HGP Spray Gun Kit
Accessories:
THR 26124 H/O pressure cup, for standard and large lids and liners
THR 26121 H/O pressure cup, for midi and mini lids and liners

► *Also See* Spray Gun Cleaner pg 06-039

Redtree Badger Brushes



The premium quality brush for the discerning craftsman. Hand crafted for the finest of finishes. Excellent for urethanes and topside enamels. Chisel trim for sharpest cutting edge.

- Badger style China bristle

RTI BADGER-1"
RTI BADGER-1-1/2"
RTI BADGER-2"
RTI BADGER-3"

Simms Vintage-Pro Brush



- Hand-crafted white China bristle blend
- For oil paints
- Stainless steel ferrules, and aluminum inserts
- Angled sash
- White china bristle

Part #	Size	Thick	Length
SIM 7200-64	64mm (2.5")	16mm	2-7/8"

Simms Eclipse Brushes



- Synthetic blend of NYLYN filaments
- Superior pick-up and release for exceptional coverage

Part #	Size	Thick	Length
SIM 6020-38	38mm (1.5")	14mm	2-3/8"
SIM 6020-64	64mm (2.5")	19mm	2-5/8"
SIM 6020-75	75mm (3")	22mm	2-3/4"

Simms Thrush Brushes



- A good quality, moderately priced, pure bristle brush
- Injection-moulded plastic handles
- Natural bristle for oil based paints

Part #	Size	Thick	Length
SIM 2200-30	30mm (1")	10mm	51mm
SIM 2200-50	50mm (2")	13mm	51mm
SIM 2200-75	75mm (3")	13mm	58mm
SIM 2200-100	100mm (4")	16mm	64mm

Simms Streamline Brushes



- A better quality pure bristle brush
- Injection-moulded plastic handles
- For oil based paints
- Polyetster bristle

Part #	Size	Thick	Length
SIM 2300-30	30mm (1")	13mm	51mm
SIM 2300-50	50mm (2")	16mm	58mm
SIM 2300-75	75mm (3")	19mm	64mm
SIM 2300-100	100mm (4")	19mm	70mm

Simms Blackbird Brushes



- The best quality pure bristle brushes
- For oil based paints
- Polyetster bristle

Part #	Size	Thick	Length
SIM 2400-30	30mm (1")	13mm	58mm
SIM 2400-50	50mm (2")	16mm	70mm
SIM 2400-75	75mm (3")	19mm	77mm
SIM 2400-100	100mm (4")	19mm	83mm

Simms Redbird Brushes



- A low priced line ideal for touch up jobs
- Injection-moulded plastic handles
- Bristle construction for oil paints
- Natural bristle

Part #	Size	Thick	Length
SIM 2100-15	15mm (1/2")	7mm	45mm
SIM 2100-30	30mm (1")	10mm	45mm
SIM 2100-50	50mm (2")	10mm	45mm
SIM 2100-75	75mm (3")	13mm	45mm
SIM 2100-100	100mm (4")	13mm	45mm

Redtree Onyx Brushes



- Best all around quality brush
- Use with enamels, varnishes, and urethanes
- 100% white China bristle with chisel edge

RTI ONYX-1" 1"
RTI ONYX-1-1/2" 1-1/2"
RTI ONYX-2" 2"

Simms Chip Brushes



A low priced brush for gluing, touching up, chip removal around machinery and other industrial applications.

- Natural bristle

Part #	Size	Thick	Length
SIM 9900-13MM	13mm (1/2")	7mm	38mm
SIM 9900-25MM	25mm (1")	8mm	38mm
SIM 9900-50MM	50mm (2")	10mm	45mm
SIM 9900-75MM	75mm (3")	10mm	45mm
SIM 9900-100MM	100mm (4")	10mm	45mm

Redtree Disposable Fooler Brushes



This is like getting two brushes in one. Double the thickness of the average chip bristle brush, which enables you to pick up more paint.
Paint more - dip less. Economical.

- Natural bristle

RTI FOOLER-1"
RTI FOOLER-2"
RTI FOOLER-3"
RTI FOOLER-4"

Redtree Foam Brushes



Inexpensively priced, single use foam painters for small touch-up jobs around the home. Ideal for applying urethane.

Part #	Size	Thick	Length
RTI FOAM-1"	25mm (1")	12mm	51mm
RTI FOAM-2"	50 mm (2")	14mm	62mm
RTI FOAM-3"	75mm (3")	14mm	62mm
RTI FOAM-4"	100mm (4")	17mm	73mm

Simms Acid Brush



- Paste and glue brush
- Bristle filament in one-piece metal ferrule
- Ideal for applying PVC cement
- Natural bristle

Part #	Size	Length
SIM 139-ACID	11mm (7/16")	33mm

Simms Offset Radiator Brush



- Designed to make painting easier in between radiators and other awkward places
- 45° angle at the shoulder
- Natural bristle construction for oil paint

Part #	Size	Thick	Length
SIM 2940-38	38mm	10mm	51mm

Simms Barracuda Roller Frame



- Frame has a retaining spring that securely holds the roller to prevent it from walking off a cage
- Plastic pistol grip handle is threaded for an extension handle
- Four plastic contour cage tension wires

Part #	Size	Dia.
SIM RF800C	240mm	38mm

Simms Professional Roller Frame



- Heavy duty excellently priced
- Five contour cage tension wires
- Threaded for extension handle

Part #	Size	Dia.
SIM F-113	240mm	38mm

Simms Consumer Roller Frames



- Two tension bends on five wire cage
- Threaded for extension handle
- #1 seller

Part #	Size	Dia.
SIM F-194	240mm	38mm
SIM F-190	190mm	38mm

Epifanes Moltopren Fine Foam Roller



- Used with Epifanes 2-Part Polyurethane
- Excellent quality cover for fine paints and varnishes
- Domed end cap saves time when painting corners
- Fits most 100 mm roller frames

EPI RCM 100 mm (4")

Redtree Roller Refills



- All paints, industrial coatings and bottom paints
- Solvent resistant
- 6" x 2", 2/pkg

RTI MINI-6"NAP

Simms Pro Nylon Refill



- For epoxy, fibreglass resins, texture coatings, moisture cure urethanes and adhesives
- 5 mm pile
- Solvent resistant Phenolic core

Part #	Size	Pile
SIM R-890	240mm	5mm

Simms Foam Roller Refill



- Economy roller for smooth surfaces
- Ideal for applying enamel paint
- Phenolic core

Part #	Size	Pile	Dia.
SIM R-196	240mm	3mm	38mm

Simms Lint Free Refill



- Best quality consumer refill
- Shed resistant fabric
- Provides exceptionally smooth surfaces
- Ideal for semi/high gloss paints
- Phenolic core

Part #	Size	Pile
SIM R-620	240mm	6mm

Simms General Purpose Roller Refills



- Knitted polyester fabric
- For all flat and low sheen paint
- 5 mm pile recommended for fibreglass resin application
- Plastic core

Part #	Size	Pile	Dia.
SIM R-150	190mm	5mm	38mm
SIM R-151	240mm	5mm	38mm
SIM R-120	190mm	10mm	38mm
SIM R-121	240mm	10mm	38mm

Simms Renaissance Refill



- Nylon synthetic hybrid blend produces high quality lint free finishes
- Smooth and semi-smooth surfaces
- It is suitable for flat and low sheen paints

Part #	Size	Pile
SIM R-791	240mm	10mm

Simms Mini Roller & Refills



- For painting hard to reach areas
- A roller for smooth surfaces
- Good for Urethanes, Stains, Varnishes, and Melamine, as well as semi and high gloss paint

SIM F-102 Trimmer frame takes 4" & 6" refills
SIM A-104 100 mm (4") foam refill
SIM A-106 150 mm (6") foam refill

Simms Trim Rollers



- Fine finishes. For semi-gloss, high gloss paints, enamels, varnishes, melamine and marine finishes
- Size: 75mm x Pile: 6mm x Diameter: 22mm

SIM A-040 Roller handle and refill
SIM A-041 Twin pack refill for A-040



- All purpose roller for smooth surfaces
- Size: 75mm x Pile: 5mm x Diameter: 38mm

SIM A-044 Roller handle and refill
SIM A-045 Refill for A-044



- Stipple trim roller. For melamine, textured and fibreglass paints, also adhesive applications
- Size: 75mm x Pile: 3mm x Diameter: 38mm

SIM A-048 Roller handle and refill
SIM A-049 Refill for A-048



- For melamine, urethanes, latex/oil paints. Foam
- Size: 75mm x Pile: 3mm x Diameter: 38mm

SIM A-050 Roller handle and refill
SIM A-051 Refill for A-050



- Lint free design. Accepts threaded handles
- Size: 100mm x Pile: 5mm x Diameter: 38mm

SIM A-090 Roller handle and refill
SIM A-091 Refill for A-090

Simms Gold Stripe Roller Refills



- For flat and semi-gloss paints in latex or oil and smooth to semi-smooth surfaces
- Fits F-102 frame

SIM A-114 100 mm (4")
SIM A-116 150 mm (6")

Redtree Mini 4" Roller Kit



- Mini 100 mm (4") roller set contains: 1ea. stripe refill, foam refill, paint tray and roller frame
- For enamels, varnishes, urethanes, and bottom paints

RTI MINI-4" Kit

RedTree 9" Plastic Tray Paint Set



- Phenolic multi-purpose roller cover for top coats and bottom paints
- Includes solvent resistant plastic tray, 9" x 1/4" nap roller, 9" roller frame, double thick 2-1/2" chip brush, and protective gloves

RTI 35022

Simms Premier Set



Best quality, packaged set incorporating the F-194 cage frame, T-160 plastic, Ladder-mate tray and a premier lint free 240 mm x 38 mm phenolic core refill.

- Pile Depth: 10 mm

SIM S-421

Simms Roller Trays



- One litre consumer metal tray
- For 190/240 mm rollers

SIM T-175

- Clear plastic tray liner for T-175

SIM T-195



- Two litre Premier plastic tray
- For 190/240 mm rollers

SIM T-160

- Clear plastic tray liner for T-160

SIM T-165



- Three litre pro jumbo metral tray
- For 190/240 mm rollers

SIM T-300

- Clear plastic tray liner for T-300

SIM T-320

Simms Plastic Trays



- Polystyrene plastic roller trays
- Deep well design
- Anti-skid grid for even paint loading
- For use with 100mm (4") or less refills
- Interior: 5-1/2" x 12-1/2"

SIM T-040

- For use with 150mm (6") or less refills
- Interior: 6-1/2" x 12-1/2"

SIM T-060

Redtree Paint Mixers

NEW



- For use with 3/8" drills or larger
- Small mixers for gallon sized containers, and large for gallon to 5 gallon sized containers

RTI 50114 Small
RTI 50115 Large

Cover Guard Temporary Surface Protection



- Flame retardant (NFPA 701 compliant)
- Diamond plate anti-slip pattern
- Extremely strong and durable
- Resistant to water, and most chemicals and solvents
- Quick and easy to install and remove
- 10 mil thick

COV CG1036DP 36" x 393'

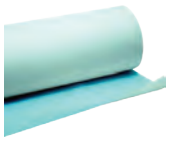
Cover Guard Seam Tape



- Industrial grade tape, excellent for seam sealing of cover guard
- Fire resistant
- High quality polyethylene coated cloth conforms well to irregular surfaces
- Adheres to a variety of surfaces
- 7 mil thick

COV CGTP03FRBU 3" x 180'

FBS Surface Protection



- Nonslip fleece material is breathable and tear resistant
- Top has a paint and solvent resistant PE film, making it easy to clean and reuse
- Underside offers maximum slip and scratch resistance, thanks to the coated polyester fibres
- Works best when surface is clean and dry
- Repositionable, and can be layered for extra protection

FBS 90110 39.37" x 41'
FBS 90120 39.37" x 164'

FBS Surface Protection



- Absorbent, lightweight, nonwoven felt material
- Bottom has an impermeable, nonslip, and solvent resistant film
- Ideal for use as a drop sheet to protect flooring
- Extra high density material is very tear proof, with an easy, wrinkle-free roll out
- Reusable multiple times

FBS 90210 39.37" x 82'
FBS 90220 39.37" x 164'

FBS Surface Protection



- Super-adhesive, absorbent fleece offers maximum slip resistance
- Ideal protection for carpets, stairs, and other materials (not breathable, so unsuitable for freshly laid floor covering)
- Underside is made of a self-adhesive film, making wrinkle-free laying easy
- Repositionable, easy to cut, and can be layered for extra protection

FBS 90310 19.68" x 82'
FBS 90320 39.37" x 82'

FBS ProMask System

2-in-1 combined coated paper and high temperature masking tape offers a quick and easy solution for big and small masking jobs.



FBS 48218 7" x 18 yd, w/dispenser
FBS 48216 7" X 18 yd, roll only
FBS 48238 12" x 24 yd, w/dispenser
FBS 48236 12" x 24 yd, roll only

Poly-Tak Carpet Mask



- 2 mil. non-skid polyethylene film with pressure sensitive adhesive applied to one side
- Reverse roll provides application ease
- Highly resistant to tearing and puncturing
- Recommended for synthetic carpeting only
- Not recommended for wood flooring
- Easily removed
- Maximum application time is 30 days

PPS CM24X200-C 24" x 200'

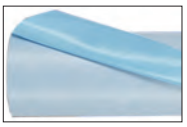
3M Overspray Protective Sheeting



- Clear, tear resistant polyethylene film
- For protection from paint overspray
- Folded to 3 ft for easy one person application
- Film unfolds easily, yet clings allowing for easy application

THR 06728 16' x 350'

3M Self-Stick Liquid Protection Fabric



- Specially engineered surface protection material for industrial and automotive applications
- Temporarily protects surfaces from the damaging effects of liquids, oils, and solvents while also trapping dirt
- Adhesive backing keeps material secure and makes for fast, easy application
- Resists UV rays - can be used outdoors for up to two weeks
- Repositionable material applies quickly and removes easily without residue
- Conformable material can be applied to irregular surfaces such as hoses and part stands

THR 36878 14" x 300'
THR 36879 28" x 300'

3M Draping Films



Draping Film Rolls are a high density, non-porous film specially designed for paint masking and paint overspray protection. Each roll folds down for extended overspray protection for larger surface areas on deck or hull. This strong yet light translucent film is specially treated for penetration resistance and offers cost effective protection. Designed to be used with No.M3000 hand masker.

THR AMF48 48" x 180'
THR AMF99 99" x 90'

3M Masking Paper



- Polycoated backing to prevent solvent bleed-through
- Thin paper provides excellent conformability
- Unique paper holds up well under wet sanding conditions
- Distinctive gold colour makes paper easy to find

THR 06732 12" x 180'

Wesmar Guard Floor Protection



- Fast, easy installation
- Protects against spills, moisture, paint, mud, movers
- 100% recycled fibres
- Re-usable

WES GUARD 36" x 100'

Wesmar Fabric Floor Protection

NEW



- Breathable, water resistant, slip resistant, and reusable surface protector
- Reverse wound with adhesive underside for a quick and easy installation
- Leaves no residue

WES JONASHIELD 36" x 50'

3M Hand Masker Dispenser



- Constructed of plastic
- Dispenses the exact length of tape and masking film/paper directly to the work surface
- Accommodates 3/4" to 2" masking tape and 3" to 18" film or paper roll
- Cut off blades are not included

THR M3000 Hand masker
Parts:
THR FB12 Replacement blade

FBS K-UTG Masking Tape



- Extremely thin, flexible, semi-translucent tape
- Heat and UV-resistant acrylic adhesive
- Tape can be lifted and repositioned without leaving any residue
- Ideal for work on difficult surfaces, two-toning, colour separation, and airbrushing
- 55 yard rolls

FBS 48063 1/4"
FBS 48064 1/2"
FBS 48060 3/4"
FBS 48065 1"
FBS 48080 2"
FBS 48090 3"

Shurtape 14-Day ShurRELEASE Masking Tape



- Premium grade, UV-resistant, multi-surface tape
- Interior and exterior use
- Medium adhesion
- Removes cleanly from most surfaces for up to 60 days
- Length: 55 meters (60 yds)

SHU CP27-18MMX55M 3/4"
SHU CP27-24MMX55M 1"
SHU CP27-36MMX55M 1-1/2"
SHU CP27-48MMX55M 2"

Shurtape FrogTape Delicate Surface Painter Tape



- Premium grade, solvent free, low adhesion washi paper backing tape
- PaintBlock seals tape edges for very sharp paint lines
- 60 day clean removal from indoor surfaces

SHU CF160-24MMX55M 1"
SHU CF160-48MMX55M 2"

Shurtape FrogTape Blue Performance Masking Tape



- Moderate temperature (up to 121°C for up to 30 minutes) paint masking and wet sanding applications
- Excellent adhesion to metal, rubber, plastic, anodized aluminum, chrome, and fibreglass
- Compatible with gel coats, multi-part epoxy topcoats, and antifouling bottom paints
- Resistant to water, salt water, various solvents, and abrasives
- Length: 55 meters (60 yds)

SHU CP250-24MMX55M 1"
SHU CP250-36MMX55M 1-1/2"
SHU CP250-48MMX55M 2"

Shurtape FrogTape Gold Performance Masking Tape



- Moderate temperature (up to 107°C for up to 30 minutes) paint masking and metal fabrication applications
- Excellent adhesion to metal, rubber, plastic, anodized aluminum, chrome, and fibreglass
- Compatible with gel coats, multi-part epoxy topcoats, and antifouling bottom paints
- Resistant to water, salt water, various solvents, and abrasives
- Length: 55 meters (60 yds)

SHU CP225-36MMX55M 1-1/2"
SHU CP225-48MMX55M 2"

3M General Purpose Masking Tape

A good general purpose masking tape that gives good protection yet removes cleanly and easily.



- Not for extended outdoor use
- Length: 55 meters (60 yds)

THR 2307-24MMx55M 1"
THR 2307-36MMx55M 1-1/2"
THR 2307-48MMx55M 2"

3M 218 Fine Line Tape



- Polypropylene striping tape provides the finest colour line separation available
- Stretches easily for smooth curves - yet tears easily by hand
- Excellent solvent and moisture resistance
- Not for extended outdoor use
- Length: 55 meters (60 yds)

THR 218-3.17MMx55 1/8"
THR 218-6MMx55M 1/4"
THR 218-12MMx55M 1/2"
THR 218-18MMx55M 3/4"

3M Painters Tape



- Designed for use on delicate surfaces such as freshly painted walls, wood floors, wallpaper, veneers and cabinets
- Great for accent walls, decorative stripes or patterns
- Edge-Lock Technology seals out paint for sharper paint lines
- 60-day clean removal leaves behind no damage or sticky residue

THR 2080-24EC 1" x 60 yards
THR 2080-48EC 2" x 60 yards

3M Green 233+ Paint Masking Tape

This tape is highly conformable and has a specially formulated adhesive system that allows improved adhesive transfer to rubber mouldings and painted surfaces.

- Length: 55 meters (60 yds)



THR 233+12MMx55M	1/2"
THR 233+18MMx55M	3/4"
THR 233+24MMx55M	1"
THR 233+36MMx55M	1-1/2"
THR 233+48MMx55M	2"

3M 301+ Yellow Performance Masking Tape

- Ideal where strong holding performance is required
- Withstands surface temperatures up to 225°F/107°C for 30 minutes
- Length: 55 meters (60 yds)



THR 301+-12MMx55M	1/2"
THR 301+-18MMx55M	3/4"
THR 301+-24MMx55M	1"
THR 301+-36MMx55M	1-1/2"
THR 301+-48MMx55M	2"

3M Blue Safe Release Masking Tape

- For paint masking, bundling and sealing
- Clean removal for up to 7 days after application
- Resists paint bleed-through
- Blue colour for easy identification
- Length: 55 meters (60 yds)



THR 2090-18MMx55M	3/4"
THR 2090-24MMx55M	1"
THR 2090-36MMx55M	1-1/2"
THR 2090-48MMx55M	2"

3M Outdoor Masking and Stucco Tape

- High shear adhesive for reliable holding of polyethylene sheeting
- UV resistant backing does not fade or break down outdoors for up to 90 days
- High tensile backing for pulling through tough coatings



- Aggressive rubber adhesive grabs and adheres well to many surfaces
- Roll sides are not tacky so the roll stays cleaner on the job site
- Abrasion resistant backing keeps surface from being marred

THR 5959-1.88X45 48 x 41.1 mm

3M Soft Edge Masking Tape

- The fast, easy way to mask door jambs and other apertures
- Unique adhesive allows material to be repositioned



THR 09678	13mm x 11mm x 5m x 10 rows
THR 09973	19mm x 11mm x 5m x 7 rows

► *Also See* Duct Tape pg 06-013

Festool Work Centre

- Flexible, portable, and convenient way to organize your workspace
- Connects without tools to Festool mobile dust extractor
- Adjustable height columns (21.47" to 30.9"), grooved columns, and metal pegboard



FES 29921 ** 14.25" wide

** While Stock Lasts

Festool Sortainer

- Three configurable large (6.7 L) drawers for convenient storage and transport
- Drawers lock in place
- H: 12.68" x W: 11.65"



FES 29964 **

** While Stock Lasts

Festool RO 150 FEQ+ Geared Eccentric Sander

- For coarse and fine sanding and polishing
- Versatile dual-mode operation; no need to switch tools for rotary and random orbital sanding
- FastFix system allows for quick pad changes without tool
- Nearly 1 HP, 720W motor
- 320-660 RPM rotary speed; 3300-6800 RPM eccentric speed
- 3/16" (5mm) stroke
- 6" (150mm) pads
- 5.1 lbs



FES 29941 **

** While Stock Lasts

Festool LEX 3 77/2.5 Compressed Air Eccentric Sander

- Extremely sturdy design for long service life and minimal servicing
- Motor delivers up to 10,500 RPM at 87 PSI
- Balanced body reduces vibration
- Trigger and speed control dial within easy reach at all times
- Sanding pad brake controls pad revolution during no-load states, and allows set down more quickly after use
- Air consumption at rated load: 270 l/min
- 3/32" (2.5mm) stroke
- 3" (76mm) pads
- 1.54 lbs
- IAS 3 connection system is required



FES 29949 **

** While Stock Lasts

Festool LEX 2 185/7 Compressed Air Eccentric Sander

- Lightweight, compact, and durable sander quickly and efficiently sands large, flat surfaces
- Uses a large 7-1/4" sanding pad
- Motor delivers 16,000 RPM, with an eccentric motion speed of 8,000 RPM
- Accepts hook and loop
- 9/32" (7mm) stroke
- 7.28" (185mm) pads
- 3.5 lbs
- IAS 2/IAS 3 connection system is required



FES 30001 **

** While Stock Lasts

Festool LEX 3 150 Compressed Air Eccentric Sanders



- Extremely sturdy design for long service life and minimal servicing
- Motor delivers up to 10,000 RPM at 87 PSI
- Balanced body reduces vibration
- On/Off button and speed control wheel within easy reach at all times
- Jetstream technology distributes dust to edges of the pads, extending abrasive life
- Pads feature hook and loop system for rapid, tool-free change
- Sanding pad brake controls pad revolution during no-load states, and allows set down more quickly after use
- Consumption at rated load: 290 l/min (150/5) ; 310 l/min (150/7)
- 6" (150mm) pads
- 2.2 lbs
- IAS 3 connection system is required

FES 29951 ** 150/5, 3/16" (5mm) stroke
FES 29952 ** 150/7, 9/32" (7mm) stroke
** While Stock Lasts

Festool LRS 93 Compressed Air Orbital Sander



- Designed specifically for sanding flat surfaces
- For coarse sanding and paint removal
- Variable speed
- Vibration stop balancing for reduced operator fatigue
- Trigger and speed control dial within easy reach at all times
- Accepts hook and loop
- 5/32" (4mm) stroke
- 3.7" x 6.9" (93 x 175mm) pads
- 3 lbs
- IAS 3 connection system is required

FES 29958 **
** While Stock Lasts

Festool LRS 400 Compressed Air Orbital Sander



- Lightweight despite long design, with softgrip handle
- Motor delivers up to 7,000 RPM at 87 PSI
- Vibration stop balancing for reduced operator fatigue
- Trigger and speed control dial within easy reach at all times
- Accepts hook and loop
- 5/32" (4mm) stroke
- 3" x 15.7" (80 x 400mm) pads
- 5.1 lbs
- IAS 3 connection system is required

FES 29953 **
** While Stock Lasts

Festool Accessories



29889



29916

FES 29889 ** CT suction hose Plug-It, 22mm x 5m
FES 29890 ** CT suction hose Plug-It, 22mm x 10m
FES 30006 ** Suction hose, 5m
FES 29916 ** IAS 3-Light 5000 hose, 5m
FES 29924 ** IAS 3-Light 7000 hose, 7m
FES 30005 ** IAS 3-Light 10000 hose, 10m
FES 29892 ** Y-connector, anti-static
FES 29920 ** IAS double adapter
FES 30067 ** Soft sanding pad, 6" for Rotex
FES 29901 ** Compressed air module for pneumatic tools
** While Stock Lasts

NEW



Mirka DEROS 6" ACE Dust Extractor Kit

Kit provides a dust-free mobile solution built on a rolling dust extractor.

- Includes DE-1230-PC Push & Clean Dust Extractor, MID65020CAUS DEROS 6" 5.0mm Random Orbital Sander with plastic storage container, DE-TCFS Tool Case Fastening System, 3 boxes of Abranet Ace mesh abrasive discs (80, 120, and 180 grit), and 1" dia. vacuum hose (4 m length) and adapter/ connector

MIR MCA-RIDEROSACE-6
Accessories:
MIR DE-FDB Fleece Dust Bag, 5/pk

Mirka DEROS 6" Random Orbital Sander

NEW



- Suitable for touch materials ranging from wood and solid surfaces to concrete
- Long-life brushless motor with adjustable speed between 750 rpm and 2500 rpm
- Selectable slow start function
- Lightweight, low profile design for manoeuvrability, easy speed control, and safe handling with lever, on/off switch, and LED speed indicator
- Low noise level
- Bluetooth connectivity for vibration level monitoring using the myMirka app

MIR MRS6001100US

Abrasive Refurbishing Application Chart

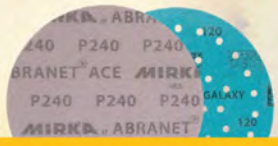
Refurbishing	Application	Grades
Varnish	▪ Stripping old varnish ▪ Between coats ▪ Before final coat ▪ On final coat	60, 80 or 100 220 or 230 600 1200
Bottom Paint	▪ Stripping old paint ▪ Light sanding ▪ Between coats	24,36 or 40 60, 80 or 100 80, 100 or 120
Gelcoat	▪ Stripping old gelcoat ▪ Heavy sanding ▪ Intermediate sanding ▪ Finish sanding	24,36 or 40 60. 80, 100 or 120 220 or 320 600 or 800
Faring Compound	▪ Heavy sanding ▪ Intermediate sanding ▪ Finish sanding	24,36 or 40 60. 80 or 100 120, 150, 180 or 220
Epoxy	▪ Heavy sanding ▪ Intermediate sanding	60, 80, 100 or 120 180 or 220
Top Side Paint	▪ Stripping old paint ▪ Intermediate sanding ▪ Sanding prior to paint	36, 40 or 60 80 , 100, 120 or 150 150, 180 or 220
Primer	▪ Between coats	150, 180 or 220
Painted Wood	▪ Stripping old finish ▪ Intermediate sanding ▪ Finish sanding	36 or 40 60. 80 or 100 120, 150 or 180
Metal	▪ Stripping old finish ▪ Rust removal	36 or 40 40, 60. 80 or 100

MIRKA

Powering Canada's Marine Industry



Polishing Compounds & Accessories



Abrasives



Power Tools & Dust Extraction

Dust-free sanding and polishing systems that give you:
Long-lasting performance on fiberglass, gelcoat, aluminum & steel
Efficient material removal with reduced operator fatigue
High-gloss, swirl-free marine finish

Reliable results, from hull to deck.

www.mirka.com

Mirka Gold PSA Discs

NEW

- Durable sanding material well suited for high speed sanding in a multitude of applications
- Semi-open and special stearate coating prevents clogging and pill forming
- With liner
- 50/pk

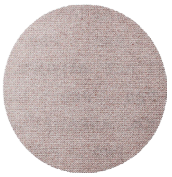


MIR 23-341-036	P36, 6"
MIR 23-341-040	P40, 6"

Mirka Abranet Ace Abrasive Discs

NEW

- Optimized net construction and ceramic grains offer superior cut and performance for hardwoods, and fast cutting on various solid suface materials
- Excellent for primer sanding applications
- 50/pk

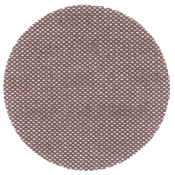


MIR AC-232-080	P80, 5"
MIR AC-232-120	P120, 5"
MIR AC-232-180	P180, 5"
MIR AC-232-220	P220, 5"
MIR AC-232-320	P320, 5"
MIR AC-241-080	P80, 6"
MIR AC-241-120	P120, 6"
MIR AC-241-180	P180, 6"
MIR AC-241-220	P220, 6"
MIR AC-241-320	P320, 6"
MIR AC-241-400	P400, 6"

Mirka Abranet Ace HD Abrasive Discs

NEW

- Durable and tough with ceramic grains
- Strong net structure resists high wear and tear, and improved woven mesh backing increases lifetime of the abrasive
- Ideal for heavy duty applications
- 25/pk





MIR AH-232-040	P40, 5"
MIR AH-232-080	P80, 5"
MIR AH-232-120	P120, 5"
MIR AH-241-040	P40, 6"
MIR AH-241-060	P60, 6"
MIR AH-241-080	P80, 6"
MIR AH-241-120	P120, 6"
MIR AH-570-040	P40, Roll (2-3/4" x 33')
MIR AH-570-080	P80, Roll (2-3/4" x 33')

Mirka Galaxy PSA LRL Abrasive Rolls

NEW

- Self-sharpening ceramic grains provide a fast cut and a long life, with superb edge wear resistance
- Dust repelling coating for clog resistance and dust extraction
- With liner
- 100/roll

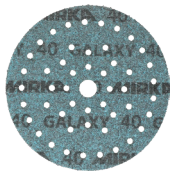


MIR FY-6PF-080	80, 6"
MIR FY-6PF-100	100, 6"
MIR FY-6PF-120	120, 6"
MIR FY-6PF-150	150, 6"
MIR FY-6PF-180	180, 6"
MIR FY-6PF-220	220, 6"
MIR FY-6PF-240	240, 6"
MIR FY-6PF-320	320, 6"
MIR FY-6PF-400	400, 6"

Mirka Galaxy Multifit Abrasive Discs

NEW

- Self-sharpening and non-clogging to keep cutting from edge to edge
- Multifit universal hole configuration allows fit on any tool without alignment
- Multipurpose product suitable for sanding of both soft and hard materials
- 50/pk



MIR FY-5MF-040	40, 5"
MIR FY-5MF-060	60, 5"
MIR FY-5MF-080	80, 5"
MIR FY-5MF-120	120, 5"
MIR FY-5MF-150	150, 5"
MIR FY-5MF-180	180, 5"
MIR FY-5MF-220	220, 5"
MIR FY-5MF-320	320, 5"
MIR FY-5MF-400	400, 5"
MIR FY-5MF-1000	1000, 5"
MIR FY-5MF-1500	1500, 5"
MIR FY-6MF-040	40, 6"
MIR FY-6MF-060	60, 6"
MIR FY-6MF-080	80, 6"
MIR FY-6MF-120	120, 6"
MIR FY-6MF-150	150, 6"
MIR FY-6MF-180	180, 6"
MIR FY-6MF-220	220, 6"
MIR FY-6MF-320	320, 6"
MIR FY-6MF-400	400, 6"
MIR FY-6MF-1000	1000, 6"
MIR FY-6MF-1500	1500, 6"

Mirka WPF Pro Abrasive Sheets

- High quality waterproof abrasive with a lasting aggressive cut
- Curl resistant and non-absorbent
- Minimal suction to the surface gives a smooth sanding movement
- Suitable for manual wet sanding of paints, primers, laquer, metal, and composite materials
- 9" x 11"
- 50/pk

NEW



MIR 21-101-P080	P80
MIR 21-101-P100	P100
MIR 21-101-P120	P120
MIR 21-101-P180	P180
MIR 21-101-P220	P220
MIR 21-101-P320	P320
MIR 21-101-P400	P400
MIR 21-101-P600	P600
MIR 21-101-P800	P800

3M Dry Guide Coat & Applicator Kit

- Identifies surface imperfections and sand scratches prior to finishing
- Requires no masking
- No dry time
- Contains no solvents
- Includes applicator pad



THR 05861

3M Imperial Wet-or-Dry Fabricut Cloth

- A waterproof open coat mesh cloth
- Permits easy cleaning of sanding residue for improved cutting efficiency
- Used to the best advantage where filling or loading is a problem
- 9" x 11"
- 25/pkg, sold each



Also Used For Cleaning Cast Stove Tops

THR 483W	180 grit

3M 401Q Imperial Wet-or-Dry Colour Sanding Paper

- Designed for light sanding prior to compounding
- The size of the sheets eliminates the need for tearing
- 5-1/2" x 9"
- 50/pkg, sold each

Part #	Grade	Description
THR 02045	2500	Microfine
THR 02044	2000	Microfine
THR 02023	1500	Microfine
THR 02022	1200	Microfine
THR 02021	1000	Ultrafine



3M 213Q Imperial Wet-or-Dry Paper Sheets

- Use wet or dry for sanding
- Silicon carbide, closed coat with a waperproof resin
- Highly resistant to loading
- 9" x 11" sheets
- 50/pkg, sold each



THR 02035	800A
THR 02036	600A
THR 02038	400A
THR 02040	320A
THR 02043	220A

3M Green Corps Fibre Grinding Discs

- An all purpose grinding disc for any kind of metal or fibreglass grinding
- High performance green grinding discs are long lasting and fast cutting
- Sold each



Part #	Dimensions	Grade
THR 36507	5" x 7/8" hole	40

3M Hookit Green Corps Regalite D/F Discs

- Pre-punched with a standard hole pattern
- For dust free sanding and are designed to be used with a Hookit D/F low profile backup pad # 05865
- 25/pkg, sold each



THR 00615	40E, 6"
THR 00612 **	80E, 6"
THR 00524	40E, 8"
THR 00521 **	80E, 8"

** While Stock Lasts

3M 750U/751U Hookit Regalite Sheets

- Hook and loop attachment system for easy placement on and removal from the tool face
- Mineral coating bonded to a "E" weight backing
- Designed to last long and cut fast
- Use by hand or with a machine
- 2-3/4" x 16-1/2"
- 50/pkg, sold each



THR 00542	40E
THR 00539	80E

3M Production Resinite Fre-Cut Gold Paper Sheets

- Utilize a premium, aluminum oxide mineral, an improved paper backing, and a total construction
- Improved rate of cut, increased flexibility, increased abrasive life and a uniform finish
- 9" x 11" sheets
- 50/pkg, sold each



THR 02549 **	80A
THR 02548 **	100A
THR 02547 **	120A
THR 02546	150A
THR 02545 **	180A
THR 02544 **	220A
THR 02541	320A

** While Stock Lasts

3M Gold Abrasive Sheets

NEW

- Loading resistant coating helps reduce premature clogging to extend product life
- Fast, consistently sharp cut
- 9" x 11" sheets
- 50/pkg, sold by each



THR 12549	P80
THR 12547	P120
THR 12546	P150
THR 12545	P180
THR 12544	P220
THR 12541	P320

3M Production Paper Sheets

- Dry sanding only
- Machine or hand use on fibreglass, wood, or metal
- Open coat with tough aluminum oxide mineral
- 9" x 11"
- Sold by each



THR 02118	40D, 250/pkg
THR 02115	80D, 50/pkg

3M Hookit Gold Abrasive Discs

NEW

- Easy and reusable hook-and-loop system
- Loading resistant coating helps reduce premature clogging to extend product life
- Fast, consistently sharp cut
- 50/pkg, sold by each



THR 09210	80D, 3"
THR 09211	120D, 3"
THR 09260	600D, 6"
THR 09261	800D, 6"

3M Hookit Blue Abrasive Discs

- Best-in-class performance with the right balance of ceramic grain and aluminum oxide
- Anti-loading coating helps improve disc life by preventing dust and debris from clogging the surface
- Multi-hole pattern delivers excellent dust extraction and reduces loading
- Upgraded resins improve durability and finish
- 3M Hookit attachment makes changing discs fast and easy
- 50/pkg, sold each



THR 36157	80E, 5"
THR 36159	120E, 5"
THR 36160	150E. 5"
THR 36161	180E, 5"
THR 36165	320E, 5"
THR 36170	40E, 6"
THR 36172	80E, 6"
THR 36174	120E, 6"
THR 36175	150E, 6"
THR 36176	180E, 6"
THR 36177	220E, 6"
THR 36178	240E, 6"
THR 36180	320E, 6"
THR 36181	400E, 6"

3M Hookit Blue Abrasive Sheet Rolls

- Best-in-class performance with the right balance of ceramic grain and aluminum oxide
- Anti-loading coating helps improve disc life by preventing dust and debris from clogging the surface
- Multi-hole pattern delivers excellent dust extraction and reduces loading
- Upgraded resins improve durability and finish
- 2.75" x 13 yards



THR 36187	80E
THR 36189	120E
THR 36190	150E
THR 36191	180E
THR 36193	240E
THR 36195	320E
THR 36196	400E

3M Hookit Trizact Foam Discs



- Diameter: 6"
- 15/pkg, sold each

- Spot repair system for removing sand scratches
- Refining P1200-P1500 grade sand scratches during paint finishing process

THR 02085	3000



- Used to remove P3000 fine grade scratches
- They can can reduce or eliminate the need for compounding in specific situations
- These discs also can eliminate the need for using wool compounding pads

THR 30662	5000

3M Hookit Trizact Clear Discs

- Use with 3M Hookit disc pad 05551 and 3M Hookit Soft Interface pad 05777
- Best used damp to level minor dust nibs and for light sanding of mismatched orange peel on paints
- Clear coat sanding disc
- Grade range: P500-P3000 +5000
- Can be used with random orbital sanders
- Diameter: 6"
- 25/pkg, sold each



THR 02088	P1500

3M Cubitron II Roloc Fibre Discs



- Precision-shaped grain maintains super-sharp points that cut exceptionally fast
- Long disc life
- Grain wears evenly, runs cool, and optimizes mineral breakdown
- Fibre backing
- 15 discs per package, sold by each
- Diameter: 3"

THR 33392	80 grit
THR 33389	36 grit

3M Hookit Cubitron II Clean Sanding Abrasive Rolls



- For maximum dust removal, hundreds of small holes have been purposely arranged in a chevron formation
- The triangular-shaped ceramic grains of Cubitron II are electrostatically oriented to form sharp peaks, each acting like an individual cutting tool that slices through paint and body filler, wearing evenly, and providing long life

THR 34440	P40, 2.75" x 8.75 yards
THR 34442	P80, 2.75" x 13.12 yards
THR 34444 *	P120, 2.75" x 13.12 yards
THR 34445	P150, 2.75" x 13.12 yards
THR 34446	P180, 2.75" x 13.12 yards
THR 34447	P220, 2.75" x 13.12 yards
THR 34460	P40, 4.5" x 8.75 yards
THR 34462	P80, 4.5" x 13.12 yards
THR 34464	P120, 4.5" x 13.12 yards
THR 34465	P150, 4.5" x 13.12 yards
THR 34466	P180, 4.5" x 13.12 yards
THR 34467	P220, 4.5" x 13.12 yards

* Special Order - may have stock

3M Hookit Cubitron II Clean Sanding Abrasive Discs

Use for fine featheredging, last final sanding step before priming, or prepping before blending. They feature triangular shaped ceramic mineral that:

- Cuts 30% faster than premium abrasives
- Lasts up to twice as long
- Delivers a finer, more uniform finish
- 50/pkg, sold each



THR 31366	80, 5"
THR 31367	120, 5"
THR 31368	150, 5"
THR 31369	180, 5"
THR 31471	220, 5"
THR 31370	40, 6"
THR 31371	80, 6"
THR 31372	120, 6"
THR 31373	150, 6"
THR 31374	180, 6"
THR 31481	220, 6"
THR 31483	320, 6"

3M Cubitron II Abrasive Fibre Discs



- Precision-shaped grain maintains super-sharp points that cut exceptionally fast
- Long disc life
- Grain wears evenly, runs cool, and optimizes mineral breakdown
- C weight backing
- 5 discs per package, sold by each
- Diameter: 7" x 7/8"

THR 33425	36
THR 33427	60
THR 33428	80

3M Cubitron II Abrasives



- Precision Shaped Grain technology helps provide fast cut and long life
- Mesh backing helps with dust extraction allowing 95% to 97% removal of sanding dust
- Helps provide a cleaner work environment than using traditional discs with dust extraction holes
- Hook-and-loop backing helps make disc changes quick and easy
- Ideal for a wide variety of substrates and applications including stock removal and fine finishing

THR 31665	5” Disc, 50/roll - P80
THR 31666	5” Disc, 50/roll - P120
THR 31668	5” Disc, 50/roll - P180
THR 31671	5” Disc, 50/roll - P320
THR 31650	6” Disc, 50/roll - P80
THR 31651	6” Disc, 50/roll - P120
THR 31653	6” Disc, 50/roll - P180
THR 31656	6” Disc, 50/roll - P320



THR 34561	Roll (2-3/4” x 33’) 70 mm x 10 m - P80
THR 34562	Roll (2-3/4” x 33’) 70 mm x 10 m - P120
THR 34564	Roll (2-3/4” x 33’) 70 mm x 10 m - P180
THR 34567 **	Roll (2-3/4” x 33’) 70 mm x 10 m - P320

** While Stock Lasts

3M 246U/251U Stikit Green Corps Production Resin Bond Sheets

- Pressure-sensitive adhesive backing for easy application to and removal from tool face
- Mineral coating provides for fast cutting abrasive life
- 80D has Fre-Cut coating
- 2-3/4" x 16-1/2"
- 100/pkg, sold each



THR 02231	40E
THR 02230 **	80D

** While Stock Lasts

3M Stikit Green Corps Production Resin Bond Discs

- Pressure sensitive adhesive backed discs, for easy application to and removal from disc pad
- Mineral/bond construction and tough "E" weight
- Excellent for coarse sanding of hulls and deck areas
- Individually lined
- 50/pkg (100/pkg for 01547), sold by each



Part #	Dia.	Grade
THR 01547	6"	40D
THR 01549 **	8"	80D
THR 01550 **	8"	40E

** While Stock Lasts

3M Stikit Gold Sheet

NEW

- Pressure-sensitive adhesive allows for easy sheet attachment
- Loading resistant coating for long disc life
- Fast, consistently sharp cut
- 2-3/4" x 16-1/2"
- 25/pkg, sold by each



THR 02798 80D

3M Stikit Gold Disc

NEW

- Pressure sensitive adhesive backed discs, for easy disc attachment
- Loading resistant coating for long disc life
- Fast, consistently sharp cut
- 100/pkg, sold by each



THR 09357 8", 80D

3M 216U/236U Stikit Gold Disc Rolls

- Paper discs are aggressive, sharp, fast cutting and long lasting
- Resists dulling, loading and edge wear
- Pressure sensitive adhesive coating ensures excellent adhesion to Stikit disc pads without adhesive buildup

Part #	Dia.	Grade	Discs/Roll
THR 55560	6"	P80A	100
THR 55561	6"	P100A	100
THR 55562	6"	P120A	100
THR 55563	6"	P150A	100
THR 55564	6"	P180A	100
THR 55565	6"	P220A	100
THR 55567	6"	P320A	100
THR 55568	6"	P400A	100
THR 55569	6"	P500A	100



3M 236U Stikit Gold C Weight Disc Roll



- Strong "C" weight backing provides excellent support for a tough and durable aluminum oxide mineral
- Discs are aggressive, sharp, fast cutting and long lasting
- Nonstaining Fre-Cut resists loading and the pressure-sensitive adhesive ensures excellent adhesion
- Excellent for gelcoat, wood and plastic applications
- Diameter: 6"
- 100/pkg

THR 55566 240C

3M 216U Stikit Gold Sheet Rolls

- Coated aluminum oxide abrasive rolls
- Bonded with resin and a pressure sensitive adhesive backing
- Quick adhesion to and easy removal from 3M Stikit Blocks
- Cut to desired lengths for file shoes and sanding blocks

Part #	Width	Grade	Yards
THR 02599 **	2-3/4"	P80	25
THR 02598 **	2-3/4"	P100	30
THR 02597 **	2-3/4"	P120	30
THR 02596 **	2-3/4"	P150	45
THR 02595 **	2-3/4"	P180	45
THR 02594 **	2-3/4"	P220	45
THR 02591 **	2-3/4"	P320	45
THR 02590 **	2-3/4"	P400	45



** While Stock Lasts

3M 260L Stikit Gold Finishing Film Disc Rolls

- Designed for use in scuff sanding before painting
- Also used to remove runs, dust nibs, and orange peel from gel coat prior to compounding
- Aluminium oxide mineral that is bonded to a smooth film backing
- Diameter: 6"
- 100/pkg, sold each



THR 01318 P1200
THR 01319 P1000
THR 01321 P600

3M Stikit Blue Sheet

NEW



- Pressure-sensitive adhesive allows for easy sheet attachment
- Excellent cut rate and performance
- E-weight paper backing is highly durable and withstands wear, pressure, and damage
- 125/pkg, sold by each

THR 37211 2-3/4" x 16-1/2", 40E

3M Stikit Blue Discs

NEW



- Pressure sensitive adhesive backed discs, for easy disc attachment
- Excellent cut rate and performance
- E weight paper backing is highly durable and withstands wear, pressure, and damage
- 50/pkg, sold by each

THR 36561 6", 40E
THR 36581 8", 40E

► Also See Backing Pads pg 07-046

3M Stikit Blue Abrasive Disc Rolls

- Best-in-class performance with the right balance of ceramic grain and aluminum oxide
- Anti-loading coating helps improve disc life by preventing dust and debris from clogging the surface
- Upgraded resins improve durability and finish
- Adhesive-backed discs are easy to attach and remove
- 6" diameter
- Sold per roll



THR 36200 40E, 25/roll
THR 36202 80E, 50/roll
THR 36204 120E, 100/roll
THR 36205 150E, 100/roll
THR 36206 180E, 100/roll
THR 36207 220E, 100/roll
THR 36210 320E, 100/roll
THR 36211 400E, 100/roll

3M Stikit Blue Abrasive Sheet Rolls

- Best-in-class performance with the right balance of ceramic grain and aluminum oxide
- Anti-loading coating helps improve disc life by preventing dust and debris from clogging the surface
- Upgraded resins improve durability and finish
- Adhesive-backed discs are easy to attach and remove
- W: 2-3/4"



THR 36215 40E, 10 yards
THR 36217 80E, 20 yards
THR 36219 120E, 30 yards
THR 36220 150E, 30 yards
THR 36221 180E, 30 yards
THR 36222 220E, 30 yards
THR 36223 240E, 30 yards
THR 36225 320E, 45 yards
THR 36226 400E, 45 yards

3M Scotch-Brite Discs

- Max. grinder speed 10,000 RPM
- Use for removing paint & corrosion, blending scratches, grind-line conditioning, gasket removal, final finishing, de-burring and cleaning welds
- 5" diameter
- 50/pkg, sold each



THR SB00750 Coarse, Brown
THR SB27675 Medium, Maroon
THR SB69421 Very Fine, Grey

Accessories:
THR 05680SB Backing disc

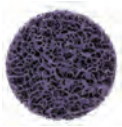
3M Scotch-Brite Clean & Finish Disc



- Soft talc abrasive mineral and non-woven web
- Ideal for cleaning, blending, finishing, and light coating and corrosion removal
- Flexibility makes it effective for getting into hard-to-reach areas
- 10/pkg, sold each

THR 77225 6"

3M Scotch-Brite Roloc Clean and Strip XT Pro Disc



- Quickly removes rust, paint, mill scale, and coatings from metal
- High-strength fiber resists chunking and performs well on edges
- High conformability provides a larger contact patch for faster removal rates
- Silicon carbide mineral cuts aggressively and leaves a fine finish
- Low vibration, low spark, high speed rating, and long life
- 3" diameter

THR SB21541 Extra coarse, Purple

BoatLIFE Scrub-All



- Heavy duty scrubber is made of one strand of 300 series stainless steel
- It won't rust or splinter
- Ideal as a bottom cleaning tool

BOA 1029

Mirka Mirlon Total Scuff Pads

NEW

- Suitable for wet and dry modes, featuring an open and flexible structure and strengthened fibres for strength and durability
- More aggressive than Mirlon, and produces a dense scratch pattern in less time
- 4-1/2" x 9"
- 25/pk



MIR 18-118-446 Black, Extra fine
MIR 18-118-447 Red, Very fine
MIR 18-118-448 Grey, Ultra fine
MIR 18-118-449 Beige, Micro fine

3M Softback Sanding Sponges



- Flexible, long-lasting sanding sponges
- Ideal for sanding hard to reach areas
- May be used wet or dry
- 4-1/2" x 5-1/2"
- 20/pkg, sold each

THR 02604 Fine
THR 02606 Medium

3M Scotch-Brite Pads



- For light scouring, including rust removal
- Open web construction makes pads easily cleaned for repeated work

THR 07445 6" x 9", White, Light duty

- For scuffing before applying paint and paint primers
- Can be rinsed and used over and over again

THR 07447 6" x 9", Maroon, General purpose

- For tough cleaning jobs or fine finishing
- Similar to steel wool grade 1
- Ultra flexible for use on flat, irregular, or contoured surfaces

THR SB64659 4-1/2" x 9", Maroon, Very fine

- Used to finish sand scratches after using Wet-or-Dry abrasive in the 360A grit range
- Reusable

THR 07448 6" x 9", Grey, Ultra fine

Western Pacific Trading Stainless Steel Pad



- Heavy duty wound S/S pad
- Packaged 1 per bag

WPT 35050

Western Pacific Trading Stainless Steel Wool



- Stainless steel wool
- Packaged 3 per bag

WPT 35015 Fine
WPT 35020 Medium

Western Pacific Trading Bronze Wool



- Quality bronze wool in 3 grades
- Packaged 3 per bag

WPT 35000 Fine
WPT 35005 Medium
WPT 35010 Coarse

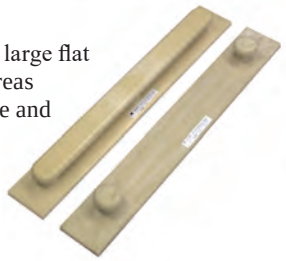
Shurhold Bronze Wool



- Blended pad is made from a high grade bronze metallic wool
- Similar to a steel wool but ultra fine and rust resistant

SHU 281 3/pkg

3M Hookit Fairing Boards



- Designed for fairing, shaping, sanding and finishing boats, plugs and molds
- Lightweight construction
- Rigid fairing board can be used for large flat areas such as freeboard and deck areas
- Flexible fairing board is for concave and convex curved areas such as hulls
- Use 4-1/2" x 30" 3M Hookit abrasive sheets

THR 83497 Rigid
THR 83978 Flexible

3M Stikit Hand Block



- Durable, high strength material
- Shaped to fit hands comfortably
- Embossed rubber face which allows good adhesion for Stikit Sheet Rolls
- 2-3/4" x 7-3/4"

THR 05441

3M Stikit Soft Hand Block



- Tough flexible foam
- Sand on a flat surface or on contours
- Stikit sheets adhere firmly to its vinyl face and won't slip or tear
- 2-3/4" x 5"

THR 05442

3M Dust Free Sanding Block



- Dust free block used for sanding applications
- Boosts the efficiency of sanding by hand
- Blocks are designed to limit hand fatigue
- 3M Hookit attachment system makes it easy to change abrasives

THR 05207 2-3/4" x 5"

3M Filter Bag



- Enhances the performance of 3M Clean Sanding Discs
- Filter is HEPA Rated
- Achieves superior dust collection when used with 3M Random Orbital Sanders with Self-Generated Vacuum

THR 20452 **

** While Stock Lasts

Mirka Multi-Hole Backup Pads

NEW



915GV



915SGV28



916GV48

- Ideal for sanding contoured areas, especially to soften edges
- Increased airflow for dust extraction
- 5/16" screw

MIR 915GV	Medium, 5"
MIR 915SGV28	Soft, 5"
MIR 916GV48	Medium, 6"

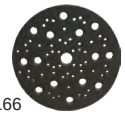
Mirka Multi-Hole Interface Pads

NEW

- For sanding round surfaces and contours in combination with grip NET sanding abrasives, will produce a softer result
- 5/pk



9155



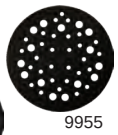
9166

MIR 9155	3/8" thick, 5"
MIR 9155-5	1/4" thick, 5"
MIR 9166	3/8" thick, 6"
MIR 9166-5	1/4" thick, 6"

Mirka Pad Savers

NEW

- Protect backing pad from wear and tear when sanding aggressively and continuously with net products, prolonging life of the backing pad
- 5/pk



9955



9956-MF

MIR 9955	1/8" thick, 5"
MIR 9956	1/8" thick, 6"
MIR 9956-MF	Multifit, 6"

Mirka Locking Disc Holders

NEW



- Locking disc holder allows for quick change of mini grinding, surface conditioning, stripping, and flap discs
- R-type screw attachment
- 1/4" shank for attaching to tool
- Medium density precision cast rubber backing

MIR 65-002	2"
MIR 65-003	3"

3M Hookit Clean Sanding Dust Free Disc 6" Pad



- For 6" 3M Dust Free discs with Hook-it
- Designed for use with 6 hole, 7 hole, or other hole configuration dust free discs
- 1/2 inch firm density foam
- 15 degree tapered edge
- Max RPM: 12000
- Thread Size: 5/16-24 ext

THR 05865 ** 6", each

** While Stock Lasts

3M Hookit Clean Sanding Dust Free 3" Pad Kit



Contains a dust extraction Hookit back up pad, constructed on foam. The backup pad has a 5/16-24 INT thread, with five adapters for converting to: 1/4-20 external threads, 1/4-20 INT, 1/4-28 EXT, 5/16-24 EXT, or 6mm-1.0 EXT threads.

THR 20427

3M Hookit Clean Sanding 6" Pad

NEW



- Universal attachment to 3M, Festool, and most other brand dual-action sanders
- Firm but flexible core helps pad conform to gentle contours while sanding

THR 30062 6", each

3M Hookit Disc 6" Pad



- Used with 6" Hookit discs
- Light weight & shock resistant
- Plastic hub and foam body
- 12,000 max. RPM

THR 05776 6", each

3M Hookit Soft Interface 6" Pad



- Designed for 3M Hookit abrasives
- Improves abrasive cut and finish
- Reduces vibration on dual action random orbital sanders

THR 05777 6", each

3M Stikit Low Profile Finishing Disc 6" Pad



- Use on random orbital sanders only
- Soft foam for fine finish sanding
- Conforms to contours and curves
- 5/16" threaded shank
- Max RPM: 10000
- Thread Size: 5/16-24 ext

THR 05546 6", each

3M Stikit Disc 8" Pad



- Vinyl pad face for good adhesion of discs
- Edges are contoured to allow for sanding curves and close to moldings
- Fits all standard 5/8" shafts
- 3,000 max. RPM

THR 05579 8", each

Western Pacific Trading Spray Sock



- Quality stretch spray head sock

WPT 40040

Western Pacific Trading Boot Covers



- Elastic top cuff
- Heavy duty Tuff soles

WPT 40035 2/pkg

FBS Protective Coveralls

- Rip-stop anti-static nylon is micro coated to provide a barrier against spray and dust
- Mesh vents for comfort and breathability
- Covered zipper, gusseted cuff and sleeve with elastic, velcro fasteners, and large front and back pocket



FBS 60301	Medium
FBS 60302	Large
FBS 60303	X-Large
FBS 60304	XX-Large
FBS 60305	XXX-Large

Krytek Chemguard Red Label Coveralls

- Protects against oils, thinners, isocyanides, primers, sodium hydroxide & malathion, as well as most liquids & particulates
- Elasticized hoods, wrists, ankles, and waist, 2 pockets (breast and hip), heavy duty zipper with zipper guard and reinforced surged seams



KRY CHEM-MEDIUM
KRY CHEM-LARGE
KRY CHEM-XLARGE
KRY CHEM-XXLARGE
KRY CHEM-XXXLARGE

KRY BOOTIES	Pair
KRY WM49	Spray hood w/clear eye shield

Krytek Koolguard Blue Label Coveralls

- Breathable material for a high air flow
- Protection against particulates 3-5 micron size
- Excellent for sanding and fibreglass jobs
- Elasticized hoods, wrists, ankles, and waist, 2 pockets (breast and hip), heavy duty zipper with zipper guard and reinforced surged seams



KRY KOOL-LARGE
KRY KOOL-XLARGE
KRY KOOL-XXLARGE
KRY KOOL-XXXLARGE

Wesmar Safety Glasses

- 9-base, wrap-around, clear scratch -resistant lens in polycarbonate frame
- Soft elastomer browguard, soft flexible fingers on nose piece, and adjustable temple length for all-day comfort
- Hydrophilic and hydrophobic lens coating, ventilation channel between frame and lens
- Meets ANSI Z87.1 (high impact) rating



WES S3200HS

Wesmar Safety Glasses

Polycarbonate safety glasses with light mirror finish to reduce glare.



WES S2580S

3M Peltor X Series Earmuffs



- Designed for comfort and excellent noise reduction of 27 dB for moderate to high noise
- Low-profile, over the head cup design
- Twin headband design helps reduce heat buildup with good fit and balance
- Earcups tilt to ensure a customized fit and comfort
- Electrically insulated (dielectric) wire headband

THR X4A-EARMUFFS

3M Ear Plugs

- Tapered shape and soft foam seal the ear and fit comfortably
- Hypo-allergenic material with smooth, dirt resistant surface for hygiene
- Bright orange colour for visibility
- NRR 29dB
- Sold by the pair, full pack is 200 pairs



THR 1100

Disposable Gloves

- Sold by the box



- Latex, White, No powder, 100/box (50 pr)

GLV LATEX-L-BOX	Long

- Nitrile, Textured, Black, 100/box (50 pr)

GLV NITRILE-BLK-M-BOX	Medium
GLV NITRILE-BLK-L-BOX	Large
GLV NITRILE-BLK-XL-BOX	Extra Large

- Nitrile, 100/box (50 pr)

GLV 11341B	Extra Large, Black

Industrial Orange Rubber Gloves

- Multipurpose heavyweight glove
- Provides finger sensitivity and dexterity for jobs that also require heavyweight protection against abrasion and chemicals
- Roughened hand surface pattern for grip
- Natural rubber is tougher, more tear resistant and more stretchable than any other material
- Orange in colour



GLV 450M	Medium
GLV 450L	Large
GLV 450XL	Extra large

Industrial Black Rubber Gloves

- Combination of sensitivity, flexibility and abrasion-resistance which makes it uniquely suitable for heavy-duty use
- Anti-slip palm pattern to ensure positive grip
- 100% natural rubber latex provides maximum durability, tear resistance and stretchability
- Black in colour



GLV 459M	Medium
GLV 459L	Large
GLV 459XL	Extra large
GLV 459XXL	Extra extra large

3M Disposable Respirators



- Solid particulates and liquid mists in concentrations not exceeding 10X PEL/OEL
- NIOSH-approved N95 rating
- Adjustable nose clip with comfort nose foam
- 3-panel, flat-fold style with stapled headbands

THR 9205 ** Individually packed
** While Stock Lasts



- NIOSH/MSHA approved for lung-damaging dusts and toxic mists
- Two headbands and a soft nose piece cushion make this 1/4 oz mask very comfortable
- Rated: N95

THR 8210



Provides all the respiratory protection that the current 8210 dust/mist respirator does, with the additional benefit of increased worker comfort

- Excellent for oil aerosols
- Comes with "foamfit" nose cushion and adjustable contour nose clip for a reliable seal
- Rated: P95

THR 8271



- NIOSH approved for removing 95% of solids and liquids
- "M" nose clip provides excellent face seal
- Cool Flow Exhalation Valve provides added comfort, durability
- Rated: N95

THR 8511



- NIOSH/MSHA approved for protection against dusts and mists
- Activated charcoal section provides relief from nuisance levels of organic vapours, including low concentrations of mineral spirits, solvents, decaying marine life, latex paint and smog
- Rated: P95

THR 8577

3M Secure Click Half Face Reusable Respirators

- Filter and cartridge connection snap into place for easy assembly
- New dual-flow cartridge design allows air to be pulled through both sides of the cartridge for easier breathing
- Speaking diaphragm to help provide easier communication
- Push button seal check is an easy way to conduct required (negative pressure) seal check prior to each use
- Silicone face seal with patented flex joint nose bridge provides a softer feel for more comfort on the wearer's face
- Easy-adjust head cradle buckles — pull straps to tighten, squeeze the buckles to loosen
- Exhalation valve directs exhaled breath and moisture downward
- Low-profile half face piece design offers a wide field of view and compatibility with certain welding and grinding shields



THR HF-801SD Small
THR HF-802SD Medium
THR HF-803SD Large

Parts:

THR HF-800-02 Inhale / exhale valve
THR HF-800-04 Head harness assembly
THR HF-800-05 Speaker diaphragm

3M Secure Click System Accessories

Organic Vapour Cartridge with Dual Flow



- NIOSH approved
- Two dual-flow cartridges on each respirator combine four airflow paths for easier breathing
- Quick, simple cartridge connection
- Use with 3M Secure Click HF-800 Series reusable respirators

THR D8001 2/pkg

D8001

Particulate Filter P100



- NIOSH approved to help protect against certain oil and non-oil based particles
- Nuisance level relief of organic vapours and ozone protection up to 10X the permissible exposure limit
- Certain lead paint removal, mould remediation, sanding and scraping lead-based paint
- Secure Click dual flow

THR D3097 2/pkg

D3097

Filter Retainer



- Designed to hold Secure Click particulate filters D7N11 and D7P7
- Works with Secure Click 800 series respirators and D8000 series cartridges and filters
- Suitable for filtering solid and liquid particles

THR D701 Each

D701

Particulate Filter N95



- NIOSH approved N95 filter for at least 95% of airborne particles, but is not resistant to oil
- Advanced Electret Media (AEM) provides lightweight, easy breathing comfort
- Certain lead paint removal, mould remediation, sanding and scraping lead-based paint
- Secure Click dual flow

THR D7N11 Each

D7N11

Particulate Filter P95



- NIOSH approved P95 filter for at least 95% of airborne particles, both oil and non-oil based
- Certain lead paint removal, mould remediation, sanding and scraping lead-based paint
- Secure Click dual flow

THR D7P71 Each

D7P71

3M 6000 Series Half Mask Respirators

- This series combines comfort and convenience
- Comfortable soft, lightweight facepiece with easy-to-adjust head straps
- NIOSH approved for negative pressure air purifying and supplied air dual airline applications
- Can be disassembled, cleaned and reused



THR 6100 Small
THR 6200 Medium
THR 6300 Large

3M 6000 Series Full Face Respirators

- Large lens provides a wide field of view for excellent visibility
- Lightweight well-balanced design and silicone faceseal for enhanced comfort, durability and ease of cleaning
- Center adapter directs exhaled breath downward
- No retainers or extra parts needed to attach filters, cartridges or dual airline NIOSH approved



THR 6700	Small
THR 6800	Medium
THR 6900	Large

Parts:

THR 6885	Protective tear away lens cover (Full face)
THR 6893	Inhalation valve
THR 6894	Replacement nose cup assembly
THR 6897	Head harness assembly (Full face)
THR 6898	Lens only

3M 6500 Rugged Comfort Half Face Respirators

- Quick latch provides an easy on and off option as you move in and out of contaminated areas
- Extended product life due to resilient silicone facepiece material
- 3M Bayonet Connection is compatible with all 3M cartridges and filters
- Simplified cleaning and maintenance with fewer parts and crevices
- Includes the 3M Cool Flow Valve that enhances comfort by reducing heat and moisture



THR 6501QL	Small
THR 6502QL	Medium
THR 6503QL	Large

Parts:

THR 6582QL	Replacement harness assembly

3M 6000 Series Respirator Kits

NIOSH certified for organic vapours and 95% effective in removing solids and liquids (including oils). Recommended for spraying painting lacquers, enamels and pesticides.

Assembly includes:
1 Face piece (6200 or 6300)
2 Organic Vapour Cartridges (6001)
4 P95 Pre Filters (5N11)
2 Filter Retainers (501)



THR 07178	Medium
THR 07179	Large

3M 7500 Series Half Face Respirators

- Advance silicone material for increased comfort and greater durability
- Proprietary 3M CoolFlow valve helps makes breathing easier
- Dual-mode head harness adjusts easily for either standard or drop-down mode
- Exhalation valve cover directs exhaled breath and moisture downward to reduce fogging



THR 7502	Medium
THR 7503	Large

3M Accessories For Face Masks

Organic Vapour Cartridge NIOSH P100

Recommended for respiratory protection against organic vapours with P100 filter. Bayonet compatibility allows use with half and full-face series 6000, 6500, 7000, 7500, 7800S, and FF-400.



60921

THR 60921 2/pkg

Organic Vapour Cartridge P or N95

Recommended for respiratory protection against organic vapours. Connects directly onto the 6000 series. If needed use 501 and 5P71 or 5N11 for further protection.



6001

THR 6001 2/pkg

Pre-Filters for 6001 Cartridge

- Organic vapours such as oils, pesticides, etc. Needs the 501 to attach.



5N11

THR 5P71 Each, (P95)

Dust and paint. Needs the 501 to attach.

THR 5N11 Each, (N95)

Plastic Pre-Filter Retainer



501

THR 501 Each

Plastic Filter Adapter

- Compatible with 3M particulate filter series 2000 and 7093



502

THR 502 Each

Particulate Filters

For grinding, sanding, and welding. Also for environments where oil aerosols may be present. Clips to the 6000 series.



2071

THR 2071 2/pkg, (P95)

For dusts, fumes mists, radio-nuclides, radon daughters and asbestos. Can be used as a pre-filter on the 6001 w/the 502 adaptor. Clips to the 6000 series.



2091

THR 2091 2/pkg, (P100)

NIOSH approved for environments containing certain oil and non-oil based particles. For relief against nuisance levels of organic vapor/acid gases and for ozone protection up to 10X OSHA PEL.



2078

THR 2078 2/pkg, (P95)

P100, nuisance organic vapour relief particulate filter. NIOSH approved



THR 2297 2/pkg, (P100)

Cleaning Wipes

Non alcohol cleaning wipes for face mask.

THR 504 Each





zipwake.com

SAY HELLO TO THE PRO

The ultimate upgrade to our renowned Dynamic Trim Control System.
Now five times faster... it delivers unmatched responsiveness, greater precision, and more dynamic functionality than ever before.

Controls, Cables, & Connection Kits	ZF Mathers Electronic Controls	08-002
	Dometic / Sea-Dog Controls	08-003 to 005
	Control Cables / Connection Kits	08-006 to 011
Steering	Dometic / Mechanical Steering Kits	08-012 to 017
	Dometic Hydraulic Steering	08-018 to 039
	Jack Plates / Outboard Motor Brackets	08-039 to 042
	Auxiliary Motor Steering	08-042 to 047
	Steering Accessories / Steering Wheels	08-047 to 050
Thrusters	Vetus Thrusters	08-051 to 054
Trim Control Systems	Lectrotab	08-055 to 057
	Dometic	08-057
	Lenco	08-058 to 059
	Zipwake	08-060 to 062
	Bennett	08-062
	Hydrofoils / Trolling Plates	08-063

ZF Marine electronic propulsion control systems are at the leading edge of electronics technology. These single lever dual function electronic control systems are designed for precise, responsive, and reliable control of a commercial marine, yacht, or pleasure craft. ZF incorporates well-proven hardware and software to ensure simple to operate reliability coupled with ease of product maintenance. A wide range of systems means optimum equipment can be chosen to specifically match the type of vessel or propulsion configuration – single engine, multi-engine, or multi-station. ZF has systems compatible with Inboard, Outboard, or I/O for gas or diesel engines, with any combination of mechanical or electronic shift & throttle.

MicroCommander



Mechanical Shift
Mechanical Throttle

ClearCommand *



Mechanical Shift
Electrical Throttle

*Request Item
See Note below

CruiseCommand *



Electrical Shift
Electrical Throttle

453-3R



453-3L



463-4

Standard features of all ZF Marine Control Systems:

Plug-in Installation - ZF Marine control systems can be either hardwired and/or provided with Deutsch connectors which significantly reduce installation time and effort.
Push Button Set Up with Diagnostic Display - Configuring the system parameters has never been easier. Each processor features a digital display providing information for set-up, system status, and/or diagnostic purposes.
Start Interlock - Our neutral start interlock prevents engine start up unless the control system is on, in neutral, and a specified station is in command of the engines and transmissions.
Emergency Reversal Protection - Speed / shift sequence protection allows shifting from full ahead to full astern in one motion while preventing damage to the engine or transmission.
Synchronization - Automatic multi-engine speed synchronization is standard on all control systems improving engine efficiency, fuel economy, while reducing engine noise & vibration. It also provides the ability to control of multiple engines and transmissions with one lever.
Multiple Control Stations - All control systems have the capability to support multiple control stations on a vessel including by optional handheld remote control.
Troll - All ZF control systems are designed to control mechanical or electronic trolling valves as well as ZF AutoTroll.

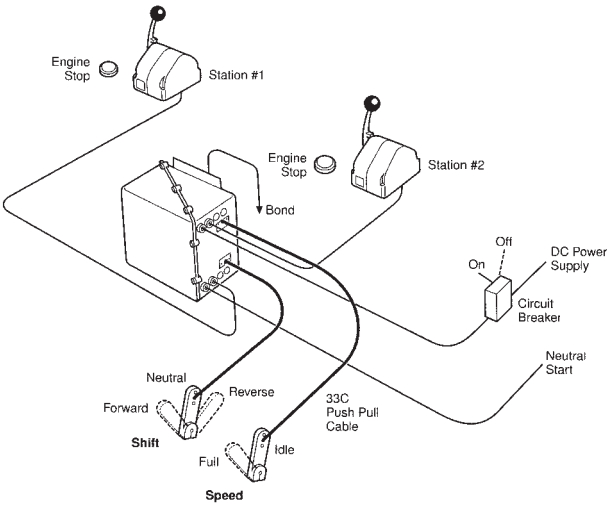
ZF Mathers Sample System Installations:

Single engine (mechanical throttle and shift) two stations

MMC 91100	Actuator mechanical throttle/mechanical shift w/hard wired connections (x 1)
MMC 453-3L	Single lever control (left) (x 2)
MMC 350	8 Conductor shielded cable (75')
MMC 349	2 Conductor shielded power cable (10')
MMC 355	2 Conductor shielded starter interlock cable (10')
MMC 13505	Automatic power selector (x 1)

Twin engine (mechanical throttle and shift) single station

MMC 91100	Actuator mechanical throttle/mechanical shift w/hard wired connection (x 2)
MMC 463-4	Twin lever control w/plug connection (x1)
MMC 13316-10	Serial communication cable 10' (x 1)
MMC 13239-10	Tach sensor harness 10' (x 2)
MMC 350	8 Conductor shielded cable (40')
MMC 349	2 Conductor shielded power cable (10')
MMC 355	2 Conductor shielded starter interlock cable (10')
MMC 13505	Automatic power selector (x 1)



Before ordering a ZF Mathers electronic control system please call for a system configuration work sheet or allow our sales staff to work out the details.

DOMETIC

Dometic S & Twin S Controls



SeaStar Model S and Twin S top mounted controls are the traditional control style for use on boats with gasoline or diesel engines and hydraulic transmissions, and are a popular choice for dual station rigs. Model S can be mounted to control clutch or throttle. The Twin S can be used to control clutch and throttle or, on twin engine applications, two clutches or two throttles. Features adjustable stops, adjustable brake for each lever and an optional detent kit.

STR CH5210P	Single	W: 5.39" x D: 2.99"
STR CH5200P	Twin	W: 5.39" x D: 4.17"

Parts:

STR 47307	Neutral safety switch
STR 42152	HD Kit -convert to 43C cables, one per lever
STR 39489-002	Dual station kit for Twin S
STR 61001	Hardware kit

Dometic MT-3 Controls



SeaStar top or binnacle mounted control provides one-handed positive engine control with excellent control feel characteristics. Recommended for single station applications only. Single and twin engine, inboard, outboard and I/O, diesel or gasoline react quickly and positively to MT-3 controls. Start and warm-up operations are carried out with hand lever pulled out at neutral detent position to give throttle action with clutch disengaged. Return to neutral re-engages clutch function. Forward, reverse and neutral detents on single and twin models. Built-in friction drag prevents slippage and throttle creep while under way. Die cast handle and housing are heavily chrome plated.

STR CH5310P	MT-3 Single*	W: 6" x D:3.5"
STR CH5300P	MT-3 Twin	W: 6" x D: 6"

Parts:

STR 308742	HD Kit - to convert to 43C cables (single only, twin cannot be converted)
STR 305499	Neutral Safety Switch - assures starting in neutral only
STR 32778-002	Hand lever
STR 38853	FWD-REV decal
STR 35232-001	Red knob
STR 35232-004	Black knob

* Single control accepts 43C type cable with optional connection kit. Standard control suits 33C type cables.

Dometic Jet Boat Control



- Features a compact design, positive lockout, and smooth feel
- Single lever dual action design controls both throttle and shift
- Flush mount
- Waterproof neutral safety switch
- Includes hardware for two 3300/33C type cables

STR CH2300P

Dometic i7800 Dual Control



- Suitable for all engines with mechanical shift and mechanical throttle
- Single or twin engine applications
- Inboard, IO, and Outboard
- Supports up to three stations
- Two cable actuators in a single chassis for complete shift and throttle control
- Programmable home position
- Compatible with Xtreme CCX633XX cables
- W: 7.26" x D: 6.57"

STR CH7800NT-BE *

* Special Order

Dometic i7700 Shift and Throttle Actuator



- Contains both the shift and throttle actuator within one compact housing
- Powerful enough to manage shift and throttle functions on the most extreme applications
- Mechanical backup "get home" feature allows simple manual control
- Linked to the control heads via a single 1/4" CANbus cable
- W: 12.2" x H: 5.4" x D: 8.3"

STR AC7700 *

* Special Order

Dometic Sailboat Control



SeaStar control for all sail engine applications in which a side mount is desirable.

- Single lever, dual action for throttle & shift
- Neutral engine warm-up control
- Surface mount design for quick, tidy installation
- Includes hardware for two 3300/33C type cables
- Positive shift detents and neutral lock-out
- Weatherproof exterior, rugged die cast frame
- Meets/exceeds all applicable industry standards

STR CH2100P

Sea-Dog Single Function Engine Control



This economically priced engine control is made from sand cast brass and finished in chrome plating.

- Uses #10 F.H. mounting screw
- W: 5-5/16" x H: 6-5/16" (body), 12-1/16" (with handle) x D: 3-1/8"

SED 232300

DOMETIC

Dometic Xtreme Series Controls

The ergonomics and features of the SeaStar Xtreme Series controls are the most advanced available, and are suitable for most kinds of single and dual engine application boats. The shapely, balanced handles provide a very comfortable feel, and the state of the art mechanism guarantees a smooth yet solid action; assuring you have maximum control at all times.

- All controls include start in gear protection
- Designed for use with both 3300/33C universal and OEM shift and throttle cables
- Drag adjustment on all controls
- Easy installation and set up
- Neutral "warm up" button for throttle only operation
- Trim & Tilt options available
- Designed and assembled in the USA
- Dual action lever (throttle and shift control on one handle)

Single Lever Side Mount

- Suitable for most single engine boats
- Neutral Interlock standard on all side mount controls
- Can be used in dual station boats with the DS unit
- Minimal changes to mounting scheme or cable nesting from Osprey or SL-3
- Options include cut off switch

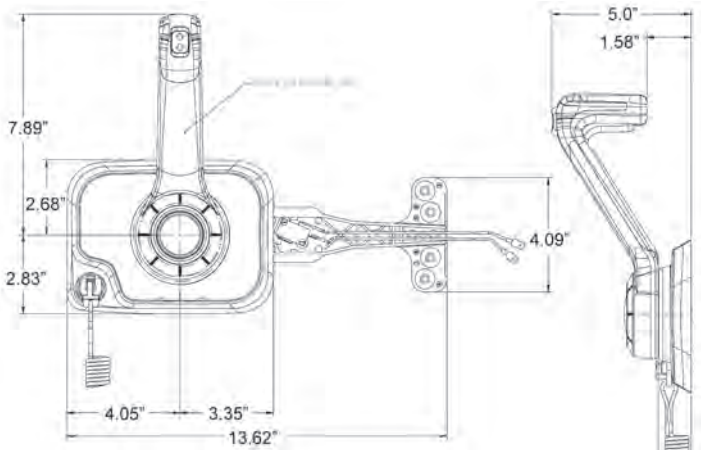
STR CHX8050P Chrome w/Engine Cut Off switch
STR CHX8052P Black w/Engine Cut Off, Trim and Tilt switches
STR CHX8553P Black
STR CHX8554P Black w/Trim switch

Dual Lever Top Mount

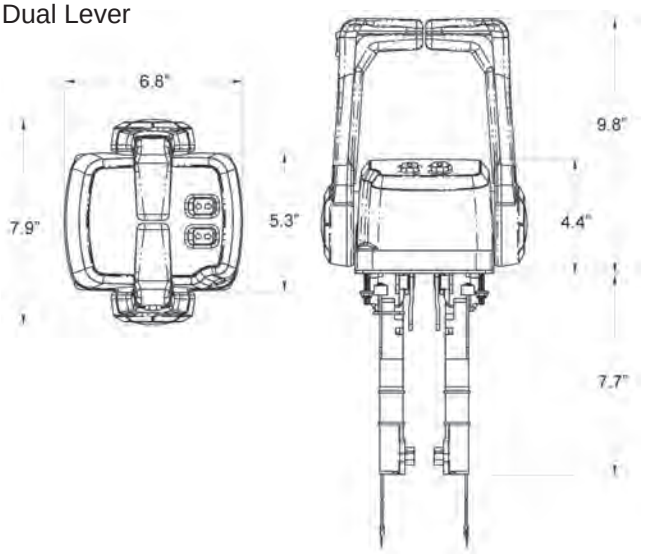
- Suitable for most boat/dual engine combinations
- Can be used in dual station, dual engine applications with the DS unit
- New master trim button in handle to trim both engines with separate trim switches in the base of the control for individual triming

STR CHX8740P * Black
STR CHX8742P Black, w/Trim and Tilt switches
* Special Order

Single Lever



Dual Lever




CHX8554P


CHX8052P


CHX8742P

CONTROL FEATURES	CHX8050P	CHX8052P	CHX8553P	CHX8554P	CHX8740P	CHX8742P
Mount	Side	Side	Side	Side	Top	Top
Finish	Chrome	Chrome	Black	Black	Black	Black
Neutral Throttle Interlock	Y	Y	Y	Y	N	N
Trim Switch Option	N	Y	N	Y	N	Y**
Tilt Switch Option	N	Y	N	N	N	Y
Emergency Ignition Interrupt Switch & Lanyard	Y	Y	N	N	N	N

** New master trim button in handle to trim both engines with separate trim switches in the base of the control for individual triming

STEERING OPTIONS BASED ON ENGINE TYPE

NOTE: "turns" in parentheses refers to number of steering wheel turns lock-to-lock. Higher numbers means lower turning effort. Lower number means quicker steering response.		ALL NON-POWER-ASSISTED OUTBOARD ENGINES (NO FEEDBACK)			
		Up to V-4 & V-6 50 MPH or less	Up to V-6 to 55 MPH	V-6 & Larger (to 300 HP) 60 MPH+	Power-Assisted Outboards/ Stern Drives Inboards
CURRENT STEERING TYPE	Rotary Mechanical (cable)	**XTREME SSX176 NFB Safe-T II SS132XX** *(3 turns) or* **NFB 4.2 Rotary Single Cable SS147XX** *(4.2 turns)*	**NFB 4.2 Rotary No FeedBack Dual Cable** *(4.2 turns) (best for lower speeds)*	Upgrade to **SeaStar PRO HK73XXA-3** *or* **HK75XXA-3 (no hoses)** *(both: 4.25 turns)*	**HPS Rotary** *(order by components) or* **Safe-T QC SS137XX** *(both: single cable, 3 turns)*
	Rack & Pinion Mechanical (cable)	**NFB No FeedBack Rack Single Cable SS151XX** *(4 turns) (use SeaStar for multi-engines & autopilots)*	**NFB No FeedBack Pro Rack Dual Cable SS152XX** *(4 turns) (use SeaStar for multi-engines & autopilots)*	**NFB No FeedBack Pro Rack Dual Cable SS152XX** *(4 turns) (use SeaStar for multi-engines & autopilots)*	**HPS Rack & Pinion** *(order by components) or* **The Rack SS141XX** *(both: single cable, 4 turn) (use SeaStar for multi-engines & autopilots)*
	Hydraulic	**BayStar HK4200/4230** *(O/B to 150 HP; 4.5 turns) or* **Seastar HK63XX-3/ HK6400-3** *(5 turns) or* **SeaStar P/A**	**BayStar or SeaStar HK63XX/ HK6400-3 (no hoses) or SeaStar P/A** *(order by components)*	**SeaStar PRO HK73XXA or HK75XXA-3 (no hoses)** *(both: 4.25 turns) or* **SeaStar P/A** *(must use P/A Pro with SeaStar Pro helm)*	**SeaStar Steering** *or* **SeaStar P/A** *(both: best for autopilots, cylinders are drive-specific)*

NOTE: "turns" in parentheses refers to number of steering wheel turns lock-to-lock. Higher numbers means lower turning effort. Lower number means quicker steering response.		STERN DRIVES	INBOARD POWERED BOATS, INCLUDING MULTIPLE STATIONS		
		Non Power-assisted	Up to 34 feet (most engines)	Up to 50 feet (single or dual engines)	Over 50 feet (most engines)
CURRENT STEERING TYPE	Mechanical (cable)	**NFB 4.2 Rotary Single Cable SS147XX** *(4.2 turns) or* **NFB Rack Single Cable SS151XX** *(4 turns)*	**Big-T** *(single cable; order by components; dual station version available) (3 turns)*	—	—
	Hydraulic General Purpose (number of turns varies with helm & cylinder)	**SeaStar Stern Drive Steering** *or* **SeaStar P/A** *(order system by components; dual station versions available; best for boats with autopilots; cylinders are drive-specific)*	**SeaStar** *or* **Hynautic Inboard** *or* **SeaStar P/A** *(order system by components; dual station version available; best for autopilots; many cylinder options)*	**SeaStar** *or* **Capilano Inboard Steering** *(order system by components) or* **SeaStar** *or* **Hynautic Inboard Steering** *(order by components)*	**SeaStar Power Steering** *(order system by components; dual station version available; best for autopilots; many cylinder options)*
	Hydraulic Heavy Duty (turns vary)	**SeaStar Hynautic** *(Twin External Cylinders) (order components; dual station version available)*	**SeaStar Capilano** *or* **SeaStar Hynautic** *(order components; dual station version available)*	**SeaStar Capilano SeaStar Hynatic** *or* **SeaStar Power Steering** *(order by components)*	***NOTE:*** *Boats over 50 feet should have steering loads reviewed by Dometic SeaStar. Please contact tech service for assistance.*

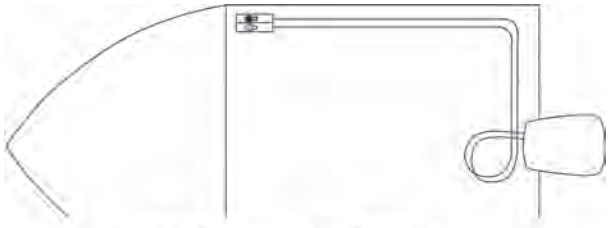
How to Measure Control Cables "Measure Twice. Order Once."

For a New Installation:
Measure cable routing path from control head attachment point to engine connection, as follows:

Outboards:
Measure from control along unobstructed cable routing to center of outboard. Add four feet to allow for loop which provides unrestricted engine movement. Round up to the next foot and order required cable part number. (Last two digits of cable part number equal cable length in feet.)

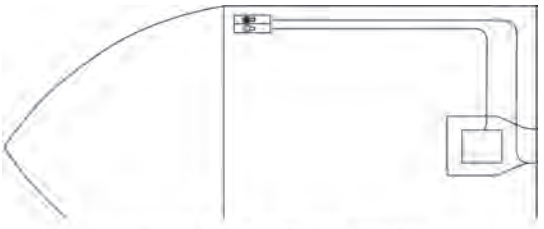
Inboards & Stern Drives:
Measure from control along unobstructed cable routing to shift and/or throttle connection. Round this dimension up to the next foot and order required cable part number. (Last two digits of cable part number equal cable length in feet.)

TYPICAL OUTBOARD CABLE ROUTING:



TYPICAL OUTBOARD CABLE ROUTING
(MEASURE CABLE PATH + ROUND UP TO NEXT EVEN FOOT + ADD 4 FEET FOR LOOP AT ENGINE TO PREVENT KINKING)

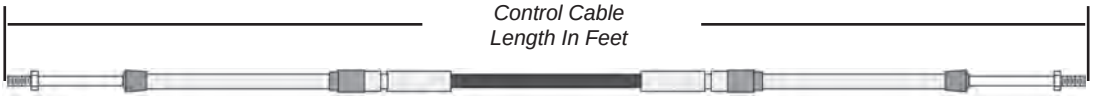
TYPICAL STERN DRIVE OR INBOARD CABLE ROUTING:



TYPICAL STERN DRIVE/INBOARD CONTROL CABLE ROUTING
(MEASURE CABLE PATH + ROUND UP TO NEXT EVEN FOOT)

For Replacement of Existing Cable:
If you removed the old cable, measure for replacement cable as follows: Measure from tip to tip and round up to the next foot, if necessary (aftermarket cables are sold in foot increments).
The control cable part number contains its length SeaStar cables are usually listed as CC???XX, where XX = length in feet.

For example : Part Number CCX63320 = 20 ft. CCX633 Control Cable



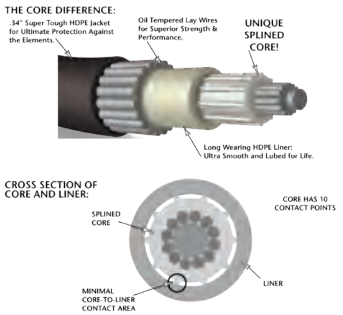
Cable Selection Options

Universal (3300/33C) Type
Universal (or 3300/33C) type throttle/shift control cables are direct replacements for many boats using aftermarket controls or most engine manufacturer's controls with the correct adapter kit. Universal 3300/33C cables can be connected to most engines. These cables are offered in all three grades: standard, midrange and Xtreme.

Universal (4300/43 6400/64) Types
Heavy duty universal type control cables are available in Xtreme versions only. These are drop-in replacements for 43C, 43BC, 64C and 64BC and other similar cables.

OEM Replacement Type
SeaStar offers a direct replacement cable for almost every engine manufacturer's control. Most of our OEM type cables are available in both standard and Xtreme versions.

Jet Boat Gate Control Cables
Three styles of drive-specific jet boat gate control cables are available, for Mercury Sport Jet 90 and early 120s, Sport Jet 175s and OMC Turbo Jet. Our Xtreme 43BC cable is used on most other popular jet drives. Replacement throttle control cables are generally an OEM or 3300/33C Universal type.



Xtreme's unique design incorporates a patent-pending splined core which allows easy movement and minimum lost motion

Designed for complex and/or long cable runs (or to simply create a superior feel)

Available in several style options avoiding the need for adaptor kits

All Xtreme cables are available in 1ft increments

Gen II type suits Mercury 4000 series controls

DOMETIC



Dometic Xtreme 3300 Control Cables
Premium - 633 Series

SeaStar Xtreme control cables have a patented spline core for smoother control without sacrificing precision. The HDPE outer casing offers durability and excellent resistance to UV & chemicals. This CCX633 series cable is a replacement for 3300CC premium cables.
Cable has a 10-32 threaded terminal and a clamp-type fitting at each end. 3" nominal travel.

STR CCX63305	5'	**STR CCX63318**	18'
STR CCX63306	6'	**STR CCX63319**	19'
STR CCX63307	7'	**STR CCX63320**	20'
STR CCX63308	8'	**STR CCX63321**	21'
STR CCX63309	9'	**STR CCX63322**	22'
STR CCX63310	10'	**STR CCX63323**	23'
STR CCX63311	11'	**STR CCX63324**	24'
STR CCX63312	12'	**STR CCX63325**	25'
STR CCX63313	13'	**STR CCX63326**	26'
STR CCX63314	14'	**STR CCX63327**	27'
STR CCX63315	15'	**STR CCX63328**	28'
STR CCX63316	16'	**STR CCX63329**	29'
STR CCX63317	17'	**STR CCX63330**	30'
		STR CCX63332	32'
		STR CCX63336	36'

What kind of ongoing maintenance do cables need? Can they be repaired?

We suggest the following periodic maintenance be performed at least twice a season:
a. Check overall operation for proper gear engagement, full and idle throttle, and overall feel.
b. Visually inspect control head, cable as well as engine and transmission cable attachment points for proper tightness of fasteners, correct operation of all moving parts, worn or broken items, cable chafing or misalignment, etc.
c. Do not lubricate core wire (moving wire inside the casing). If the cable operates stiffly, replace it.
d. Keep cable ends dirt and corrosion free.
e. Lubricate pivot points and sliding parts of the cable with a good quality water-resistant grease.
When to replace a cable or connection hardware:
a. Excessive free play felt at the control even after all cable connections have been verified as in good working order.
b. Visual inspection shows chafing, breakage or bent, loose or worn parts.

Never attempt to repair a cable. Always replace a malfunctioning cable. A cable cannot be properly repaired in the field and must always be replaced as an assembly.

OEM Cable Applications

Features:

- Drop-in replacement cables are engineered as replacements for original equipment cables
- Cables use the existing connection components
- Stainless steel and brass fittings
- Standard cables use stainless steel Lubri-Core™ core wire for smooth operation and long life. (8" minimum bend radius.)
- Black HDPE outer casing for durability and best resistance to UV and chemicals

Dometic Mercury 600A Cables
Standard - 179 Series

Mariner/Mercury/MerCruiser (1965-date); Force (1993-date) with Mercury controls. All Mariner engines with Mercury/Mariner controls (except pre-1993 40 HP & lower models). All 1993-date Force (US Marine) with Force/US Marine/ Mercury controls.

STR CC17918 **	18'
STR CC17919 **	19'

** While Stock Lasts



Dometic Xtreme Mercury 600A Cables
Premium - 179 Series

SeaStar premium 3300/33C cables have a heavy jacket and the Xtreme splined, coated core element for maximum smoothness with minimal lost motion. (4" min. bend radius)

Mariner/Mercury/MerCruiser (1965-date); Force (1993-date) with Mercury controls. All Mariner engines with Mercury/Mariner controls (except pre-1993 40 HP & lower models). All 1993-date Force (US Marine) with Force/US Marine/ Mercury controls.

STR CCX17912	12'
STR CCX17913	13'
STR CCX17914	14'
STR CCX17915	15'
STR CCX17916	16'
STR CCX17917	17'
STR CCX17918	18'
STR CCX17919	19'
STR CCX17920	20'



Dometic Universal 4300 Control Cable Applications

Universal type cables are designed to fit aftermarket engine controls as well as OEM units from BMW, Chrysler, Honda, Nissan , Suzuki, Volvo, Yamaha and others.

Dometic Xtreme 4300BC Cables 430 Series

SeaStar cable has one bulkhead and one clamp fitting.
There is a 1/4-28 threaded terminal at each end. 3" nominal travel.
5" minimum bend radius.
CCX430XX is an Xtreme cable.

STR CCX43010	10'
STR CCX43011	11'
STR CCX43012	12'
STR CCX43013	13'
STR CCX43014	14'
STR CCX43015	15'
STR CCX43016	16'
STR CCX43017	17'
STR CCX43018	18'
STR CCX43019	19'
STR CCX43020	20'
STR CCX43021	21'
STR CCX43022	22'
STR CCX43023	23'
STR CCX43024	24'
STR CCX43025	25'
STR CCX43026	26'



Dometic Xtreme 4300CC Cables 433 Series

SeaStar cable has a 1/4-28 threaded terminal and a clamp-type fitting at each end. 3" nominal travel. 5" minimum bend radius.
CCX433XX is an Xtreme cable.

STR CCX43305	5'
STR CCX43306	6'
STR CCX43307	7'
STR CCX43308	8'
STR CCX43309	9'
STR CCX43310	10'
STR CCX43311	11'
STR CCX43312	12'
STR CCX43313	13'
STR CCX43314	14'
STR CCX43315	15'
STR CCX43316	16'
STR CCX43317	17'
STR CCX43318	18'
STR CCX43319	19'
STR CCX43320	20'
STR CCX43321	21'
STR CCX43322	22'
STR CCX43323	23'
STR CCX43324	24'
STR CCX43325	25'
STR CCX43326	26'
STR CCX43328	28'
STR CCX43330	30'
STR CCX43332	32'
STR CCX43334	34'
STR CCX43336	36'
STR CCX43338	38'
STR CCX43340	40'



Dometic OMC 400 Cables Standard - 170 Series

Pre-1979 OMC/Johnson/Evinrude with BRP/OMC controls.

STR CC17009	9'
STR CC17010	10'
STR CC17011	11'
STR CC17012	12'
STR CC17013	13'
STR CC17014	14'
STR CC17015	15'
STR CC17016	16'



Dometic XTreme Mercury/Mariner/Force/U.S. Marine Gen II Type

Mariner/Mercury/MerCruiser and other engines using Mercury 2003-date 4000 series controls.
CCX189XX is an Xtreme cable.

STR CCX18906	6'
STR CCX18907	7'
STR CCX18908	8'
STR CCX18909	9'
STR CCX18910	10'
STR CCX18911	11'
STR CCX18912	12'
STR CCX18913	13'
STR CCX18914	14'
STR CCX18915	15'
STR CCX18916	16'
STR CCX18917	17'
STR CCX18918	18'
STR CCX18919	19'
STR CCX18920	20'
STR CCX18921	21'
STR CCX18922	22'
STR CCX18924	24'



Dometic XTreme OMC 479 Cables 205 Series

1979-date BRP/OMC/Johnson/Evinrude/Gale with BRP/OMC controls. Exceeds engine manufacturer's specifications.
CCX205XX is an Xtreme cable.

STR CCX20510	10'
STR CCX20511	11'
STR CCX20512	12'
STR CCX20513	13'
STR CCX20514	14'
STR CCX20515	15'
STR CCX20516	16'
STR CCX20517	17'
STR CCX20518	18'
STR CCX20519	19'
STR CCX20520	20'
STR CCX20521	21'
STR CCX20522	22'
STR CCX20523	23'
STR CCX20524	24'
STR CCX20525	25'



Dometic Xtreme 6400BC Cables 640 Series

- Black HDPE outer casing for durability and resistance to UV and chemicals
- One bulkhead, and one clamp fitting
- 5/16-24 threaded terminal at each end
- 4" nominal travel
- 8" minimum bend radius

STR CCX64018	18'
STR CCX64019	19'
STR CCX64020	20'
STR CCX64022	22'

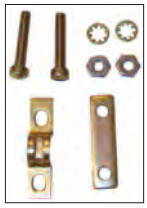


DOMETIC

Dometic Engine Connection Kits

SeaStar kits provide control cable connection hardware, either for cable to engine/transmission or for cable to control unit. Most are specific to engine or control type and for use with two 3300 type cables, except where otherwise noted.
*1 kit required for each cable

STR CA28020P
Clamp & Shim kit universal

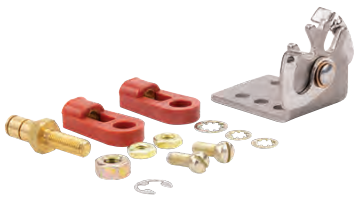


STR CA27321P
Evinrude/Johnson O/B Kit (Pre 1979)



STR CA27319P
Mercury stern drive & outboard kit (all)

STR CA27328P
Parallel Connection Kit

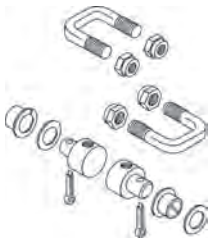


STR CA27024P
Universal Inboard Connection Kit



Dometic CH5600 Control Connection Kit

STR CA69022P
Cable attachment kit (3300/33C Dual station)



Dometic DC Control

Designed to mount flush on a dashboard or side of a wheel box. Mounting with an angle bracket is optional. Recommended for throttle, choke, air or fuel shutdown, governor or valve control. Use with 33C series cables.



STR 301916	DC control
STR 301555	T-Handle only

Dometic Mounting Bracket

All stainless steel angle mounting bracket for use with the DC control.

STR 48210



Dometic Parts - Control Connection Kits

These kits adapt 3300/33C series cables for use with other controls.



STR 301074
Adapts 3300/33C series cables for use with Mercury/Mariner controls

STR 304939
Adapts 3300/33C series cables for use with 1979 and later OMC Controls.



Dometic Parts - Engine Connection Kits

These kits are used to adapt 3300/33C series cables to fit directly into the existing engine connections.

STR 301729
Adapts 3300/33C series cables for use with Evinrude/Johnson 55-235 h.p. 1978 to date, 20 h.p. and up in 1986, 20-25-30 h.p. motors may need OMC Kit 397488, if motor does not have it installed already.



STR 302123
Adapts 3300/33C series cables for use with Mercruiser.



Dometic Parts - Accessories









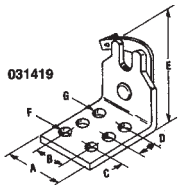
STR 41884-01B	T-Handle, black plastic, 1/4"-20
STR 61342	T-Handle hardware kit
STR 300673	30L Bulkhead adaptor kit
STR 302485	30L Clamp adaptor kit
STR 37693	30L Stop collar
STR 294200-001	30 Series isolator kit



► Note

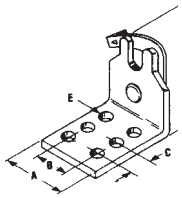
30 Series ..... 10-32 RH Thread
40 Series ..... 1/4"-28 RH Thread
60 Series ..... 5/16"-24 RH Thread

Dometic Parts - Cable Hook Clips



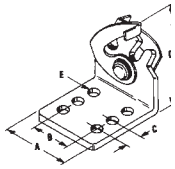
30 Series Single

Part #	A	B	C	D	E	F	G
STR 31419	1"	1/2"	3/8"	1/2"	1-3/16"	1/4"	3/16"



30 Series Single

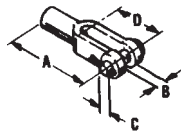
Part #	A	B	C	D	E
STR 36174	1-1/4"	3/4"	3/8"	1-1/2"	13/64"



30 Series Dual

Part #	A	B	C	D	E
STR 35531	1-1/4"	3/4"	3/8"	1-1/2"	13/64"

Dometic Parts - Clevis



30 Series

Part #	A	B	C	D
STR 31125	2"	9/32"	1/4"	1-1/4"
STR 33395	2-1/4"	17/32"	11/16"	5/16"

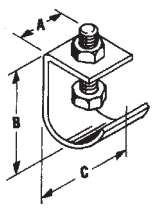
40 Series

Part #	A	B	C	D
STR 29025	2"	9/32"	1/4"	1-1/4"
STR 42212	2-1/4"	11/32"	5/16"	1-7/16"
STR 45985	2 -/2"	7/16"	5/8"	1-5/8"

60 Series

Part #	A	B	C	D
STR 29132-001	2-1/4"	11/32"	5/16"	1-7/16"
STR 42034	2-1/4"	11/32"	5/16"	1-7/16"

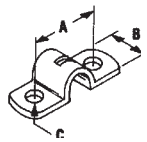
Dometic Parts - Cable Brake



Part #	A	B	C
STR 44386	3/4"	1-1/4"	7/8"

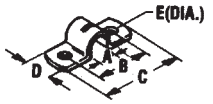
Cable brake fits 30,40 & 60 series cables.

Dometic Parts - Clamps



30 Series

Part #	A	B	C
STR 32010	7/8"	1/2"	3/16"



30 Series

Part #	A	B	C	D	E
STR 31509	3/8"	1"	1-1/2"	1/2"	12/64"

40 Series

Part #	A	B	C	D	E	F
STR 31532	1/2"	1"	1-1/2"	1/2"	7/32"	N/A
STR 42756	31532 & 31538 Shim					

60 Series

Part #	A	B	C	D	E
STR 36733	9/16"	1-1/4"	1-3/4"	5/8"	9/32"

30 Series Clamp Bracket

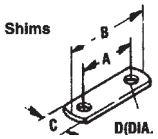


Fits over 1/2" rod. For use with clamps, 31509, 37664, 21227 and shim 31538.

STR 21600 **

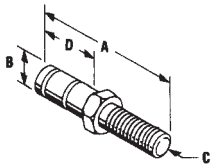
** While Stock Lasts

Dometic Parts - Shims



Part #	A	B	C	D
STR 35777	7/8"	1-3/8"	1/2"	12/64"
STR 37884	1-1/4"	1-3/4"	5/8"	9/32"
STR 31538	1"	1-1/2"	1/2"	12/64"

Morse Parts - Terminal Eye Pin Kit

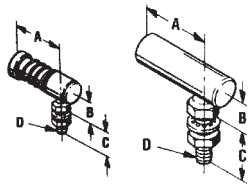


30 Series

Part #	A	B	C	D
STR 301456	1-1/2"	5/16"	1/4"-28	19/32"

Note: Includes eye pin, retaining ring, nut & washer.

Dometic Parts - Ball Joints



30 Series

Part #	A	B	C	D
STR 31126	31/32"	15/32"	9/16"	1/4-28"
STR 31799-001	29/32"	15/32"	7/16"	10/32"
STR 35242	1-1/8"	17/32"	7/8"	5/16"

All units come complete with nut and lock washer.

40 Series

Part #	A	B	C	D
STR 29104	31/32"	15/32"	9/16"	1/4-28"
STR 32267	29/32"	17/32"	7/8"	5/16"

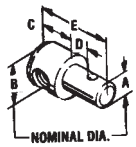
Both units come complete with nut and lock washer.

60 Series

Part #	A	B	C	D	Style
STR 29108	1-1/8"	17/32"	7/8"	5/16"	Quick Release
STR 38491	1-1/8"	17/32"	7/8"	5/16"	Solid Type

Both units come complete with nut and lock washer.

Dometic Parts - Pivots



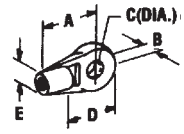
30 Series

Part #	A	B	C	D	E
STR 31029	1/4"	7/16"	21/64"	9/64"	5/8"
STR 31539	1/4"	7/16"	3/8"	.191"	23/32"
STR 32392	1/4"	7/16"	21/64"	.295"	25/32"
STR 37691	5/16"	7/16"	3/8"	13/32"	1-1/16"
STR 39890	1/4"	7/16"	3/8"	.316"	15/16"
STR 45583	3/16"	7/16"	3/8"	9/64"	1-1/16"

40 Series

Part #	A	B	C	D	E
STR 31537	1/4"	1/2"	1/2"	13/64"	7/8"
STR 36361	1/4"	1/2"	1/2"	17/64"	15/16"
STR 39110	1/4"	1/2"	7/16"	9/64"	3/4"

Dometic Parts - Terminal Eyes



30 Series

Part #	A	B	C	D	E	
STR 300646	1"	15/64"	5/16"	3/4"	1/2"	Plastic
STR 317413	-	-	5/16"	-	-	Metal

40 Series

Part #	A	B	C	D	E
STR 37639	1"	15/64"	5/16"	3/4"	1/2"
STR 41134	1-3/8"	5/16"	5/16"	3/4"	1/2"

Dometic Dual Station Transfer Unit



For use with S and SR two lever control systems when installed in a parallel dual station system. The Transfer Unit permits the two clutch and/or the two throttle cables from the controls to be connected to a single cable leading aft to the engine. These units are recommended where long or difficult cable paths make parallel installations costly and/or difficult to operate. One transfer unit is required for each function of each engine.

STR 61371

How to Measure Steering Cables "Measure Twice. Order Once."

Replacement of Existing Cable:

If possible, find the part number stamped on the plastic jacket of the old cable. If you removed the old cable, measure for the replacement cable as follows:

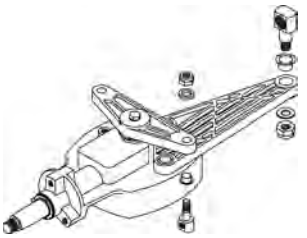


For Rotary Steering Cable Replacement, Measure Existing Cable as follows: Measure plastic cable jacket ("Y" dimension, shown in above drawing) in inches, add 18", and round up to the next foot. Order that length cable.

For Rack Steering Cable Replacement, Measure Existing Cable as follows: Measure plastic cable jacket ("Y" dimension shown in above drawing) in inches, add 30", and round up to the next foot. Order that length cable.

For JBS Jet Boat Cable Replacement, Measure Existing Cable as follows: Measure cable from tip to tip. (Round up to next foot if needed for whole foot.) Order that length cable.

JBS helms are ONLY for smaller jets such as Mercury Sport Jet®, OMC Turbo Jet®, etc. and look like the helm depicted below. If your jet steering is different, contact SeaStar.



New Installation:

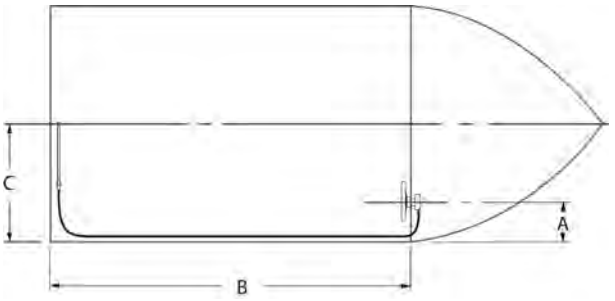
Measure cable routing path from wheel center line to engine connection, as follows:

A = Center line of wheel to gunwale (or deck, if routed downward),
B = Dash to transom,
C = Gunwale to centerline of cable connection at centered tiller.

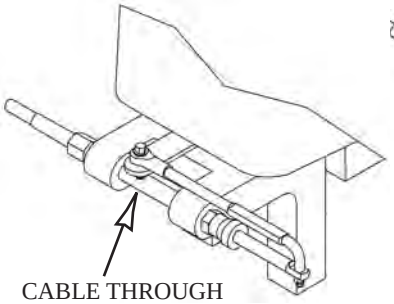
For Cable Installations through the Engine Tilt Tube: Add A, B & C + 6", and round up to the next foot. Order that length cable.

For Cables Mounted to Transom, Splashwell or Stringer: Add A, B & C, then subtract 6" and round up to the next foot. Order that length cable.

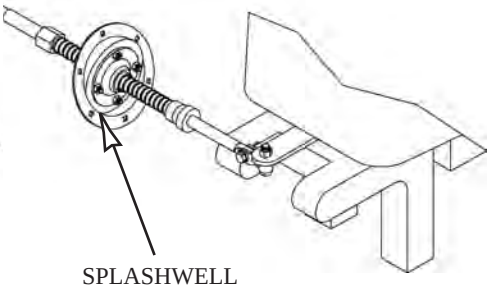
TYPICAL SINGLE STATION ROUTING



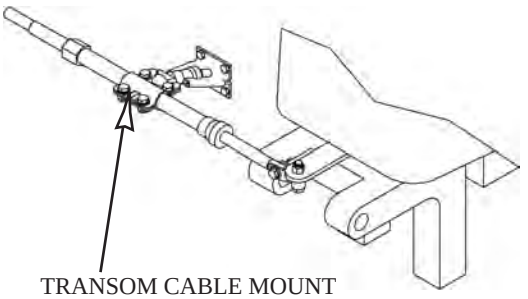
A single-cable, starboard drive push-pull mechanical cable system is shown in this diagram. If your mechanical system is different than the one depicted and/or you have any questions about mechanical steering after reviewing this guide, please contact SeaStar Technical Service.
Cable routings (such as those found on pontoon boats) may vary from this drawing. Confirm length by laying a garden hose (or similar object) along cable path and measure run from wheel to engine connection point.



CABLE THROUGH ENGINE TILT TUBE



SPLASHWELL CABLE MOUNT



TRANSOM CABLE MOUNT (similar to stringer type)

DOMETIC



Dometic
Rotary Safe-T-QC Steering Kits

- Ideal for power steered boats
- Quick response of 3-turn steering
- No-tools cable connection at the helm
- Accepts wheels up to 16" dia
- Replaces all SeaStar Safe-T helms made since 1968
- For single station use only
- Single cable configuration

The kit contains the following:
1- SH5094-1P Helm
1- SB27484P 90 Degree Bezel Kit
1- SSC62XX Steering Cable
Hardware & Instruction sheets

Applications:
Safe-T QC replaces all SeaStar Safe-T helms made since 1968 with little or no dash modifications.

Complete Kits

STR SS13708	8'	**STR SS13715**	15'
STR SS13709	9'	**STR SS13716**	16'
STR SS13710	10'	**STR SS13717**	17'
STR SS13711	11'	**STR SS13718**	18'
STR SS13712	12'	**STR SS13719**	19'
STR SS13713	13'	**STR SS13720**	20'
STR SS13714	14'	**STR SS13722**	22'





Rotary Safe-T-QC Cables

STR SSC6205	5'		
STR SSC6206	6'	**STR SSC6217**	17'
STR SSC6207	7'	**STR SSC6218**	18'
STR SSC6208	8'	**STR SSC6219**	19'
STR SSC6209	9'	**STR SSC6220**	20'
STR SSC6210	10'	**STR SSC6222**	22'
STR SSC6211	11'	**STR SSC6224**	24'
STR SSC6212	12'	**STR SSC6226**	26'
STR SSC6213	13'	**STR SSC6228**	28'
STR SSC6214	14'	**STR SSC6230**	30'
STR SSC6215	15'	**STR SSC6232**	32'
STR SSC6216	16'	**STR SSC6236**	36'

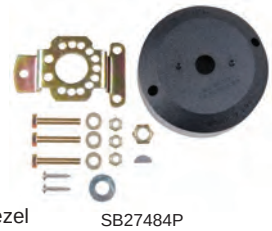
For a complete list
of all available items
Ask for a Dometic Ride & Handling Catalogue

Dometic
Rotary Safe-T-QC Components


SH5094P

Helm

STR SH5094-1P Safe-T QC Single Helm


SB27484P

Bezels

STR SB27484P Safe-T QC 90º Bezel
STR SB27483P Safe-T QC 20º Bezel


SA35680P


SA27454P

Parts

STR SA35680P Spent Travel Tube (Safe-T "QC"/"TS")
STR SA27454P Steering wheel hardware kit
STR SA39329P Cable Guard

Single Tilt Dash Kit

Each kit includes tilt helm & tilt mechanism

STR SHT91523 Kit
Components:
STR SH91523-1P Tilt helm
STR SH91800P Tilt mechanism


SH91800P

DOMETIC



This complete new steering system includes new helm, high efficiency XTREME™ cable and new-style bezel

Dometic
NFB "No Feed Back" XTreme Rotary Kits

- SeaStar mechanical helm offers the smoothest and lowest steering effort in the market place, yet still offers easy installation
- Complete steering system including new helm, high efficiency Xtreme steering cable design and new style bezel
- Quick connect feature on both steering cable and spent travel tube for easy quick installation
- Installs in same mounting pattern and bracket location as current SeaStar steering systems
- Smallest footprint possible to accommodate small/tight dash helm stations
- Made, designed and assembled in the USA

The kit contains the following:
1- SHX7606 Xtreme NFB helm
1- 90 Degree bezel and hardware kit
1- SSCX64XX Steering cable
Hardware & Instruction sheets

Applications:
NFB 4.2 single-cable systems are suitable for most single-station boats with a single non-power-assisted outboard engine up to V-6 and minimal engine flutter or steering instability.

Complete Kits

STR SSX17611	11'
STR SSX17612	12'
STR SSX17613	13'
STR SSX17614	14'
STR SSX17615	15'
STR SSX17616	16'
STR SSX17617	17'
STR SSX17618	18'
STR SSX17619	19'
STR SSX17620	20'

Components

STR SHX7606P	NFB Helm Kit

Xtreme QC Cables

STR SSCX6411	11'
STR SSCX6412	12'
STR SSCX6413	13'
STR SSCX6414	14'
STR SSCX6415	15'
STR SSCX6416	16'
STR SSCX6417	17'
STR SSCX6418	18'
STR SSCX6419	19'
STR SSCX6420	20'





Dometic
NFB "No Feed Back" XTreme TILT Rotary Kits

- Same SeaStar features as the NFB Xtreme system, but with tilt capability

The kit contains the following:
1- SHX97606 Xtreme NFB helm
1- SH91800 Sport Tilt Mechanism
1- 90 Degree bezel and hardware kit
1- SSCX64XX Steering cable
Hardware & Instruction sheets

Complete Kits

STR SSX17711	11'
STR SSX17714	14'
STR SSX17715	15'
STR SSX17716	16'
STR SSX17717	17'
STR SSX17718	18'
STR SSX17719	19'
STR SSX17720	20'

Components

STR SHX97606P	NFB Tilt Helm Kit

Xtreme QC Cables

STR SSCX6411	11'
STR SSCX6412	12'
STR SSCX6413	13'
STR SSCX6414	14'
STR SSCX6415	15'
STR SSCX6416	16'
STR SSCX6417	17'
STR SSCX6418	18'
STR SSCX6419	19'
STR SSCX6420	20'



► *Also See* Xtreme Power Assist Steering System pg 08-016

DOMETIC



Dometic
"BM" Rack & Pinion Steering Kits

- 4 turns lock-to-lock for power steered boats in which No Feed Back systems are not required
- Accepts wheels up to 16" dia
- For single station use only
- Single-cable configuration

The kit contains the following:

1- SH5210P	Helm
1- SB39526P	90 Degree Bezel Kit
1- SSC134XX	Steering Cable

Hardware & Instruction sheets

SSC154XX can be used as a replacement cable (single cable systems only).
SSC124XX old style rack cables CANNOT be used with these systems.

Applications:
SeaStar Back Mount Rack Replaces 1984-date SeaStar "The Rack" steering without dash modification. (Requires use of SSC134XX Back Mount Rack cable.) Components are available for dual cable systems, but we recommend No-FeedBack steering for all dual cable steered, non-power-assisted outboards and sterndrives.

Complete Kits

STR SS14110	10'	**STR SS14116**	16'
STR SS14111	11'	**STR SS14117**	17'
STR SS14112	12'	**STR SS14118**	18'
STR SS14113	13'	**STR SS14119**	19'
STR SS14114	14'	**STR SS14120**	20'
STR SS14115	15'	**STR SS14121**	21'

"BM" Rack & Pinion Cables

STR SSC13412	12'
STR SSC13413	13'
STR SSC13414	14'
STR SSC13415	15'
STR SSC13416	16'
STR SSC13417	17'
STR SSC13418	18'
STR SSC13419	19'
STR SSC13420	20'
STR SSC13421	21'
STR SSC13422	22'
STR SSC13423	23'



Xtreme Rack Cables

STR SSCX15414	14'
STR SSCX15415	15'
STR SSCX15416	16'
STR SSCX15417	17'
STR SSCX15418	18'
STR SSCX15419	19'
STR SSCX15420	20'
STR SSCX15421	21'
STR SSCX15422	22'



"BM" Rack & Pinion Components

SH5210



Helm

STR SH5210P Back Mount Rack Helm (Single/Dual)

SB39526P



Bezel

STR SB39526P Back Mount Bezel 90°



SA27454P

Parts

STR SB27449P	Dash Wedge Kit - 20º
STR SA27454P	Steering wheel hardware kit
STR SA39329P	Cable Guard



SA39329P

Single Tilt Dash Components

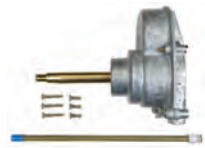
SH91800P



Include helm & mechanism to create a tilt kit.

STR SH91610P	Tilt Helm
STR SH91800P	Tilt mechanism

Dometic NFB Upgrade Helm



Upgrade to NFB with just a helm. If the boat is equiped with Teleflex Morse Safe-T QC steering, you can upgrade to No Feedback just by swapping the helm. (cable must be a quick connect type).

STR SH4910

Dometic Safe-T II NFB Bezel Kit



Kit includes a 90° bezel for SH4910 helm

STR SB27150P



Dometic
NFB Rack & NFB Pro Rack ("Back Mount" Rack) Helm

Back mount design means easy installation; helm & cable can be installed as a unit from behind dash.

- Standard 3/4" round tapered steering wheel shaft

STR SH5230P

DOMETIC

Dometic
Xtreme Power Assist Steering System -For Mechanical Steering Systems



The Xtreme Power Assist Steering is engineered to bring the smooth, easy control of electric power-assisted steering to a wide range of popular boats, including pontoons, runabouts, RIBS, aluminum fishing boats and center consoles. This is an affordable, easy-to-install solution that offers a more enjoyable driving experience.

Features:

- Significantly reduced steering effort provides a car-like driving experience for mechanically steered boats
- Fits a wide range of single engine, mechanically steered outboard boats from 90-200HP
- Does not increase the load on the mechanical steering helm or cable; the mechanical steering cable only turns the power assist unit, while the electric steering actuator turns the engine load
- Integrates with any existing Dometic SeaStar rack or rotary single cable steering system
- Plug-and-play system integrates with the boat's existing mechanical steering in less than 30 minutes
- Built in fail-safe system automatically reverts to mechanical steering in the event of a system failure
- L: 29-1/4" x W: 7-3/4" x H: 5"

STR XPA1012P 12' harness



Dometic
"JBS" Jet Boat Steering

SeaStar designed exclusively for Jet boats featuring a choice of two steering arc angles 135º or 270º lock to lock.
Recommended for use in all jet boat applications powered by Mercury Sport Jet or OMC Turbo Jet drives up to 175 HP.
NOTE - Can not be used on outboards with jet lower units.

- Ultra-compact helm with stylish 4.4" bezel is easy to install and very rugged
- 135° or 270° turning arc lock-to-lock
- Uses a special steering cable
- 90° dash mount. (Tilt Steering option available!)
- 90° or 180° cable entry into helm allows alternate cable routing. (Looking at dash, options are 9:00, 12:00 or 3:00 routing positions.)
- Built-in steering stops prevent additional cable stress in hard over positions
- Standard 3/4" round tapered steering shaft, 3.5" total allowable cable travel
- Mercury® & OMC® nozzle/gate connection kits
- Stainless steel cable output ends
- Meets A.B.Y.C./N.M.M.A. requirements
- Uses SSC219XX steering cable measured from end to end

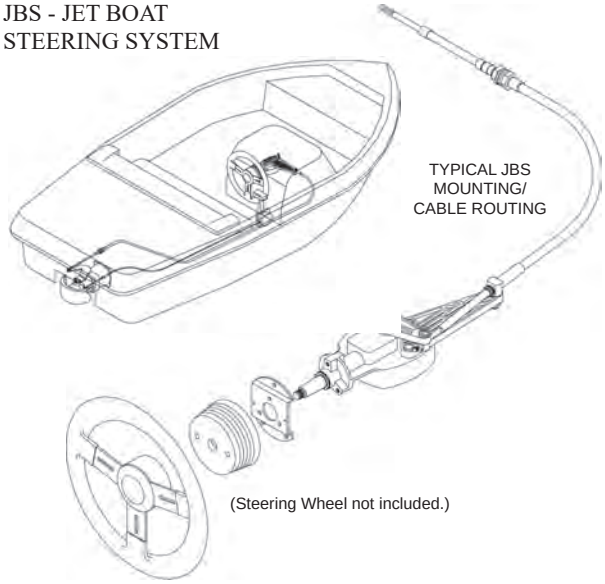
STR SH5087P 135° helm
STR SH5088P 270° helm
Option:
STR SH91692P * 270° helm, Sport Tilt mechanism included
Accessories:
STR SB39452P Bezel & mounting hardware kit
* Special Order - may have stock

Dometic
Jet Boat Cables

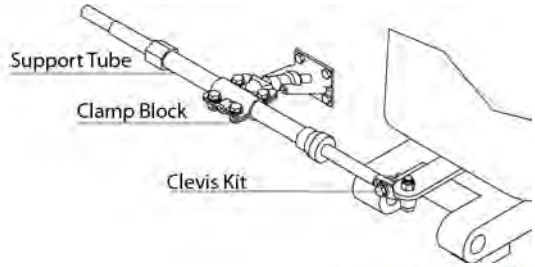


STR SSC21912	12'
STR SSC21913	13'
STR SSC21914	14'
STR SSC21915	15'
STR SSC21916	16'
STR SSC21917	17'
STR SSC21918	18'
STR SSC21919	19'
STR SSC21920	20'
STR SSC21921	21'
STR SSC21922	22'

JBS - JET BOAT
STEERING SYSTEM



Dometic
Steering Connection Kits



Clamp Blocks



- Outboards

STR SA27149P Stainless steel
STR SA27055P Corrosion resistant

Support Tubes



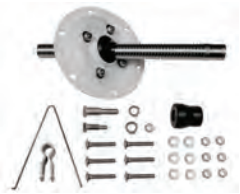
STR SA27274P Aluminum
STR SA27275P Stainless steel

Clevis Kits



STR SA27314P With short bolt
STR SA27329P With long bolt

Splashwell Mount Kit



- 15º (corrosion resistant)

STR SA27253P
STR SA37868P Rubber boot only

Splashwell Mount Kit



- 90º (corrosion resistant)

STR SA27254P
STR SA37868P Rubber boot only

Link Arm Kit



- With boot
- 1977-1984 Johnson/Evinrude 70&140 h.p. engines

STR SA27361P

QCII Helm Converter



For helms with threaded spigots. Upgrades older SeaStar rotary helms to Quick-Connect cable interface, allowing use of SSC61/SSC62 QC cables

STR SA27620P

Cable Gard



- For Most Outboards with Tilt Tube

STR SA39329P

Dometic
290 Steering Bezel



Includes wheel shaft nut, key, shaft seal, and seal plate.

STR 308559 ** 90° Bezel for 290
** While Stock Lasts

Davis Cable Buddy



Steering cable lubrication system
Includes: 7/8" x 14 thread stainless steel nut, Max-Lube, 90ml (3 oz), Filler tube

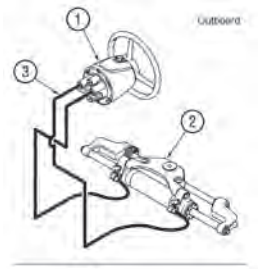
- Fits most motors
- Virtually eliminates cable wear
- Will prevent freezing to -40º

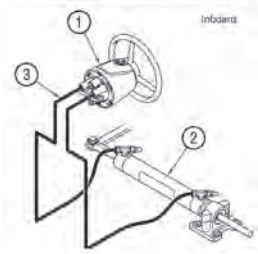
DIN 420 **
** While Stock Lasts

DOMETIC Hydraulic Steering

Our BayStar and SeaStar manual hydraulic steering systems are simple and efficient. The basic system consists of four main components;
1) the helm pump, 2) the cylinder, 3) the hose or tubing required to connect the cylinder to the helm pump, and 4) genuine SeaStar Steering Fluid.

These basic components are necessary in all applications. However, as the system variables increase (i.e.: multiple engines, rudders, steering stations, power assist and autopilots), additional components may be required.









1. THE HELM UNIT

The helm pump is an axial piston pump specifically designed for manual steering. It has a built-in lock valve to prevent the steering load from feeding back to the driver. The lock valve will not allow the rudder or drive unit to move until you move it with the steering wheel. The lock valve section of the helm also includes a relief valve. This relief valve provides over-pressure protection for mechanical components and hydraulic hoses and fittings.

2. THE CYLINDER

The most important differences between the variety of steering systems available is the cylinder selection. Both BayStar and SeaStar systems have a cylinder for most steering applications.

3. HOSES AND TUBES

Required to provide a path for the fluid to flow under pressure from the helm pump to the cylinder. SeaStar hoses are a custom multi-layered composite design, engineered specifically for our systems. They are designed to exceed SAE and ABYC specifications and provide precise steering control not achievable with hydraulic industry standard hoses. Due to performance and safety concerns, SeaStar recommends that ONLY SeaStar or SeaStar Pro hoses be used in SeaStar steering systems.

4. STEERING FLUID

Due to recent upgrades to our steering system components, SeaStar recommends use of SeaStar Steering Fluid Only in our hydraulic steering systems. SeaStar steering systems have been engineered and validated using our proprietary SeaStar Hydraulic Steering Fluid. SeaStar steering fluid is engineered with a special additive package that contains anti-foaming and anti-rust agents, anti-oxidants, viscosity stabilizers, corrosion inhibitors, wear additives as well as water emulsification adders that were formulated not to harm or degrade our components. It is highly recommended that SeaStar Steering Fluid be used to ensure optimum system performance and safety.

Which Outboard Hydraulic Steering System?

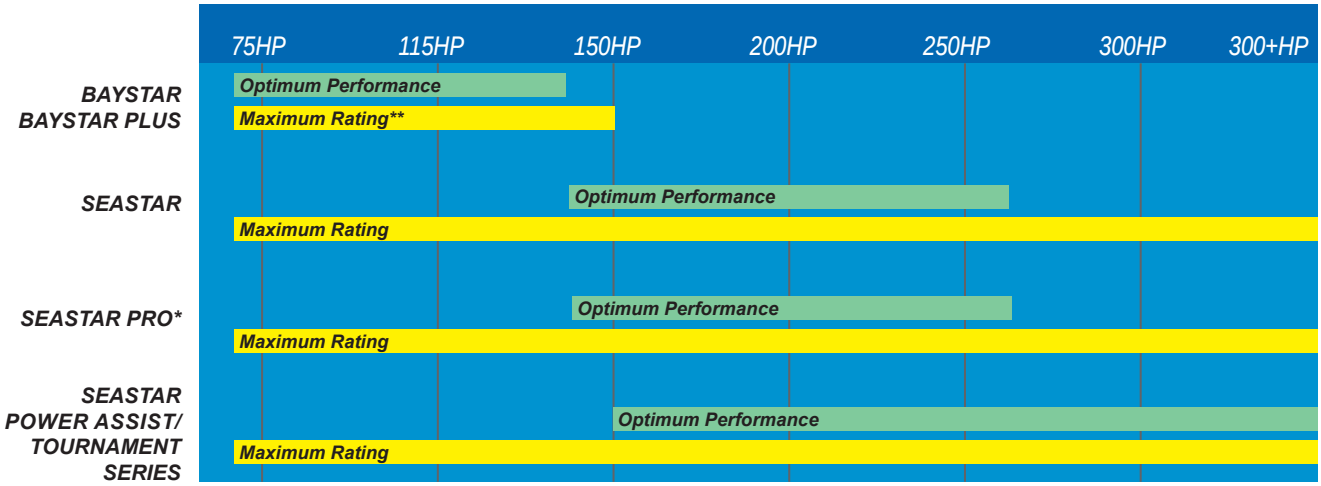


Chart based on "Optimum Comfort"
* Ideal for single engine, high speed boats, such as bass boats
** High performance 105HP engines, such as Mercury Optimax should use SeaStar

DOMETIC BayStar



Complete Systems	
BayStar Steering Kit (no tubing)	**STR HK4300-4**
COMPONENTS	
BayStar 1.4 Front Mount Helm	**STR HH4314-4**
BayStar Compact Cylinder	**STR HC4645-3**
HK4200 Tubing (2 x 20' lengths)	**STR HT4420H**
HK4230 Tubing (2 x 30' lengths)	**STR HT4430H ***
SeaStar Oil (1 Quart)	**STR HA5430 (x2)**
BayStar Filler Kit (Ships with Steering Kit)	**STR HA5438**
OPTIONS	
BayStar 1.4 - Sport Tilt Helm	**STR HH4315-4**
BayStar Compact Cylinder	**STR HC4647-3 ***
BayStar Compact Cylinder	**STR HC4648-3**
BayStar Compact Cylinder	**STR HC4658-3 ***
SeaStar Hose Kit (2 hoses) - see Note below	**STR HO51xx**
SERVICE ITEMS	
Helm Service Kit Comes with wheel shaft nut, key, shaft seal & seal plate	**STR HP6032**
Cylinder Support Rod Kit (ships with 2 rods, nut and clip)	**STR HP6050 ***
Cylinder Tee/Bleeder Fitting *HC4645H series	**STR HF4202**
Cylinder Tiller Bushing Kit	**STR HA5820**
NOTE: SeaStar Outboard Steering hoses (Part No. HO51xx) can be used to plumb a BayStar Steering System and provide 20% less effort.	

* Special Order



WE RECOMMEND

The use of Dometic SeaStar Steering Fluid ONLY in our hydraulic steering systems

See Page 08-037

► *Also See* Hose Kits pg 08-037

For a complete list of all available items Ask for a Dometic Ride & Handling Catalogue

BAYSTAR STEERING KIT:

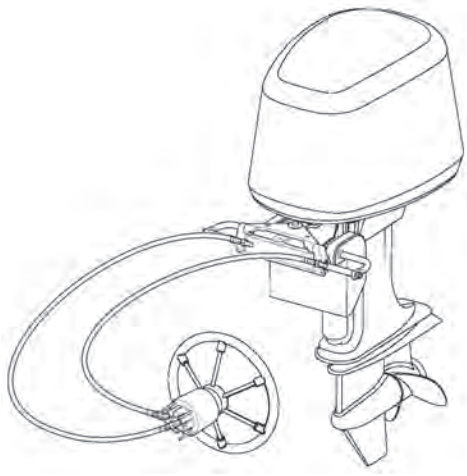
With mechanical steering you sacrifice a degree of comfort. Traditional hydraulic systems may be more than is needed on lower horsepower outboard engines. Built in the tradition of SeaStar, BayStar brings the same efficiency and durability you would expect from Dometic Hydraulic steering to smaller outboards up to 150 HP. Compact form and affordable price make it an ideal upgrade for mechanically steered boats.

APPLICATIONS:

BayStar is for outboard powered boats, including runabouts and inflatables with outboard engines up to 150 HP. For single station, single engine use only. BayStar is not intended for high speed, high performance type boats, such as Bass Boats.

FEATURES:

- Designed for smaller outboards up to 150 HP.
- Low friction hydraulic steering system.
- 5 turns from lock-to-lock.
- Balanced cylinder, featuring a compact design that fits most splashwells and provides full engine movement.
- Optional five position tilt helm available.
- Compact helm has only a 5" footprint; needs only 3" dash hole (standard or Tilt).
- Packaged complete with helm, cylinder, fittings, tubing, oil, fill kit and detailed instructions.
- Standard 3/4" tapered steering shaft.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.



DOMETIC BAYSTAR SINGLE ENGINE APPLICATION GUIDE: CYLINDERS (HC4645-3/47-3/48-3/58-3)

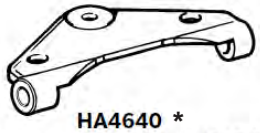
ENGINE MAKER/BRAND	YEAR	MODEL	CYLINDER PART NUMBER	NOTES
HONDA	1992–DATE	30-50 HP 4-Stroke	**STR HC4645-3**	See Note 2
	1996-DATE	75-90 HP 4-Stroke	**STR HC4645-3**	
	2015-DATE	100 HP 4-Stroke	**STR HC4645-3**	
	1998-2010	115-130 HP 4-Stroke	**STR HC4647-3 ***	
	2003–DATE	135-150 HP 4-Stroke	**STR HC4645-3**	
	2010–DATE	115 HP 4-Stroke	**STR HC4645-3**	
JOHNSON / EVINRUDE Note: Johnson 115 HP 2-stroke engines require that **the cylinder's pivot be flipped. See note #4 below.**	1991–DATE	40-150 HP inc. E-Tec	**STR HC4645-3**	See Note 2
	1997–DATE	115 HP Ficht	**STR HC4658-3 ***	See Note 4
	2017–DATE	75-150 HP Ficht	**STR HC4645-3**	See Note 5
	1998–DATE	40-140 HP 4-Stroke	**STR HC4658-3 ***	See Notes 1, 2, 4
MERCURY/MARINER	1984–DATE	75-150 HP	**STR HC4645-3**	See Note 5
	1998–2007	40-60 HP 2-Stroke	**STR HC4648-3**	See Note 1, 2
	2008–DATE	40 HP 4-Stroke	**STR HC5348-3**	See Note 1
	2008–DATE	60 HP 4-Stroke	**STR HC4645-3**	See Note 2
SELVA	2000-DATE	25-70 HP 4-Stroke	**STR HC4648-3**	See Notes 1, 2
	2000-DATE	90-150 HP 4-Stroke	**STR HC4645-3**	See Note 5
	2011-2013	115 HP 4-Stroke	**STR HC4658-3 ***	
SUZUKI	1986–DATE	150 HP 2-Stroke	**STR HC4645-3**	See Note 5
	1987–2002	115-140 HP 2-Stroke	**STR HC4645-3**	See Note 1
	1990–2000	90-100 HP 2-Stroke	**STR HC4645-3**	
	1998–DATE	40-70 HP 4-Stroke	**STR HC4645-3**	See Notes 1, 2
	2001–DATE	90-140 HP 4-Stroke	**STR HC4658-3 ***	See Notes 1, 4
TOHATSU	1990–DATE	40-140 HP 2-Stroke	**STR HC4645-3**	See Note 2
	2014-DATE	60-150 HP 4-Stroke	**STR HC4645-3**	
YAMAHA	1998–DATE	40-50 HP 2-Stroke	**STR HC4645-3**	See Note 2
	1998–DATE	60 HP 2-Stroke	**STR HC4645-3**	See Note 3
	1986–DATE	70-90 HP 2-Stroke	**STR HC4645-3**	See Note 1
	1997–DATE	80-150 HP 4-Stroke	**STR HC4645-3**	See Note 5
	2000–DATE	25-70 HP 4-Stroke	**STR HC4648-3**	See Notes 1, 2
	2011–2014	90-115 HP inc. A Series	**STR HC4658-3 ***	
	2014-DATE	90-115 HP inc. B Series	**STR HC4645-3**	

NOTES:
1. Requires Spacer Kit Part No. HO5090
2. Engine clamp brackets must be cut or ground, and the engine through bolted onto the transom, or interference will occur, restricting engine trim and tilt
3. Steering hook Yamaha Part No. 63D-48511-00-4D must be installed
4. Cylinder HC4645-3 may be used in these applications. The pivot plate will need to be flipped before installation. Instructions provided with Owner's Manual
5. High performance 150HP engines and any engine using a 4-3/4" gear case such as Command Thrust MUST use SeaStar

* Special Order

NOTICE!

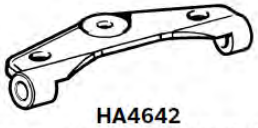
HC4645-3 compact cylinder is included in the BayStar Steering kits. If your engine requires the use of a cylinder other than HC4645-3 or HC4658-3 then please refer to the figure below for additional replacement pivot plate, sold separately unless otherwise noted.



HA4640 *
Comes with cylinder HC4645-3



HA4641 *
Converts HC4645-3 to HC4647-3



HA4642
Converts HC4645-3 to HC4648-3



HA4643 *
Converts HC4645-3 to HC4658-3

DOMETIC SeaStar



COMPLETE SYSTEMS	
SeaStar 1.7 Steering Kit (no Hoses)	**STR HK6400-4**
SeaStar 1.7 Tilt Steering Kit (Classic)	**STR HK6400TC-3**
COMPONENTS	
SeaStar 1.7 - Front Mount Helm	**STR HH5271-4**
Pivot Mount Outboard Cylinder (Black)	**STR HC5345-3**
Pivot Mount Outboard Cylinder (Black) Commercial Grade (See Note 3)	**STR HC5345-3CM**
SeaStar Hose Kit (2 hoses) (Not included in HK6400A-3)	**STR HO51xx**
SeaStar Oil (1 Quart)	**STR HA5430 (x2)**
OPTIONS	
SeaStar 1.7 - Front Mt. Commercial Helm (See Note 1)	**STR HH5217-4**
SeaStar 1.7 - Rear Mount Helm	**STR HH5261-4**
SeaStar 1.7 - Sport Tilt Helm	**STR HH6191-4**
SeaStar 1.7 - Classic Tilt Helm	**STR HH6541-4**
SeaStar 1.7 - Sport Plus Tilt Helm	**STR HH6491-4 ***
SeaStar 2.4 - Front Mount Helm	**STR HH5272-4**
SeaStar 2.4 - Front Mt. Commercial Helm	**STR HH5224-4 ***
SeaStar 2.4 - Sport Tilt Helm	**STR HH6192-4 ***
SeaStar 2.4 - Classic Tilt Helm	**STR HH6542-4**
Power Assist, 15' Harness	**STR PA1200-3**
SeaStar Round Bezel Kit (See Note 2)	**STR HA5478 ***
SeaStar Backplate Kit	**STR HA5418**
SeaStar 20° Dash Wedge Kit	**STR HA5419**
SeaStar Bulkhead Hose Kit (2 hoses)	**STR HO81xx**
SeaStar Twin Engine Tie Bar Kit	**STR HO6xxx**
Add-A-Station/Autopilot Fitting Kit	**STR HF6007**

* Special Order

NOTES:
1. The Commercial Helm Pumps are designed with a stainless steel shaft and heavy duty shaft seal and wiper
2. Use for helms dated 2008-Earlier
3. Includes high grade stainless steel shaft with surface treatment, and end glands equipped with metal scrapers

► *Also See* Hose Kits pg 08-037

SEASTAR STEERING (FRONT MOUNT PIVOT CYLINDER) SYSTEM:

Unmatched comfort and control. Only with SeaStar steering. The world's most popular outboard hydraulic system offers smooth, super-efficient steering for today's high performance hulls with single or multiple outboards up to 600 HP combined. It's the OEM Choice for center consoles, cruisers and more.

APPLICATIONS:

Single and dual non-power-assisted outboard engines up to 350 HP (600 combined HP for counter-rotating duals) that have ABYC standard engine tilt tube.

Ideal for cruisers, runabouts, center console boats, offshore fishing boats and many more. Suitable for speeds up to 60 MPH and dual station use (with purchase of extra helm, hose & fittings). Allows independent engine tilt in dual engine installations. Dual engines require purchase of a tie bar kit and extra hardware.

FEATURES:

- Patented steering lock valves.
- Low friction hydraulic steering system.
- 5 turns from lock-to-lock (single cylinder) when using 1.7 helms.
- Compact helm has only a 4-7/16" footprint; needs only 3" dash hole (Tilt requires larger dash cut out).
- Packaged complete with helm, cylinder, fittings, oil, bleeder kit and detailed instructions.
- Standard 3/4" tapered steering shaft.
- Fast, easy installation.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.

SERVICE ITEMS	
Helm service kit	**STR HP6032**
Pivot Cylinder support bracket kit	**STR HP6014 ***
Pivot Cylinder Spacer Kit	**STR HP6033**
Pivot Cylinder elbow hose fitting kit (for -3 cylinders only)	**STR HF6004**
Pivot Cylinder mounting hardware kit	**STR HP6036 ***
Pivot Cylinder tiller bushing kit	**STR HA5829 ***
Pivot Cylinder seal kit, with wrench	**STR HS5157**
Pivot Cylinder seal kit, without wrench	**STR HS5167**

* Special Order



WE RECOMMEND

The use of Dometic SeaStar Steering Fluid ONLY in our hydraulic steering systems

See Page 08-037

SINGLE ENGINE APPLICATION GUIDE:

ENGINE MAKE	YEAR	MODEL	CYLINDER	NOTES
Cox Marine	2022 TO DATE	300 HP Diesel	**STR HC5358-3**	
Honda	1996 TO DATE	60-90 HP 4-Stroke	**STR HC5345-3**	
	1998 TO 2009	115-130 HP 4-Stroke	**STR HC5347-3 ***	
	1998 TO DATE	30-50 HP 4-Stroke	**STR HC5345-3**	See Note 1
	2001 TO DATE	150 HP 4-Stroke	**STR HC5345-3**	See Note 3
	2001 TO DATE	200-250 HP 4-Stroke	**STR HC5445-3 ***	
	2003 TO DATE	135 HP 4-Stroke	**STR HC5345-3**	
	2011 TO DATE	115 HP 4-Stroke	**STR HC5345-3**	
	2015 TO DATE	100 HP 4-Stroke	**STR HC5345-3**	
Johnson / Evinrude	1991 TO DATE	40-300 HP 2-Stroke	**STR HC5345-3**	Inc. ETech Engines
	1997 TO DATE	75-300 HP Ficht	**STR HC5345-3**	
	1998 TO DATE	40-140 HP 4-Stroke	**STR HC5358-3**	See Note 1
	2000 TO 2003	115 HP Ficht	**STR HC5358-3**	See Note 1
	2002 TO DATE	200-225 HP 4-Stroke	**STR HC5345-3**	
	2007 TO DATE	3.3L V6 200-250 HP	**STR HC5345-3**	Inc. H.O. Models.
Mercury	1989 TO DATE	75-300 HP 2-Stroke	**STR HC5345-3**	
	1998 TO 2007	30-60 HP 4-Stroke	**STR HC5348-3**	See Note 1
	2003 TO DATE	150-200 HP Verado	**STR HC5345-3**	
	2004 TO DATE	115-300 HP XS	**STR HC6345-3**	
	2008 TO DATE	60 HP 4-Stroke	**STR HC5345-3**	
	2017 TO DATE	175-225 HP 3.4L V6 4-Stroke	**STR HC5345-3**	See Note 2
	2018 TO DATE	250-300 HP 4.6L V8 4-Stroke	**STR HC5345-3**	See Note 2
OXE	2017 TO DATE	200 HP Diesel L4 2.4L	**STR HC5345-3**	
	2020 TO DATE	300 HP Diesel	**STR HC5345-3**	
SELVA	2000-2013	90-115 HP 4-Stroke	**STR HC5348-3**	
	2000 TO DATE	150 HP 4-Stroke	**STR HC5345-3**	
	2007 TO DATE	200-300 HP 4.2L V6	**STR HC5345-3**	
	2014 TO DATE	115 HP 4-Stroke	**STR HC5345-3**	
Suzuki	1986-2000	100 HP 2-Stroke	**STR HC5345-3**	
	1986 TO 2002	115-140 HP 2-Stroke	**STR HC5345-3**	**NOT 1996**
	1986-2013	150-225 HP 2 & 4-Stroke	**STR HC5345-3**	
	1998 TO DATE	40-140 HP 4-Stroke inc. A Series	**STR HC5358-3**	See Note 1
	2004 TO DATE	200-300 HP 3.6 4.0L V6	**STR HC5358-3**	
	2013 TO DATE	150-200 HP 4 Cylinder	**STR HC5345-3**	
	2017 TO DATE	300-350 HP Duoprop 4.4L	**STR HC5358-3**	See Note 4
	2020-DATE	115-140 HP B Series	**STR HC5358-3**	
TOHATSU	1990 TO DATE	40-140 HP 2-Stroke	**STR HC5345-3**	
	2014 TO DATE	60-150 HP 4-Stroke	**STR HC5345-3**	
	2014 TO DATE	200-250 HP 4-Stroke	**STR HC5445-3 ***	
Yamaha	1986 TO DATE	100-300 HP 2-Stroke	**STR HC5345-3**	
	1990 TO 2003	40-90 HP 2-Stroke	**STR HC5345-3**	See Note 1
	1997 TO DATE	80-250 HP 4-Stroke	**STR HC5345-3**	
	2000 TO DATE	150-300 HPDI	**STR HC5345-3**	
	2003 TO DATE	25-70 HP 4-Stroke	**STR HC5348-3**	See Note 1
	2007 TO DATE	200-300 HP 4.2L V6 4-Stroke	**STR HC5345-3**	
	2007 TO DATE	300-350 HP 5.3 V8	**STR HC5345-3**	See Note 3
	2011 TO 2014	90-115 HP inc A Series	**STR HC5358-3**	
	2012 TO DATE	150-200 HP 2.8L 4 Cylinder	**STR HC5345-3**	
	2014 TO DATE	90-115 HP inc B Series	**STR HC5345-3**	

NOTES:
1. Requires Spacer Kit Part No. HO5090
2. PRO XS MUST use HC6345-3
3. Optional cylinder part # HC5358-3. Slight interference may occur when using the HC5358-3, with the engine in the full tilt position
4. Must use PA1200-2HP

* Special Order

NOTICE
Front mount cylinder part # HC5345-3 is included in the SeaStar outboard steering kits HK6400A-3 / HK63xxA-3. If your engine requires the use of a cylinder other than the HC5345-3 you will need to purchase the individual components (helm, cylinder, hoses, etc.) separately. Dometic recommends the use of SeaStar PRO kevlar steering hoses with SeaStar PRO helms.

TWIN ENGINE APPLICATION GUIDE:

ENGINE MAKE	YEAR	MODEL	CYLINDER	TIE BAR KITS		NOTES
				Twin Engine Single Cyl.	Twin Engine Dual Cyl.	
Cox	2022 TO DATE	300 HP Diesel	**STR HC5358-3**	-	**STR HA5520**	
Honda	1996 TO DATE	60-90 HP 4-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	See Note 3
	1998 TO 2009	115-130 HP 4-Stroke	**STR HC5347-3***	-	-	
	1998 TO DATE	30-50 HP 4-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	See Note 2
	2001 TO DATE	150 HP 4-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	See Note 5
	2001 TO 2022	200-250 HP 4-Stroke	**STR HC5445-3***	**STR HO6001**	**STR HO6002**	See Note 8
	2003 TO DATE	135 HP 4-Stroke	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	
	2011 TO DATE	115 HP 4-Stroke	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	
	2015 To DATE	100 HP 4-Stroke	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	See Note 4
Johnson / Evinrude	1991 TO DATE	40-300 HP 2-Stroke	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	Inc. ETech Engines
	1997 TO DATE	75-300 HP Ficht	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	
	1998 TO DATE	40-140 HP 4-Stroke	**STR HC5358-3**	**STR HO6003**	**STR HO6002**	See Note 2
	2000 TO 2003	115 HP Ficht	**STR HC5358-3**	**STR HO6003**	**STR HO6002**	See Note 2
	2002 TO DATE	200-225 HP 4-Stroke	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	
	2005 TO DATE	250 HP DPX Vindicator	**STR HC5348-3**	**STR HO6003**	**STR HO6002**	
	2007 TO DATE	200-250 HP 3.3L V6	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	Inc. H.O. Models.
Mercury	1989 TO DATE	75-300 HP 2-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	See Note 3
	1996 TO DATE	75-200 HP 2 & 4-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	See Note 5
	1998 TO 2008	40-60 HP 2 & 4-Stroke	**STR HC5348-3**	**STR HO6001**	**STR HO6002**	See Note 2
	2002 TO 2003	225HP 4-Stroke	**STR HC5358-3**	**STR HO6001**	**STR HO6002**	See Note 1
	2003 TO DATE	150-200 HP PRO XS	**STR HC6345-3**	**STR HA5522**	**STR HA5520**	
	2003 TO DATE	250-300 HP XS	MUST Use Tournament Cylinders.			
	2004 TO DATE	150-200 HP Verado	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	2008 TO DATE	60 HP 4-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	2016 TO DATE	115-150 HP 2.1/3.0L 4-Stroke	**STR HC5345-3**	**STR HA5522**	**STR HA5520**	See Note 6
	2017 TO DATE	175-225 HP 3.4L V6 4-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	2018 TO DATE	250-300 HP 4.6L V8 4-Stroke	**STR HC5345-3**	**STR HA5521**	**STR HA5520**	See Note 6
OXE	2017 TO DATE	200HP Diesel L4 2.4L	MUST Use Tournament Cylinders.			
	2020 TO DATE	300 HP Diesel				
Suzuki	2002 TO DATE	90-140 HP 4-Stroke inc A Series	**STR HC5358-3**	**STR HO6003**	**STR HO6002**	See Note 2
	2004 TO DATE	200-300 HP 3.6 4.0L V6	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	2013 TO DATE	150-200 HP 4-Stroke 4 Cylinder	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	2017 TO DATE	325-350 HP 4.4L V6	MUST Use Tournament Cylinders. See Note 7			
	2020 TO DATE	115-140 HP B Series	MUST Use Tournament Cylinders.			
Yamaha	1986 TO DATE	100-300 HP 2-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	1990 TO 2007	40-90 HP 2-Stroke	**STR HC5345-3**	**STR HO6003**	**STR HO6002**	
	2000 TO DATE	150-300 HPDI	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	2001 TO 2003	80-250 HP 4-Stroke	**STR HC5358-3**	**STR HO6001**	**STR HO6002**	See Note 1
	2003 TO DATE	150-250 HP 3.3L	**STR HC5358-3**	**STR HO6001**	**STR HO6002**	
	2003 TO DATE	25-70 HP 4-Stroke	**STR HC5348-3**	**STR HO6003**	**STR HO6002**	See Note 3
	2007 TO DATE	200-300 HP 4.2L V6 4-Stroke	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	
	2007 TO DATE	300-350 HP 5.3 V8	MUST Use Tournament Cylinders.			
	2011 TO 2014	90-115 HP inc A Series	**STR HC5358-3**	**STR HO6003**	**STR HO6002**	
	2014-DATE	90-115 HP inc B Series	**STR HC5345-3**	**STR HO6001**	**STR HO6002**	

NOTES:
1. HC5345-3 is optional for SINGLE ENGINE ONLY applications. Do not use HC5345-3 for twin engine applications as operational interference may occur
2. Requires Kit HO5090
3. Minimum Engine Centre = 27"
4. Customer supplied S/S washer must be installed under rod end
5. Slight interference may occur with HO6001 tie bar, contact Seastar technical support
6. Refer to Tournamet Series Cylinders page for bar part number
7. Must use PA1200-2HP
8. Mid 2022 change 2023 uses HC5345-3

* Special Order

NOTICE
HO6001, HO6002, and HO6003 are for engine centres up to 36".

DOMETIC SeaStar PRO



COMPLETE SYSTEMS	
SeaStar Pro Steering System, no hoses	**STR HK7500-4 ***
COMPONENTS	
SeaStar PRO 2.0 - Front Mount Helm	**STR HH5770-4**
Pivot Mt. Cylinder - PRO (Black)	**STR HC6345-3**
SeaStar PRO Hose Kit (2 hoses)	**STR HO57xx**
SeaStar Oil (1 Quart)	**STR HA5430 (x2)**
OPTIONS	
SeaStar PRO 1.7 - Front Mount Helm	**STR HH5779-4 ***
SeaStar PRO 2.0 - Sport Tilt Helm	**STR HH6190-4 ***
SeaStar PRO 2.0 - Classic Tilt Helm	**STR HH6574-4 ***
SeaStar PRO 2.4 - Front Mount	**STR HH5772-4 ***
Pro Power Assist	**STR PA1200-3**
SeaStar Round Bezel Kit	**STR HA5478***
SeaStar Backplate Kit	**STR HA5418**
SeaStar 20° Dash Wedge Kit	**STR HA5419**
PRO Bulkhead Hose Kit (2 hoses)	**STR HO82xx ***
SERVICE ITEMS	
Helm Service Kit (Comes with wheel shaft nut, key, shaft seal & seal plate)	**STR HP6032**

* Special Order

► *Also See* Hose Kits pg 08-037

SEASTAR PRO STEERING (FRONT MOUNT CYLINDER) SYSTEM:

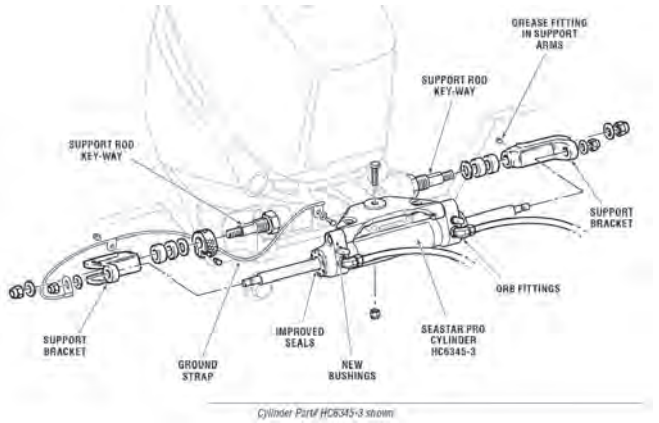
The ultimate steering for high speed single outboards, SeaStar PRO, is designed for the high speed and performance of today's top-end bass boats. Recommended for single outboards up to 350 HP (even with jackplates and performance props), SeaStar PRO has steered the BASS Masters Classic since 1994 and it's the choice of high performance outboard boatbuilders.

APPLICATIONS:

SeaStar PRO is for high-performance boats with single non-power-assisted outboards up to 300 HP, especially those capable of speeds over 60 MPH, which demand maximum steering control and comfort. It is suitable for use with high-performance propellors and jack plates.

FEATURES:

- Patented steering lock valves.
- Low friction hydraulic steering system.
- 4.25 turns from lock-to-lock.
- Compact helm has only a 4-7/16" footprint - needs only 3" dash hole (Tilt requires larger hole).
- PRO Cylinders have longer shaft bushings and larger pivot bushings for an even more solid feel!
- Optional hoses with through-bulkhead fittings; multiple helm mounting options
- Factory swaged hoses are Kevlar reinforced.
- Packaged complete with helm, cylinder, fittings, oil, bleeder kit and detailed instructions.
- Standard 3/4" tapered steering shaft.
- Fast, easy installation.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.



Cylinder Part# HC6345-3 shown

SEASTAR PRO APPLICATION GUIDE

MFG	YEAR	MODEL	CYLINDER	NOTES
HONDA	2001-DATE	150-250 HP 4-Stroke	**STR HC6345-3**	HA5472 stoke limit kit must be used when using on 200-250 HP 4-Stroke (pre 2023 only)
JOHNSON/ EVINRUDE	2002-DATE	150-250 HP 4-Stroke	**STR HC6345-3**	
	2003-DATE	150-300 HP ETech	**STR HC6345-3**	
	2005-DATE	250 HP DPX Vindicator	**N/A**	
MERCURY	1989-DATE	150-300 HP 2-Stroke, 4-Stroke and XS Engines including 4.6L V8	**STR HC6345-3**	
SUZUKI	1986-DATE	150-300 HP 2 and 4-Stroke	**STR HC6345-3**	Includes all 4-Stroke models.
YAMAHA	1986-DATE	150-350 HP 2 and 4-Stroke	**STR HC6345-3**	

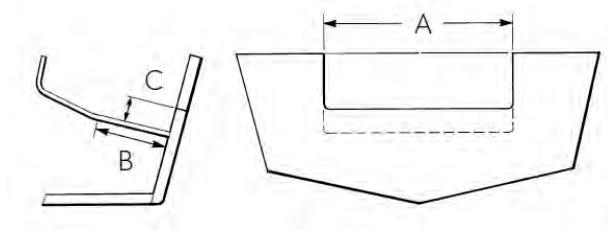
NOTE
The HC6345-3 cylinder has the same fitment as the HC5345-3. If your engine is not listed, check the Single Engine Application Guide for compatibility.

WARNING
SeaStar Pro steering helms can not be used with an unbalanced steering cylinder.

MOTOR WELL DIMENSIONS - Required for front mount outboard steering

# of Engines	A	B	C	Min. engine centre distance	Max transom thickness
1	22"	6"	5"	N/A	3"
2	49"	6"	5"	26"	3"

NOTES:
A) Dimensional restrictions also apply to external motor mount brackets
B) Maximum engine centre distance for twin engine applications is 36" using the standard tie bar. Dimension 'A' would have to be increased proportional to the tie bar length
C) Minimum engine centre distance is 26" unless engine manufacturer recommendation is greater
D) Splashwells of less than 30" in overall width may require engine removal in order to install and service the support rod



DOMETIC SeaStar



CYLINDERS	
Front Mount	**STR HC6845**
Front Mount, c/w Single Engine Hardware Kit	**STR HC6845S ***
TIE BARS	
Small	**STR HO6820 ***
Medium	**STR HO6821**
Large	**STR HO6822**
X-Large	**STR HO6823**
HARDWARE KITS	
Twin Engine, Single Cylinder STBD	**STR HA6802**
Twin Engine, Dual Cylinder	**STR HA6804**
Triple Engine, Dual Cylinder	**STR HA6806 ***
Quad Engine, Dual Cylinder	**STR HA6811 ***

* Special Order

SEASTAR TOURNAMENT SERIES CYLINDERS AND ADJUSTABLE TIE BAR:

For multi-engine boats, these high performance cylinders are designed with professional fishermen in mind.

APPLICATIONS:

Extreme heavy duty cylinders and tie bars designed for primarily high performance multiple engine applications. Also available for single engine applications.

FEATURES:

- Suitable for use with all SeaStar Helms & SeaStar Power Assist
- Heavy duty universal cylinder
- Bolt on stainless steel tie bar plates, also reversible
- Robust design with heavy duty support brackets, barrel, shaft, & seals
- Superior corrosion resistance
- New pivot plate design provides smooth articulation and a sealed joint
- Heavy duty adjustable tie bar
- Equipped with stainless steel adjustable o-ring sealed elbow fittings which can be easily orientated in any direction

APPLICATION GUIDE: TOURNAMENT SERIES CYLINDERS & TIE BARS

CONFIGURATION	CYLINDER		HARDWARE KIT		TIE BAR				NOTES
	PART NO	QTY	PART NO	QTY	PART NO	QTY	CENTER TO CENTER (IN.)	CENTER TO CENTER (mm)	
Single Engine	**STR HC6845S ***	1	Included	-	-	N/A	N/A	N/A	1
Twin Engine - Single Cylinder (STBD)	**STR HC6845**	1	**STR HA6802**	1	**STR HO6821**	1	25.0 - 25.6	635 - 650	1,3,4,5 HA6802 Drive Bracket Availability - TBD
					STR HO6822		25.7 - 30.6	653 - 777	
					STR HO6823		30.7 - 39.0	780 - 991	
Twin Engine - Dual Cylinder	**STR HC6845**	2	**STR HA6804**	1	**STR HO6820 ***	1	25.0 - 26.5	635 - 673	1,3,4,5
					STR HO6821		26.6 - 29.3	676 - 744	
					STR HO6822		29.4 - 34.2	747 - 869	
					STR HO6823		34.3 - 43.0	871 - 1092	
Triple Engine - Dual Cylinder	**STR HC6845**	2	**STR HA6806 ***	1	**STR HO6822**	2	25.0 - 27.9	635 - 709	1-5 Maximum drop: ≤ 3" (76mm)
					STR HO6823		28.0 - 36.0	711 - 914	
Quad Engine - Dual Cylinder	**STR HC6845**	2	**STR HA6811 ***	1	Consult SeaStar technical service				1,3,4,5
Quintuplet Engine (Plus)	Consult SeaStar Solutions technical service								1,3,4,5

NOTES:
1. Installation may vary according to the following factors: engine mounting height, transom thickness, use of transom savers, tiller bolt hole location, engine tilt range, and engine size
2. For centre engine drops greater than 3" (76mm), please consult SeaStar Solutions Technical Service
3. Tie bar length may vary depending on toe in/toe out setup. To allow for toe, add or subtract from your nominal engine centre to centre distance
4. Based on recommended engine manufacturer minimum centre to centre distances. Deviating from these recommendations may require stroke limiting cylinders and/or engine tilt limiting, please consult SeaStar Solutions Technical Service
5. Cylinders must be plumbed in parallel only, no series connections. Only exception is if cylinders are utilizing a liquid tie bar.

* Special Order

IMPORTANT
Each configuration requires a hardware kit and tie bar kit(s), with the exception of the single engine configuration.

NOTE
The Kicker Cable Tiebar will ONLY work with SeaStar HC5345, HC5358, and HC5348 steering cylinders.

DOMETIC SeaStar



COMPLETE SYSTEMS	
System components sold separately. See application and ordering guides to select appropriate components.	
COMPONENTS	
SeaStar 1.7 Helm	**STR HH5271-4**
Side Mount Outboard Cylinder	**STR HC5370-3**
Hose Kit (2 hoses)	**STR HO51xx**
SeaStar Oil (1 Quart Mil Spec H5006)	**STR HA5430**
OPTIONS	
SeaStar 1.7 - Front Mount Commercial Helm (stainless steel shaft/robusst shaft seal area)	**STR HH5217-4**
SeaStar 1.7 - Rear Mount Helm	**STR HH5261-4**
SeaStar 1.7 - Sport Tilt Helm	**STR HH6191-4**
SeaStar 1.7 - Classic Tilt Helm	**STR HH6541-4**
SeaStar 2.4 - Front Mount Helm	**STR HH5272-4**
SeaStar 2.4 - Front Mount Commercial Helm	**STR HH5224-4 ***
SeaStar 2.4 - Sport Tilt Helm	**STR HH6192-4 ***
SeaStar 2.4 - Classic Tilt Helm	**STR HH6542-4**
Power Assist, 15' Harness	**STR PA1200-3**
SeaStar Round Bezel Kit	**STR HA5478 ***
SeaStar Backplate Kit	**STR HA5418**
SeaStar 20° Dash Wedge Kit	**STR HA5419**
SeaStar Bulkhead Hose Kit (2 hoses)	**STR HO81xx**
SeaStar Twin Engine Tie Bar Kit	**STR HO5009**
Add-A-Station/Autopilot Fitting Kit	**STR HF6007**
SERVICE ITEMS	
Cylinder seal kit	**STR HP6088 ***
Cylinder tee/bleeder hose fitting	**STR HF6002 ***
Extension rod/pin kit	**STR HP6055 ***

* Special Order

SEASTAR OUTBOARD STEERING (SIDE MOUNT CYLINDER) SYSTEM:

A great alternative for wide, shallow splashwells. SeaStar side mount steering is a good choice for engines with threaded tilt tubes that comply with ABYC P17/NMMA/BIA standards for mechanical steering. The cylinder attaches to an engine tilt tube which meets the above standards.

APPLICATIONS:

Single and dual non-power-assisted outboard engines up to 300 HP (600 combined HP for counter-rotating duals) that have standard engine tilt tube. Suitable for speeds up to 60 MPH and dual station use (with purchase of extra helm, hose & fittings). Dual engines require purchase of a tie bar kit and extra hardware. For power steered engines, contact SeaStar Technical Service

FEATURES:

- Drag link design fits most engines with threaded tilt tubes. Fast, easy installation
- Alternative to front mount cylinder where space allows, especially useful in boats with shallow splashwells
- Suitable for use on engines with power steering
- 4.8/5.7 turns lock-to-lock using SeaStar 1.7 helm (unbalanced cylinder)
- Compact helm has only a 4-7/16" footprint -needs only 3" dash hole (Tilt requires larger hole)
- Standard 3/4" tapered steering shaft
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.



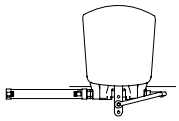
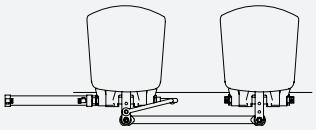
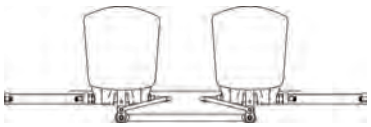
WE RECOMMEND

The use of Dometic SeaStar Steering Fluid ONLY in our hydraulic steering systems

See Page 08-037

► *Also See* Hose Kits pg 08-037

ORDERING GUIDE: SIDE MOUNT SYSTEMS

ENGINE/CYLINDER CONFIGURATION	COMPONENT DESCRIPTION	QTY. REQ'D	MODEL	PART NO
SINGLE ENGINE (SINGLE CYLINDER) Applications up to 300 HP maximum NUMBER OF TURNS: 4.8/5.7 	CYLINDER	1	SIDE MOUNT	**STR HC5370-3**
	HELM	1	SEASTAR 1.7	**STR HH5271-4**
	HOSE KIT	1	OUTBOARD HOSE	**STR HO51xx**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
	FOR EXTRA STEERING STATION ADD:			
	HELM	1	SEASTAR 1.7	**STR HH5271-4**
	FITTING KIT	1	ADD A STATION	**STR HF6007**
	HOSE KIT	1	OUTBOARD HOSE	**STR HO51xx**
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
DUAL ENGINE (SINGLE CYLINDER) Non-Counter-Rotating Applications to 300 HP max; Counter-Rotating Applications to 600 HP maximum. NUMBER OF TURNS: 4.8/5.7 	CYLINDER	1	SIDE MOUNT	**STR HC5370-3**
	TIE BAR KIT	1	TIE BAR ONLY	**STR HO5009**
	HELM	1	SEASTAR 1.7	**STR HH5271-4**
	HOSE KIT	1	OUTBOARD HOSE	**STR HO51xx**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
	FOR EXTRA STEERING STATION ADD:			
	HELM	1	SEASTAR 1.7	**STR HH5271-4**
	FITTING KIT	1	ADD A STATION	**STR HF6007**
	HOSE KIT	1	OUTBOARD HOSE	**STR HO51xx**
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
DUAL ENGINE (DUAL CYLINDERS) Non-Counter-Rotating Applications to 600 HP max; All Counter-Rotating Engine Applications NUMBER OF TURNS: 7.5 	CYLINDER	2	SIDE MOUNT	**STR HC5370-3**
	TIE BAR KIT	1	TIE BAR ONLY	**STR HO5009**
	HELM	1	SEASTAR 2.4	**STR HH5272-4**
	HOSE KIT	3	OUTBOARD HOSE	**STR HO51xx**
	FITTING KIT	1	TEE FITTINGS	**STR HF5530**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
	FOR EXTRA STEERING STATION ADD:			
	HELM	1	SEASTAR 2.4	**STR HH5272-4**
	FITTING KIT	1	ADD A STATION	**STR HF6007**
	HOSE KIT	1	OUTBOARD HOSE	**STR HO51xx**
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
OPTIONAL EQUIPMENT	BACK PLATE KIT		(FOR STANDARD HELMS)	**STR HA5418**
	20 DEGREE WEDGE		(FOR STANDARD HELMS))	**STR HA5419**
	AUTOPILOT FITTING KIT:		(FOR ALL HELMS)	**STR HF6007**
	POWER ASSIST STEERING			**STR PA1200-3**

NOTES:

These recommendations apply to factory stock outboards only. Modified installations may require a higher capacity steering system. If in doubt, contact SeaStar technical service for assistance. (Cylinder volume / helm displacement = number of turns.) For dual engines, use SeaStar or engine manufacturer's tie bar.

For all Seastar outboard systems: Use following option A or B:

A) Outboard hose: order standard lengths (cannot be cut to length.) Part No. HO51xx/HO57xx, where last two digits = length in feet.

B) Copper tube: 3/8" diameter copper tube and hose kit part No. HF5508.

WARNING:

Do **NOT** use SeaStar PRO helms with the unbalanced side mount cylinder. Doing so may cause steering wheel to lock up leading to possible loss of steering causing property damage and/or personal injury.

DOMETIC SeaStar



COMPLETE SYSTEM	
System components sold separately. See applications and ordering guides to select appropriate components.	
COMPONENTS	
SeaStar 1.7 - Front Mount Helm	**STR HH5271-4**
Sterndrive Cylinder Cylinder part numbers vary, see application chart next page	**STR HC53xx-3**
Hose Kit (2 hoses)	**STR HO51xx**
SeaStar Oil (2 Quarts)	**STR HA5430**
OPTIONS	
SeaStar 1.7 - Front Mt. Commercial Helm	**STR HH5217-4**
SeaStar 1.7 - Rear Mount Helm	**STR HH5261-4**
SeaStar 1.7 - Sport Tilt Helm	**STR HH6191-4**
SeaStar 1.7 - Classic Tilt Helm	**STR HH6541-4**
SeaStar 2.0 - Front Mount Helm	**STR HH5273-4**
SeaStar 2.4 - Front Mount Helm	**STR HH5272-4**
SeaStar 2.4 - Front Mt. Commercial Helm	**STR HH5224-4 ***
SeaStar 2.4 - Rear Mount Helm	**STR HH5262-4**
SeaStar 2.4 - Sport Tilt Helm	**STR HH6192-4 ***
SeaStar 2.4 - Classic Tilt Helm	**STR HH6542-4**
SeaStar Round Bezel Kit	**STR HA5478 ***
SeaStar Backplate Kit	**STR HA5418**
SeaStar 20° Dash Wedge Kit	**STR HA5419**
SeaStar Bulkhead Hose Kit (2 hoses)	**STR HO81xx**
Add-A-Station Kit (Nylon/Copper Tube)	**STR HF6010**
Add-A-Station Kit (Hose)	**STR HF6007**
3/8" Tubing (see ordering guide)	**STR HT5xxx**
SERVICE ITEMS	
SeaStar Oil (1 Gallon)	**STR HA5440H**
Steering Wheel Locknut	**STR HP6032**

* Special Order

► *Also See* Hose Kits pg 08-037

SEASTAR STERNDRIVE STEERING SYSTEM:

SeaStar Sterndrive Steering is the best choice for non-power assisted sterndrives. The system is based upon the SeaStar helm family, which allows for dual station and autopilot use. Cylinders are specific to drive brands and models.

APPLICATIONS:

Ideal for most sterndrives, especially non-power-assisted units, SeaStar is suitable for single and multiple drives and dual stations.

FEATURES:

- Best and Most Economical autopilot interface for sterndrives! Easy installation.
- Simple multiple steering station connection.
- Optional SeaStar 2.0 & 2.4 helms for quicker steering response.
- Standard 3/4" tapered steering shaft.
- Fast, easy installation.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.

SEASTAR AUTOPILOT INTERFACE

SeaStar is the best steering choice to interface with most autopilots. If you are installing an autopilot on a mechanically steered boat, we recommend you upgrade to SeaStar for performance reasons.

If you're upgrading to SeaStar, plan ahead: future installation of an autopilot or extra steering station can be simplified by installing two pairs of shorter hose kits. Connect them with union coupling fittings, part no. HF5527. Tee fittings can be installed with ease at a later date. Bulkhead union fitting kits are available to facilitate hose runs through transoms and splashwells:

HF5512 up to 3/4" (19mm) splashwell, 1 cylinder
HF5513 up to 3" (76mm) transom, 1 cylinder
HF5514 up to 3/4" (19mm) splashwell, 2 cylinders
HF5515 up to 3" (76mm) transom, 2 cylinders

For an autopilot installation, a third (compensating) line must be installed and identified. (SeaStar helm Ports marked "R" are for connection of additional helm and/or autopilot compensating lines.) Use HF6007 (outboards) or HF5502 (sterndrives and inboards) fitting kits when adding an autopilot to your SeaStar system.



WE RECOMMEND

The use of Dometic SeaStar Steering Fluid ONLY in our hydraulic steering systems

See Page 08-037

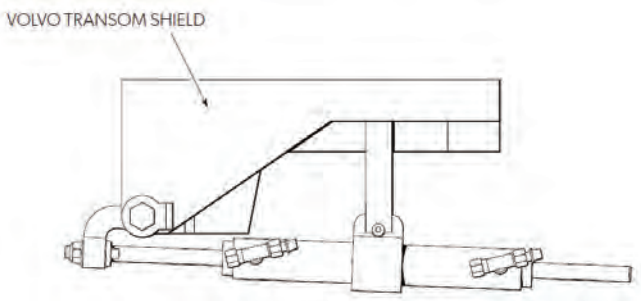
APPLICATION GUIDE:

ENGINE MAKER/ BRAND	STEERING CONFIG.	ENGINE/DRIVE MODEL	YEAR	(CYLINDER USED)		(NUMBER OF WHEEL TURNS)		
				MODEL	PART #	(1.7 cu.in.)	(2.4 cu.in.)	NOTES
MERCRUISER	NON POWER ASSIST	ALPHA I BRAVO I BRAVO II BRAVO III	2000 TO DATE 2000 TO DATE 2000 TO DATE 2000 TO DATE	BA135-7EM BA135-7EM BA135-7EM BA135-7EM	**STR HC5332**	5.0 5.0 5.0 5.0	3.5 3.5 3.5 3.5	1,3,4,5 1,3,4,5 1,3,4,5 1,3,4,5,6
	POWER ASSIST	ALPHA I BRAVO I BRAVO II BRAVO III	2000 TO DATE 2000 TO DATE 2000 TO DATE 2000 TO DATE	125-8EM 125-8EM 125-8EM 125-8EM	**STR HC5328-3**	4.9/5.8 4.9/5.8 4.9/5.8 4.9/5.8	3.4/4.1 3.4/4.1 3.4/4.1 3.4/4.1	2 2 2 2
VOLVO	NON POWER ASSIST	290 DIESEL DPS	TO DATE TO DATE 2000 TO DATE	BA135-7EM BA135-7EM BA135-7EM	**STR HC5332**	5.0 5.0 5.0	3.5 3.5 3.5	1,3,4,5,7 1,3,4,5,7 1,3,4,5,7
	POWER ASSIST	290 DIESEL DPS & SX	TO DATE TO DATE 1996 TO DATE	125-8EM 125-8VEM 125-6VPS	**STR HC5328-3** **STR HC5329-3 *** **STR HC5331-3**	4.8/5.8 4.9/5.8 4.8/5.5	3.4/4.1 3.4/4.1 3.4/4.1	2 2 2
YANMAR	NON POWER ASSIST	ZT370	TO DATE	BA135-7EM	**STR HC5332**	5.0	5.0	1,3,4,5,6
	POWER ASSIST	ZT370	TO DATE	125-8EM	**STR HC5328-3**	4.9/5.8	5.0	2

* Special Order

NOTES:

1. Balanced system – ie: the number of turns lock-to-lock is equal port to starboard or vice-versa.
2. Unbalanced system – ie: the number of turns lock-to-lock is not equal port to starboard or vice-versa.
3. HC5332 replaces HC5326-3 as of January 2000. If installing HC5326, additional clevis supplied by engine manufacturer required. Mastry Engine part #SUN144 *not provided by SeaStar Solutions.
4. The installation of the HC5332-3 sterndrive cylinder requires the use of SeaStar hose only. DO NOT use 3/8" copper or nylon tube.
5. If engine outdrive is NOT equipped with a torque tab on the underside of the lower leg one must be installed to reduce prop torque.
6. Yanmar Engines using the Bravo III drives require the use of cylinder HC5328-3.
7. HC5332 is recommended if the Volvo transom shield looks like that shown in figure below.



DOMETIC SeaStar



COMPLETE SYSTEM	
System components sold separately. See applications and ordering guides to select appropriate components.	
COMPONENTS	
SeaStar 1.7 Helm	**STR HH5271-4 or**
SeaStar 2.4 Helm	**STR HH5272-4**
Inboard Cylinder	**STR HC5313-3 †**
3/8" Tubing	**STR HT5xx or copper**
Fitting Kit (for Copper Tubing/1.7 helm)	**STR HF5507**
UnionHose Kit for Copper Tubing (2 hoses)	**STR HF5508**
SeaStar Oil (1 Quart Mil Spec H5606)	**STR HA5430**
OPTIONS	
SeaStar 1.7 - Front Mt. Commercial Helm	**STR HH5217-4**
SeaStar 1.7 - Rear Mount Helm	**STR HH5261-4**
SeaStar 1.7 - Sport Tilt Helm	**STR HH6191-4**
SeaStar 1.7 - Classic Tilt Helm	**STR HH6541-4**
SeaStar 2.4 - Front Mt. Commercial Helm	**STR HH5224-4 † ***
SeaStar 2.4 - Sport Tilt Helm	**STR HH6192-4 † ***
SeaStar 2.4 - Classic Tilt Helm	**STR HH6542-4 †**
SeaStar Round Bezel Kit	**STR HA5478 ***
SeaStar Backplate Kit	**STR HA5418**
SeaStar 20° Dash Wedge Kit	**STR HA5419**
Ball Joint Mount Cylinder (7 cu. in.)	**STR HC5322-3 ***
Ball Joint Mount Cylinder (9 cu. in.)	**STR HC5323-3 ***
Add-A-Station/Autopilot Fittings Kit (Tube Only)	**STR HF6010**
Add-A-Station/Autopilot Fittings Kit (Hose Only)	**STR HF6007**
SeaStar Hose Kit (2 hoses)	**STR HO51xx**
SERVICE ITEMS	
SeaStar Oil (1 Gallon)	**STR HA5440H**
Steering Wheel Locknut	**STR HP6032**

† 2.4 helms require use of 3/8" copper, OR, SeaStar Steering hoses. Use of nylon tubing with a 2.4 helm may result in increased steering effort

* Special Order

► *Also See* Hose Kits pg 08-037

SEASTAR 2-LINE INBOARD HYDRAULIC STEERING SYSTEM:

The most popular inboard hydraulic steering system offers unmatched comfort and control for today's inboards up to 50 feet. A wide range of helm and cylinder displacements covers most applications.

APPLICATIONS:

Most inboard powered boats with single or dual engines: single engine planing/displacement hull craft from 26-44 feet; dual engine planing hull craft from 26-50 feet; dual engine displacement hull & sail craft from 26-44 feet. Suitable for dual station use with purchase of extra hardware.

FEATURES:

- Low friction hydraulic steering system.
- Configurations for most inboards.
- Compact helm has only a 4-7/16" foot print - needs only 3" dash hole (Tilt requires larger hole).
- Standard 3/4" tapered steering shaft.
- Easy installation on single or dual rudders.
- Cylinders supplied with bleeder fittings.
- Regular duty aluminum or heavy duty brass cylinders. Two-axis articulation.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.
- Accepts steering wheels to 28" (20" for Tilt)

HOW TO SPEC A SYSTEM:

1. From the application guide, select the System Number appropriate for the vessel based on:
   a) hull type - displacement or planing;
   b) length of vessel;
   c) number of rudders; and
   d) usage of vessel.
2. From the ordering guide select the appropriate helm and accessory hardware for each steering station.
3. Select fitting/hose kits required from the ordering guide.
4. Confirm that there is sufficient space available in the dash and engine compartment(s) for the steering components.



WE RECOMMEND

The use of Dometic SeaStar Steering Fluid ONLY in our hydraulic steering systems

See Page 08-037

APPLICATION GUIDE: SEASTAR 2-LINE INBOARD STEERING

Use "System Numbers" in chart below to select the components from ordering guide on previous page.

BOAT TYPE/ LENGTH	System Numbers 1 ENGINE Pleasure	Work	System Numbers 2 ENGINES Pleasure	Work
PLANING HULLS				
To 26 Ft. (8m)	1	4	1	4
To 32 Ft. (10m)	2	4	1	4
To 38 Ft. (11.5m)	3	5	2	5
To 44 Ft. (13.5m)	5	—	3	5
To 50 Ft. (15m)	—	—	5	—
DISPLACEMENT HULLS				
To 26 Ft. (8m)	2	4	2	4
To 32 Ft. (10m)	3	4	3	4
To 38 Ft. (11.5m)	5	5	3	5
To 44 Ft. (13.5m)	—	—	5	—
To 50 Ft. (15m)	—	—	—	—
SAIL				
To 26 Ft. (8m)	4	4	—	—
To 32 Ft. (10m)	4	4	—	—
To 38 Ft. (11.5m)	4	5	—	—
To 44 Ft. (13.5m)	5	—	—	—
To 50 Ft. (15m)	—	—	—	—

Planing Hull: maximum hull speed normally exceeds 18 knots. Displacement Hull: maximum hull speed does not normally exceed 18 knots.

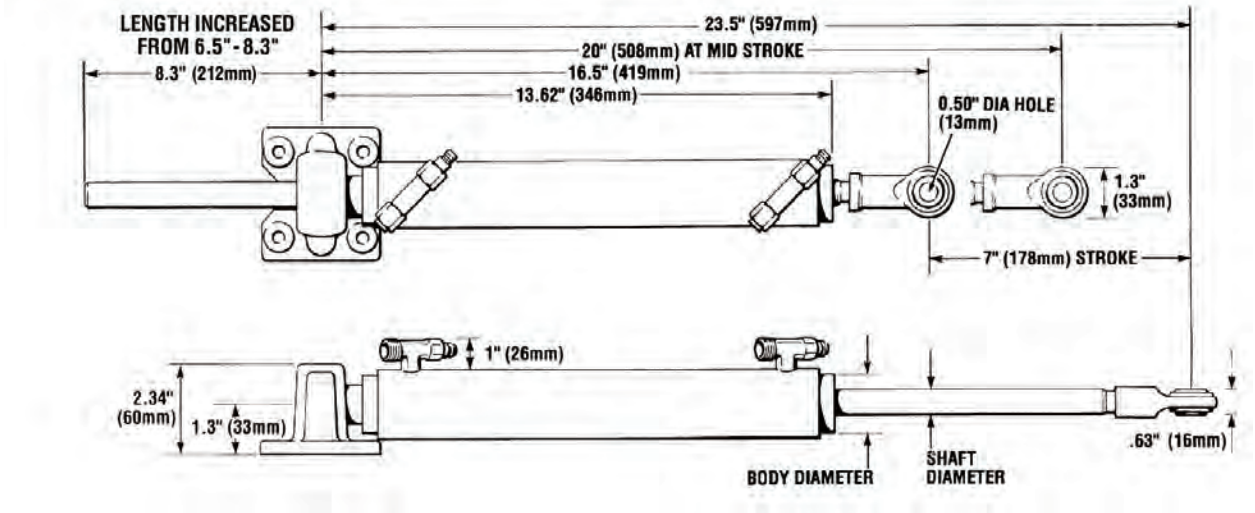
CYLINDER DIMENSIONS & MOUNTING CONFIGURATIONS SPECIFIC TO MODEL			
CYLINDER MODEL	PART NO.	BODY (ID) DIAMETER	SHAFT DIAMETER
BA125-7ATM	**STR HC5312-3**	1.25" (32mm)	.50" (12.7mm)
BA135-7ATM	**STR HC5313-3**	1.35" (34mm)	.63" (15.9mm)
BA150-7ATM	**STR HC5314-3**	1.50" (38mm)	.63" (15.9mm)
BA175-7TM	**STR HC5319-3**	1.75" (45mm)	.75" (19.1mm)

NOTE
These cylinders are for single and dual rudder vessels with two axis articulation and easy autopilot interface. Cylinders are also supplied with bleeder fittings.

WARNING
DO NOT attempt to install NPT pipe fittings into the cylinder hose fitting ports on any -3 model cylinder. Doing so will lead to irreparable damage to the cylinder. ONLY use ORB hose fittings provided by SeaStar Solutions.

INBOARD CYLINDER DIMENSIONS

ATM Cylinders (Aluminum): HC5312-3/ HC5313-3/ HC5314-3



ORDERING GUIDE: SEASTAR 2-LINE INBOARD STEERING

ENGINE/CYLINDER CONFIGURATION	COMPONENT DESCRIPTION	QTY. REQ'D	MODEL	PART NO.
SYSTEM #1 NUMBER OF TURNS: 4.0	CYLINDER	1	BA125-7ATM	**STR HC5312-3**
	HELM	1	SEASTAR 1.7 *	**STR HH5271-4**
	TUBING (SEE NOTES 1 & 3)		3/8" DIA. NYLON	**STR HT5xxx**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
FOR EXTRA STEERING STATION, ADD:	HELM	1	SEASTAR 1.7 *	**STR HH5271-4**
	FITTING KIT	1	ADD A STATION	**STR HF6010**
	EXTRA TUBING (SEE NOTES 1 & 3)		3/8" DIA. NYLON	**STR HT5xxx**
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
SYSTEM #2 NUMBER OF TURNS: 5.0	CYLINDER	1	BA135-7ATM	**STR HC5313-3**
	HELM	1	SEASTAR 1.7 *	**STR HH5271-4**
	TUBING (SEE NOTES 1 & 3)		3/8" DIA. NYLON	**STR HT5xxx**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
FOR EXTRA STEERING STATION, ADD:	HELM	1	SEASTAR 1.7 *	**STR HH5271-4**
	FITTING KIT	1	ADD A STATION	**STR HF6010**
	EXTRA TUBING (SEE NOTES 1 & 3)		3/8" DIA. NYLON	**STR HT5xxx**
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
SYSTEM #3 NUMBER OF TURNS: 6.0	CYLINDER	1	BA150-7ATM	**STR HC5314-3**
	HELM	1	SEASTAR 1.7 *	**STR HH5271-4**
	TUBING (SEE NOTES 1 & 3)		3/8" DIA. NYLON	**STR HT5xxx**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
FOR EXTRA STEERING STATION, ADD:	HELM	1	SEASTAR 1.7 *	**STR HH5271-4**
	FITTING KIT	1	ADD A STATION	**STR HF6010**
	EXTRA TUBING (SEE NOTES 1 & 3)		3/8" DIA. NYLON	**STR HT5xxx**
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
SYSTEM #4 NUMBER OF TURNS: 4.25	CYLINDER	1	BA150-7TM	**-**
	HELM	1	SEASTAR 2.4 *	**STR HH5272-4**
	TUBING (SEE NOTES 2 & 3)		3/8" DIA. COPPER	
	HOSE KIT	1	SEASTAR HOSE KIT	**STR HF5508**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
FOR EXTRA STEERING STATION, ADD:	HELM	1	SEASTAR 2.4 *	**STR HH5272-4**
	FITTING KIT	1	ADD A STATION	**STR HF6010**
	EXTRA TUBING (SEE NOTES 2 & 3)		3/8" DIA. COPPER	
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
SYSTEM #5 NUMBER OF TURNS: 5.5	CYLINDER	1	BA175-7TM	**STR HC5319-3**
	HELM	1	SEASTAR 2.4 *	**STR HH5272-4**
	TUBING (SEE NOTES 2 & 3)		3/8" DIA. COPPER	
	HOSE KIT	1	SEASTAR HOSE KIT	**STR HF5508**
	OIL	3	SEASTAR OIL (QT.)	**STR HA5430**
FOR EXTRA STEERING STATION, ADD:	HELM	1	SEASTAR 2.4 *	**STR HH5272-4**
	FITTING KIT	1	ADD A STATION	**STR HF6010**
	EXTRA TUBING (SEE NOTES 2 & 3)		3/8" DIA. COPPER	
	OIL	1	SEASTAR OIL (QT.)	**STR HA5430**
OPTIONAL EQUIPMENT	BACK PLATE KIT		(FOR STANDARD HELMS)	**STR HA5418**
	20 DEGREE WEDGE		(FOR STANDARD HELMS)	**STR HA5419**
	AUTOPILOT FITTING KIT		(FOR ALL HELMS)	**STR HF6010**
	POWER ASSIST STEERING			**STR PA1200-3**
* Many helm styles available, See Previous pages				

1. For systems 1, 2 & 3 – nylon tubing (3/8" dia.) is the standard requirement for plumbing the system. Copper tubing (3/8" dia.) can be substituted but Fitting Kit HF5507 is required.

2. For systems 4 & 5 – copper tubing (3/8" dia.) is the standard requirement for plumbing the system. Fitting Kit HF5508 is required.

3. For systems 1, 2, 3, 4, & 5 – Seastar outboard hose can be substituted for nylon or copper tube. These hoses must be ordered in standard lengths. They cannot be cut to length.

DOMETIC Capilano



COMPLETE SYSTEM	
System components sold separately. See applications and ordering guides to select appropriate components.	
COMPONENTS	
Capilano 1250V Helm	**STR HH5250**
Capilano 1275V Helm	**STR HH5275**
Inboard Cylinder	**STR HC5351**
Copper Tubing	1/2" or 5/8" OD
Fitting Kit (for 1/2" Copper Tubing)	**STR HF5590 * or**
Fitting Kit (for 5/8" Copper Tubing)	**STR HF5592 ***
Hose Kit for Copper Tubing (2 hoses)	**STR HA5731**
SeaStar Oil (1 Quart)	**STR HA5430**
OPTIONS	
Add-A-Station Fitting Kit (1/2" tubing)	**STR HF5591**
Add-A-Station Fitting Kit (5/8" tubing)	**STR HF5593 ***
Helm Remote Fill Kit (through-dash)	**STR HA5450**
SERVICE ITEMS	
SeaStar Oil (1 Gallon)	**STR HA5440H**
Steering Wheel Locknut	**STR HP6032**
† 2.4 helms require use of 3/8" copper, OR, SeaStar Steering hoses. Use of nylon tubing with a 2.4 helm may result in increased steering effort	

* Special Order



WE RECOMMEND

The use of Dometic SeaStar Steering Fluid ONLY in our hydraulic steering systems

See Page 08-037

Dometic Capilano Inboard Steering Cylinders

STR HC5357 * 7" stroke, rod end clevis
STR HC5378 11" stroke, rod end ball joint

* Special Order

CAPILANO 2-LINE HYDRAULIC STEERING SYSTEM:

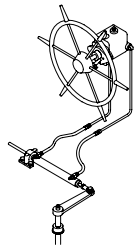
Uncompromising Design. Capilano steering stands for ruggedness and reliability worldwide. Helms include a variable displacement feature enabling the helmsman to adjust the number of steering wheel turns to suit maneuvering and weather conditions. Capilano systems install easily and give years of dependable service.

APPLICATIONS:

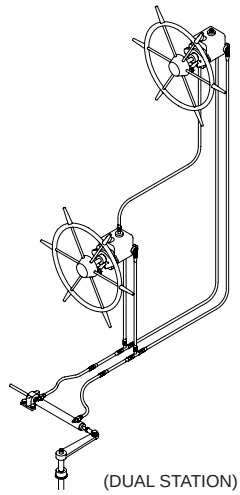
Most inboard powered boats with single or dual engines including planing/displacement hull craft from 30-55 feet in length. Suitable for dual station use with the purchase of extra helm, tubing/hose & fittings.

FEATURES:

- Variable displacement helms for adjustable number of steering wheel turns.
- Heavy duty brass cylinders with bleed fittings; chrome-plated stainless steel rods.
- Stainless steel and bronze mounting hardware.
- Easy installation on single and dual rudder vessels.
- Systems are not air-pressurized; no air leaks or pressure drops; separate reservoir not needed.
- Built-in pressure relief in helm protects system rom effects of thermal expansion.
- Standard 3/4" tapered steering shaft.
- Meets ABS/Lloyd/Det Norske Veritas specifications.



(SINGLE STATION)



(DUAL STATION)

For a complete list of all available items Ask for a Dometic Ride & Handling Catalogue

APPLICATION GUIDE: CAPILANO 2-LINE INBOARD STEERING

This application guide should be used with discretion. The chart below is only a guide to selecting a steering system.

A steering system manufacturer cannot anticipate all the variables in boat-rudder design that affect steering loads. It is the final responsibility of the boat designer/builder to specify maximum expected steering loads.

FOR VESSEL SIZES UP TO:	HELM PUMP MODEL	STEERING WHEEL TURNS ADJUST. RANGE Min.-Max.	REQUIRES CYLINDER MODEL (2x = 2 cylinders)	TUBING/HOSE DIAMETERS when distance from Cylinder to farthest Helm is: 40 Feet or Less	40 Feet or More	MAXIMUM OUTPUT TORQUE FROM CYLINDER(S) In.-Lb.	Kg m
PLANING HULLS: 							
35' (11m)	1250V	3 - 6	BA150-7TM_	1/2"	N/A	6,548	75
40' (12m)	1250V	4 - 8	BA175-7TM_	1/2"	N/A	8,795	100
50' (15m)	1250V	5.5 - 11	BA200-7TM_	1/2"	5/8"	12,134	140
50' (15m)	1275V	3.5 - 7	BA200-7TM_	1/2"	5/8"	12,134	140
50' (15m)	1275V	4 - 8	2x BA150-7TM_	1/2"	5/8"	14,766	170
55' (17m)	1275V	5.5 - 11	BA200-11TM_	1/2"	5/8"	19,900	230
55' (17m)	1275V	5.5 - 11	2x BA175-7TM_	1/2"	5/8"	19,902	230
60' (18m)	1275V	7.5 - 15	2x BA200-7TM_	1/2"	5/8"	26,322	300
DISPLACEMENT HULLS: 							
30' (9m)	1250V	3 - 6	BA150-7TM_	1/2"	N/A	6,548	75
38' (11.5m)	1250V	4 - 8	BA175-7TM_	1/2"	N/A	8,795	100
45' (14m)	1250V	5.5 - 11	BA200-7TM_	1/2"	5/8"	12,134	140
45' (14m)	1275V	3.5 - 7	BA200-7TM_	1/2"	5/8"	12,134	140
45' (14m)	1275V	4 - 8	2x BA150-7TM_	1/2"	5/8"	14,766	170
50' (15m)	1275V	5.5 - 11	BA200-11TM_	1/2"	5/8"	19,900	230
50' (15m)	1275V	5.5 - 11	2x BA175-7TM_	1/2"	5/8"	19,902	230
50' (15m)	1275V	7.5 - 15	2x BA200-7TM_	1/2"	5/8"	26,322	300

NOTE: Theoretical torque about pivot point at 35 degress articulation with 1,000 PSI (70 BAR) system pressure.

Dometic Helms



HH-5271

SeaStar I and II helms differ in displacement to accommodate various cylinder volumes. Either of the new SeaStar helms along with an HA5418 backmount kit will retrofit an equivalent old style SeaStar helm into an existing dash cut-out. The new and old helms will work perfectly together in a twin station system.

STR HH5271-4	SeaStar I helm - replaces HH-5201
STR HH5272-4	SeaStar II helm - replaces HH-5202
STR HH5273-4	SeaStar II helm - front mount helm
STR HH5217-4	SeaStar 1.7 commercial duty helm

Dometic Trolling Motor Tie Bar Kit



Heavy duty tie bar kit connects an auxiliary trolling motor to your main motor. Attaches to SeaStar hydraulic cylinders HC5345-3, HC5348 & HC5358-3. Composed entirely of stainless steel.

STR HO6010

Dometic Tie Bars (New Style)

STR HO6001
STR HO6002
STR HO6003



► *Also See* Application Chart pg 08-046

Dometic Cylinder Adapter Plates

STR HO5035	Single Engine, Mercury/Mariner, 89' 135-250 hp,90' 75-250 hp, 91 to-date 75-275 hp, US Marine 95' to-date 120 hp
STR HO5038A *	Twin Engine, Yamaha, 89+ Mercury/ Mariner89' 135-250 hp, 90' 75-250 hp, 91to-date 75-275 hp
STR HO5039 **	Yamaha 89' to-date

* Special Order
** While Stock Lasts

Dometic Service Components

STR HA5438	Filler kit
STR HF5512	Bulkhead fitting kit
STR HF5513	Bulkhead fitting kit
STR HO5090	Spacer kit
STR HP6032	Helm service kit, includes wheel shaft nut, key, shaft seal & seal plate
STR HS5151	Seal kit Sea Star I,II
STR HS5153	Seal kit HC5370-3 Cyl.
STR HS5154	Seal kit 125EM,MV,BJ.
STR HS5155	Seal kit 135EM,MV,BJ
STR HS5156	Seal kit 150EM,MV,BJ
STR HS5157	Seal kit Wrench
STR HS5161	Helm Seal kit for Capilano
STR HS5182	Seal kit KT150-7BA,STD,TR,TM,CY
STR HS5183	Seal kit KT175-7BA,STD,TR,TM,CY
STR HS5184	Seal kit KT200-7BA,STD,TR,TM,CY
STR HT5092	Nylon tubing 3/8" x 25 ft
STR HT5095	Nylon tubing 3/8" x 50 ft
STR HT5097	Nylon tubing 3/8" x 75 ft
STR HT5100	Nylon tubing 3/8" x 100 ft

Dometic Cylinder Alignment Valve



Alignment valve for hydraulic tie bar (when a mechanical tie bar cannot be used) will allow for the periodic required realignment of two outboard motors or rudders that are linked together with a hydraulic tie bar as opposed to a solid link or a mechanical tie bar.

A standard helm and SeaStar hoses may be used on vessels not exceeding speeds of 55 MPH. Boats exceeding 55 MPH must use the SeaStar Pro Helm Pump (part # HH5770) and SeaStar Pro Kevlar Hoses.

STR HA5471-2

Dometic Power Purge Jr



The average service on a SeaStar or BayStar system is about 30 minutes. With the power purge system this time can be reduced to about 10 minutes. Convenient, portable, quick connect fittings, clip on 12 volt hook-up, contaminant screen and a solid steering feel all add up to a valuable tool.

STR HA5445-2

Accessories:

STR HA5461	Dual cylinder purge hose

Dometic Connection Kits



Connects 3/8" diameter copper tubing to SeaStar cylinders, using 3/8" diameter nylon tubing
Includes: (4) 3/8" tube nuts
(2) 3/8" male tube connector fittings
(6') 3/8" nylon tubing

STR HF5507

NOTE: DO NOT use with SeaStar Outboard Cylinders and/or SeaStar Sterndrive cylinder # HC5332



Connects 3/8" diameter copper tubing to SeaStar cylinders, using 3/8" SeaStar outboard hose
Includes: (2) 3/8" tube nuts
(2) 3/8" male tube connector fittings
(2) 18" hose with fittings

STR HF5508

Dometic Accessories

STR HA5418	Backmount kit for old style 4-1/2" dash cut-out
STR HA5419	20° Dash wedge kit - replaces HA-5429
STR HA5424 *	Rod end adapter for HC-5326 cylinder
STR HA5432	Non-vented helm plug
STR HA5450	Helm remote fill & vent kit (through dash)
STR HA5477	Outboard cylinder grounding strap
STR HA5820	Bushing kit for HC-5345
STR HP6126	Vented helm plug
STR HA6801	Hardware kit, Tournament series cylinders
STR SA38603P	Spent travel tube, NFB/HPS Rotary Quick connect style

* Special Order

Dometic Bulkhead Hose Kits



For abusive environments, SeaStar outboard hose kits are equipped with protective coverings on both ends. One end includes a pigtail cover with connecting nut and bulkhead mounting plate, while the second has a bend protector. Kits use 3/8" fittings.

STR HO8108	Bulkhead O/B Kit 2PC x 8'
STR HO8118	Bulkhead O/B Kit 2PC x 18'
STR HO8120	Bulkhead O/B Kit 2PC x 20'
STR HO8122	Bulkhead O/B Kit 2PC x 22'
STR HO8124	Bulkhead O/B Kit 2PC x 24'

SeaStar Hose Kits

- 2/kit
- Kits use 3/8" fittings



STR HO5102	2' hose
STR HO5103	3' hose
STR HO5104	4' hose
STR HO5106	6' hose
STR HO5108	8' hose
STR HO5110	10' hose
STR HO5112	12' hose
STR HO5114	14' hose
STR HO5116	16' hose
STR HO5118	18' hose
STR HO5120	20' hose
STR HO5122	22' hose
STR HO5124	24' hose
STR HO5126	26' hose
STR HO5130	30' hose

SeaStar PRO Hose Kits

- Kevlar reinforced, 2/kit
- Kits use 3/8" fittings



STR HO5702	2' hose
STR HO5704	4' hose
STR HO5706	6' hose
STR HO5708	8 hose
STR HO5710	10' hose
STR HO5712	12' hose
STR HO5714	14' hose
STR HO5716	16' hose
STR HO5718	18' hose
STR HO5720	20' hose
STR HO5722	22' hose
STR HO5724	24' hose
STR HO5726	26' hose
STR HO5728	28' hose
STR HO5730	30' hose

Dometic Remote Bulkhead Fittings



Remote bulkhead fittings offer a simple solution to cleanly route hoses through the hull while maintaining safety and aesthetics.

- Install on a standard hose kit
- Split grommet design
- Increased ID of plastic base allows crimped hose fitting to pass through the base plate
- Available as either plastic, or with stainless steel cover plates

STR HO7100	Single hose, stainless, pair
STR HO7105	Single hose, plastic, pair
STR HO7200	Dual hose, stainless
STR HO7205	Dual hose, plastic

T-H Marine Bulkhead Strain Relief Kit



- Prevents kinks and chafing in hydraulic steering hose
- Watertight gripper fitting prevents leaks
- Bulkhead fitting with flange
- Flange is 2-3/4" diameter; requires 1-1/4" installation hole *

THM BSR-1K-DP

** Note: Only bulk hose can pass through fitting. Pre-made hoses with end fittings cannot pass through*

Dometic Service Fluids



STR HA5430	SeaStar Oil (1 quart)
STR HA5440H	SeaStar Oil (1 gallon)
STR HA5458H	SeaStar Oil (5 gallon)
STR HA5482	SeaStar EPS Fluid (1 quart)

Octopus Hydraulic Steering Fluid



- For use in all hydraulic steering systems
- ISO 15 low temp mineral hydraulic fluid
- Corrosion inhibited
- Oxidation resistant
- Made in Canada - by Canada Metal

OCT OCTOIL946ML	Quart
OCT OCTOIL3.78L	Gallon

Dometic ORB Hose Fittings

These ORB-5 fittings are made of corrosion resistant stainless steel and now thread into the cylinders/helms via Positionable O-ring hose ports. Fittings can be easily orientated in any direction to accommodates tube routing.

CAUTION: NOT for use in an NPT helm/cylinder hose fitting port.

STR HF6003
Horizontal, 3/8" SAE x ORB
2/pkg



STR HF6004
Elbow, 3/8" tube x ORB
2/pkg



STR HF6005
Tee fitting, 2 x 3/8" tube x 5 ORB
2/pkg



STR HF6006
Tee fitting, 2 x 3/8" tube x ORB
2/pkg



STR HF6009
Straight fitting, 3/8" tube x ORB
2/pkg



STR HF6010
Fitting kit to add 2nd station or autopilot to an inboard or sterndrive system
Each



STR HF6011
45° fitting, 3/8" tube x ORB
2/pkg



STR HF6012
1/4" NPT female x ORB
3/pkg



STR HF6007
Fitting kit to add 2nd station or autopilot to an outboard system
Each



STR HF5501
- OLD STYLE -
Fitting kit to add 2nd station or autopilot to an outboard system
Each (NOT ORB FITTINGS)



STR HF5502
- OLD STYLE -
Fitting kit to add 2nd station or autopilot to an stern drive system
Each (NOT ORB FITTINGS)



STR HF6013
Fitting kit horizontal
3/8" tube x .6 ORB
Each



Dometic Fittings

The fittings below are 3/8" compression fittings which utilize a 9/16"-24 extra fine thread.

STR HF5518
Vertical bleeder tee 3/8"T - 3/8" NPT
2/pkg



NOT for use with -3 cylinders/helms

STR HF5519
Bleed tee (TM cylinders)
2/pkg



STR HF5520
Horizontal bleeder tee 3/8"T - 3/8" NPT
2/pkg



NOT for use with -3 cylinders/helms

STR HF5524
Cap plug nut
3/pkg



STR HF5526
Tube nut, Use with 3/8" tubing
6/pkg



STR HF5527
Union coupling fitting
3/pkg



STR HF5528
Straight fitting
3/pkg



NOT for use with -3 cylinders/helms

STR HF5529
Elbow fitting 3/8"T - 1/4" NPT
3/pkg



NOT for use with -3 cylinders/helms

STR HF5530
Tee fitting 3/8" Tube
3/pkg



STR HF5534
Elbow fitting 3/8"T - 3/8" NPT M
3/pkg



STR HF5538
Street elbow fitting 3/8"T - 1/4" NPT
3/pkg



STR HF5540
45° elbow fitting 3/8"T - 1/4" NPT
2/pkg



NOT for use with -3 cylinders/helms

Dometic
Power Assist Steering System - Hydraulic

NEW



Offers boat owners a new level of steering comfort and control by reducing wheel effort. Upgrade for your outboard, stern drive, or inboard powered boat that is already equipped with hydraulic steering. SeaStar P/A easily ties into the existing SeaStar hydraulic steering system.

Features:

- Updated with new electronics and addition of ORB fittings
- Easy as the power steering in your car
- Dramatically increases steering comfort by reducing effort at the steering wheel
- Easily installed upgrade to existing SeaStar or SeaStar PRO manual system
- Pro version available for SeaStar PRO type applications
- Number of turns lock to lock remains the same as existing manual hydraulic system
- Compatible with SeaStar Power Purge systems
- Compatible with autopilots
- Rugged, reliable, and compact
- Wiring harness included
- Ignition protected (SAE J-1171)
- 12V and 24V operation available
- ABYC, CE, NMMA, ISO 10592 Approved

STR PA1200-3 Standard

Options:

Dual Ignition Control Kit

Designed to connect the P/A unit's ignition wire to two engines allowing one engine to be turned off and retain power assist control.

STR HA1201

Dometic
Gen II Extreme Jack Plates



The latest in SeaStar Jackplate Revolution. Delivering advanced engineering through customer input.

- Capable of handling up to 400 HP gasoline engines
- Easy access to engine bolts, and easier access to transom mounting bolts
- Thicker anodizing with anode attachment points
- Improved smoother bushing design
- Shallow water anchor mountable on all setbacks
- Easier SmartStick installation for upgrades
- Lower weight



STR JP5040X 4" setback
STR JP5060X 6" setback

Parts:

STR DK4020 * Basic Rocker Switch
STR DK4850 Anode Kit

* Special Order

Dometic
Standard Hydraulic Jack Plate



The SeaStar Standard Jackplate is one of the sleekest and most durable engine jackplates available. This essential performance accessory allows for higher speed, gains in fuel economy, and the ability to run in shallow water. The SeaStar Jackplate features sleek, bold styling that is redefining the look for jackplates.

- Rated for 300 HP engines tilt when used with SeaStar steering cylinders
- Rapid hydraulic actuator lifts engines 5.8" in 8.5 seconds
- Complete rigid engine support at full thrust
- Easily moves engine up or down at full thrust
- Smooth operation with composite bushings
- Easy wrench access to engine bolts from the side
- 4" setback

STR JP5040R * Standard, 4" setback, 300 HP

Parts:

STR DK4020 * Basic Rocker Switch
STR DK4850 Anode Kit

* Special Order

Dometic
Mega Jack Plates

NEW



- Developed to withstand the power of high performance engines
- Maximizes engine output while offering greater flexibility in shallow water
- Rated up to 600 HP
- Can fit all outboard engines on the market
- Tested for high impact and cyclic loads
- Comes with corrosion protection anodes
- Built-in linear position sensor easily integrates with Dometic Digital Switching
- 6" setback
- Standard and wide cross bar width available
- Includes: Jack plate, basic rocker switch, relay wiring harness (25'), gauge kit, and spade terminals (3)



STR JP6060 Standard mount
STR JP7060 Wide mount

Dometic ProTap Controller - Bay/Bass-B



- Lets you quickly get your boat to speed without a need to look at the gauges
- B-Mode memorizes your favourite jackplate and trim settings for quick recall
- Can be wired to control 1 jackplate, or 1 jackplate and 1 engine trim, or control 2 jackplates
- NMEA 2000 CAN enabled

STR JC4010 **

** While Stock Lasts

Dometic
Smartstick & Gauge Kit



- At-a-glance visual indication of Jack Plate position
- Environmentally sealed, non-contact linear position sensor, no moving parts to wear out
- Not compatible with JP4040HD and JP4060HD

STR DK4220

Powrtran IMPULSE Jack Plates

Powrtran's IMPULSE series jack plates give all the lifting power of a hydraulic actuator without the messy fluids, hoses, or pumps.

- High-torque electromechanical actuator will lift at all speeds
- Manual override built in
- Holeshot plate standard with every jack plate
- Highly durable UV-resistant cerakote finish
- Toggle switch controls the jack plate, and can be upgraded to Smart configurations with the optional Smart Control Upgrade Kit
- 6" setback
- 12V

NEW



PWT 75052-B	Standard, 250 HP max
PWT 75053-B	XL, 450 HP max

Powrtran Smart Control Upgrade Kits

NEW

Add all the Smart features to your IMPULSE series jack plates.



- Wireless remote gauge with three programmable favourite position buttons
- External programmable trailer button automatically moves the plate to your desired trailering position
- Can be installed without removing the jack plate from your boat, or the outboard from the jack plate
- Kit includes control module, wireless digital gauge remote, trailer button, and a replacement actuator cable

PWT 75090	Standard
PWT 75090-10	XL

CMC Static Jack Plate



- 2-1/2" static setback plate
- 1-1/2" height adjustment at the transom
- Can be used as a stand-alone 2-1/2" setback plate or used in conjunction with another manual or hydraulic jacks
- Constructed of extruded 6061-T6 aluminum alloy

CMC 65213

CMC Vertical Extension Jack Plate



- Allows the motor to be mounted 5" higher
- A must for conversion from prop to jet drive
- Mounting the 5" vertical extension on a hydraulic jack plate raises the motor higher on shallow running boats that are equipped with tunnel extensions
- Constructed of extruded 6061-T6 aluminum alloy
- Max rating: 300 hp

CMC 50012

T-H Marine Fixed Jack Plate



- 3/8" thick aluminum bracket allows mounting a long shaft outboard to a short transom
- Also used as a fixed jack plate for V6 outboards
- Handles all outboards up to 150 hp
- Three engine mounting holes and two transom mounting holes combined with a 3" designed lift allows a total of 5-1/2" of lift with a full four (4) inches of setback

THM JP-4FA-DP

T-H Marine Hi-Jacker Plate



- Allows full tilt with dual steering
- Fits all V-4 and V-6 engines up to 150 HP
- Provides six (6) inches of setback and four (4) inches of vertical adjustment
- All bolts are stainless steel with brass nuts to prevent galling
- Constructed of tough 3/8" aircraft aluminun

THM JP-1A-DP

T-H Marine Micro Transom Trim Control



- Weatherproof tilt control
- Remote adjustment of hydraulic jack plates
- Black plastic w/white letters
- Comes with 18' pigtail
- Rated 50 amps

THM TTC-1-DP

CMC PT-35 Tilt N' Trim



A compact Tilt and Trim unit manufactured for 35 horsepower motors and smaller (down to 2 H.P.). This unit is 11-1/2" wide and weighs only 24 lbs. The PT-35 utilizes the same hydraulic actuator as the PT-130 and gives you all the same benefits. This unit easily adapts to bolt-on motors and clamp-on motors (within the 11" frame) without the need of an adapter. The PT-35 incorporates a 5-1/2" setback, which enhances boat stability. It has a total of 84° of trim and tilt. When you're underway, you can change the angle of your motor to obtain the best performance for your load and water conditions.

- Comes with an up/down toggle switch
- Weight: 24 lbs

CMC 52100

CMC PT-130 Tilt N' Trim



The PT-130 incorporates a 6" setback and has 20° of trim and 90° of trim and tilt. Constructed of 1/2" 6061 T6 alloy aluminum extrusions and stainless steel fasteners for maximum strength and durability. Actuated with a totally waterproof marine electric hydraulic system that is rated over 7800 lbs. of thrust. The hydraulic system is completely sealed and submersible and runs without worry of water damage. The PT-130 will fit on virtually any type of boat and outboard motor. It's especially convenient on pontoon boats. Rated for 10 hp through 130 hp motors, it fits standard B.I.A. bolt pattern motors without drilling holes. An adapter kit is available for motors that are mounted with transom clamps.

- Comes with an up/down gauge and toggle switch
- Weight: 39 lbs

CMC 13001	w/gauge
Parts:	
CMC 13022 *	Transom clamp
CMC 13032	Transom pontoon spacer

* Special Order



Panther Trim & Tilt

Rugged and reliable waterproof actuator. Allows you to "tuck" the prop of your motor toward the stern before getting under way, providing greater lift and getting you up on plane quicker. Through proper trimming, you can actually increase the top-end speed of your boat up to 10 mph.



- Outboards from 15-55hp weighing up to 250 pounds
- Uses 1/2" fasteners
- Bracket: 15" x 11"

PAN 55-0055

Parts:

PAN 55-9000	Anode kit for saltwater operation
PAN 99-55022	Relay repair kit
PAN 99-55115	Actuator motor

Panther Miscellaneous

PAN 99-55003	Actuator assembly, for 55-0135 *only*

Panther Auxiliary Motor Lift



- Heavy-duty bracket handles auxiliary outboards up to 40hp or 150 pounds
- Kicker motors are supported in any position
- The only kicker motor lift with a convertible setback
- Can be adjusted from 7 to 13 inches of setback
- Ideal for inboards, I/Os, jet-drives, and outboards when over the transom mounting is unavailable
- Uses 1/2" fasteners
- Bracket: 10-1/2" x 11"

PAN 55-0035

Panther 3" Extension



This two piece, cast aluminum spacer provides an extra three inches of setback for the Model 35. The spacer will extend the Model 35 to 16" of setback. Chromate dipped, powder paint coated for maintenance free durability.

PAN 55-9035

Panther Swim Platform Outbard Motor Bracket



- Adjustable outboard motor bracket designed to mount on most swim platforms
- For engines up to 20hp, max 195lbs
- Adjustable 3 vertical running positions, 4" vertical travel
- Powder coated aluminum body with a 2" polypropylene board
- Includes transom support bar and motor safety cable
- Mounting hardware not included

PAN 55-0030

Panther Outboard Motor Bracket



- This heavy duty, lightweight aluminum bracket is designed for motors up to 12 hp or 82 lbs max weight
- Spring loaded (14" of travel with 5 stops.)
- Stainless steel mounting hardware 5/16"-18 x 3" included
- Pad size: 8.250" x 10.50" Setback: 7.75" at upper position, 14.5" at lower position
- Not to be used with 4 stroke engines

PAN 55-0012

Panther Outboard Motor Brackets





- 4-stroke motors up to 15hp or 2-stroke up to 20hp, max weight of 132 lbs
- Four position lock bar
- Twist-knob safety locks provide increased torque rating while helping secure bracket in place
- Motors' weight is counterbalanced by heavy duty stainless steel torsion springs for easy lifting
- 2" thick, extra-wide, weatherproof and maintenance free polypropylene mounting board along with stainless steel hardware
- Rated for long or short shaft engines
- 10" travel

PAN 55-0407AL	Aluminum
PAN 55-0408SS	Stainless Steel

Panther Outboard Motor Brackets



- 4-stroke motors up to 35hp, max weight of 263 lbs
- Five vertical running positions for changing water or load conditions
- Anodized aluminum bracket is built to handle the weight and torque output of 4-strokes
- Motors' weight is counterbalanced by heavy-duty stainless steel torsion springs for easy lifting
- 2" thick, extra-wide, polypropylene mounting board along with stainless steel hardware
- Rated for long or short shaft engines

PAN 55-0410	10" travel
PAN 55-0416	16" travel

Edson Rail Motor Mount



- Hold motors up to 15 hp or 100 lbs/45 kg
- Cleat and side handles allow you to tie the motor and lock it safely on board
- Non-corroding polished 316 stainless bracket with non-skid pad, bolted to a UV stable poly backing board
- Hardware to attach to any standard 1" rail
- Bottom cleat comes unattached so that it will fit any rail spacing
- Top W: 8" x Bottom W: 4" x H: 24"

EDS 521-100ST

Panther Outboard Motor Support

NEW



- Durable, adaptable, and convenient support of your outboard motor during trailering and transport
- Weather resistant injection molded polyurethane construction
- Fits outboards from 50 to 300 hp and trim ram diameters of 5/8" to 3/4"
- 4-7/8" long

PAN 55-2195

Moeller Transom Pad

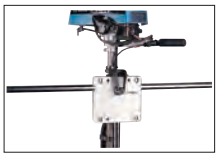


- For outboards to 25 HP
- EDPM material is oil and weather resistant, provides UV protection, and resistance to wear and tear
- Reduces motor vibration noise, and protects transom
- H: 15.55" x W: 10.9" x D: .5"

MOE 099073-10

Sea-Dog Rail Mount Motor Brackets

- Designed to hold outboards up to 8 hp upright on the stern rail
- Bracket will fit both 7/8" and 1" rails, including 90° tee fittings
- Made of UV stabilized polypropylene
- Comes with fasteners
- 6-11/16" square x D: 1-9/16"



SED 327150-1 White
SED 327151-1 Black

CMC Transom Wedges



- 2° wedges give extra positive or negative trim.
- Use as an aid for boats with an insufficient transom angle or for boats having planing problems at low speed
- Can also be used as setback spacers
- Can be stacked and inverted in sets of 2, 4, or 6
- Fits all transom jacks, jack plates, outboard lifts, tilt trim units, and outboard motors with a standard BIA bolt pattern
- 6061 T6 alloy aluminum construction

CMC 20122

T-H Marine Transom Wedges



- Adjust motor angle and fit newer model OMC and Mercury engines with factory installed tilt and trim
- Cast aluminium construction allows for full, positive contact between engine bracket and transom

THM TW-2-DP One pair

Panther Trolling Motor Tie Bar Kit



Heavy duty 1/2" thick tie bar kit connects an auxiliary trolling motor to your main motor. Composed entirely of stainless steel.

PAN 55-2700 Sea Star steering, with drive bracket
PAN 55-2900 U-Flex steering

Panther Auxiliary Motor Steering Kits



Steering kit for kicker motors up to 25 horse-power. It has a "C" clamp that fits over the hydraulic steering rod and a ball stud and "quick disconnect" that attaches to your kicker motor.

- Rod is 24" long (threaded to 16")

PAN 55-2400 Zinc plated steel kit
Parts:
PAN 55-5100 Quick disconnect, 2/pkg
PAN 99-09028 Quick disconnect, each
PAN 99-05028 Ball stud assembly, each



55-5200

PAN 55-2600 Stainless steel kit
Parts:
PAN 55-5200 Quick disconnect, 2/pkg
PAN 99-09029 Quick disconnect, each
PAN 99-05029 Ball stud assembly, each

Panther Quick Disconnect

NEW



Quick disconnect for all kicker-to-main motor tie bars

- Fits 3/8"-24 rod
- Zinc plated

PAN 99-52600

Panther Drive Bracket



Composed of stainless steel, and is the same bracket that is included with the Panther Model 55-2700 Trolling Motor Tie Bar Kit. The bracket attaches directly to most common hydraulic steering units.

PAN 55-2750

Panther Drive Bracket



- This kit is used specifically to adapt Panther steering kits to main engine hydraulic steering
- Kit includes L bracket, washers, mounting bolt, locktite, and instructions
- Can be used with Panther 55-2400, 55-2600, 55-2700

PAN 55-5705

Panther T4 - Through Tilt Tube Electro Steer

- Can be installed on any kicker motor with a threaded tilt tube
- No holes to drill in your transom
- 9" min. needed between main engine and kicker motor
- Two button hand held remote with a 24' cable



PAN 55-0103 Saltwater unit
Parts:
PAN 99-55531-T4 Motor only

Panther T5 Electro Steer - Saltwater

T5 provides a unique solution to steer a kicker motor. Can be installed on kicker motor with threaded tilt tube without drilling any holes in the boat. Installs in minutes and requires only 4 inches between main engine and kicker.

- Mounting hardware included
- Controlled by a 2 button hand held remote with 24' cable
- Operates on 12 volt @ 5 to 7.5 amps
- HP rating 40 hp, max
- Motor is encased in black delrin, water resistant, mounts thru-the-tube
- Wt. 9 lbs



PAN 55-0503 Complete
PAN 55-0503NE **No Electronics
** For use with electronic controls Troll Master

Panther Wired Remote Controls

12' or 24' of cable on these up/down push button switches allows each user control over any Panther product. Splices into existing installations or can be plugged in directly.



PAN 55-1200 12'
PAN 99-55027 24'

IntelliSteer WIRELESS STEERING

Key Features

Four different models add wireless steering to boats with:
- Autopilots
- Tiller steered outboards
- Cable steering
- Hydraulic steering

- Wireless receiver module plus wireless handheld pendant - steering in the palm of your hand
- Up to two pendants can be used
- Steer and fish from anywhere on the boat
- Designed for push button control
- Easy DIY installation - no need for professional installer
- 1 year limited warranty on electronics, 2 year limited warranty on drive units

Intellisteer Type R
For Outboards & Kicker (Trolling) Motors



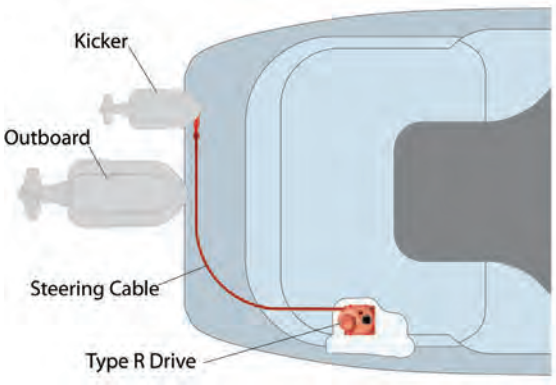
Kit Includes:

- Includes wireless remote pendant & control module, remote drive, steering cable, installation kit
- Requires cable steering outboard connection kit

Key Features:

- Fits below decks
- Electronic clutch disengages for manual steering
- Rotary drive system
- Safety override technology
- Current 1.25A typical while steering, 5A max

IRS INTTYPER	6' cable
IRS INTTYPER9	9' cable



Parts:

IRS OC15109-6	Type R steering cable, 8" stroke x 6' long
OCT OC15SUK07 *	Cable adapter (SSC-72 CABLES)
OCT OC15SUK08	Cable adapter (SSC-62 CABLES)
OCT OC15SUK09 *	20° mount bezel for S systems
IRS OC15SUK31A	9.9 Mercury 4-stroke linkage arm STRB
IRS OC15SUK31B	9.9 Mercury 4-stroke linkage arm PORT

* Special Order

Intellisteer Type S & T
For Cable Steered Boats



Kit Includes:

- Includes wireless remote pendant & control module, drive system, installation kit
- Helm replacement drive unit
- Type S for Straight shaft helms
- Type T for Helms with tilt function

Key Features:

- Replaces existing helm
- Electronic clutch disengages for manual steering
- Rotary drive system
- Fits behind dash (10" overall depth required)
- Safety override technology
- Current 1.25A Typical, 5A Max while steering

IRS INTTYPES	S kit
IRS INTTYPET *	T kit

* Special Order

Intellisteer Type A
Existing Drive or Autopilot



Kit Includes:

- Wireless remote pendant & control module
- Meets FCC standards

Key Features:

- Can be integrated with an existing autopilot system or standalone drive unit
- When the Intellisteer Wireless Controller is steering it will disconnect the autopilot and provide wireless control from anywhere on the boat
- Offers pass-through capability for Autopilot motor and clutch control circuits
- Waterproof
- Motor drive capability up to 25A
- Overload and reverse polarity protection
- 12VDC nominal (9V min - 16V max operating range)
- Can be used to upgrade units with old style remote

IRS INTTYPEA

Intellisteer Type H
For Hydraulic Steering



Kit Includes:

- Includes wireless remote pendant & control module, hydraulic pump, hydraulic hoses and fittings, installation kit

Key Features:

- Connects to all common hydraulic steering systems
- Rugged Octopus hydraulic pump
- Adds wireless pushbutton control of your hydraulic steering
- Current 3-6A typical, 15A Max while steering
- Suitable for cylinders up to 10ci (166cc)

IRS INTTYPEH

Intellisteer Wireless Remote Pendant



- Extra pendant to use as a spare, as a second remote or to replace lost remotes
- Water proof
- Supplied with 2 x AAA batteries
- Includes lanyard

IRS INTREMOTE

Trollmaster PRO Angler Wireless Remote Speed and Steering Control



- Full wireless control
- Features micro adjustments of your speed, Manual or Strike Mode, and seamless integration with all Panther steering devices
- Manual Mode offers precision speed control, allowing adjustment from 0-100% in 250 incremental steps
- Strike Mode automatically fine-tunes engine speed based on one of four easy-to-adjust speed profiles
- Momentary full-throttle burst
- Ergonomic remote
- Water-Resistant controller with backlit LCD Display
- Easy installation
- Engine specific hardware fits neatly under the cowling (see note)

Kit Includes:

- Wireless controller
- Radio receiver
- Servo
- 2 AA batteries
- Detachable lanyard

TRM TMPROANGLER Kit
TRM TMPROANGLERREM Remote only

► *Note* — *Motor Specific Hardware kit SOLD SEPARATELY and must be purchased to make system work. See chart.*

Trollmaster PRO

NEW



- For where quick, accurate adjustments to speed are crucial
- Dial throttle control
- MAX THTL button allows for a momentary full-throttle burst of speed
- IDLE feature is used when reducing speed to Slow Ahead
- Water resistant controller with LCD display
- 25' cable and mounting hardware included

TRM TMPRO

► *Note* — *Motor Specific Hardware kit SOLD SEPARATELY and must be purchased to make system work. See chart.*

► *See* www.trollmasters.com

A variety of servo mounting hardware kits are available to allow easy installation on most popular kicker motors. The motor-specific hardware kit must be purchased as a separate item. As long as you know the make, HP and year of your kicker motor, you can determine which hardware kit you need.
See the chart below.

Trollmaster Hardware Kits

HP	Year	Hardware Kit
Evinrude / Johnson 4-stroke only		
9.8	2013 - Present	**TRM TM212HWKIT**
15	2012 - Present	**TRM TM214HWKIT**
9.9, 15	2003 - 2011	**TRM TM208HWKIT**
E-TEC	All	**not available**
Honda 4-stroke only		
5, 8, 9.9, 15	1980- 2000	**TRM TM200HWKIT**
8, 9.9, 15, 20	2001 - Present	**TRM TM207HWKIT**
Mercury 4-stroke only		
4, 5, 6	All Years	**TRM TM203HWKIT**
9.9, 15	1990 - 2004	**TRM TM201HWKIT**
REMOTE THROTTLE OR TILLER		
15, 20 Carburated Only	2011 - 2017	**TRM TM214HWKIT**
9.9, 15, 20 EFI ONLY*	2018 - Present	**TRM TM216HWKIT**
** All Mercury EFI use the 216 kit*		
REMOTE THROTTLE ONLY		
15 Carburated Only	2005 - 2010*	**TRM TM214HWKIT**
** Confirmed that the 214 works on the '08, it is presumed all from 2005-10 will work*		
TILLER ONLY		
15, 20	2005 - 2009	**TRM TM209HWKIT ***
Nissan / Tohatsu 4-stroke only		
5, 6	1995 - Present	**TRM TM203HWKIT**
8, 9.8 Carburated Only	2003 - Present	**TRM TM212HWKIT**
REMOTE THROTTLE OR TILLER		
20	2011 - Present	**TRM TM214HWKIT**
9.9, 15, 20 EFI ONLY	2018	**TRM TM216HWKIT**
Suzuki 4-stroke only		
9.9, 15	2003 - 2012	**TRM TM208HWKIT**
9.9, 15, 20 EFI Only	2014 - Present	**TRM TM215HWKIT**
Yamaha 4-stroke only		
6	1999 - 2012	**TRM TM206HWKIT**
8 incl. Hi-Thrust	1999 - Present	**TRM TM206HWKIT**
9.9, 15	1989 - 2006	**TRM TM201HWKIT**
9.9 incl. Hi-Thrust	2005 - 2007	**TRM TM210HWKIT**
9.9 incl. Hi-Thrust	2008 - Present	**TRM TM206HWKIT**
15 incl. Hi-Thrust	2005 - 2017	**TRM TM210HWKIT**

* Special Order - may have stock

** There are no kits for the following:*
- Any 2-stroke motors
- Any 25 hp and larger motors
- Yamaha 6 hp 2013 and newer

E.Z. Steer Auxiliary Outboard Steering Systems

A self-adjusting connecting rod lets you pilot any auxiliary outboard motor up to 25 hp from your boats main wheel, even if one is raised up or tilted out. Kits are available to fit every outdrive engine and outboard combination, even if you have a swim platform. A sailboat model connects the auxiliary to transom mounted rudders. In most cases a wrench and/or screwdriver are the only tools needed. Stainless steel connecting rods are constructed using Dupont Delrin ball joints with brass inserts. Mounting brackets are stainless steel dipped in black vinyl to prevent scratching your drives.

Individual Connecting Rod Assemblies

Short rod kits are generally needed when the auxiliary is transom mounted, and standard kits are used when the auxiliary is mounted on a lift bracket. When hooking up to a Seadrive or extended bracket outboards, the long, or extra long rods are required.



Part #	Name	Length
EZS 10001	Short	19"-22"
EZS 10002	Standard	23"-26"
EZS 10003	Long	29"-50"
EZS 10005	Extra Long	39" +

I/O Bracket Assemblies



30010

EZS 30010	Alpha I
EZS 35010	Mercruiser/Bravo
EZS 37010	Mercruiser/Alpha 1-2G (2nd Gen.)
EZS 42010	Volvo II

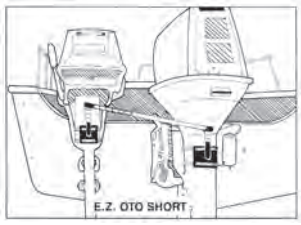


50020

Outboard Bracket Assemblies

EZS 50010	Small O.B. bracket assembly 4"
EZS 50020	Small O.B. bracket assembly 3"
EZS 52010	Yamaha S/S bracket assembly
EZS 54010-OLD	Mercury/Mariner 4-Stroke bracket assembly
EZS 57010	Honda 4S S/S bracket assembly
EZS 59010	Honda 2003 8hp short shaft bracket assem.
EZS 60010	Large O.B. bracket assembly (main drive OB)
EZS 74002	Sailboat (Hunter wheel)
EZS 76010	Evinrude E-Tec 20" Shaft bracket assembly

E.Z. Steer Auxiliary Outboard Steering System



Each full kit consists of:

- Main bracket assembly
- Self-adjusting connecting rod
- Auxiliary outboard bracket assembly
- All necessary hardware

Kit #	Main Engine	Connecting Rod	Swim Platform
EZS 43003	Volvo II	Long 29-50"	Yes

Parts:

EZS 10300	Outer Tube ball joint
EZS 10400	Inner Tube ball joint
EZS 12000	Complete detente tube assembly
EZS 13200	Brass quick connector only
EZS 18020	Mounting Bands for O/B brackets (Pair)
EZS 18710	Restrictor cord assembly (all models)

► ***Note***

To order specify your main engine type and rod length required. To find the proper rod length measure from the centre of your main engine to the centre of your auxiliary with both engines down and straight ahead.

E.Z. Steer Universal Auxiliary Outboard Steering Systems



The EZ-Steer universal outboard steering system takes the hassle out of the selection process and provides a quick and easy installation process.

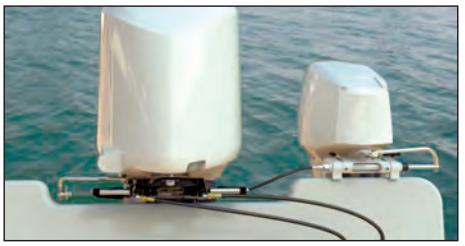
- Lighter main/kicker combo reduces maintenance and fuel usage
- Available in 3", 4", or 7" auxiliary offsets
- Includes all necessary components and hardware
- One year limited warranty

EZS 310001	3" offset, 19"-22" centre to centre
EZS 310002	3" offset, 23"-26" centre to centre
EZS 310003	3" offset, 29"-33" centre to centre
EZS 310004	3" offset, 27"-28" centre to centre
EZS 310005	3" offset, 39"-46" centre to centre
EZS 310006	3" offset, 34"-38" centre to centre
EZS 410001	4" offset, 19"-22" centre to centre
EZS 410002	4" offset, 23"-26" centre to centre
EZS 410003	4" offset, 29"-33" centre to centre
EZS 410004	4" offset, 27"-28" centre to centre
EZS 410005	4" offset, 39"-46" centre to centre
EZS 410006	4" offset, 34"-38" centre to centre
EZS 710001	7" offset, 19"-22" centre to centre
EZS 710002	7" offset, 23"-26" centre to centre
EZS 710003	7" offset, 29"-33" centre to centre
EZS 710004	7" offset, 27"-28" centre to centre
EZS 710005	7" offset, 39"-46" centre to centre
EZS 710006	7" offset, 34"-38" centre to centre

► ***Note***

Find your fit with two steps.
1. Auxiliary Bracket Offset: With both engines in the down position, measure the front to back distance in inches from the installed quick release on the main engine to the vertical edge of the kicker motor where the offset bracket will mount. Select closes offset bracket: 3", 4" or 7".
2. Centre to Centre: With both engines down, measure the centre to centre distance in inches from the engine to engine. Select the length that aligns with the measurement.

Dometic Kicker Cable Tie Bar Kits



This new Seastar product allows a user to manually steer an auxiliary engine (kicker motor) using their existing Seastar hydraulic steering system. Today this is accomplished with a variety of solid mechanical linkages between the main engine and the auxiliary engine. SeaStar has developed a patent pending design that incorporates an Xtreme cable as the linkage between the two engines.

The SeaStar Kicker Cable Tie Bar has been engineered for easy and secure installation on outboard powered vessels with popular SeaStar hydraulic steering. By using a universal ABYC steering connection on the kicker motor, SeaStar has made it simpler than ever for builders, dealers and boaters to rig, operate and steer both motors simultaneously.

Features:

- Flexible cable allows for adjustable locations of kicker motor
- Allows independent trim/tilt of both engines
- Allows full steering stroke of both engines
- Simplified installation using universal ABYC steering connection (as per ABYC P17 & P21 standards) on kicker motor
- Retrofittable to Seastar Front Mount Cylinders
- Incorporates unique patented Xtreme cable technology
- Recommended to max 20hp engines



Kit includes:

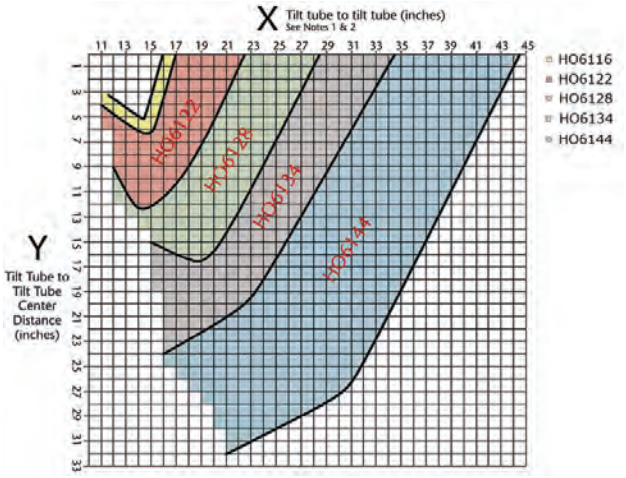
- 1 x Steering Cable Assembly (Xtreme 40 series cable and a custom drilled out support rod)
- 1 x Pivot Cylinder Drive Link-arm (connects the drive bracket to one side of the cable assembly)
- 1 x Pivot Cylinder Drive Plate (allows for the link-arm to mount to the pivot cylinder pivot plate)
- 2 x Support Brackets (keyed version for use with this product)
- Fasteners

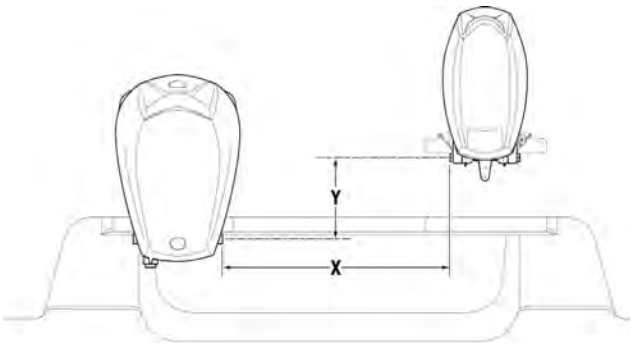
Not Included:
Drive/drag link from auxiliary (kicker) engine to the end of the kicker steering cable

STR HO6116	16"
STR HO6122	22"
STR HO6128	28"
STR HO6134	34"
STR HO6144	44"

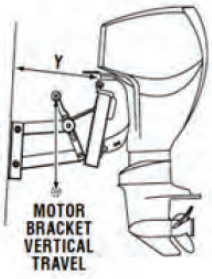
Installation Note:
Kicker Cable Tie Bar systems require a minimum clearance of 14" from the end of the tilt tube towards the motor side well or gunnel

Dometic Kicker Cable Tie Bar Kit Installation





Jack Plate Vertical Travel	Add to X dimension
10"-12"	3"
13"	4"
14"-15"	5"
16"-20"	6"



Note 1.
For a Kicker installed on a motor bracket, add additional length to X dimension

Note 2.
For Main engine installed on a motor bracket add an additional 2" to X dimension

Note 3.
Kicker cable tiebar systems require a minimum clearance of 14" from the end of the tilt tube towards the motor side well gunnel



NEW

Note: The TAILFIN is currently not compatible with newer Mercury Tiller models with centre-mounted tiller handle.

Powrtran TAILFIN Kicker System

Wirelessly control your kicker motor from anywhere in the boat with the TAILFIN Kicker Steering System. Adaptable to fit all major motor manufacturers, the TAILFIN system is perfect for trolling, bowfishing, small crafts, kayaks, and pontoons.

- Adjustable settings allow you to fine tune both the speed and sensitivity of operation for greater boat control than ever before
- Steer time is adjustable down to just under two seconds lock-to-lock (refers to travel of the TAILFIN system, which has a fixed travel and may not provide full outboard steering swing)
- Quick Disconnect aluminum linkage arm for easy removal and ultimate durability
- Compact, universal fit design
- Internally sealed electric motor
- Ballscrew actuator in a stainless-steel tube
- Wireless remote (uses AAAA batteries) with protective cover and wired (24') switch included
- Multiple remotes can be programmed to the system at the same time
- Free mobile app available for both iOS and Android
- Steer tube kit available (STK-100) for motors that do not have a steer tube system
- Rated for saltwater use
- Max 25 HP
- 12V



PWT 8001

Accessories:

PWT STK100	Steer tube kit
PWT 7637-02	10' Cable extension
PWT 1350	Wireless remote

Wire Rope Tiller Cable



- Vinyl coated cables are designed to exceed BIA's minimum standards
- Resists moisture, abrasion, fungi, and sunlight
- Jacketing process forces the plastic deep into the strands of the preformed galvanized aircraft cable increasing the flex life and service of the cable
- Wire diameter: 3/32"
- Coated size: 3/16"
- Breaking strength 920 lbs
- Available in 250 ft. and 1000 ft. reels as well as by the foot

WRI 3/32"X3/16"	Per foot
WRI 3/16"X250'	Reel

► Also See Stainless Steel Wire pg 13-017

Sea-Dog Cable Clamp

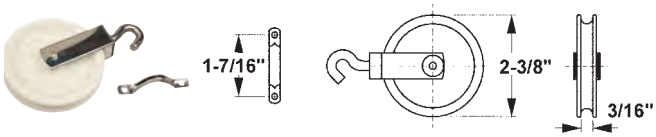


- Die cast chrome plated zinc
- For 3/16" cable

SED 091852	Bulk each
SED 091852-1	Packaged pair

► Also See Nicropress Sleeves pg 13-017

Sea-Dog Tiller Rope Pulley



Plastic sheave tiller rope pulley with hook for connection to an eye strap.

SED 091934-1	Tiller pulley w/eye strap
SED 091934	Tiller pulley only

Suffix (-1) indicates display package.

► Also See Davis Tiller Tamer pg 13-045

Attwood Motor Well Boots



12820-5

- Weather resistant black rubber boot with polypropylene mounting ring
- Installs without disconnecting controls

ATT 12820-5	4" diameter

Sea-Dog Motor Well Boots



Weather resistant black rubber boot with plastic mounting ring.

- Use #8 fasteners

SED 521630	3" x 3/16"
SED 521655	5-1/2" x 9/16"

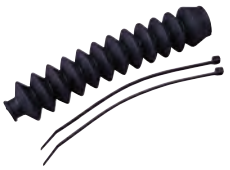
Sea-Dog Motor Well Boots



- Molded rubber/injection molded nylon
- Accordion style seal organizes and protects engine control cables, wires or fuel lines
- Boots and rings are cut for trouble free installation without removal of cables
- Use #8 fasteners

SED 521663-1	4-1/8" x 1/2"
SED 521664-1	5-1/2" x 9/16"

Sea-Dog Steering Cable Boot



- Molded rubber boot
- Length 8"
- Cable opening 1" at one end 3/8" at the other

SED 521700

T-H Marine Cable Boots

Constructed of vinyl this product eliminates the need to split or cut your motor well boot to pass cables through. Simply pass the cables through the wide opening and when the rigging is complete, pull the cable tie snug to finish the job.

Part #	Hole	Colour
THM CB-1	3"	Black
THM CB-1W-DP	3"	White
THM CB-2	2"	Black
THM CB-4	4-1/2"	Black
THM CB-4W-DP	4-1/2"	White



THM CBO-1 3" x 6" Oval, black



Reinforcing ring for cable boots

THM CBR-1-DP	3"	Black
THM CBR-2-DP	2"	Black
THM CBR-4-DP	4-1/2"	Black
THM CBR-4W-DP **	4-1/2"	White



** While Stock Lasts

T-H Marine Oval Grommet



Black polypropylene grommet provides protection for cables and wiring that must pass through walls or decks of boats.

- Hole Size: 1-1/2" x 3"

THM OG-1-DP

Sea-Dog Hole Liner



- Injection molded polyethylene
- Dia: 4-1/16" x Cutout: 2-9/16"

SED 521600-1

T-H Marine Cable Boot Grommet



- Protects cables, hoses and wires from chafing
- Flange fits into pass-thru hole
- Cable boot snaps into grommet

THM CBG-4-DP Fits CB-4

T-H Marine Utility Grommet



UG-1-DP

For multiple uses in boats, such as cable pass-through, landing net holder, stern light holder or fishing rod support.

- Made of flexible vinyl

THM UG-1-DP Max hole size 2-3/8"
THM UG-2-DP Max hole size 1-3/4"
THM UG-3-DP Max hole size 3"



UG-3-DP

T-H Marine Rigging Flange & Hose Kits

These components provide a system to protect cables and wiring. The molded polypropylene flange is internally threaded to retain hose and to make rigging adjustment simple. The back side of the flange is textured to allow inverted mounting.



Flange Only:

THM RF-1-DP Black

Hose Only

The hose is durable, flexible, and kink resistant.

- 50 foot reels, sold by the foot

THM RFH-1 Hose, 2" Black, per foot
THM RFH-3 Hose, 2" Grey, per foot

Kits:

Includes flange & 4' of black rigging hose.



THM RFK-1-DP Black, 2" flange
THM RFK-1CP-DP Chrome, 2" flange
THM RFK-2-DP White, 2" flange
THM RFK-2.5Y-1-DP Black, 2-1/2" flange
THM RFK-2.5Y-2-DP White, 2-1/2" flange
THM RFK-2.5Y-3-DP Grey, 2-1/2" flange

T-H Marine Rigging Flanges



RFFHP-1-DP RFHU-1-DP Installation example

- Split design allows installation on pre-rigged boats
- Fuel hose port fits type "A" hose & hose union fits type "B" hose
- *Installs with T-H Marine rigging hose (above).

THM RFFHP-1-DP Flange w/fuel port, Black
THM RFHU-1-DP Flange hose union, Black

Perko Rigging Tube

For use with 2" I.D. hose to pass wiring harnesses and control cables through transoms and motor well bulkheads.



- Chrome plated brass and bronze
- Mounts in a 2-1/8" diameter hole
- Use #8 FH fasteners
- Length overall: 4-1/8" O.D. flange: 3-1/8"

PER 357-DP1-CHR

Attwood Soft Grip Steering Wheel



- Soft black PVC outer rim
- Nonmagnetic, will not interfere with compass readings
- Comes with centre cap
- 13" O.D. with 3-3/8" dish
- 3/4" tapered hub

ATT 8315-4 Wheel

Fraser Bronze Aluminum Steering Wheel



- Cast from marine grade aluminum alloy
- 14"
- 3/4" taper bore

FRB FR-002.34

Grant Emerald Steering Wheels



- 14" diameter
- Polyurethane grip with two different textures for styling and comfort
- Black anodized or polished aluminum spokes
- Keyway hub

GNT 570-11-BS-A Black
GNT 570-11-PS-A Polished

Grant Clark Steering Wheels



- 14" diameter
- Polyurethane grip with two different textures for styling and comfort
- Black anodized or polished aluminum spokes
- Keyway hub

GNT 590-1-BS-A Black
GNT 590-1-PS-A Polished

Grant Tahoe Steering Wheels



- 14" diameter
- Wrapped with two premium materials
- Black anodized or polished aluminum spokes
- Keyway hub

GNT 515-1-BS-A Black
GNT 515-1-PS-A Polished

Grant Sea Water Classic Steering Wheel



- 11-1/2"" diameter
- Black foam grip
- Satin stainless steel spokes
- Keyway hub

GNT 560-1-A

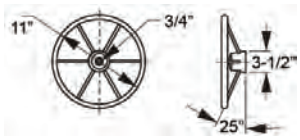
Marine Hardware Steering Wheels



- Economical stainless steel steering wheels
- 3/4" tapered hub

Part #	Dia.	Dish angle
MHI SSSW13.0x2.38	13"	10°
MHI SSSW15.5x4.00	15-1/2"	25°
MHI SSSW15.5x2.75	15-1/2"	10°

Parts:
MHI SSSW-CAP Spare cap

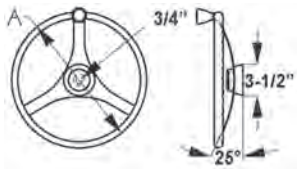


Sea-Dog Stainless Steering Wheel



- 304 stainless steel with plastic cap
- 5 spoke wheel with 25° dish
- Fits standard 3/4" tapered shafts

SED 230211 11" diameter

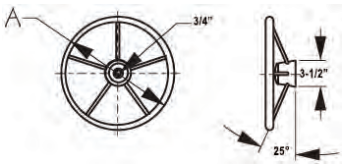


Sea-Dog Stainless Steering Wheels



- Formed 304 stainless steel
- 3 spoke wheel with integral knob
- Fits standard 3/4" tapered shafts

SED 230323 13-1/2" diameter
SED 230325 15-1/2" diameter



Sea-Dog Stainless Steering Wheel

- Formed 304 stainless steel with foam covering
- 5 spoke wheel with 25° dish
- Fits standard 3/4" tapered shafts

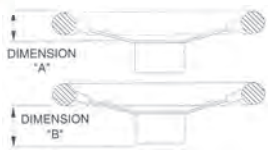
SED 230212G 11" diameter

Dometic Steering Wheels









- Standard 3/4" taper
- Constructed of UV and corrosion resistant materials.
- Comes with centre cap

Part #		Rim	A	B
STR SW59691P	Ace	13"	1.3"	2.3"
STR SW60105P	Armada	13"	-	-
STR 3876613	Replacement Cap			
STR SW52022P	Viper	14"	1.1"	2.2"

Edson Stainless Replacement Throttle Handle



- Non-magnetic
- Investment cast 316 stainless
- Clearly marked function on handle top

EDS 963SB-55

Edson Pedestal Guard Feet



Stainless guard feet come with gasket and bushings to allow mounting 1", 1-1/8" or 1-1/4" guard pipes. Nuts and washers included.

EDS 310ST-100-125

Edson Brake Kit



Kit includes:
- Brake linings (2)
- Cotter pin
- Adhesive
- Stainless washer
- Nylon bushing

EDS 316-689

Edson Pedestal Rebuild Kit



Kit includes:
- Needle bearings (2)
- Snap rings (2)
- Shaft keys (2)
- Quick installation
- Drive pin
- Nylon washers (2)
- O-Ring
- Teflon grease
- Threadlock

EDS 314-335

Edson Quick Release Wheel Nut



Facilitates getting your wheel out of the way to give you more room in your cockpit at anchor or at the dock. Simply give the knurled knob a few turns and pull the wheel off the shaft.
- No need for tools or wrenches
- Large 2-1/2" diameter provides easy grip
- Highly polished investment cast 316 stainless

EDS 826ST-1-14 1"-14 threads

Edson Brake Knob



- Polished investment cast 316 stainless
- 2" diameter and deep knurled surface allow an easy and secure grip for tightening and releasing the wheel brake
- No tools necessary for the press-fit installation

EDS 825ST-1 **

** While Stock Lasts

Edson Wheel Nut



- Highly polished investment cast 316 stainless steel
- 1"-14 threads UNF

EDS 673ST-1-14

Gemlux Steering Wheel Nut



- Cast stainless steel wheel nuts
- 5/8"-18 thread UNF

GEM 1501-1

Edson Stainless Steel Power Knob

- Polished to a mirror finish
- Fits wheel rims from 5⁄8" to 1-1⁄8" diameter
- Twin races of super smooth Delrin ball bearings
- Knob can be strapped or bolted on to wheel rim
- 25 year warranty.

Package Includes:
- 1 - Edson power knob
- 2 - Wheel rim straps
- 1 - 1/4" allen wrench
- 1 - Extra bolt for bolt-on option



EDS 969ST-18

Sea-Dog Steering Wheel Knob



- Investment cast 316 stainless steel with a black nylon insert
- Fits most steering wheels with a rim diameter from 5/8" to 1"

SED 230107-1

Sea-Dog Steering Wheel Knob



- Investment cast 316 stainless steel
- Fits most steering wheels with a rim diameter from 5/8" to 1"

SED 230106-1

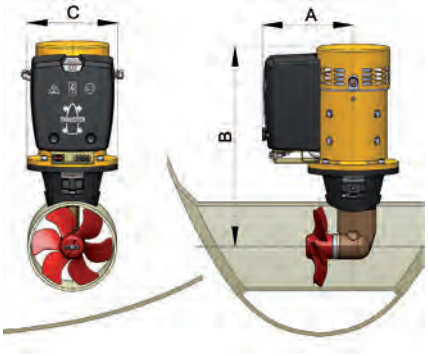
ELECTRIC THRUSTERS

- Systems are easy to install, supplied with clear installation and operation instructions
- A single propeller creates less flow disturbance in the tunnel
- VETUS' unique propeller blade design minimizes cavitation noise
- Spiral gears minimize transmission noise
- The use of a flexible coupling between tail piece and motor eliminates vibration
- A streamlined tail piece is used for optimum flow
- A strong synthetic propeller eliminates corrosion and reduces weight and maintenance
- A new line of high quality control panels offers child safety protection, overheat protection, automatic switch off after 30 minutes and panels are watertight to IP66
- Three year warranty

Vetus Thrusters

- Single propeller creates less flow disturbance in the tunnel
- Propeller blade design minimises cavitation noise
- A flexible coupling between tail piece and motor eliminates vibration
- All systems use a streamlined tail piece for optimum flow
- Synthetic propeller eliminates corrosion and reduces weight
- Systems are easy to install, supplied with clear installation and operation instructions
- High quality aluminium control panels which are interchangeable with older panels
- All manoeuvring systems meet the EMC requirements
- NOTE - Order tunnels separately (see next page)





Part #	VTS BOW3512F	VTS BOW4512D	VTS BOW5512D	VTS BOW7512D	VTS BOW9512D
Typical Boat Size	21' - 32'	25' - 38'	28' - 41'	35' - 49'	39' - 56'
Thrust up to kg (lbs)	35 (77)	45 (99)	55 (121)	80 (176)	95 (209)
Power kW (hp)	1.5 (2)	3 (4)	3 (4)	4.4 (6)	5.7 (8)
Amps	205	300	350	500	610
Internal Tunnel Dia	4-59/64" (125mm)	4-59/64" (125mm)	5-29/32" (150mm)	7-9/32" (185mm)	7-9/32" (185mm)
Dimensions A x B x C	5-7/16" x 12-23/64" x 5-55/64"	5-5/8" x 14-3/8" x 6-19/64"	5-5/8" x 14-27/32" x 6-19/64"	9-3/8" x 18-7/64" x 11-21/32"	9-3/8" x 18-7/64" x 11-21/32"
Weight (lbs)	26	44	44	57	66

Vetus PRO Thruster

- Fully proportional speed control – proportional control enabled by proprietary motor controller.
- Endurance rated runtime- The motor controller uses active voltage, amperage and temperature monitoring, If the motor senses to much heat or to little voltage etc. it will simply dial back its available output until it can regulate the voltage or temperature etc. Meanwhile the unit will still be usable during this time just with reduced power output. 10 mins of runtime at 100% output guaranteed.
- Completely sealed CANBUS based motor controller- eliminates water intrusion and makes installation very easy while using plug and play components. Integrate into virtually any control system.
- 100% Brushless motor.

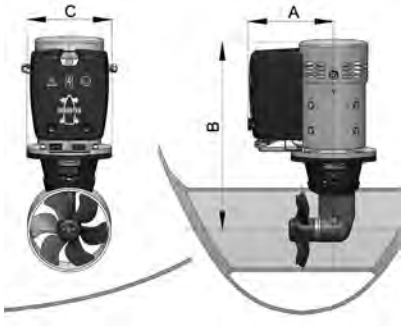
1. NO Brush dusting and no open motor armature to allow for moisture intrusion or potential ignition source.
2. No Solenoids or Brushes to replace or maintain.
3. No IP box needed – IP67 rating is available without the bulky IP Box.
4. Motor has been tested to run 20,000 hours before needing any service.

- Significant noise reduction over traditional thrusters when operating.
- Smaller batteries needed- Group 24 batteries are acceptable on most models along with smaller wiring and fuses.
- "Hold to dock" joystick function - Simply move the thruster joystick to get the desired output from the thruster and press the button. Now you can release the joystick and the thruster will run continuously until the button is released.
- NOTE - Order tunnels separately (see next page)



Part #	VTS BOWA0421 *
Typical Boat Size	25' - 30'
Thrust up to kgs (lbs)	42 (93)
Power (hp)	4
Amps	12V
Internal Tunnel Dia.	4-59/64" (125mm)
Dimensions A x B x C	8.3" x 14.9" x 7.9"
Weight (lbs)	77

* Special Order







STERN125P

Vetus Tunnels

High quality tunnels for thrusters, made from glassfibre reinforced polyester.

Bow Tunnels

VTS BP110G75	110 x 750mm
VTS BP125G10	125 x 1000mm, BOW 35F & 45
VTS BP150G10	150 x 1000mm, BOW 55
VTS BP185G10	185 x 1000mm, BOW 75 & 95

Stern Tunnels

VTS STERN125P	125mm x 9-27/32", BOW 35F & BOW 45
VTS STERN150P	150 mm x 10-5/8", BOW 55
VTS STERN185P	185 mm x 11-13/16", BOW 75 & BOW 95

COMPLETE YOUR THRUSTER SYSTEM
.....TUNNEL
.....CONTROL/S
.....FUSE HOLDER AND FUSE
.....BATTERY ISOLATOR
.....CONTROL CABLE

EXTRAS TO CONSIDER
.....ADDITIONAL BATTERIES
.....BATTERY CABLE AND CONNECTORS

► *Also See* Controls & Accessories next page















Selection Table - Thrust Force / Boat Length

Thruster #	Boat Length/ Thruster Force	20'	26'	33'	39'	46'	52'	59'	66'	72'	79'	85'	98'
BOW2512D	25 kgf	20 to 25'											
BOW3512F	35 kgf		23 to 28'										
BOW4512D	45 kgf			25 to 30'									
BOW5512D	55 kgf			29 to 35'									
BOW5524D	60 kgf			29 to 35'									
BOW6012D	65 kgf				34 to 36'								
BOW6024D	70 kgf				34 to 36'								
BOW7512D	80 kgf				35 to 39'								
BOW7524D	85 kgf				35 to 39'								
BOW9512D	95 kgf					40 to 44'							
BOW9524D	105 kgf					40 to 44'							
BOW12512D	125 kgf						45 to 50'						
BOW12524D	140 kgf						45 to 50'						
BOW16024D	160 kgf							48 to 60'					
BOW22024D	220 kgf								61 to 80'				
BOW28548D	285 kgf											80 to 110'	

Vetus Control Panels

The safety features and technical specifications are identical to all shown VETUS control panels.

- Built-in time lapse device when reversing direction or rotation
- Automatic switch off after 30 minutes inactivity
- Thruster switches off after continuous running for more than 2 minutes
- Panel resets itself after 5 seconds

Vetus Easy Docking Panel



Turns twin joysticks into one easy operating knob. This control panel ensures a smooth procedure of both bow and stern thruster operation. By using Hall effect sensors, the panel has no holes and is therefore completely watertight.

VTS EZDOCK2 Bow/Stern, 3-11/32" x 5-7/16"



Vetus Type II Control Panels

Control panels Type II are protected against accidental or unauthorised operation and circuit overload. They have a panel power indicator and warning LED and buzzer in case of continuous running for more than 2 minutes. These panels are watertight, easily interconnected and can be fitted at any helm position.

VTS BPSE2 Bow, 3-11/32" x 3-11/32"
VTS BPJE2 Bow, 3-11/32" x 3-11/32"
VTS BPJDE2 Bow/Stern, 3-11/32" x 5-7/16"

Vetus BP Control Panel



The compact panel can be fitted in a 52 mm diameter hole, making installation quick and easy using a standard hole saw. It is supplied with the same white, black and chromed plastic bezel rings as other VETUS boat instruments and is therefore ideal to be mounted alongside these. It can also be fitted in an engine panel instead of an instrument. The panel is provided as standard with a switched outlet (max 3 A) for switching extra equipment and is waterproof to IP66.

- Built-in time delay, to prevent thruster damage caused by reversing the direction of rotation too quickly
- Warning signal with automatic shutdown in the event of continuous running for more than 2 minutes
- Protection against accidental operation (child lock)
- Automatic shut off after 30 minutes inactivity

VTS BPJR

Vetus BPPPA Bow PRO Docking Panel



- Compact design and high quality materials
- Safe and easy proponional control of your vessel
- Aluminium bezel
- Quick installation in 0 75 mm cut-out hole
- Waterproof housing IP65
- V-CAN CANBUS protocol compliant
- Twin connector for multiple stations
- Status indicator
- H: 85 x W: 85 x Built-in Depth: 90 mm
- Cut-out Dia: 75 mm

VTS BPPPA *
* Special Order

Vetus BPPJA Bow PRO Docking Panel



- Compact design and high quality materials
- Safe and easy proportional control of your vessel
- Aluminium bezel
- Quick installation in 0 75 mm cut-out bole
- Waterproof housing IP65
- V-CAN CANBUS protocol compliant
- TIVin connector for multipie stations
- Status Indicator
- With thruster hold and lock function
- H: 85 x W: 85 x Built-in Depth: 90 mm
- Cut-out Dia: 75 mm

VTS BPPJA *
* Special Order

Vetus Panel Connection Cables



- Supplied with multi-plugs

VTS BP29	20 ft (6 m)
VTS BP2910	33 ft (10 m)
VTS BP2916	53 ft (16 m)
VTS BP2918	59 ft (18 m)
VTS BP2920	66 ft (20 m)


BATSW250


BATSW600

Vetus Battery Main Switches

VTS BATSW250 250A

- Waterproof to IP67

VTS BATSW600 600 A

Vetus Solenoid Switches



VTS SET0009	Set: 12V solenoids (pair)
VTS SET0015	12V BOW50/60/75
VTS SET0020	24V BOW55/60/75
VTS SET0044	24V BOW80/95/110/125/160
VTS SET0111	12V BOW80/95



Vetus Fuse Holder

- With protective cover for "slow blow" fuses 40 - 500 Amp

VTS ZEHC100

Vetus Fuses



- Glass encapsulated

VTS ZE125	125 A
VTS ZE160	160 A
VTS ZE200	200 A
VTS ZE250	250 A
VTS ZE355	355 A
VTS ZE425	425 A

Vetus Spare Props



VTS SET0086	110mm
VTS SET0087	150mm
VTS SET0088	185mm
VTS SET0089	185mm
VTS SET0090	250mm

Vetus Drive Pins

VTS BP1129	Set of 5
VTS BP1168	BOW2512D 4 x 31mm
VTS BP275S	Set of 5 BOW50/60/75

Vetus Zincs



VTS SET0148	BOW25 kgf
VTS SET0149	BOW35/45/55 kgf
VTS SET0150	BOW60/75/80/95 kgf
VTS SET0151	BOW125/130/160 kgf
VTS SET0152	BOW220/230
VTS SET0153	BOW23A 23/50/80 kgf
VTS SET0221	BOW220/230/285/310

Vetus Carbon Brushes



VTS SET0126	Set of 8, BOW55/60/75 12V
VTS SET0127	Set of 4, BOW55/60/75 24V
VTS SET0129	Set of 8, BOW95/125 24V

Vetus Miscellaneous

VTS SET0006	Set: knob (2x) bowprop
VTS BPC00100	Solenoid cover small complete

LECTROTAB

MORE INFO

ELECTROMECHANICAL TRIM TAB SYSTEMS

Why Choose Lectrotab?

- ❖World Class Customer Support
- ❖Unique Design Features
- ❖Stainless or Alloy Tab Plates
- ❖Automatic Leveling Control
- ❖NMEA 2000 Compatibility











Rocker Switch



On-Touch LED Control



Automatic Leveling Control



Joystick LED Control

www.lectrotab.com

Lectrotab Actuators



- Actuators are precision-engineered for quiet operation with a non-hydraulic, maintenance-free design
- Fully self-contained
- Internal brake system prevents unwanted tab movement when under way or backing down
- Fully load tested to push 1000 lbs of force
- Comes with 23' of cable
- 8 second stroke speed
- Retracted: 11.875", Extended: 14.125"

LEC A-BK-13 Standard

- Short actuator, perfect for swim platform or limited vertical height applications
- 6 second stroke speed
- Retracted: 10", Extended: 11.5"

LEC S-BK-13 Short

Parts:

LEC BL Lower bracket assembly w/pin
LEC BU Upper bracket assembly w/pin

Lectrotab Bennett Retrofit Kit



- Replaces Bennett actuators
- Uses existing Bennett trim tabs, same mounting holes, and existing wiring harness
- Actuator assemblies are housed in a non-metallic, permanently sealed housing
- O-rings seal out water around the ram
- Check-valve and vent tube system to pressurize the actuator to about 8 PSI every time it retracts
- Internal friction brake system
- Upper brakcet can be positioned from vertical through horizontal, and lower bracket mates to the Bennett trim tabs
- Kit includes 2 actuators with 23' cable length

LEC RBXKA Standard, Requires switch
LEC RBXKS Short, Requires switch

Lectrotab NMEA 2000 Adapter

- Connects to all new or existing SLC-11 one-touch LED controls
- Compatible with most MFD displays that include trim tab indicators
- Includes an SR-3 (3') cable to connect to SLC-11
- 12/24VDC
- W: 3.81" x H: 1.63" x D: 1.39"
- Mounting hole to hole: 3.4375"



LEC SLC-NMEA

Lectrotab Rocker Switch



- Provides instant stop to prevent actuator over-run
- Gasket sealed to prevent water entry, and recessed rocker to prevent breaking
- Self-contained and does not require additional control box
- Single station only
- 12/24 VDC, Fuse: 12V = 20A, 24V = 10A
- W: 3.125" x H: 3.25"; Mounting hole: W: 2" x H: 2.25"

LEC SAF-SC

Accessories:

LEC SF-SC Replacement switch

Lectrotab One-Touch Level Control



- Microprocessor based trim tab control with LED tab position indicators
- Adjustable programming
- Completely sealed and waterproof display
- No external power module required for single or dual actuator per tab systems
- Use for single or dual stations / single or dual actuator per tab
- 12/24 VDC, Fuse: 12V = 15 or 20A, 24V = 10A
- 2 year warranty
- 3" x 3"; Mounting hole: 2" dia.

LEC SLC-11

Accessories:

LEC SR SR communication cable, 17-1/2"
LEC SR-20 SR communication cable, 20'

Lectrotab Automatic Level Control



- Microprocessor based trim tab control with LED tab position indicators
- Designed for planing and semi-displacement hulls larger than 20'
- Can be installed to a current Bennett or Lenco trim tab system
- Adapts to varying sea conditions, controls roll and pitch, and prevents automatic corrections while turning
- Retracts trim tabs when boat is off plane
- Internal GPS
- IP68 and UV protected
- Use for single station/single actuator
- CE approved
- 12/24 VDC, Fuse: 12V = 15A, 24V = 10A
- 2 year warranty
- W: 3.15" x H: 3"; Mounting hole: 2" dia.

LEC ALC-1

Lectrotab Manual Level Control



- Microprocessor based trim tab control with LED tab position indicators
- Adjustable programming features
- Completely sealed and waterproof display
- No external power module required; actuators connect directly to display
- Use for single station/single actuator
- 12/24 VDC, Fuse: 12V = 15 or 20A, 24V = 10A
- 2 year warranty
- W: 3.15" x H: 3"; Mounting hole: 2" dia.

LEC MLC-1

Lectrotab Joystick Level Control



- Microprocessor based trim tab control with LED tab position indicators
- Move both tabs up or down simultaneously with a single motion
- Automatic tab retraction and calibration with key or accessory switch off
- Completely sealed, completely waterproof and will not deteriorate in sunlight
- Single or dual station (dual requires second JLC-11 and JR-* cable sold separately)
- 12/24V, Fuse: 12V = 15 or 20A, 24V = 10A
- W: 3” x H: 3” x D: 2”; Mounting hole cutout: 2.625” dia.

LEC JLC-11

Lectrotab Trim Tab Kits

- Kits include (2) standard (A-BK-13) actuators, and (2) tabs
- *Order switch separately

Stainless

- 12 gauge, 304 stainless steel
- Continuous rolled and pinned hinge



LEC XKA9X9	9" x 9"
LEC XKA9X12	9" x 12"
LEC XKA9X18	9" x 18"
LEC XKA12X9	12" x 9"
LEC XKA12X12	12" x 12"
LEC XKA12X18	12" x 18"
LEC XKA12X24	12" x 24"



Aluminum

- 6005-T5 aluminum alloy
- Polypropylene hinges

LEC XKA9X9A	9" x 9"
LEC XKA9X12A	9" x 12"
LEC XKA12X9A	12" x 9"
LEC XKA12X12A	12" x 12"
LEC XKA12X24A	12" x 24"



Edge Mount - Stainless

- 12 gauge, 304 stainless steel
- Continuous rolled and pinned hinge
- Edge mount tabs

LEC XKA12X9-8122	12" x 9"

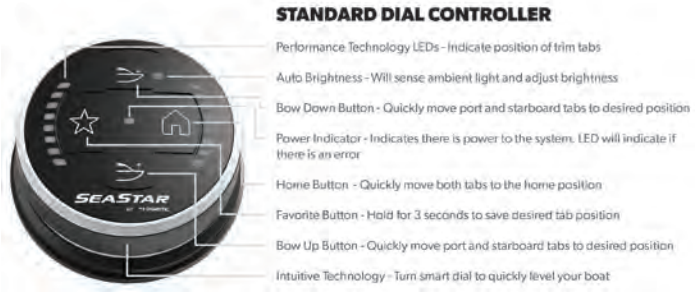
Lectrotab Parts & Accessories

LEC T9X9	Stainless steel tabs, 9" x 9"
LEC T9X12	Stainless steel tabs, 9" x 12"
LEC T9X18	Stainless steel tabs, 9" x 18"
LEC T12X9	Stainless steel tabs, 12" x 9"
LEC T12X12	Stainless steel tabs, 12" x 12"
LEC T12X18	Stainless steel tabs, 12" x 18"
LEC TA9X9	Aluminum tabs, 9" x 9"
LEC TA9X12	Aluminum tabs, 9" x 12"
LEC TA12X9	Aluminum tabs, 12" x 9"
LEC TA12X12	Aluminum tabs, 12" x 12"
LEC W4-20	Conductor cable, 20'
LEC W4-30	Conductor cable, 30'
LEC W4-40	Conductor cable, 40'
LEC HK	Hardware kit
LEC SS244-GW	Grady White upper bracket adapter

DOMETIC



Dometic SeaStar
Standard Trim Tab Systems - Complete w/Switch



- Intuitive dial controller with one touch buttons for simple operation
- High load capacity electric actuator for maximum lift force and precise tab positioning
- All-electric design reduces complexity and provides reliability
- Longer lasting marine grade 316 stainless steel hardware
- Premium performance and appearance trim tab system
- Tabs are 304 stainless steel, 12 gauge and stainless steel finish
- Adjustable pitch and roll control
- Auto-Retract Feature
- Kit includes actuators, dial controller, trim tabs, and harness

Kits

STR STT3103R	9" x 12" tabs
STR STT3105R	12" x 12" tabs

Control and Actuator Only, No Tabs

STR STT3601R	2-1/4" stroke, 11.5" actuator
STR STT3701R	4-1/4" stroke, 13" actuator

Features

Dial Controller:

- Turn dial in direction you want to level, and the actuators will quickly move to level the boat
- Single press bow up and bow down along with auto home
- Favorites button makes it easy to plane your boat with previously set tab position
- LED indication of position of trim tabs, and power indicator

Actuator:

- All-electric design to reduce complexity and increase reliability
- Sealed and potted wiring
- High torque DC motor
- Simple 2-piece design with dual housing seals minimizes possible water ingress points and prevents leakage
- Planetary gearbox and freewheeling ball screw
- Wiper removes particles from shaft and protects rear seal

Lenco 12V Electric Trim Tabs

Lenco Electric Standard Mount Trim Tab Kits make your boat ride smoother, drier, faster and with increased safety whether on a small skiff or a large yacht. The Lenco ballscrew design is more reliable, three times more powerful and features an instant response, which makes them very user friendly compared to typical hydraulics.



Lenco fast response electric actuators are fully submersible with all plug & play waterproof Deutsch connections. Trim Tab blades are 12 Gauge - 304 SS with a 5/8" flared trailing edge and 1/8" diameter hinge pin.

Part #	Boat Length	Tab L x W
LEN 15000-101	14'-18'	9" x 9"
LEN 15001-101	16'-25'	9" x 12"
LEN 15007-101	17'-30'	12" x 12"
LEN 15008-101	26' - 36'	12" x 18"



Parts:

LEN 15054-001 Standard replacement 2-1/4" actuator
LEN 15085-001 * Upper mount bracket - 2008 to present
LEN 50015-001D * Upper mount bracket - 2007 & prior
LEN 50014-001D * Lower mount bracket

* Special Order - may have stock

Kit Contents
- 2 each of 12-gauge stainless steel trim tab blades
- 2 each of #15054-001 actuator with 6' leads and Deutsch plugs
- 2 each of #30133-103 20' actuator extension wiring harnesses
- 2 each of #15085-001 (116) upper mounting brackets with gland seal
- 2 each of #50014-001 (119) lower mounting brackets
- 1 each of the Lenco owner's / installation manual
- All necessary stainless steel mounting hardware
- Switch kits sold separately

15116-101

Switch kits sold separately



Lenco Edge Mount Electric Trim Tab Kits - No Switch

Edge Mount actuators mount at the trailing edge of the plane, requiring less transom height than Lenco standard mount trim tabs.
- 2 of 12-gauge stainless steel trim tab blades (Model 15015-101 & 15016-101)
- 2 of 12-gauge stainless steel electro-polished trim tab blades (Model 15116-101 only)
- 2 of #15054-001 actuator with 6' leads and Deutsch plugs
- 2 of #30133-103 20' actuator extension wiring harnesses
- 2 of #15085-001 upper mounting brackets with gland seal
- 2 of #50014-001 lower mounting brackets
- 1 of the Lenco owner's / installation manual
- All necessary stainless steel mounting hardware

* Switch kits sold separately

Part#	Tabs	Boat Length	Min. Transom Height
LEN 15015-101	12" x 9"	14' - 18'	13.5"
LEN 15016-101	12" x 12"	17' - 30'	11"
LEN 15116-101	12" x 12"	17' - 30'	11"

Parts:

LEN 15054-001 Standard replacement 2-1/4" actuator

Lenco Double Rocker Switch 122

For Single Actuator Systems
- Double Rocker Switch available for Standard Trim Tabs, Standard & HD Performance Tabs (single actuator sersions)
- 12 & 24 volt

Kit Contents:
- #122 Carling Double Rocker Switch
- Deutsch Conntectors
- 36" Power Pigtail
- Installation hardware included



LEN 10222-211D 12VDC only

Lenco Elastomeric Tactile Trim Tab Integrated Switch Kits

Complete your Lenco trim tab system with the latest, maintenance-free (ALL-IN-ONE) integrated tactile switch kit design. This NEW switch technology improves accuracy and integrates the control box functionality into the key pad bezel.

Features Include:
- Simple, quick, Plug & Play installation
- Instant response
- Built-in retractor
- Low profile design
- Self-contained key pad with waterproof Plug & Play Deutsch connectors
- Wiring harness length 30" (76.2 cm) from the back of the switch bezel
- 36" power pigtail
- 2-1/16" hole cut-out size, overall key pad size of 2.75" x 2.75"
- 4.08" clearance required from the back of the key pad's mounting location





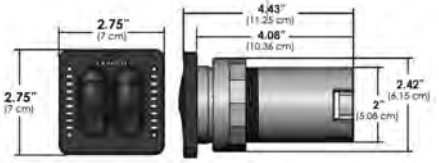
Standard Switch 124SSR
12 & 24VDC for Single Actuator Systems

LEN 15169-001

LED Indicator Integrated Switch Kit
12 & 24VDC for Single Actuator Systems

LED indicator lights let you know exactly where your trim tabs are at all times. A backlit keypad automatically illuminates graphics for night viewing. A photo eye reads ambient light and adjusts the indicator intensity for optimum viewing in all lighting conditions.

LEN 15170-001



Lenco (Two Piece) LED Switch Kit - Single



This LED tactile switch kit has a shortened bezel for consoles which require less depth to mount. Functionality is built into the externally mounted control box and must be mounted separately.
LED indicator lights let you know exactly where your trim tabs are at all times. A backlit keypad automatically illuminates graphics for night viewing. A photo eye reads ambient light and adjusts the indicator intensity for optimum viewing in all lighting conditions

- Simple, quick, Plug & Play installation
- Instant response
- Built-in retractor
- Low profile design
- Self-contained, sealed key pad & solid state control box with waterproof Plug & Play Deutsch connectors
- 36" power pigtail for control box
- 2-1/16" hole cut-out size, overall key pad size of 2.75" x 2.75"
- 2.33" clearance required from the back of the key pad's mounting location
- Self-Check feature

LEN 15270-001 12 or 24VDC

Parts:

LEN 30340-001 Control box only

Lenco 12V Electric Actuators



- 2-1/4" Stroke 101 Standard Actuator
- W: 2-1/2" x H: 11-1/2" (mount to mount)

Part #	Top Cap Hole	End Hole
LEN 15054-001	5/16"	5/16"

- 2-1/4" Stroke 101 XD Actuators
- W: 2-1/2" x H: 10-1/2" (mount to mount)

Part #	Top Cap Hole	End Hole
LEN 15055-001	5/16"	5/16"
LEN 15056-001	3/8"	3/8"

- 2-1/4" Stroke 101 XDS Short Actuator
- W: 2-1/2" x H: 10" (mount to mount)

Part #	Top Cap Hole	End Hole
LEN 15057-001	5/16"	5/16"

- 2-1/4" Stroke 102 Actuator
- W: 2-1/2" x H: 13" (mount to mount)

Part #	Top Cap Hole	End Hole
LEN 15059-001	5/16"	5/16"

- 4-1/4" Stroke 102 XD Actuator
- W: 2-1/2" x H: 12" (mount to mount)

Part #	Top Cap Hole	End Hole
LEN 15060-001	5/16"	5/16"

Parts:



LEN 15140-001 Lower mounting bracket kit for XD, XDS, and 102 HD/XD actuators

Lenco RetroFit Kit



Lenco Marine's RetroFit kit is designed as a direct replacement for the Bennett hydraulic pump.

- Use existing Bennett trim planes, bracket and switch
- Use all existing mounting holes

Kit Includes:

- 2 electric actuators
- 2 upper mounting brackets
- Switch jump wire kit
- All mounting hardware

LEN 15064-001

Note: Bennett Joystick control can not be retrofitted to the Lenco Actuators.

Lenco Parts

LEN 15087-001 (2) Delrin 1.5" pin for actuator
LEN 15087-002 (10) Delrin 1.5" pin for actuator
LEN 20149-001 Tab plane 12 x 12

ZIPWAKE

Zipwake Dynamic Trim Control System Kit Boxes

Zipwake's systems incorporate a state-of-the-art series of durable, fast-acting interceptors for a fully automatic experience that significantly enhances performance, fuel economy, comfort, and safety.

All Kit Box Features (S and E):

- Fully automatic and active control systems
- Dynamically eliminated boat pitch and roll
- Minimized wave resistance for greater fuel economy
- 3D controls for running trim, heel, or heading
- Durable, fast-acting interceptors provide supreme lift force characteristics
- All-inclusive standardized modular design for an affordable but quality system with simple installation and easy expansion
- Built-in GPS, 3D-gyro, and 3D-accelerometer
- Supported system integration with external devices via NMEA 2000 network
- 12-32V

Series S Kit Box Features:

- Suitable for planing and semi-planing boats up to 50' and up to 60 knots
- 5-10x faster than conventional trim tabs
- Any base installation can be expanded upon with up to two extra pairs of Series S interceptors (to a total of 6 interceptors) without need for additional connectors or power supply
- Includes: (2) Interceptors with 3 m cable and cable cover, (1) Distribution Unit with 4 m power cable, (1) Control Panel with 7 m standard cable, mounting screws, and documentation

Series E Box Features:

- Suitable for larger boats and professional use on boats up to 100'
- 40 mm/s blade rate, and 60 mm blade stroke
- Allows customized allocation of control forces by setting active or inactive control of pitch, roll, and yaw for each pair of port and starboard interceptors, or also may be swapped to mitigate roll-inducd steering forces from another interceptor pair or pairs
- Any base installation can be expanded with one centre-mounted Series E dual-servo interceptor or up to two Series E single-servo interceptors or two Series S interceptors, without any need for additional connectors or power supply
- Includes: (2) Interceptors with 3 m cable and cable cover, (1) Distribution unit with 6 m power cable (4 m cable with Pro series), (1) Control Panel with 15 m (Pro Series has 7 m cable plus 5 m extension for control panel) standard cable

Chine Kit Box Features:

- Chine interceptors provide a unique means of maximizing pitch and roll motion control by utilizing the furthest outboard surfaces of the hull bottom for lift generation
- As a rule, the lift effect of a chine interceptor matches the lift of a straight interceptor one size larger mounted inboard of the chine

Integrated Kit Box Features:

- Integrator module enables integration with complete system control on compatible multifunction displays, or allows you to monitor system data on a wide range of plotters, making flexible installations and clean dashboard solutions possible
- Standard Kit Boxes include Integrator Module with standard cable in place of Control Panel (Pro Series)

Pro Series Features:

Zipwake's Pro series now incorporate pro active motion control, voltage boost, and a state-of-the-art family of durable, rapid interceptors and unique 3D controls which provide the driver with unmatched, user-friendly, intuitive, and precise control of running trim, heel, or heading.

- Pro active pitch control - rapid automated adjustment of pitch angle
- Pitch-offset control with quick save - allows fine-tuning performance under varying sea states and load conditions
- Pro active roll control - rapid automated adjustment of roll angle
- Pro balanced turns - maintains ideal heeling angle
- Roll angle offset
- Wake shaping

Series S Kit Boxes



ZIP 2011145	300S, 11.8" interceptors
ZIP 2011146	450S, 17.7" interceptors
ZIP 2011147	600S, 24" interceptors
ZIP 2011732	300S Chine, 11.8" interceptors
ZIP 2011733	450S Chine, 17.7" interceptors



Pro Series S Kit Boxes PRO



ZIP 2021145	PRO 300S, 11.8" interceptors
ZIP 2021146	PRO 450S, 17.7" interceptors
ZIP 2021147	PRO 600S, 24" interceptors
ZIP 2021732	PRO 300S Chine, 11.8" interceptors
ZIP 2021733	PRO 450S Chine, 17.7" interceptors

Series S Integrated Kit Boxes



ZIP 2011515	300S, 11.8" interceptors
ZIP 2011516	450S, 17.7" interceptors
ZIP 2011517	600S, 24" interceptors
ZIP 2011519	300S Chine, 11.8" interceptors
ZIP 2011520	450S Chine, 17.7" interceptors



Pro Series S Integrated Kit Boxes PRO



ZIP 2021515	PRO 300S, 11.8" interceptors
ZIP 2021516	PRO 450S, 17.7" interceptors
ZIP 2021517	PRO 600S, 24" interceptors
ZIP 2021519	PRO 300S Chine, 11.8" interceptors

Series E Kit Boxes



ZIP 2012213	400E, 15.7" interceptors
ZIP 2012011	600E, 23.6" interceptors
ZIP 2012214	400E Chine, 15.7" interceptors



PRO Series E Kit Box PRO

ZIP 2022213	PRO 400E, 15.7" interceptors

Series E Integrated Kit Boxes



ZIP 2012270	400E, 15.7" interceptors
ZIP 2012271	600E, 23.6" interceptors
ZIP 2012272	800E, 31.5" interceptors
ZIP 2012274	400E Chine, 15.7" interceptors



PRO Series E Integrated Kit Box PRO

ZIP 2022270 *	PRO 400E, 15.7" interceptors

Pro Upgrade Kits PRO

ZIP 2022521	PRO S Series
ZIP 2022522	PRO Dual Servo Interceptor Series E
ZIP 2022523	PRO 400E

* Special Order - may have stock

Zipwake Mini Controller



- Compliments any Zipwake system with integrator module and MFDs
- Auto power on/off via ignition key sense
- Built-in GPS
- Surface or flush mount
- 12-32V
- 2.36" x 2.36" x 2.4 (total depth)

ZIP 2012401

Zipwake Control Panels

- Two unique control wheels for easy, quick, and intuitive manual control of running trim, heel, or heading (system normally operates in automatic control mode, enabled by press on AUTO button)
- Built-in GPS and motion sensors
- Sunlight readable colour display with auto dimming/night mode
- Instant state user feedback
- Auto power on/off via ignition key sense
- Full range of electrical interfaces
- Supports up to 3 additional control panels, and manages installation configurations from 1 to 6 interceptors
- IP67/IP64 (front/back)
- Can be surface, flush, or gimbal bracket mounted (gimbal bracket sold separately)
- 12-32V
- 4.41" x 3.86" x 2.42" (total depth)

Series S Control Panel



- 2.4" IPS TFT LCD screen

ZIP 2011238 7 m cable

Series E Control Panel



- 2.8" IPS TFT LCD screen
- Allows configuration of interceptor pair function

ZIP 2012032 15 m cable

Accessories:



ZIP 2011385 Control panel cover, Black
ZIP 2011381 Control panel cover, White
ZIP 2011622 Gimbal bracket

Pro Series Control Panel

- 2.8" IPS TFT LCD screen
- Can be combined with the integrator module

ZIP 2022032 7 m cable

Zipwake Integrator Module



- Seamlessly connects the Zipwake system to multifunction displays and/or smart devices, without the need for a separate control panel
- Fully automatic dynamic pitch and roll control, and steering and turn enhancement
- Motion sensors and magnetic compass
- Instant user feedback
- Auto power on/off via ignition key sense
- Supports up to three additional control panels in the system
- Manages installation configurations from 1 to 6 Series E dual-servo interceptors or any mix with single-servo interceptors
- Ignition protected
- IP67, and includes waterproof ethernet connector collar
- 12-32V
- 7.24" x 4.41" x 1.67"

ZIP 2012241

Zipwake Distribution Units

- Supplies the system with power
- Connects to main control panel or integrator module
- Robust, waterproof, oil resistant, and ignition protected
- Built-in electrical protection, including its own 10A protection fuse
- IP67
- 12-32V
- 8.07" x 2.68" x 1.77"

Series S Distribution Unit



- Accommodates up to six Series S interceptors
- Includes 4 m cable

ZIP 2011239

Series E Distribution Units



- DU-E accommodates up to three Series E dual-servo interceptors
- DU-EX expands the system to accommodate up to six Series E dual-servo interceptors or any mix with Series S interceptors
- Includes 6 m cable



ZIP 2012033 DU-E
ZIP 2012034 DU-EX

Pro Series Distribution Unit

- Built-in voltage boost circuitry supplies the servo units with 36V DC power
- Integrated and automatic circuit breakers/fuse
- Accommodates up to six Series S Pro interceptors
- 8.07" x 2.83" x 1.77"

ZIP 2022033

Zipwake Servo Units

- Fit inside the interceptor, where it drives the mechanism that provides linear motion to the blades
- Fast acting, durable, calibration free, and easy to install or replace
- Includes 3 m cable with self-sealing thru-hull fitting
- 25W max consumption
- IP68
- 12-32V



Series S Servo Unit

ZIP 2011230

Series E Servo Units

- Double shaft seals and precision-ground, high-grade stainless steel shaft provide extended service life
- SU-400E works with IT400-E straight and chine models
- SU-E works with IT600-E, IT800-E, IT1000-E, and IT600-E chine and tunnel models

ZIP 2012035 SU-400E
ZIP 2012235 SU-E

Pro Series S Servo Unit

- Ultra fast
- 35W max consumption
- 36V

ZIP 2021230

Zipwake Interceptors



- True outboard mount with modular design and integrated mounting plate
- Fast actuation
- Thru-hull fitting options of above waterline or concealed behind interceptor
- Submersible servo units
- Periodically selectable cleaning cycle prevents fouling inside the interceptor

ZIP 2011232	Interceptor, 300S
ZIP 2011702	Interceptor, Chine Port, 300S
ZIP 2011703	Interceptor, Chine Starboard, 300S
ZIP 2011701 *	Interceptor, 300S Intermediate
ZIP 2011233	Interceptor, 450S
ZIP 2011234	Interceptor, 600S
ZIP 2012018	Interceptor, 600E
ZIP 2012022 *	Interceptor, 600E, Tunnel
ZIP 2012019	Interceptor, 800E

* Special Order - may have stock

Zipwake External GPS Antenna



Optional, intended for use when no other strong GPS signal is available for the Zipwake system to obtain vessel speed necessary for the automatic motion controller.

- 5 Hz, 20-channel receiver
- Can be mast or surface mounted
- IP67

ZIP 2011240

Zipwake Accessories

ZIP 2011409	Series S roller set
ZIP 2011410	Series S cap set
ZIP 2011411	Series S screw set
ZIP 2011585	Volvo BTS Adaptor Plate Kit, 300S
ZIP 2011586	Volvo BTS Adaptor Plate Kit, 450S
ZIP 2011252	Interceptor front only, 300S
ZIP 2011742	Interceptor front only, Chine Port, 300S
ZIP 2011743	Interceptor front only, Chine Stbd, 300S
ZIP 2011253	Interceptor front only, 450S
ZIP 2011254	Interceptor front only, 600S
ZIP 2011257	Standard cable, 7 m
ZIP 2012037	Standard cable, 15 m
ZIP 2011258	Extension cable, 1.5 m
ZIP 2011259	Extension cable, 3 m
ZIP 2011260	Extension cable, 5 m
ZIP 2011261	Extension cable, 10 m
ZIP 2011071	Cable cover, S Series
ZIP 2012036	Cable cover. E Series

Bennett Euro-Style Waterproof Rocker Switch



Waterproof euro styled rocker switch control offers two independent rocker type switches, one for each tab.

- 2-3/4" x 2-3/4"

BEN 6BT-50030-16-00

Bennett Actuator



Complete nylon/fibreglass hydraulic cylinders.

BEN 6BT-50084-35-00 Standard thru transom

Bennett Hydraulic Power Units



This compact powerhouse directs the flow of fluid to the actuators. Fluid level can be checked at a glance. Bracket not included.

BEN 6BT-50078-41-00 12V, deutsch connectors

Bennett Trim Tabs Parts & Accessories

BEN 6BT-50012-07-00 *	Upper hinge spacer
BEN TPO18"X9"UF **	Trim plane only

Sport Tab Parts & Accessories

BEN HPM80 **	Hinge plate for M80
BEN HPM120 **	Hinge plate for M120
BEN 6BT-50076-29-00 *	Tab only for M120

Bennet Tab Parts & Accessories

BEN 6BT-50014-35-00 *	Backing plate only
BEN 6BT-50038-75-00 *	Hinge plate only

* Special Order - may have stock
** While Stock Last

SE Sport Hydrofoils



- Reduces planing time
- Increased lift with crescent plane surface
- Small Footprint - narrower design with more surface area than most foils
- Turbo Trac enhances thrust and control
- Rated fastest in independent tests (SE 300)
- Quick planing reduces gas expense
- Reduces or eliminates porpoising, cavitation, chine walking and deep-V wander
- One piece high strength engineering copolymer
- High Style Graphics permanently molded in the foil or TrimCover (SE 400)
- Exclusive "Site Gauge" template for easy installation
- Manufacturer's lifetime warranty

SE Sport 200

Recommended: 8 to 40 hp (will fit larger HP, except Mercury 40, 50, 60 Four Strokes). Dimension 13.5" x 14.3". Drill-Free installation with the optional Sport Clip.

SPO 72424	200 Series, Black
SPO 72426	200 Series, Dark Grey
SPO 72425	200 Series, White

SE Sport 300

Recommended: All outboards and sterndrives 40 to unlimited HP. For Volvo SX-A, DPS, DPR, DPH series and the Volvo 280 and 290 series, longer bolts and 1" fender washers are required. Dimension 14.5"x17". Will fit under Volvo's top mounted anode, by reversing anode to wide end forward. Not recommended for Volvo Ocean Series XDP. Dimension 14.5"x17". Drill-Free installation with the optional Sport Clip.

SPO 71614	300 Series, Black
SPO 71616	300 Series, Dark Grey
SPO 71615	300 Series, White

SE Sport 400

Recommended: All outboards and sterndrives 40 to unlimited HP. Optional drill and drill-free stainless hardware are both included. Simple and quick drill-free mounting with a common wrench and screw driver. Proven Disk-Grips hardware for the drill-free attachment will not mar or screw into your motor. Does not require the Sport Clip for a drill-free installation. Dimension 16"x17".

SPO 74644	400 Series, Black
SPO 74646	400 Series, Dark Grey

SE Sport Sport Clips



The simplest way to mount a Sport 200 or 300 hydrofoil without drill holes.
Fits all outboards and sterndrives 25HP and larger EXCEPT the following:

- Volvo with exhaust thru the cavitation plate.
- Mercury Bravo II
- Mercury Bravo III with only one round anode on bottom of cavitation plate (rare).
- Honda 200 HP and larger

SPO 73435

Davis Happy Trollers



Anodized aluminum with all stainless steel components. Installation onto the engine's cavitation plate is simple. In the locked "down," troll position, the troller acts as a thrust reduction control. In the locked "up", cruise position, it works like a trim-tab.

DIN 460	Large, fits I/Os and outboards 50 hp & up
DIN 461	Small, fits outboards up to 50 hp
Parts:	
DIN R460A	Backplate, large

Davis Lil'Fella Trolling Plate



The little brother to the Happy Trollers. Made of high quality, impact resistant polycarbonate with a stainless mechanism. Stainless mounting hardware included.

DIN 462 Fits outboards up to 25 hp

Repair Kit

Contains 2 lower springs, 2 locking bar springs, 4 ring pins and 1 control cord with swage.

DIN 468

THE SIERRA WARRANTY

THE BEST IN THE MARINE BUSINESS!

Discover peace of mind with Sierra's industry-leading Limited Lifetime Warranty. Our warranty is not just about coverage; it's about delivering promises, providing security, and ensuring a worry-free boating experience.

Our Limited Lifetime Warranty covers all parts and labor with no surprises in unexpected repair costs.

SIERRA®
PARTS THAT KEEP YOU MOVING



sierraparts.com

Noise Suppression	Robco / Silent Running / Soundown	09-003
Fuel Systems	Jerry Cans / Fuel Tanks / & Tie Downs	09-004 to 006
	Tank Senders & Fittings	09-007 to 008
	Hose Assemblies & Fittings	09-009 to 016
	Primer Bulbs / Fuel Hose / Funnels	09-017
	VaporTec Fuel System	09-018 to 019
	Fuel Accessories & Filters	09-019 to 031
	Racor Fuel Filters	09-023 to 031
	Fuel Filter Accessories	09-031
	Oil Filters / Oil Absorbents	09-032
Motor Accessories	Motor Flushers	09-033
	Tools	09-033 to 034
	Generator / Engine Parts	09-035 to 043
	Spark Plugs / Wire Sets	09-044 to 046
	Ignition Tools	09-046
	Seloc Service Manuals	09-047
	Thermo Tape	09-048
Running Gear	Packing	09-048 to 049
	Shaft Seals / Line Cutters / Stuffing Boxes	09-050 to 056
	Cutless Bearings	09-057
	Turning Point Propellers	09-058 to 067
	Prop Guards / Nuts / Wrenches / Locks	09-068 to 070
	Outboard Motor Locks	09-070
Exhaust Components	Sierra & HGE Exhaust Components	09-071 to 080
	Vetus Exhaust Components	09-081 to 083
	Centek Exhaust Components	09-084 to 087
	Exhaust Flappers	09-087

Engine Parts Lookup & Crossover

SIERRA®



FIND YOUR PARTS FAST!

View our large assortment of more than 1,000,000 spare parts.

Discover the Sierra Parts Finder - your ultimate tool for quick & easy part searches.

sierraparts.com

Also available via the westernmarine.com website

Robco Thermofab Millboard

Thermofab is a proven, high performance, high temperature alternative to asbestos. This premium quality millboard can be cut, punched, shaped and wet-molded.

Part #	Sheet Size	Thickness	Temp. Limit
ROB BRD700018	40" x 40"	3/16"	999° C
ROB BRD700025	40" x 40"	1/4"	999° C

Silent Running Sound Proofing



SR 1000 is a high performance coating specifically designed for marine applications to eliminate unwanted sound and vibration. SR 1000 works by converting noise energy and vibrations into a low-grade heat, which is then dissipated throughout the applied surface.

- Water-based, non toxic and VOC free - cleans up with water
- Designed as a "permanent" coating - excellent adhesion to all metal, fibreglass, wood and most plastic surfaces
- Adhesion is not affected by harsh cold or extreme heat - withstands temperatures from -30°F up to 300°F
- Dries to a hard surface and retains excellent elongation - will not chip or crack with any expanding, flexing or bending
- Cures virtually waterproof - extremely resistant to gas, oil and most chemicals
- Non flammable - self-extinguishing
- Applies faster and easier and penetrates where other traditional methods of dampening cannot

SIL SR1000-1QT Quart
SIL SR1000-1G Gallon
SIL SR1000-5G 5 gallon

Soundown Noise Reduction Products



Soundown manufactures noise control materials for a wide range of fields including the marine industry. They offer a wide variety of product, of which we only stock a few sku's, in various thicknesses, weights, and surface finishes to suit your customer's needs. Ask our sales staff for assistance.

Noise barrier sheets. 10-35 dB noise reduction. 1" and 1-1/4" thick barrier consisting of a layer of fire retardant foam with a 1 mil reflective, easy to clean, chrome polyester facing and a layer of 1 lb./sq.ft. lead substitute. Use for larger gasoline and all diesel engines for maximum quieting. Use a double layer for severe applications (up to 50 dB noise reduction). Do not use in areas where temperature exceeds 250°F.

Part #	Size	Thickness
SOU 54"x32"x1"	54" x 32"	1" w/facing
SOU 54x72x1-1/4F	54" x 72"	1-1/4" w/facing

Perforated aluminium sheets. Ideal as a protective and cosmetic covering for insulation. Oven cured white epoxy polyester hybrid coating offers excellent abrasion and chemical resistance.

Standard

SOU HFPA1 Pattern #1-36% open area 4' x 8'
SOU HFPA2 Pattern #2-25% open area 4' x 8'

QuieTech

QuieTech is a wet laid acoustic nonwoven fabric made of cellulose and glass fibers bonded firmly to the perforated panel. It is very homogeneous in weight and thickness.

SOU HFPA1B Pattern #1-36% w/QuieTech 4' x 8'
SOU HFPA2B Pattern #2-25% w/QuieTech 4' x 8'

Accessories:

SOU HPA25K 2-1/2" aluminum insulated pin & keeper
SOU HPA45K 4-1/2" aluminum insulated pin & keeper
SOU HWA Aluminum pin keeper only
SOU HW50 S/S washer 1-1/4" OD x 3/16" ID
SOU HPAD Cap only for pin & keeper



Mylar tape is a 2" wide self adhering product for finishing sound barrier installations. The SCRIM version has the same texture as the faced sound barrier for a professional looking finish.

SOU HTA20L 2" x 216' mylar
SOU HTA20SC 2" x 125' SCRIM mylar

► *Also See* Spray Adhesives pg 06-011



Soundown Noise Reduction EcoDamp

Soundown's EcoDamp is a self-adhesive, constrained-layer damper for noise reduction on light structure and panels. EcoDamp also is used as an acoustic barrier to stop noise leakage from pipe or cable penetration points, as it is highly flexible and easily formed to create a seal.

- Viscoelastic polymer and an aluminum contraining layer
- Non-foil side has an aggressive pressure sensitive adhesive backing
- Sold by linear foot x 54"

SOU DT12P-1/8X54"

Scepter
Self Venting Gas Jerry Cans



07539

- Self venting spout
- Cap is self locking
- High density polyethylene
- Red in colour

SCE 07081	5 litre, 10" x 8-3/4" x 6-1/4"
SCE 07079	10 litre, 11-1/2" x 11" x 8"
SCE 07622	20 litre, 14-1/2" x 14-3/4" x 9-3/4"
SCE 07539	25 litre, 16" x 13-3/4" x 9-3/4"

Scepter
Self Venting Diesel Jerry Can



- Self venting spout
- Cap is self locking
- High density polyethylene
- Yellow in colour

SCE 07649 20 litre, 14-1/2" x 14-3/4" x 9-3/4"

Scepter Jerry Cans



- 20 litre capacity
- Reversible self-venting spout
- High density polyethylene
- L: 18" x W: 13" x D: 6.5"

SCE 03609	Gas
SCE 03711	Diesel
SCE 04933	Water

Scepter Combo Gas/Oil Jerry Can

NEW



- Convenient dual chamber can accommodate 6 litres of oil in one side, and 2.25 litres of oil in the other
- Durable HDPE
- Equipped with an easy-to-pour, flexible, self-venting spout
- Spout stores inside the can when not in use
- CSA compliant

SCE 03615

Scepter DuraMAX Flo n' Go



- High-density polyethylene in red for use with gasoline, diesel, or kerosene fuels
- Includes Flo n' Go Maxflo siphon pump
- 53 litre capacity and a 305 cm fuel hose
- UL-approved, vented fill cap
- Recessed grooves strapping locations
- Dual mechanical shut-off valves, at both tank and hose, for spill-proof Flo n' Go disconnection
- Meets DOT & UN transportation Requirements
- L: 33-1/2" x W: 15-1/4" x D: 11-1/4"

SCE 06792 Complete tank, 10' hose & pump

Scepter DuraMAX Flo'n'Go Diesel



- Heavy wall construction diesel fuel station
- Includes 10' fuel hose and pump spout
- 2 brass shut-off valves at hose and can
- Vented fill cap
- Easy-rolling, high-impact wheels
- Flow rate approx. 2 GPM gravity feed, 1 GPM using pump against gravity
- L: 16.2" x W: 12.7" x H: 33.8"

SCE FDMD140 Complete tank, 10' hose & pump

Moeller CSA Fuel Tank



- Manually vented closure cap
- Universal 1/4″ NPT fuel pick-up adapter
- Meets ABYC standards
- ISO and CSA certified
- Not for use in USA
- L: 21" x W: 13.5" x D: 8.5"

MOE 620049 ** 6 US gallon

** While Stock Lasts

Scepter
CSA Gas Tanks



08935

- 03781 Manual vent cap & 1/4" NPT take-off/gauge
- .77 gallon fuel reserve (03781)
- High-density polyethylene
- UL listed, CSA Certified, ISO Certified

Part #	US Gallons	L x W x D
SCE 03780	3.2	14.3" x 10.4" x 9.1"
SCE 03781	6.6	21.5" x 14.3" x 9.3"

Parts:

SCE 08935 Manual vent cap & gasket

Scepter Jerry Can Spout Kit



- 4 pc, screw cap, vent cap, flex spout & stopper

SCE 03647

Scepter "Under Seat" CSA Portable Fuel Tanks





- Rugged, one-piece tank shell construction
- Easily carry with integrated top handle
- Accepts stanndard 1/4" marine tank fittings
- UV-stabilized, high density polyethylene
- Meets CSA B376 standards
- Made in Canada

Part #	Gallons	L x W x D
SCE 10504	3	19.3" x 12.2" x 6.8"
SCE 10509	6	19.3" x 12.2" x 10.2"

Scepter CSA Neptune Series Fuel Tanks



04158



04921

- Plastic construction
- Baffled, manually vented cap
- Accepts all 1/4" NPT fittings
- Meets ABYC/CSA

Part #	US Gallons	L x W x D
SCE 04158	3	16.7" x 10.5" x 8.1"
SCE 04921	6	20.7" x 13" x 10.9"



08935

Parts:

SCE 08935 Manual vent cap & gasket (carded)

Moeller Topside Fuel Tank



- Polyethylene construction
- Certified to comply with industry requirements
- Designed with UV-stabilized resin
- Tested for use with blended fuels

Part #	US Gallons	L x W x D
MOE 031624	24	29.25" x 19" x 14"

Scepter Topside Fuel Tanks



08190



08189



08191

- Polyethylene construction
- Easy to read direct sight gauge
- Accepts all 1/4" NPT fittings

Part #	US Gallons	L x W x D
SCE 08189	9	22.5" x 14.3" x 11.75
SCE 08190	12	22.5" x 14.3 x 13.6"
SCE 08191	12	24.3" x 18.1" x 10.75"



08935

Parts:

SCE 08935 Manual vent cap & gasket (carded)

Scepter External Threaded Manually Vented Fuel Cap



- Universal Moeller/Scepter tank cap
- Bulk

SCE 04083

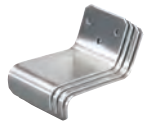
Scepter Threaded EPA Fuel Cap



- Includes gasket and stainless retaining chain

SCE 09315

Moeller Hold Down Kit



- 4/pkg, aluminum brackets
- For below deck tanks

MOE 035710

Epco Gas Tank Strap



- 1" x 6' polypropylene webbing
- Rust-resistant metal hardware
- Stainless steel screws for mounting

EPC GS1

Sea-Dog Gas Tank Strap



- 1" x 6' nylon webbing

SED 359995-1 Stainless steel



Scepter Gas Tank Strap

- 72" overall length
- Rubber insert in strap allows for tank expansion
- (2) Universal nylon/rubber straps with quick-release buckles
- (4) Stainless steel hold down brackets
- (8) Mounting screws

SCE 10837

Moeller Installation Kit



Includes a Zimac "Gas" deck fill, 2 x 1-1/8" & 4 x 2-1/4" stainless steel hose clamps, chrome plated brass thru-hull vent, 1-1/2" fuel fill hose, 25" of 5/8" vent hose, a 5/8" brass hose barb, and two mounting strips.

MOE 035723

Moeller Permanent Fuel Tanks

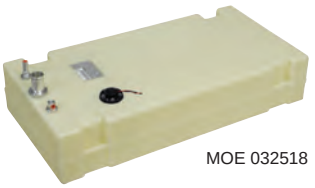
- Utilizes rotationally molded, cross-linked polyethylene plastic
- Fittings with high O.D. and I.D. tolerances ensure the highest level of input flow
- Ideally suited for gasoline or diesel use with appropriate return kit
- Hold down grooves molded directly into tank shell
- Conforms to all ABYC, NMMA and U.S. Coast Guard regulations

Part #	US Gallons	Dimensions (L x W x H)
MOE 032612	12	20" x 14" x 14.25
MOE 032518	17	36.5" x 18.25" x 10"
MOE 032618	19	39" x 8.25" x 20.5"
MOE 032519	19	26" x 16" x 14.5"
MOE 032624 †	24	51" x 8.75" x 20.63"
MOE 032627	27	36" x 11.81" x 19.03"
MOE 032529	29	43" x 25.75" x 12.92"
MOE 032534	34	60.25" x 26.5" x 11"
MOE 032535	35	69.5" x 16" x 10.5"

† Does not use the 035710 holdown kit

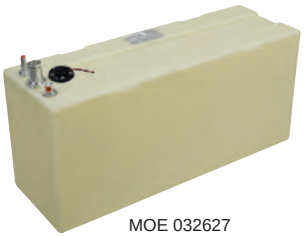

MOE 032612


MOE 032519


MOE 032518


MOE 032618


MOE 032529

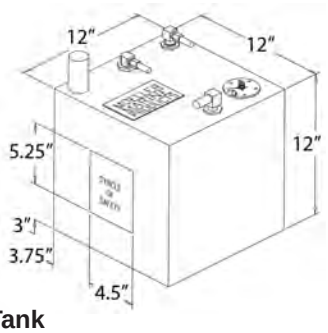

MOE 032627


MOE 032624


MOE 032535


MOE 032534



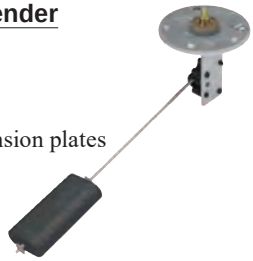


Moeller Diesel Fuel Stove/Heater Tank

- 7 US gallon capacity
- Utilizes rotationally molded, cross-linked polyethylene plastic
- Fittings include: 1-1/2" inlet, 5/8" vent, 3/8" pickup and 3/8" return

MOE FT-0704

Moeller Universal Electric Fuel Sender



- Adjusts from 4" to 28"
- Pre-calibrated
- Standard 5 hole SAE mounting pattern
- Heavy duty SAW steel flange and extension plates
- Will not rust or corrode
- 33-240 Ohm
- Tested to ensure accurate readings

MOE 035725-10 4" - 28"
MOE 035729-10 12" - 24" (see note)
Note: Can only be used for tanks with 1-1/2" cutout

Parts:
MOE 035728-10 5 hole gasket set

Sierra Universal Electric Fuel Sender



- Adjusts from 4" to 24"
- Includes gasket, mounting screws and complete installation instructions

STR 90424P

Moeller Mechanical Sending Units



- Mechanical direct sight gauge on a swing arm sender
- Internal measurement components will not rust or corrode
- Calibrated at 33-240 ohms

Part #	Tank Depth
MOE 035752-10	10" tank
MOE 035753-10	11-3/4" tank
MOE 035757-10	17-3/4" tank
MOE 035758-10	22" tank

Parts:
MOE 035760-10 Mech to Elect conversion capsule (33-240 ohms)
MOE 035759-10 Direct sight mech read capsule

Moeller Universal Sending Unit



- Universal fuel level sender with diesel return, 1/4 NPT female with 3/8" barb
- Top mounting
- All stainless steel construction
- 1/4" ground plate terminal
- Calibrated at 33-240 ohms

MOE 035789-10 6" to 24"

Faria Electric Fuel Gauge Sending Unit



- Stainless steel construction
- Sealed electrical connections
- 6' electrical leads
- Calibrated at 33-240 ohms

FAR 91001 8 to 16"

Moeller Reed Array Sending Units



- Fits 6" to 24" tank depths
- Calibrated at 33-240 ohms
- Will not corrode or rust

MOE 035791-10 Sender only

Moeller / WEMA Electric Fuel Gauge Sending Units



- 316 Type, stainless steel construction provides efficient performance
- A direct original equipment manufactured sender replacement (By WEMA USA)
- Calibrated at 33-240 Ohm
- Designed for gas, ethanol, diesel, biodiesel and non-potable water use

Part #	Length	Tank Depth	
MOE 035773-10	5"	6"	Pkg
MOE 035774-10	6"	7"	Pkg
MOE 035769-10	7"	8"	Pkg
MOE 035761-10	8"	9"	Pkg
MOE 035762-10	10"	11"	Pkg
MOE 395059-110SC	11"	12"	Bulk
MOE 035764-10	12"	13"	Pkg
MOE 395059-130SC	13"	14"	Bulk
MOE 035765-10	14"	15"	Pkg
MOE 395059-150SC	15"	16"	Bulk
MOE 395059-160SC	16"	17"	Bulk
MOE 035767-10	17"	18"	Pkg
MOE 395059-180SC	18"	19"	Bulk
MOE 395059-190SC	19"	20"	Bulk
MOE 035768-10	20"	21"	Pkg
MOE 395059-210SC	21"	22"	Bulk
MOE 395059-220S	22"	23"	Bulk

Moeller Sender Gasket Set



- 5 hole gasket set for electic fuel senders

MOE 035728-10

► Also See Fuel Gauges pg 03-002 to 007

► Also See Tank Sensors pg 11-016 to 018

Sierra Hose Barbs



- Brass construction

SIE 18-8042	1/4" NPT x 1/4" hose
SIE 18-8055	1/4" NPT x 5/16" hose
SIE 18-8074	1/4" NPT x 3/8" hose

EVM Anti-Siphon Valve



- Brass construction

EVM A/S-160-B 3/8" hose x 1/4" NPT

Moeller Anti-Siphon Valves



- Aluminum construction

MOE 033801-10	1/4" NPT x 3/8" hose
MOE 033802-10	3/8" NPT x 3/8" hose

EVM Aluminum Tank Withdrawal Elbow



- 3/8" x 1/4" NPT with 3/8" hose barb

EVM WE-3814-WA

Accessories:

EVM 2401 5' x 3/8" rigid nylon tubing

EVM S/S Tank Withdrawal Elbows



- Stainless tank withdrawal elbows
- 3/8" x 1/4" NPT with 3/8" hose barb

EVM WE-3814-WSS

- 1/2" x 1/2" NPT with 1/2" hose barb

EVM WE-1212-WSS

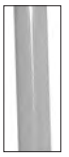
Moeller Bulkhead Fuel Fitting



- Straight, 3/8" barb
- Cut-Out: 5/8"

MOE 033210-10

EVM Nylon Tubing



- 5' rigid nylon 6/6 tubing

EVM 2401	3/8" ID
EVM 2402	1/2" ID

EVM Tank Withdrawal Assemblies



- Aluminum tank withdrawal assembly with a rigid nylon 6/6 tubing
- 3/8" NPT-Male x 1/4" NPT-Female

EVM 3814WA2400N-P 24" tube

- 1/2" NPT-Male x 1/2" NPT-Female

EVM 1212WA1200N-P 12" tube

EVM Tank Withdrawal Assembly



- Stainless tank assembly with a rigid nylon 6/6 tubing
- 1/2" NPT-Male x 1/4" NPT-Female

EVM 1214WSS1634NCP 16-3/4" hose

Moeller Tank Withdrawal Assemblies



- Use with diesel or gas
- 3/8" NPT male x 1/4" NPT female aluminum withdrawal assembly
- Tygon F-4040-A hose with 302 S/S internal flex spring and cylinder screen
- Hose with 302 S/S internal flex spring and cylinder screen

MOE 635021-10	22"
MOE 635022-10	36"

EVM Tank Withdrawal Assemblies



- Use with diesel or gas
- 1/2" NPT male x 3/8" NPT female aluminum withdrawal assembly
- Tygon* F-4040-A hose with 302 S/S internal flex spring and cylinder screen

EVM 1238WA1200TCP	12"
EVM 1238WA2200TCP	22"

* Specifically designed to handle most fuels and industrial lubricants,Tygon® fuel and lubricant tubing resists the swelling and hardening caused by hydrocarbon-based fluids.This significantly reduces the risk of failure due to cracking and leakage. Its minimum extractability safeguards the liquid or vapor being transferred against adulteration.

Moeller Fuel Pick-up Tube



- Aluminum fitting 3/8" NPT male x 1/4" NPT female
- 3/8" ID chemical resistant nylon tubing
- OEM certified

MOE 033500-24 24"

► *Also See* EVM Fittings pg 10-043

Moeller Fuel Line Assemblies

- UV, gasoline, and solvent-resistant construction with stainless steel clamps
- Fittings built to strict OEM specifications for replacement parts
- O-ring construction on all fittings ensures tight, leak-free connections
- Internal check valve in primer bulb prevents fuel flow back
- Dual internal check valves
- Maximum flow for improved engine performance

On Tank (not included)	Tank Fitting	Assemblies	Engine Fitting	Description
033477-10		**MOE 034385-10 Mercury**		
	033486-10		033482-10	▪ 3/8" ID hose x 83" ▪ Mercury two prong clip style ▪ 1998 & newer engines
033418-10		**MOE 034388-10 Mercury**		
	033421-10		033485-10 Female Bayonet --- 033418-10 Combo kit 90° elbow	▪ 3/8" ID hose x 83" ▪ Bayonet style ▪ Cast aluminum fittings
033400-10		**MOE 034391-10 Johnson/Evinrude**		
	033480-10 --- 033410-10		033480-10 --- 033410-10	▪ 3/8" ID hose x 83" ▪ Bombardier (Johnson/Evinrude) --- ▪ 5/16" ID hose
033470-10		**MOE 034394-10 Yamaha**		
	033481-10 --- 033471-10		033481-10 --- 033471-10	▪ 3/8" ID hose x 83" --- ▪ 5/16" ID hose
		Universal **MOE 034390-10** Universal 3/8" x 83" **MOE 034701-10 **** Universal 3/8" x 72" **MOE 034701-10-1** Universal 3/8" x 72", includes Suzuki connector **MOE 033389-10** Universal 3/8" x 12' **MOE 034395-10** Universal 5/16" x 83"		
	Universal		Universal	

*** It is not recommended to mix and match different manufacturers fittings**

** While Stock Lasts

Scepter Fuel Line Assemblies

- Assemblies use a compounded, tough and pliable UV-resistant hose
- Promotes maximum fuel flow
- Includes fittings built to strict OEM specifications for replacement parts
- Uses O-ring construction on all fittings for tight, leak-free connections
- Hose is 18-1/2" on the tank end and 55-1/2" on motor end

On Tank (not included)	Tank Fitting	Assemblies	Engine Fitting	Description
05837		**SCE 07482 Mercury**		
	05793		05791	▪ 3/8" ID hose x 83" ▪ Mercury two prong clip style ▪ 1998 & newer engines
09476		**SCE 07483 Mercury**		
	07497		09476	▪ 3/8" ID hose x 83" ▪ Bayonet style ▪ Cast aluminum fittings
04068		**SCE 07486 Johnson/Evinrude**		
	05822		05822	▪ 3/8" ID hose x 83" ▪ Bombardier (Johnson/Evinrude)
04075		**SCE 07489 Yamaha**		
	05815		05815	▪ 3/8" ID hose x 83"
	Universal **SCE 07485** Universal 3/8" x 83 **SCE 07491** Universal 5/16" x 83"			
	Universal		Universal	

*** It is not recommended to mix and match different manufacturers fittings**

Scepter Fuel Line Assembly Kit



- Universal fit for 2 & 4 cycle applications
- Compatible with ethanol fuels
- Durable UV-resistant outer layer; gasoline and solvent resistant
- Primer bulb has internal check valves
- Includes 7' x 3/8" fuel hose with primer bulb, quick connect 1/4" male NPT fuel tank fitting, 3/8" female tank/hose fitting, and stainless steel hose clamps - does not include boatside fitting

SCE 11641

Sierra Silverado 3000 Premium Series Fuel Line Assemblies

- Ultra cold weather flexibility
- SAE J1527 type B1-15 approved
- Highest UV resistance for long life
- Resistant to Ethanol blend fuels and is CARB compliant for small engine use
- Premium rubber for maximum durability

On Tank (not included)	Tank Fitting	Assemblies	Engine Fitting	Description
18-80402		**SIE 18-8016S-1 Mercury/Mariner**		
	18-8091		18-8076	▪ 3/8" ID hose ▪ 8' total length
18-8063		**SIE 18-8009S-1 Johnson/Evinrude**		
	18-8092		18-8092	▪ 3/8" ID hose ▪ 8' total length ▪ 2 hp - 75 hp (1976-02)
		SIE 18-8014S-1 Johnson/Evinrude		
	Universal		18-8056	▪ 3/8" ID hose ▪ 8' total length ▪ All V6 & V8 (1976-02)
18-8077-1		**SIE 18-8017S-1 Yamaha**		
	18-80415		18-80415	▪ 3/8" ID hose ▪ 8' total length ▪ F75-F250 & 115-300hp
		Universal **SIE 18-8013S-1** Universal 5/16" x 8' total length **SIE 18-8015S-1** Universal 3/8" x 8' total length		
	Universal		Universal	

Sierra Silverado 4000 Premium Series Fuel Line Assemblies

- Premium rubber for maximum durability
- Poyester braid with weather resistant CPE cover
- Flexible THV barrier layer

On Tank (not included)	Tank Fitting	Assemblies	Engine Fitting	Description
		SIE 18-8024EP-2 Mercury/Mariner		
	18-8074		18-8076	▪ 3/8" ID hose ▪ 8' total length
18-8063		**SIE 18-8009EP-2 Johnson/Evinrude**		
	18-8092		18-8092	▪ 3/8" ID hose ▪ 8' total length ▪ 2 hp - 75 hp (1976-02)

*** It is not recommended to mix and match different manufacturers fittings**

MOELLER marine products

Moeller Fuel Line Connectors

- Built to strict OEM specifications

Tank Fitting 1/4" NPT Threads into fuel withdraw on tank	Connects to Tank Attaches to fuel hose on the fuel tank side	Fuel Hose ID	Connects to Engine Attaches to fuel hose on the engine side
Mercury			
MOE 033418-10 Kit includes: 1/4" NPT 90° & 1/4" NPT -F, 3/8" Barb - Female	**MOE 033421-10** 3/8" Barb to Male Bayonet (die cast)		**MOE 033485-10** 3/8" Barb to Female Bayonet (nylon) **MOE 033418-10** Kit includes: 1/4" NPT 90° & 1/4" NPT -F, 3/8" Barb - Female
		3/8"	 033485-10  033418-10
MOE 033477-10 1/4" NPT to Male 2-Prong Clip (brass) 1998 & newer style engines	**MOE 033486-10** 3/8" Barb to Female 2-Prong Clip 1998 & newer style engines		**MOE 033482-10** 3/8" Barb to Female Large 2-Prong Clip 1998 & newer style engines
		3/8"	
Honda			
MOE 033496-10 1/4" NPT (chromed brass) 1991 & newer style engines	**MOE 033498-10** 3/8" Barb to Female (chromed brass) 1991 & newer style engines		**MOE 033497-10** 3/8" Barb to Female 2001 & newer style engines
			
MOE 033501-10 1/4" NPT (chromed brass) 1991 & newer style engines	**MOE 033502-10** 3/8" Barb to Female (chromed brass) 1991 & newer style engines		
			

*** It is not recommended to mix and match different manufacturers fittings**

MOELLER marine products

Moeller Fuel Line Connectors

- Built to strict OEM specifications

Tank Fitting Threads into fuel withdraw on tank 1/4" NPT	Connects to Tank & Engine Attaches to fuel hose on the fuel tank side or the engine side	
Johnson/Evinrude		
MOE 033400-10 1/4" NPT Male	**MOE 033480-10** 3/8" Barb	
		
Chrysler/Force		
MOE 033461-10 1/4"NPT Male (chromed brass)		**MOE 033464-10** 5/16" Barb Female (chromed brass)
		
Suzuki		
MOE 033503-10 1/4" NPT Male (chromed brass) Engines over 75 hp	**MOE 033487-10** 3/8" Barb Female (chromed brass)	
		
MOE 033463-10 1/4" NPT Male (chromed brass)	**MOE 033488-10** 3/8" Barb Male (chromed brass)	
		
Yamaha		
MOE 033470-10 1/4" NPT Male	**MOE 033481-10** 3/8" Barb Female	**MOE 033471-10** 5/16" Barb
		
Nissan/Tohatsu		
MOE 033450-10 1/4" NPT Male (chromed brass) Engines to 90 hp	**MOE 033451-10** 3/8" Barb Female (chromed brass) Engines to 90 hp	
		
MOE 033491-10 1/4" NPT Male (chromed brass)	**MOE 033492-10** 3/8" Barb Female (chromed brass)	
		

*** It is not recommended to mix and match different manufacturers fittings**

Scepter Fuel Line Connectors

▪ Built to strict OEM specifications

Tank Fitting 1/4" NPT Threads into fuel withdraw on tank	Connects to Tank Attaches to fuel hose on the fuel tank side	Fuel Hose ID	Connects to Engine Attaches to fuel hose on the engine side
Mercury			
SCE 09476 1/4" NPT - Female tank 3/8" Barb - Female engine	**SCE 07497** 3/8" Barb to Male Bayonet (die cast)		**SCE 09476** 3/8" Barb to Female Bayonet (die cast) Kit includes: 1/4" NPT 90° & 1/4" NPT
		3/8"	
SCE 05837 1/4" NPT to Male 2-Prong Clip (brass) 1998 & newer style engines	**SCE 05793** 3/8" Barb to Female 2-Prong Clip (plastic) 1998 & newer style engines		**SCE 05791** 3/8" Barb to Female Large 2-Prong Clip 1998 & newer style engines
		3/8"	

Scepter Fuel Line Connectors

▪ Built to strict OEM specifications

Tank Fitting Threads into fuel withdraw on tank 1/4" NPT	Connects to Tank & Engine Attaches to fuel hose on the fuel tank side or the engine side	
Johnson/Evinrude		
SCE 04068 1/4" NPT	**SCE 05822** 3/8" Barb	**SCE 05787** 5/16" Barb
		
Suzuki		
SCE 04070 1/4" NPT, engines over 75 hp	**SCE 05785** 3/8" Barb, engines over 75 hp	**SCE 05781** 5/16" Barb, engines over 75 hp
		
SCE 04065 1/4" NPT engines up to 75 hp	**SCE 05779** 3/8" Barb, engines up to 75 hp	-
		
Yamaha		
SCE 04075 1/4" NPT	**SCE 05815** 3/8" Barb	**SCE 05813** 5/16" Barb
		
Universal		
	SCE 11553 3/8" Barb female, 1/4" NPT male	
		

*** It is not recommended to mix and match different manufacturers fittings**

SIERRA

Sierra Fuel Line Connectors

Tank Fitting 1/4" NPT Threads into fuel withdraw on tank	Connects to Tank Attaches to fuel hose on the fuel tank side	Connects to Engine Attaches to fuel hose on the engine side
Mercury		
-	-	**SIE 18-8069** 5/16" Barb Female Bayonet Die Cast
-	-	
SIE 18-80402 1/4" NPT	**SIE 18-8091** 3/8" Female Barb	-
		
SIE 18-8077-1 1/4" NPT Male 2-Prong Clip Brass	**SIE 18-8075** 1/4" Hose Female	-
		
Honda		
SIE 18-80400 1/4 NPT Chromed Brass	**SIE 18-80401** 3/8" Hose, Female, new style	**SIE 18-80403** 3/8" Barb Female Plastic, late model Rectangular locking post
		
SIE 18-80406 1/4 NPT Chromed Brass, Old style Replaces 16977-ZV5-900	**SIE 18-80407** 5/16", with interlocking post (mates with 18-80403 & 18-80408)	**SIE 18-80408** 5/16" Barb Female Plastic, late model Rectangular locking post
		
-	-	**SIE 18-80420** 1/4" hose, Female, engines 2001 and earlier Round locking post
		

Sierra Nissan/Tohatsu/Mercury/Mariner



- Connects to engines

Nissan/Tohatsu: Replaces 394-7025-0 (female) Mates with 18-80417
Mercury/Mariner: Replaces 22-13563T3 (female) Mates with 18-80412

SIE 18-80410-1 3/8"

*** It is not recommended to mix and match different manufacturers fittings**

Tank Fitting Threads into fuel withdraw on tank 1/4" NPT	Connects to Tank & Engine Attaches to fuel hose on the fuel tank side or the engine side	
Johnson/Evinrude		
SIE 18-8063 1/4" NPT Male Tank Brass	**SIE 18-8056** 5/16" Barb Female Plastic, Comes with hose clamp	**SIE 18-8092** 3/8" Barb Female, Engine Plastic
		
Chrysler/Force		
SIE 18-8071 1/4" NPT Male Tank Chromed Brass	**SIE 18-8062** 3/8" Barb Female Chromed Brass	-
		
Suzuki		
SIE 18-8071 1/4" NPT Male Chromed Brass, .432 O.D.	**SIE 18-8062** 3.8" Barb Female Chromed Brass (Tank end)	-
		
SIE 18-8078 1/4" NPT Male Chromed Brass, .508 O.D.	**SIE 18-8079** 5/16" Barb (Tank end)	**SIE 18-80405** Female to 3/8" Hose barb
		
Yamaha		
SIE 18-8077-1 1/4" NPT Male Brass	**SIE 18-8085** 5/16" Barb Female Bayonet Die Cast	**SIE 18-80415** 5/16" Barb Female Plastic
		
-	**SIE 18-80414** 1/4" Replaces 6G1-24305-04, 6G1-24305-00	**SIE 18-80413** 1/4" Replaces 6Y1-24305-04. Mates with 18-8077-1
		
Nissan/Tohatsu		
SIE 18-8078 1/4" NPT Large inlet	**SIE 18-8079** 5/16" Barb, Female	**SIE 18-8088** 5/16" Barb, Female, Engine side
		
-	-	**SIE 18-8089** (Metric Threads) 5/16" Hose.Fits: 5-90HP 2-stroke and TLDI models Mates with 18-8088
		

*** It is not recommended to mix and match different manufacturers fittings**

Sierra Suzuki

DF25-DF140 HP
Mates with 18-80425

SIE 18-80404 3/8" barb



Sierra Suzuki

Replaces: 65750-94404
Fits: DT4-DT140 Mates with 18-80409 & 18-8087

SIE 18-80418 1/4" barb



Scepter Primer Bulbs



- Stainless steel clamps
- Dual internal check valves

SCE 07813	1/4" hose
SCE 07494	5/16" hose
SCE 05869	3/8" hose

Sierra EPA Primer Bulbs



- Both EPA/CARB certified
- Double check valves with stainless spring and viton ball
- 7-1/2" overall length

SIE 18-8002EP-1	1/4"
SIE 18-8004EP-1	5/16"
SIE 18-8005EP-1	3/8"

Sierra Primer Bulbs

- Check valves w/stainless spring and viton ball
- Nitrile bulb construction



SIE 18-8002S	1/4" hose
SIE 18-8004S	5/16" hose
SIE 18-8005S	3/8" hose

Sierra Double Fuel Line Hose



- Double fuel line hose for OMC pressurized systems
- ID: 1/8"
- 50' roll, sold by the foot

SIE 18-8051

Sierra Bleeder Hose



- Made from alcohol resistant compounds
- 50' lengths
- Sold by the foot

SIE 18-8048	0.09 ID x 0.220 OD
SIE 18-8050	0.0625 ID x 0.190 OD

► *Also See* Fuel Hose pg 10-009

Star brite Funnel Set



- 3 piece plastic set

STA 38010

Racor Fuel Filter Funnels



Heavy duty, fast flow, pre-filter funnel which separates free water and contaminates from gasoline, diesel, heating fuel and kerosene.

RAC RFF3C	3.9 GPM
RAC RFF8C	5 GPM

Sierra Disposable Funnel



- For use in any/all marine engine applications
- Sturdy paper material holds up to many different types of oil

SIE 18-0003	Sold each

Sea-Dog Oil to Gas Measuring Bottle



Plastic bottle allows you to accurately measure correct oil to gas mixture for all 2 cycle engines. Good for mixtures of 24:1, 33:1, 40:1, 50:1 and 100:1. Will measure for both gallons and litres.

SED 588614

The VaporTec fuel pressure management system ensures that a boat's fuel system constantly maintains proper vapor pressure in all situations. This eliminates any unintended excess pressure which can seriously damage a boat or engine.
EPA Certified/CARB Approved.

Attwood EPA Certified Carbon Canisters



- EPA Certified Carbon Canister meets EPA diurnal emission control requirements
- Properly installing an EPA Certified diurnal emission control component eliminates the need for a builder to submit test results or an application to the EPA for vessel certification.
- Fits 5/8" vent hose
- Compatible with ethanol blended fuels
- 2 year warranty
- Dimensions vary depending on (H)orizontal or (V)ertical mount

ATT 99CC045-1	70 gallon,	L: 11.16" x H: 4.01" x W: 5.04" (H) L: 10.48" x H: 5.5" x W: 3.05" (V)
ATT 99CC085-1	220 gallon,	L: 17.22" x H: 4.01" x W: 5.04" (H) L: 16.52" x H: 5.5" x W: 3.05" (V)
ATT 99CC150-1	420 gallon,	L: 25.1" x H: 4.01" x W: 5.04" (H) L: 24.41" x H: 5.5" x W: 3.05" (V)

Attwood Fill Limit Vent Valve



- Sets the full level of fuel in the tank
- Prevents liquid fuel from reaching the carbon canister or vent system during vessel operation, trailering, and storage
- Compatible with ethanol blended fuels and plastic or aluminum tanks
- Passes all USCG CFR 33 and ABYC H-24 fire test requirements, and CARB and EPA requirements
- Integrated high-performance gasket included
- Essential component of VaporTec and SecureStop

ATT 99FLB100-1 with GRV communication

Attwood Grade Valve

99GVP000-1





99GVG000-1

- When used in conjunction with a fill limit vent valve, allows proper venting when the fuel tank is at unusual angles
- Prevents liquid fuel from reaching the carbon canister or vent system during vessel operation, trailering, and storage
- Integrated impact protection feature
- Compatible with ethanol blended fuels
- Passes all USCG CFR 33 and ABYC H-24
- fire test requirements

ATT 99GVP000-1 Grade valve
ATT 99GVG000-1 Gasket only

Attwood Inlet Control Valve



- Allows proper fuel flow into the fuel tank during refueling
- Supports 4-18 gpm refueling rates
- Built-in over-fill and over-pressure relief safety features when used in an Attwood system
- For 1-1/2" ID fill hose
- Compatible with ethanol blended fuels
- EPA Certified

ATT 99ICV000-1

NOTICE:
Environment and Climate Change Canada (ECCC) has published regulations that maintain alignment with the US Environmental Protection Agency (EPA) emission standards for vehicles and engines. Regulations affected by the changes in the US EPA technical amendments include: Marine Spark-Ignition Engine, Vessel and Off-road Recreational Vehicle Emission Regulations.

Attwood 90° P-Trap Fuel Tank Vent Standard Mount



- Prevents water entering the fuel tank, while allowing air to vent freely
- Eliminates need for an anti-siphon loop in the vent hose
- Compatible with ethanol blended fuels
- For 5/8" I.D. hose
- Hull thickness: 1/4" - 9/16"
- Compatible with ethanol blended fuels

ATT 1670-3 Black w/ black vent head

Attwood 90° P-Trap Fuel Tank Vent Flush Mount



- Meets the ABYC weathertight / watertight requirements and ensures no liquid water will reach a fuel vent line, carbon canister or fuel tank
- P-traps allow air to vent freely during normal sea conditions and washdowns
- Flush mounting stainless steel cap
- Cover can be removed for vent inspection, debris removal and fuel system pressure testing
- For 5/8" I.D. hose
- Hull thickness: 1/4" - 1"
- Meets the ISO 10088 requirement for minimum venting area
- Meets ABYC Standard
- Compatible with ethanol blended fuels

ATT 1674-1 Black w/ stainless steel vent head

Attwood Deck Fill



- Exclusive, industry-leading overpressure relief safety valve
- Exclusive built-in nozzle retention
- Integrated flame/spark arrestor
- Designed and tested to prevent water from entering the fuel system
- Supports 4-18 gallons per minute during refueling when used with Attwood components
- Hose size: 1-1/2"
- EPA Certified and meets CARB 13 CCR 2235 and ISO 13331 nozzle mating and retention standards

ATT 99DFCCSS1 Stainless steel cap

Attwood Low Profile Angled Deck Fill



- Stainless steel construction
- Overpressure relief valve is protected by a waterproof screen to eliminate water entering the system
- 4-18 gpm refueling when used in an Attwood fuel system
- Flip-up tethered cap for ease of use
- Fits 1-1/2" fill hose
- Compatible with ethanol blended fuels
- EPA Certified (red dots indicate visual closure)

ATT 99DFCCLPAS1

Attwood Deck Fill for Pressure Relief Systems



- Essential component of VaporTec and SecureStop
- Dual 1 PSI diurinal emission control overpressure relief safety valves
- Triple high-flow vacuum valves
- Designed and tested to prevent water from entering the fuel system
- Automatic nozzle shutoff 4-18 gpm
- Fits 1-1/2” fill hose and 5/8” vent hose
- Meets EPA, CARB 13 CCR 2235, and ISO 13331 nozzle mating and retention standards
- Compatible with ethanol blended fuels

ATT 99DFPVASY1-1 Stainless steel flat cap

Attwood Universal Sprayless Connector



A safe way to eliminate the spraying of fuel when connecting and disconnecting pressurized fuel hoses during fueling or maintenance.

- Female hose fitting compatible with 3/8" and 5/16" fuel lines
- Male tank fitting compatible with standard 1/4" NPT fuel tank output (Use thread sealant)
- Male and female connectors include check valves that automatically close upon disconnecting
- Compatible with ethanol blended fuels and all OEM brand engines
- EPA Certified / CARB approved

ATT 8838US6

Attwood Surge Protector



- Easy to install unit prevents fuel surge in your fuel vent line, and protects from fuel spills due to sloshing and refuelling
- Installs in-line on standard 5/8" vent line
- Operates in any orientation within 45º of vertical
- Complete with two hose clamps

ATT 1675-6 Gas use only

Perko In-Line Vent Hose Surge Protector



- Polymer valve
- Aluminum surge float
- Prevents fuel surges and back splash during re-fueling
- Fits in 5/8" fuel hose vent line
- The in-line surge protector functions both as a fill limit valve assisting in pump auto shut-off and a check valve to prevent wellback in the vent line
- NOTE: Must be installed within 45° of vertical if vented.

PER 553-DP0

Perko Combination Gas Fill / Tank Vent



- Sealed ratcheting cap fills with pressure relief for 1-1/2" hose - straight neck
- Chrome plated bronze cap
- Black polymer body
- Integral tank vent with flame arrestor and anti surge valve
- EPA compliant sealed cap with pressure relief valve

PER 661-G00-CHR

Perko Inlet Check Valve - Flapper Valve



- "In-Pipe ICV" fits inside the pipe itself
- Mounts inside standard 1-1/2" fill pipes near the connection to the fuel tank
- Eliminates the need to retool existing doghouse on plastic tanks
- Allows for full 18 GPM flow rates

PER 635-DP0

Perko Spill Reduction Kit



- Combination of a PER 553-DP0 in-line surge protector and a PER 635-DP0 in-line flapper check valve
- Installing an inlet check valve in the fill hose and a surge protector in the vent line can significantly reduce spitback & wellback during the refueling of most boats.
- For use with 1-1/2" fill hose and 5/8" vent hose

PER 30-DP0-005

Green Marine Fuel Whistle



The "Fuel Whistle" is a simple solution to prevent spills while fuelling. Provides an audible signal during fuel filling which stops when an overflow situation arises.

- Fits 5/8" fuel lines
- Easy one-time installation

WES 204

Racor Lifeguard Fuel/Air Separator



Installed in the tank vent line Lifeguard efficiently separates air from fuel forced into the line. Vapour is vented, and all fuel returned to the tank.

- Also prevents overboard spillage caused by agitation
- Fuel tanks can be filled without spillage
- Valve contains pressure up to 2.4 PSI

Part #	Air Flow	Line	Dia. x L	Fuel
RAC LG-50	12 CFM	5/8"	1-3/4" x 6"	Gas only

Sierra In-Line Fuel Filters & Replacement Elements

SIE 18-7710-1	Yamaha 68T24251-00-00 Fits: F6, F8 (2001 & up)	
SIE 18-7712	Mercury Mariner 35-16248, Nissan/ Tohatsu 369022300M Fits: Mercury 4/5 2 cyl (99 & Up), 4/5/6 4 stroke (99 & Up), 8/9.9 4-stroke (05 & Up) Firs: Nissan/Tohatsu 2 stroke, 5 HP thru 9.8 HP/4 stroke, 4 HP thru 30 HP	
SIE 18-7713	Mercury Mariner 35-80365M Yamaha 646-24251-02-00 Fits: Mercury/Mariner 9.9 4-Stroke(95-98), 15 4-Stroke(98 & Up), Yamaha 6 (89, 92-99), 8 (89-99, 01-02), F4 (99-02), F9.9 (89-95, 97-99, 01-02), FT 9.9 (88-90)	
SIE 18-7714	Mercury Mariner 35-877565T1 Fits: 25 4-Stroke (98 & Up), 30 4-Stroke (99-01), 30 3 cyl 4-Stroke (99-01), 40 4-Stroke (98-01), 40 4_Stroke 4 cyl (01-02), 40 Carb 3-cyl 4-Stroke (02 & Up), 50 4-Stroke 4 cyl (01-02), 60 4-Stroke, 4 cyl (01-02), 75 4-Stroke (00 & Up), 90 4-Stroke (00 & Up)	
SIE 18-7716	Suzuki 15410-87J10, Johnson Evinrude 5032323 Fits: Suzuki DF25 Thru DF140, Johnson 25 4-Stroke (04-05), 30 4-Stroke (04-07), 40/60/70 4-Stroke (02-06), 90/115/140 4-Stroke (03-04, 06), Evinrude 25/30/40/50/70 4-Stroke (00-01)	
SIE 18-7718	Mercury 35-879885T Fits: 135/150/175 4-Stroke Verado (S/N 1B227000 & Up), 200/225 4-Stroke Verado (S/N OT980000 & Up), 250/275, 4-Stroke Verado (S/N OT801000 & Up)	
SIE 18-7719	Suzuki 15410-98500, Johnson Evinrude 5032238 Fits: Most small Suzuki outboards, Johnson 4/5 (2003-07), 6 4-Stroke (2005-07), 10/15 4-Stroke (2002-07), 40/50/60/70 4-Stroke (2002-06), Evinrude 40/50 4-Stroke (2000-01)	
SIE 18-7720	Honda 16900-SR3-004 For BF115, BF130,AX, AY,A1: Series #14ZW50E1M	
SIE 18-7721	35-864572 Fits: All MPI & EFI engines W boost pump, 8.1L & 496cid, for 3/8" ID fuel lines	
SIE 18-7722	3/8" barb Replaces: 5005266 For: E-Tec 40, 50, 60, 90, 115, 150, 175, & 200DPL	
SIE 18-7516	Yamaha 67F-24251-00-00, 67F-24251-01-00, 67F-24251-02-00 Fits F100 (1999-01)	
SIE 18-7517	Yamaha 65L-24563-00-00 Fits150-250 1997-2005	
SIE 18-7518	Yamaha 6P2-24563-00-00, 6P2-WS245-00-00 21 micron, includes removal tool	

Sierra In-Line Fuel Filters & Replacement Elements

SIE 18-7780	6F5-24563-00-00 For 9.9 - 225NR	
SIE 18-7781	61N-24563-00-00 For: 9.9/90° SX	
SIE 18-7786	Honda 16900-SA5-004 For BF35/45AM, BF 40/50A, AW, AX: Series #14ZV50M: BF90,AT,AW,AX,AY: Series#14ZW00E1M	
SIE 18-7802	35-87946A3, 35-87946-Q3, Q4, For: 6 HP thru 25 HP	
SIE 18-7828-1	Mercury 1/4" small capacity	
SIE 18-7829	Mercury 1/4" large capacity	
SIE 18-7830	Mercury 35-16494-1, 35-816296 1, T1, Q2 Johnson/Evinrude 398327	
SIE 18-7831	Mercury 802128A1, Johnson/ Evinrude 398319	
SIE 18-7832	1399-3938 For: AJ, KA, KB, KC, KD, WM, WMC Carb	
SIE 18-7855	Mercruiser 1387-2150	
SIE 18-7857-1	A.C. Delco GF-61P For 3/8" Fuel Line	
SIE 18-7859	908034, Most GM Inline 4 & 6 cycle Ford and GM V-8's up to 400 HP	
SIE 18-7861	REPLACEMENT CANISTER AND FILTER Replaces: 981911	
SIE 18-7869	Mercruiser 1397-8767, 1397-8545	
SIE 18-7784	Mercruiser 35-11004A1, 35-803897Q1 For: 2.5L/3.0L(6229718 & later), All MC224 CID (6218037 & later), All GM 262 CID (A331455 & later) with Carter Fuel Pumps	
SIE 18-7860	Chris-Craft 16.83-90006, Mercruiser 35-49088A2, 35-49088Q2, OMC 381690, 312456 For: Inline 4 & 6 cycle engines	

Sierra In-Line Fuel Filters & Replacement Elements

SIE 18-7936	Mercury Mariner 35-888289T2, Suzuki 15412-93J00 Fits: 75 4-Stroke (2000 & Up), 90 4-Stroke (2000 & Up), 115 EFI 4-Stroke (2001 & Up)	
SIE 18-7977-1	Mercruiser 35-866171A01, 35-8M0093688 Fits 2004 & newer MCM/MIE engine with Gen III fuel cooler 20 micron	
SIE 18-7979	Mercury Marine 881540, Yamaha 68V-24563-00-00 Fits: 115 EFI (4 Stroke), 75HP (4 Stroke), 75HP (4 Stroke) (Bodensee), 90HP (4 Stroke)	
SIE 18-7981	Mercury Marine 35-884380T Fits: All Verados, 90HP (DFI) (3 cyl), 115 DFI (3 cyl) / 200HP (DFI) / 225HP (DFI) (including 3.0L DFI)	
SIE 18-79809	Yamaha 6P3-WS24A-00-00 F150, F200, F225, F250, Z-VZ 150 to 300 hp. after April 2006 For filter housing marked "6P3" ONLY!	
SIE 18-79799	Replaces: 6D8-WS24A-00-00 F50-F115 after April 2006 For filter housing marked "6D8" ONLY! 6D8-WS24A-00-00 Yamaha Marine	
SIE 18-79908	Replaces: Honda 16911-ZY3-000, 16911ZY3-010 20 Micron	
SIE 18-8127-1	Replaces: Pleasurecraft RP080026 Fits: PCM 1996 & up EFI engines	

EMP In-Line Fuel Filters & Replacement Elements

EMP 35-01227	5/16", Mercury 816296Q2 / BRP 398327 / Yamaha 65W-24251-10-00 / Sierra 18-7830	
EMP 35-35205	Mercury 879885Q / Sierra 18-7718 2001 & later 3-cyl 30-40 HP, 4-cyl 40-200 HP, 6-cyl 225-400 HP inline for Verado engines	
EMP 35-35120	Mercury 35-8M0020349, 35-8M0122423 Optimax & Verado/ Sierra 18-7981	
EMP 35-35201	Yamaha 68V-24563-00 / Sierra 18-7979	
EMP 35-35403	Yamaha 6D8-WS24A-00-00 / Sierra 18-79799 For filter housing marked "6D8" only	
EMP 35-35411	Yamaha 6P3-WS24A-01-00 / Sierra 18-79809 For filter housing marked "6P3" only	

EMP Fuel Water Separator Kits

35-37851



- Includes aluminum filter head, filter, and 2 brass plugs

EMP 35-37851	10 micron Replaces Universal 22687 / Sierra 18-7852-1
EMP 35-37855	10 micron, tall Replaces Mercury 802893A4 / Yamaha MAR-10MAS-10-00 (115 HP & up) / Sierra 18-7777-1

EMP Gasoline Water Separating Fuel Filters



EMP 35-37800	Mercury 802893Q01 / Sierra 18-7944 (10 micron, short)
EMP 35-37801	Mercury 866594K01 / Sierra 18-7945 (10 micron, long)
EMP 35-37807	Yamaha MAR-FUELF-IL-TR / Sierra 18-7866 (10 micron)

EMP Racor Style Water Separating Fuel Filters



EMP 35-37810	10 micron Replaces Racor S3227 / S3228UL / Sierra 18-7948
EMP 35-37811	10 micron Replaces Racor S3213 / S3220UL / Sierra 18-7919

Moeller Clearsite Plastic Bowl



- UV-protected resin drainage bowl
- Outboard engine use only, not for use with diesel fuel

MOE 033336



Sierra Gasoline Water Separating Fuel Filters

- For all 2 & 4 cycle gas engines
- Removes 98.8% of water and particles
- Meets and exceeds Mercury and OMC specifications
- Meets all ABYC regulations

SIE 18-7789	Volvo 3851218-2, 3852413 OMC 502906
SIE 18-7844	Short, 21 micron Mercury 35-807172, 35-802893Q
SIE 18-7845	21 micron, Long - 4.35", Mercury - 35-802893Q Yamaha - ABB-FUELF-IL-TR
SIE 18-7846	21 micron, Johnson/Evinrude 502905 Crusader 98041
SIE 18-7865	Compact 10 micron MAR-MINIF-ILTRL
SIE 18-7866	High capacity 6", 10 micron Yamaha MAR-FUELF-IL-TR
SIE 18-7944	Short, 10 micron Mercury 35-807172, 35-802893Q
SIE 18-7945	Long, 10 micron, Mercury 35-802893Q, Yamaha ABB-FUELF-1L-TR
SIE 18-7946	10 micron, OMC 502905
SIE 18-7967	10 micron, Mercury 35-18458Q3 V6 EFI 95 or earlier
SIE 18-7968	10 micron, Mercury 35-18458Q4 V6 EFI 96 or later
SIE 18-7989	Volvo 3851218-2, 3852413, 3862228 OMC 502906
SIE 18-8149	High capacity 10 micron Replaces: Volvo 3847644 For use with side-by-side fuel pump applications.

Sierra Replacement Gasoline Elements & Assemblies



Replacement element fits Racor 320RRAC01

SIE 18-7948 Honda 17670-ZW1-030GH, Mercury 35-886638, Racor S3227, Suzuki 99105-20005



Replacement element for Racor S3213

SIE 18-7919 Mercury 35-809097, Yamaha MAR-24563-00-00



SIE 18-7928-1 18-7919 filter and AquaVue bowl

SIE 18-7922-1 AquaVue bowl only

Replacement element for Racor B32014

SIE 18-7941-1 18-7920 filter and AquaVue bowl

Sierra Gasoline Water Separating Fuel Filter Kits



18-7776-1 18-7852-1

- Includes bracket, filter & 2 pipe plugs
- For all 2 & 4 cycle gas engines
- Removes 98.8% of water and particles
- Meets and exceeds Mercury and OMC specifications
- Meets all ABYC regulations

SIE 18-7775-1	Tall filter, 21 micron 3/8" NPT 18-7845 filter & 18-7775 aluminum bracket
SIE 18-7776-1	Tall filter, 21 micron, 3/8" NPT 18-7845 filter & 18-7776 S/S bracket
SIE 18-7852-1	Tall filter, 21 micron, 1/4" NPT 18-7845 filter & 18-7853-1 aluminum bracket
SIE 18-7848-1	Short filter, 21 micron, 1/4" NPT Kit 18-7844 filter & 18-7853-1 bracket
SIE 18-7932-1	Tall filter, 10 micron, 1/4" NPT 18-7919 filter, 18-7853-1 bracket, & 18-7922-1 AquaVue bowl
SIE 18-7983-1	Aluminum short filter, 10 micron, 1/4" NPT Kit, 18-7944 & 18-7853-1

Sierra Racor Style Diesel Water Separating Fuel Filters



18-99193

- Fast and simple spin-on design
- Meets OEM specifications for removal of emulsified water
- Filter canister epoxy coated to prevent corrosion
- Includes replacement gasket and O-ring

SIE 18-99193	Replaces: R12T For Racor Series 120A, 120B, 140 10 Micron
SIE 18-99199	Replaces: R12P For Racor Series 120A, 120B, 140 30 Micron
SIE 18-99194	Replaces: R12S For Racor Series 120A - 140R 2 Micron
SIE 18-99196	Replaces: R20S For Racor Series 230R 2 Micron
SIE 18-99200	Replaces: R20P For Racor Series 230R 30 Micron

Sierra Racor Style Collection Bowls



18-99201 18-99203

- Plugged threaded port available for water sensor addition

SIE 18-99201	Replaces: RK10215 Clear bowl for R12T, R12S, R12P (Sierra 18-99193, 18-99194, 18-99199) Use with 120 Series filters Hand turn drain valve
SIE 18-99202	Replaces: RK350-02 Clear bowl for Sierra 18-99196,18-99200 Use with 230 Series filters Hand turn drain valve
SIE 18-99203	Replaces: RK22368 Metal bowl for Sierra 18-99196, 18-99200 Use with 230 Series filters Drain port

Sierra Fuel Filter Head/Brackets

Universal design.



18-7853-1

SIE 18-7853-1 1/4" thread, Aluminum, Mercury 89876A3 Yamaha MAR-FLTHD-AL-12

SIE 18-7775 3/8" thread, Aluminum

Sierra Diesel Fuel Filter



SIE 18-7858 Replaces: Volvo 858201. For CAV Type Unit AQ120B, 125A, B, 131A, 140A, 145A,B, 151, BB, 140,145A

Sierra Diesel Filters



18-99180

- Racor style diesel filters *
- Fuel water separating media is OEM tested and approved
- Integrated bail on top of end cap for easy removal

SIE 18-99186	Replaces: 2010SM-OR 500 Turbine series - Final	2 micron
SIE 18-99182	Replaces: 2010TM-OR 500 Turbine series - Secondary	10 micron
SIE 18-99183	Replaces: 2010PM-OR 500 Turbine series - Primary	30 micron
SIE 18-99191	Replaces: 2040N-02 / 2040V2 900 Turbine series - Final	2 micron
SIE 18-99185	Replaces: 2040N-10 / 2040V10 900 Turbine series - Secondary	10 micron
SIE 18-99184	Replaces: 2040N-30 / 2040V30 900 Turbine series - Primary	30 micron
SIE 18-99187	Replaces: 2020N-02 / 2020V2 1000 Turbine series - Final	2 micron
SIE 18-99181	Replaces: 2020N-10 / 2020V10 1000 Turbine series - Secondary	10 micron
SIE 18-99180	Replaces: 2020N-30 / 2020V30 1000 Turbine series - Primary	30 micron

** Note: Interchangeable with the "V" series filters providing the filters are used in legacy filter assemblies. The New FV and MVA turbine assemblies are NOT serviceable with Sierra turbine filters at this time.*

Sierra Diesel Fuel Filter



SIE 18-79960 Yanmar 104500-55710 Fits: All GM Series, YM Series, HM Series, QM Series

Scepter In-Line Fuel Filter



- Trap dirt and other metallic particles
- Clear housing allows user to quickly see dirt and foreign particles in the fuel
- 1/8" NPT threaded
- Universal kit includes 1/4", 5/16" and 3/8" OD barbs
- Not for use on inboard engines

SCE 07109 Filter & Housing

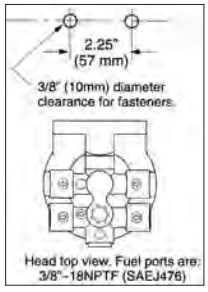
Sierra Fuel Injector Cleaning Kit

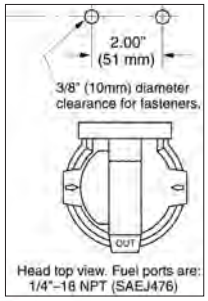


Fuel additives and gasoline alone cannot clean away layers of fuel deposits when the engine is running. The only proven method is by removing the "stale" fuel (the cause of the deposits) and using a fuel system cleaner periodically. By using Sierra's Fuel Injection Cleaning System regularly, you will help maintain the injector's cleanliness and performance throughout the life of your engine. Kit includes: Cleaning system container, hose, small fitting, large fitting and carrying case.

SIE 18-8600

Racor Gasoline Water Separating Fuel Filters





- Designed for high performance applications
- Coated with an electrostatically applied powder coating for corrosion resistance
- Clear contaminant collection bowl with drain valve for outboards only
- 10 micron Aquabloc media is standard
- Rated 98% efficient at 10 micron per SAE test procedures
- Corrosion-resistant construction
- Metal bowl units for inboard powered boats meet 33 CFR and USCG regulations
- Meets ABYC standard for gasoline-powered vessels
- Maximum working pressure: 7.0 PSI (0.5 bar)
- 490R-RAC-01 includes integral primer pump



120R-RAC-02 120R-RAC-01 320R-RAC-01 320R-RAC-02 490R-RAC-01 660R-RAC-01 660R-RAC-02

Part #	Bowl	GPH	Ports	Clean Pressure Drop	H x W x D	Micron Rating	Replacement Element
RAC 120R-RAC-01	Clear	30	1/4"-18 NPTF	.2 PSI (0.01 bar)	6.5" x 3.2" x 3.2"	10	RAC S3240
RAC 120R-RAC-02	Metal	30	1/4"-18 NPTF	.2 PSI (0.01 bar)	6.5" x 3.2" x 3.2"	10	RAC S3240TUL
RAC 320R-RAC-01	Clear	60	1/4"-18 NPTF	.6 PSI (0.04 bar)	9.4" x 4" x 4"	10	RAC S3227
RAC 320R-RAC-02	Metal	60	1/4"-18 NPTF	.6 PSI (0.04 bar)	9.4" x 4" x 4"	10	RAC S3228TUL
RAC 490R-RAC-01	Clear	90	3/8"-18 NPTF	1.0 PSI (0.07 bar)	9.9" x 4.5" x 4.8"	10	RAC S3227
RAC 660R-RAC-01	Clear	90	3/8"-18 NPTF	.6 PSI (0.04 bar)	11" x 4.2" x 4.5"	10	RAC S3232
RAC 660R-RAC-02	Metal	90	3/8"-18 NPTF	.6 PSI (0.04 bar)	11" x 4.2" x 4.5"	10	RAC S3232TUL

Parts:

RAC RK-30475 320R bowl kit, clear

RAC RK-30473-02 320R bowl kit, metal

Racor Replacement Elements

(2 Micron) Brown | (10 Micron) Blue | (30 Micron) Red

Part Number	Micron Rating	Filtration Level	Dimensions H x Dia.	GPH	Applications
RAC S3228SUL	2	Final	4" x 3.7"	60	
RAC S3240	10	Secondary	2.4" x 3"	30	120R-RAC-01
RAC S3240TUL				30	120R-RAC-02
RAC S3227	10	Secondary	4" x 3.7"	90	320R-RAC-01 & 490R-RAC-01
RAC S3228TUL				60	320R-RAC-02
RAC S3232	10	Secondary	5.5" x 3.7"	90	660R-RAC-01
RAC S3232TUL				90	660R-RAC-02



S3228SUL S3240 S3227 S3232TUL

NOTE UL Models can be used on Metal or Plastic bowls

Racor
Gasoline Water Separating 10 Micron Fuel Filters

Racor's spin-on filters are designed for use on Mercruiser and OMC gasoline engines. Using Racor's Aquabloc technology, these filters allow gas and gas/oil mixtures to flow freely to the engine while keeping water and dirt out. A rugged see-through bowl is available for outboard engines. On inboard applications a metal bowl is required.



B32020MAM



B32021MAM



B32013



B32014

Part #	Applications	Dimensions H x Dia.	Bowl	Replacement Element
RAC B32020MAM	Inboard or Outboard Replaces quicksilver. Also fits: SMI, Sierra, Aquapower, and other filter heads	6.5" x 3.8"	Metal	**RAC S3220TUL**
RAC B32021MAM	Inboard or Outboard Replacement for O.M.C #174144 inboard or outboard filter	6.5" x 3.8"	Metal	**RAC S3221TUL**
RAC B32013	Outboard Replaces Quicksilver, Yamaha, Suzuki, SMI, Volvo Penta, Sierra, AquaPower, and other filter heads (comes with a clear bowl–shown above)	7.2" x 3.8"	Clear	**RAC S3213**
RAC B32014	Outboard Replaces OMC (comes with a clear bowl)	7.2" x 3.8"	Clear	**RAC S3214**

Parts:

RAC S3220SUL Element (2micron) for B32020MAM

Racor Water Separating Fuel Filter

- Rated at 15 GPH for diesel and 35 GPH for gasoline
- Rated to 100 PSI
- Spin-on
- Utilizes a two stage process of separation
- Removes 96% of liquid and particulate contaminants down to ten microns
- Applicable for vacuum or pressure installations
- Replaceable cartridge
- Aluminium bowl
- H: 6" x W: 3.2" x D: 3.15"



RAC 110A Complete
RAC R11S Spare element (2 micron)
RAC R11T Spare element (10 micron)

Racor Water Separating Fuel Filter

- Rated at 25 G.P.H. for gasoline
- Spin-on
- Utilizes a two stage process of separation
- Removes 96% of liquid and particulate contaminants down to ten microns
- Replaceable cartridge with see-thru bowl, die-cast aluminum head
- 1/4"-18 NPT connections
- H: 4.3" x W: 2.3" x D: 2.1"
- Working Pressure: 100 PSI



Not for use with outboard engines

RAC 025-RAC-02 Complete

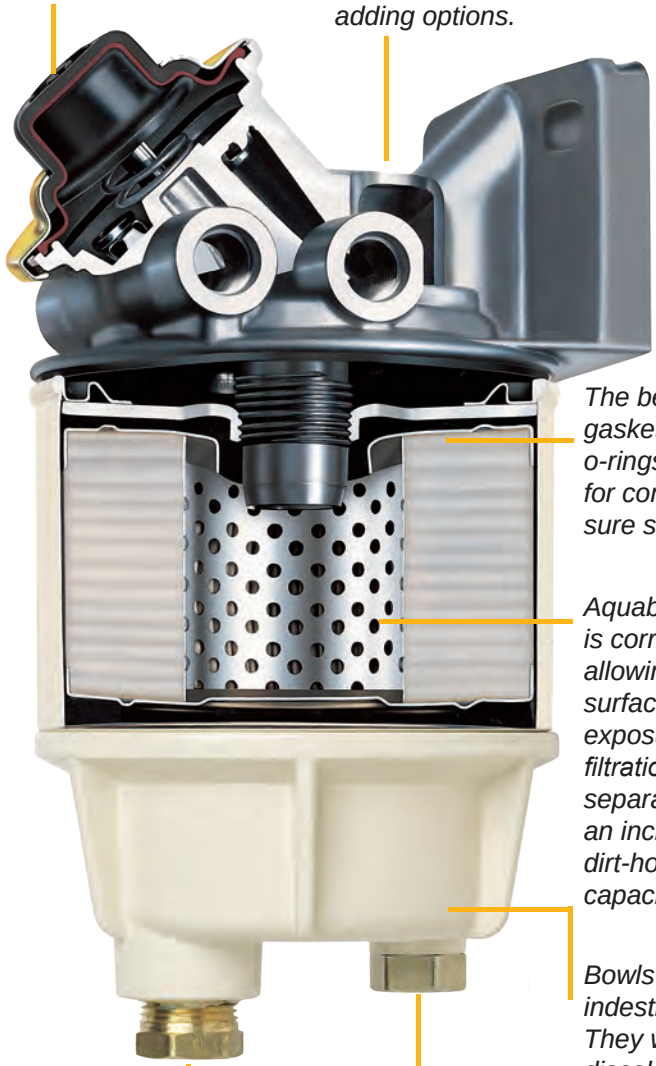
Parts:

RAC S2502 Element (10 micron)

Diesel Spin-On Series

Powerful primer pumps integrated into mounting heads.

Die cast aluminum heads with multiple ports make installation as easy as adding options.



The best gaskets and o-rings available for consistent, sure seals.

Aquabloc® media is corrugated, allowing greater surface area exposure for fuel filtration/water separation, and an increased dirt-holding capacity.

Bowls are virtually indestructible. They won't discolor from exposure to alcohol, additives, or UV light. A die cast aluminum bowl with epoxy powder paint and drain plug meet CFR33 regulation and other marine standards.

Brass plug with tapered thread meets ABYC standards.



*Water sensor options are available for most models

RACOR®

Compact and Versatile Systems for Main Propulsion and Genset Applications

Cost-Effective
Cost-effective designs for on-engine or remote mounting. Complete assemblies available in all-metal bowls.

High-Capacity
Hand-operated fuel priming pumps are integral to many Racor diesel spin-on series models, a feature that allows for removal of unwanted air from the filter and engine fuel system.

Environmentally Friendly
Metal bowls are reusable, impact-resistant, and virtually indestructible. When it's time for service, only the filter is replaced—the bowl and drain plug are reused. The long life-cycle of Racor bowls saves you money and reduces the environmental impact through disposal of less material.

Note: Use metal bowl versions for all marine engine room applications.

Easy Upgrades
Water-in-fuel (WIF) sensors are available to alert operators to drain accumulated water from the bowl. Corrosion-Resistant Construction Advanced technology means bowls will not deteriorate from water collection, alcohol-blended fuels, exposure to harsh additives, salt spray, or UV light.

Safety First
Racor's UL-listed filters meet ABYC, ASTM, ISO, and many other global standards for filters used in marine engine rooms.

Racor Detroit Diesel Element



- Fits all Detroit diesels up to 90 gallons per hour
- 3.6" x 7.44"

RAC S3202 30 micron

Racor Fuel/Water Separator Elements



- Used in 490MAM and 4120MAM filter assemblies
- 3.6" x 7.44"

RAC S3201PUL 30 micron
RAC S3201TUL 10 micron, 90 GPH

Racor Fuel/Water Separator Element



- Used in 445MAM

RAC S3204TUL 10 micron

Racor Fuel/Water Separator Elements



- Used in 400 and 600 Series filter assemblies
- Rated to 120 GPH
- H: 12" x Dia: 4.38"

RAC R120S 2 micron
RAC R120T 10 micron
RAC R120P 30 micron

Racor 490 Series Elements



- Replacement filters

RAC R90P 30 micron
RAC R90S 2 micron
RAC R90T 10 micron

Racor 460 Series Element



- Replacement filters for 760R, 660R, 460R, 360RC series

RAC R60S 2 micron

Racor 75/B32009 Series Spin-On Element



- Replacement filters for 75/B32009 series

RAC S3209S 2 micron

Racor Water Separating Element



- Made for Mercury, Mercruiser, Yamaha, Suzuki, Honda, and Tohatsu
- Fits 11/16"-16 centre thread mounts
- 10 micron filtration
- H: 4.2" x Dia: 3.6"

RAC PFF5510

Racor Water Separating Fuel Elements



- Replaces Mercury Marine 884380T or 8M0060041
- Genuine Aquabloc filter media removes up 100% of free water
- 10 micron media
- Compatible with Ethanol gas engines

RAC 31871 2/pkg

Racor 400 Series Diesel Water Separating Fuel Filters



The 400 series features a mounting head with integral priming pump and multiple ports. The high-capacity 2 micron Aquabloc filter element stops water and removes solid contamination. The see-thru bowl won't discolour and has a leak-proof positive seal drain for easy service. New electronic diesel engines especially benefit from the powerful priming pump at fuelling and service time.
Maximum allowable pressure: 30 PSI

- Comes standard with a fuel restriction indicator showing filter health (not for use with gasoline applications)
- Port size: 3/8"-18 NPTF

Part #	Max Flow GPH	H x W x D	Replacement Element
RAC 445R2	45	9.3" x 4.5" x 4.8"	RAC R45S
RAC 460R10	60	11.0" x 4.5" x 4.8"	RAC R60T

Parts:

RAC R45P 30 micron element for 445R
RAC R45T 10 micron element for 445R
RAC RK-10110 Metal vent plug for 445/460/490/4120
RAC RK-21069 Water probe for 445/460/490/4120

(2 Micron) Brown	(10 Micron) Blue	(30 Micron) Red





Racor SNAPP Gasoline/Diesel Water Separating Fuel Filter

- A one-piece, high-performance snap-in fuel filter water separator
- Protected with an Aquabloc® filter media and a clear bowl that allows for at-a-glance inspection of fuel system integrity
- Makes every filter change literally a snap. No tools are needed - when it's time for service, simply snap in a new filter
- Simple installation and a patented priming system
- Gas rated up to 26 gph
- Rated to 50 PSI
- 10 micron filtration
- Nylon body with a stainless mounting bracket
- Includes 3/8" quick connect fuel hose fittings
- W: 4" x H: 7-3/4" x D: 4"

RAC 23299-10 Complete unit with bracket
RAC R23298-10 Replacement filter module

Simple Flow Rate Formula For medium range diesel engines:
Hp x .006 = Approx. GPM pump flow rate

Racor Diesel Water Separating Fuel Filters

Combines separator, filter, and primer pump in one device, improving fuel delivery and filtration quality while reducing cost. Uses the same principles of separation, coalescing and filtration employed in the Turbine Series. Free water and heavy particles are separated out before reaching the element and drained away through a separate sump chamber so they cannot mix back into the fuel. Remaining water and particles separated in later stages fall into the secondary sump chamber. The two sumps are drained through a common, positive seal, drain valve.

- Features include check valve, bleed vent and multiple ports for ease of installation
- Racor's exclusive Aquabloc elements are up to ten times more effective than competitive filters because their chemical treatment repels emulsified water
- Port size: 1/4" NPT

Part #	Bowl	GPH	H x W x D	Micron Rating	Replacement Element
RAC 120AS [2]	See-thru	15	8" x 3.2" x 3.2"	2	RAC R12S
RAC 120AT [2]	See-thru	15	8" x 3.2" x 3.2"	10	RAC R12T
RAC 215R2 [1 2]	See-thru	15	8.3" x 4" x 4"	2	RAC R15S
RAC 230R2 [1 2]	See-thru	30	9" x 4" x 4"	2	RAC R20S
RAC 230R10 [1 2]	See-thru	30	9" x 4" x 4"	10	RAC R20T
RAC 230RMAM [1 2]	Metal	30	9" x 4" x 4"	10	RAC R20TUL
RAC 245R10 [1 2]	See-thru	45	10.5" x 4" x 4"	10	RAC R25T

[1] Integrated primer pump
[2] Includes drain valve assembly



230R2



230RMAM


120AS


215R2

Parts:

RAC RK-20135	Clear bowl 220/225 series
RAC RK-22350-02	Clear bowl kit 200 series & 230R2
RAC RK-10110	Metal vent plug 110/120/220/225
RAC RK-10215	Clear bowl w/drain kit 120
RAC RK-10063	Service kit 120 series nylon retaining washer, top and bottom head bolt O-ring, and square cut gasket
RAC RK-20075-01	Seal kit for 220/225

(2 Micron) Brown | (10 Micron) Blue | (30 Micron) Red

Racor Elements

Part Number	Micron Rating	Filtration Level	Dimensions H x Dia.	Applications
RAC R12S	2	Final	2.4" x 3.0"	120
RAC R12T	10	Secondary	2.4" x 3.0"	120
RAC R12P	30	Primary	2.4" x 3.0"	120
RAC R15S	2	Final	3.3" x 3.7"	215
RAC R15T	10	Secondary	3.3" x 3.7"	215
RAC R15P	30	Primary	3.3" x 3.7"	215
RAC R20S	2	Final	4.0" x 3.7"	230
RAC R20T	10	Secondary	4.0" x 3.7"	230
RAC R20P	30	Primary	4.0" x 3.7"	230
RAC R24S	2	Final	3.5" x 3.6"	220
RAC R24T	10	Secondary	3.5" x 3.6"	220
RAC R24P	30	Primary	3.5" x 3.6"	220
RAC R25S	2	Final	5.5" x 3.7"	245
RAC R25T	10	Secondary	5.5" x 3.7"	245
RAC R25P	30	Primary	5.5" x 3.7"	245
RAC R26S	2	Final	4.0" x 3.7"	225
RAC R26T	10	Secondary	4.0" x 3.7"	225
RAC R26P	30	Primary	4.0" x 3.7"	225
RAC R60P	30	Primary	5.1" x 4.4"	360/460/660

Racor Diesel Fuel Conditioning Elements



- P-series replacement filter elements are designed for use in Racor P3, P4, and P5 fuel conditioning modules
- Aquabloc engineered media provides excellent water removal and dirt-holding capability
- Compatible with P510MAM filter housing

RAC R58065-10	10 micron
RAC R58065-30	30 micron

► Also See Sierra Filters & Elements pg 09-022

Racor Fuel Polisher

NEW



- Extends the life of on-board filters by removing contaminants from stored fuel
- Use as continuous operation on fuel tanks, or as part of a day-tank transfer system
- Utilizes Racor's Aquabloc media
- Equipped with a brushless 12/24V motor, electrical harness and control module, metal bowl, a stainless water-in-fuel sensor, and mounting bracket
- One size housing, with M16-1.5 ORB ports
- Flow rate: 66 gal/hour
- H: 11.5" x W: 4.5" x D: 5.2"
- 4.2 lb

RAC P510MAM

The Inside Story

3 Stage Filtration

1

As fuel enters, it moves past the internal check valve, then through the turbine centrifuge where it flows in a spiraling direction, spinning off large particulates and water droplets. Being heavier than fuel, they fall to the bottom of the bowl.

2

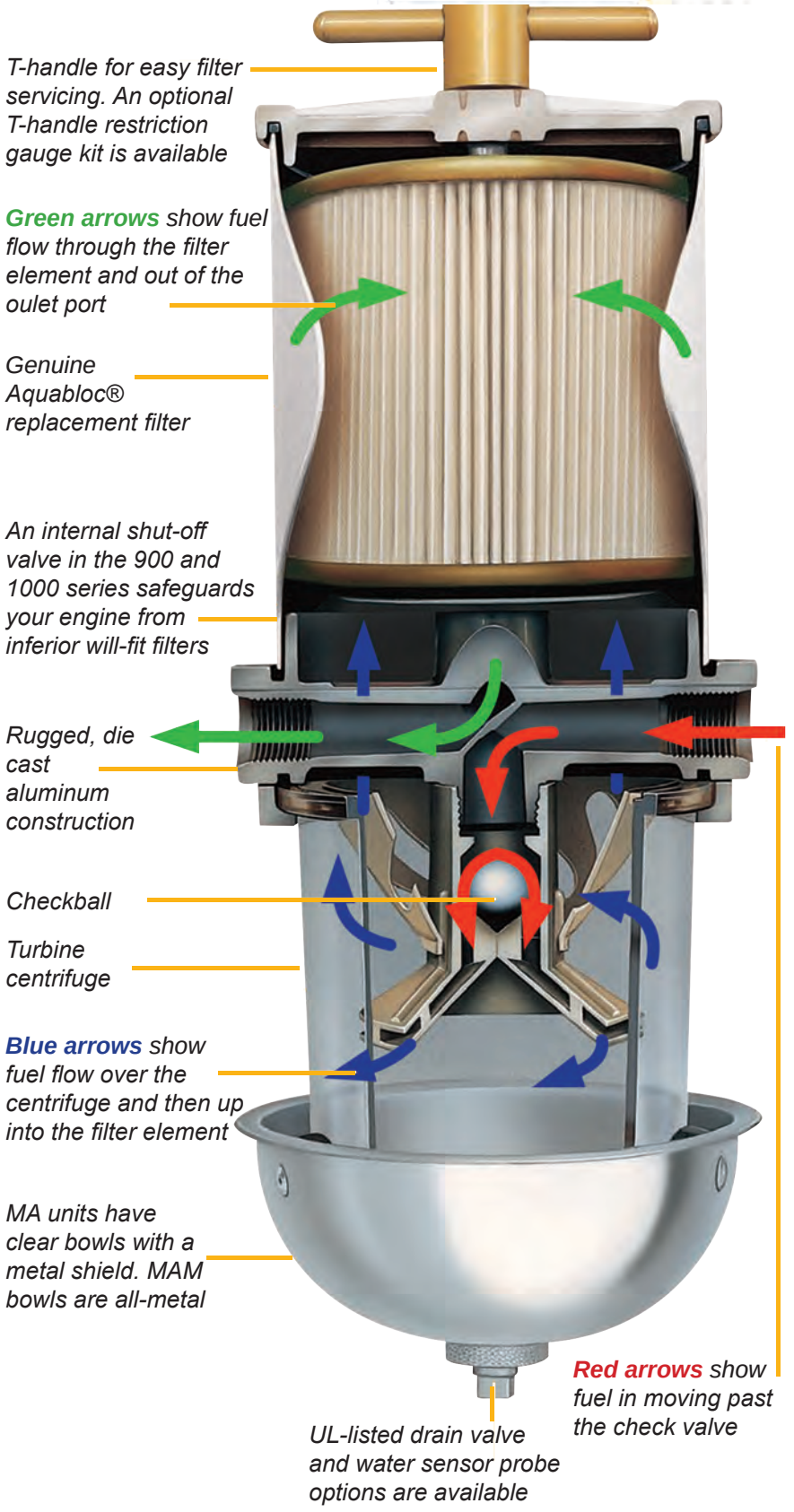
Smaller water droplets bead-up along and on the sides of the internal components and on the surface of the Aquabloc® filter.
When large enough,they too fall into the high-capacity bowl to be drained as needed.

3

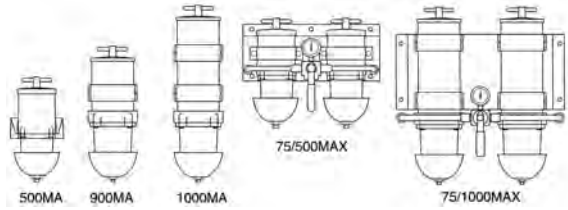
Besides repelling water asphaltenes, algae, rust, and tiny solids from fuel. Aquabloc® filters are waterproof, so they remain effective longer.

Note: Only use "V" Series Elements to service the FV Series assemblies

RACOR®



Racor Turbine Series Diesel Water Separating Fuel Filters



Marine Turbine Series filter assemblies are designed to be installed on the vacuum side of the fuel transfer pump for best efficiency and protect precision engine components from dirt, rust, algae, asphaltines, varnishes, and especially water, which is prevalent in engine fuels. They remove contaminates from fuel using the following legendary three stage process:

Stage One: Separation
As fuel enters the filter assembly, it moves through the centrifuge and spins off large solids and water droplets which fall to the bottom of the collection bowl.

Stage Two: Coalescing
Small water droplets bead-up on the surface of the conical baffle and cartridge element. When heavy enough, they too fall to the bottom of the bowl.

Stage Three: Filtration
Proprietary Aquabloc®II cartridge elements repel water and removes contaminants from fuel down to 2 micron (nominal). They are waterproof and effective longer than water absorbing elements.



75500MAX2

Part #	Max Flow (G.P.H.)	Port	Dimensions H x W x D	Micron Rating	Replacement Element
RAC 500FG-2	60	3/4"-16	11.5" x 6" x 4.8"	2	RAC 2010SM-OR
RAC 500FG-10				10	RAC 2010TM-OR
RAC 500FG-30				30	RAC 2010PM-OR
RAC 500MA30	60	3/4"-16	11.5" x 5.8" x 4.8"	30	RAC 2010PM-OR
RAC 75500MAX2 *	60/120	7/8"-14	11.5" x 14.5" x 9.5"	2	RAC 2010SM-OR
RAC 75500MAX10				10	RAC 2010TM-OR
RAC 75500MAX30				30	RAC 2010PM-OR
RAC 75500MAXM30				30	RAC 2010PM-OR

* Special Order

Racor's MA Turbine series includes the added protection of a heat shield over the lower bowl and metal drain fittings.



MA Series

Simple Flow Rate Formula For medium range diesel engines: Hp x .006 = Approx. GPM pump flow rate

Racor Turbine Series Elements

Part Number	Micron Rating	Filtration Level	Dimensions H x Dia.	Applications
RAC 2010SM-OR	2	Final	2.7" x 3.1"	500MA
RAC 2010TM-OR	10	Secondary	2.7" x 3.1"	500MA
RAC 2010PM-OR	30	Primary	2.7" x 3.1"	500MA
RAC 2020V2	2	Final	9.6" x 4.7"	1000MA
RAC 2020V10	10	Secondary	9.6" x 4.7"	1000MA
RAC 2020V30	30	Primary	9.6" x 4.7"	1000MA
RAC 2040V2	2	Final	4.6" x 4.7"	900MA
RAC 2040V10	10	Secondary	4.6" x 4.7"	900MA
RAC 2040V30	30	Primary	4.6" x 4.7"	900MA

(2 Micron) Brown | (10 Micron) Blue | (30 Micron) Red

► *Also See* Sierra Filters & Elements pg 09-022

Parts 500 series:

RAC RK-15405	Kit - Replacement bowl 500FG
RAC RK-15104	Heat deflector 500MA
RAC RK-11341	Bowl drain gasket kit 500/1000
RAC RK-15211	Seal service kit 500
RAC RK-30488	FH series drain valve
RAC RK-15374 *	Gasket-bowl 500

Parts 900 series:

RAC RK-11007	Bowl gasket
RAC RK-11868	Heat deflector kit 900/1000MA
RAC RK-21069	Water probe assembly
RAC RK-11-1606-1	Clear bowl
RAC RK-11-1404	Service kit

Parts 1000 series:

RAC RK-11007	Bowl gasket
RAC RK-11341	Bowl drain gasket kit 500/1000
RAC RK-11868	Heat deflector kit 900/1000MA
RAC RK-21069	Water probe assembly
RAC RK-30488	Self venting drain
RAC RK-11-1606-1	Clear bowl
RAC RK-11-1404	Service kit

* Special Order

Racor Turbine V Series Diesel Water Separating Fuel Filters

All new design adds ports, is less restrictive, and improves water separation. The larger ports decrease restriction, and two inlet and two outlet ports allow installation in any configuration required to meet fuel delivery needs. A shut-off valve is integrated into each individual unit, eliminating the need for up stream valves in the fuel delivery line.
Note: V-Series Filter assemblies require Racor's Aquablock filter elements (2040V and 2020V).

- Includes 10 Micron filter
- Includes 2x 3/4" NPTF adapters and 2x port plugs
- Maximum head pressure 15 PSI

Note: Vacuum Installation Recommended


900FV10


1000FV10

Part #	Description	Max Flow (G.P.H.)	Port	Dimensions H x W x D	Weight lbs	Service Clearance (Top)
RAC 900FV10	900 Turbine Assembly	90	1-5/16"-12 UN-2B (SAE 1926-1)	17.12" x 8.68" x 7.96"	10	5"
RAC 1000FV10	1000 Turbine Assembly	180		22.23" x 8.68" x 7.96"	10.8	10"
RAC 900VMA10	900 Turbine Assembly Clear Bowl with Heat Shield	90	1-5/16"-12 UN-2B (SAE 1926-1)	17.03" x 8.68" x 7.89"	10.8	5"
RAC 1000VMA10	1000 Turbine Assembly Clear Bowl with Heat Shield	180		21.95" x 8.68" x 7.89"	12.4	10"
RAC 75900VMA10	Duplex 900MA Turbine Assembly Clear Bowl with Heat Shield	180	1-5/16"-12 UN-2B (SAE 1926-1)	17.03" x 15.06" x 7.89"	20.6	5"
RAC 751000VMA10	Duplex 1000MAM Turbine Assembly Clear Bowl with Heat Shield	360		21.95" x 15.06" x 7.89"	25	10"
RAC 751000VMAM10	Duplex 1000MAM Turbine Assembly All Metal Bowl	360		21.63" x 15.06" x 7.89"	27.4	10"

Parts 900FV / 1000FV series:

RAC RK-11-1952 *	Seal service kit
RAC RK11-2078	Vacuum gauge port plug
RAC RK11-2079	Valve rebuild kit
RAC RK11-2080	Centrifuge/baffle kit
RAC RK11-2081	Bowl kit
RAC RK11-2083	Mounting bracket
RAC RK19671	T-handle with vacuum gauge

* Special Order

Parts 900/1000VMA and 75900/751000VMA-VMAM series:

RAC RK-11-1404	Seal service kit
RAC RK-11-1606-1	Bowl kit
RAC RK-11868	Heat deflector kit
RAC RK19671	T-handle with vacuum gauge

Aquabloc® Filters

(2 Micron) Brown	(10 Micron) Blue	(30 Micron) Red

Make certain that you replace your Turbine Series assemblies only with Genuine Racor Aquabloc® filters. While many others try to imitate the construction and performance of Aquabloc® filters, only the genuine article delivers the fit and performance specified by engine manufacturers, and guarantees that your Racor filter/water separator will deliver the protection you count on.

Besides removing asphaltenes, water, gums, and varnishes, Aquabloc® filters out tiny particles of dirt and algae from diesel fuel. Aquabloc® filters have polymer end-caps that will not corrode, ever.
With an Aquabloc® replacement filter, you get a complete kit with all the seals you need. And not just any seals, but speciallyformulated, Racor-engineered seals.
Always carry extra Racor fuel filters as one tankful of dirty fuel can quickly clog a filter.

For convenience, end-caps are colour-coded for easy identification and application.
P Red = 30 micron, primary filtration.
T Blue = 10 micron, secondary filtration.
S Brown = 2 micron, final filtration.

The top cap includes handles for easy servicing and a filter bypass button for emergencies.

Aquabloc® media is a blend of high-grade cellulose compounded with engineered fibers, and a special chemical treatment. Water will not cling to the filter, Aquabloc® repels it.



Fairview Hose and Pipe Fittings for Racor Filters

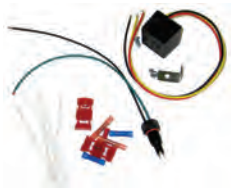
Part #	Use with	O-Ring	Connector	Fig. #
FRV S3620-6B	500 series pre 96	9/16"-18	1/4" FPT	3
FRV S3620-6C	500 series pre 96	9/16"-18	3/8" FPT	3
FRV S3620-8C	500 series	3/4"-16	3/8 " FPT	3
FRV S3620-8D	500 series	3/4"-16	1/2" FPT	3
FRV S3620-10C	900/1000	7/8"-14	3/8" FPT	3
FRV S3620-10D	900/1000	7/8"-14	1/2" FPT	3
FRV S3620-10E	900/1000	7/8"-14	3/4" FPT	3
FRV S3648-8	500 series	3/4"-16	3/4" Tube JIC	2
FRV S3648-10	900/1000	7/8"-14	5/8" Tube JIC	2
FRV S3649-8	500 series	3/4"-16	1/2" Tube JIC	1
FRV S3649-10	900/1000	7/8"-14	5/8" Tube JIC	1
FRV S3649-68	500 series	3/4"-16	3/8" Tube JIC	1


Fig #3


Fig #2


Fig #1

Racor Water Detection Module



- Alarm/probe kit
- Under dash protection module illuminates and sounds when water is detected
- Water must be drained to reset light and stop horn
- 1.38" square x 1.25" deep

RAC RK-12870

Racor Replacement Filters



- Filters for the RAC 200FG

RAC 2000SM-OR 2 micron
RAC 2000TM-OR 10 micron

Racor Replacement Filter



- Filters for the RAC 120R RAC-02

RAC S3240TUL 2 micron

Racor Replacement Filter



- Marine Power G-Force TIGE fuel filter
- 10 micron

RAC R58011-10

Racor Compound Gauge Kits



A compound (vacuum or pressure) gauge kit permits accurate monitoring of the restriction level in the outlet line of the fuel/water separator. This will increase fuel system troubleshooting efficiency, eliminate guess work, and lengthen filter change intervals.

- Bottom mount 2.5" x 1.25" gauge with 1/4"NPT threads
- Displays pressures from -30inHg to 0 to +15 PSI (relative to atmospheric barametric pressure

RAC RK19669



Same gauge as above with the addition of a stainless steel T-handle 1/4" NPT threads

RAC RK19671

EMP Inboard / Outboard Oil Filters



EMP 35-57801	Mercury 866340Q03 / OMC 502901 / Volvo 8354440 / PCM R077002 / Sierra 18-7824-1
EMP 35-57802	Mercury 802886 / OMC 502900 / Volvo 3517857 / Crusader 9002514 / Sierra 18-7875
EMP 35-57803	Mercury 883702 / OMC 502903, /Vovo 841750 / Chrysler L-319 / Sierra 18-7879-1

EMP Outboard Oil Filters



EMP 35-57800	Mercury 822626 / Sierra 18-7913
EMP 35-57804	Mercury 8M0065103 / BRP 5041144 / Yamaha 5GH-13440-00-00 / Honda 15400-PFB-014 / Tohatsu 3R007-6150M / Kawasaki 16097-0003 / Sierra 18-7902, 18-7911-1, 18-7914
EMP 35-57809	Yamaha N26-13440-00-00 / Sierra 18-7954
EMP 35-57814	Johnson/Evinrude 5033539, 778886, Suzuki 16510-61A20-MHL / Sierra 18-7896
EMP 35-57819	Johnson/Evinrude 5035703 / Suzuki 16510-96J10 / Sierra 18-7905
EMP 35-57822	Mercury 877761K01 / Sierra 18-7758

EMP 4-Cycle Outboard Oil Filters

EMP 35-57820	Volvo 8692305 / Sierra 18-8003 2007 & later Volvo
EMP 35-57821	Mercury 877767K01 / Sierra 18-7921 2006-16 Mercury Racing 4-cyl, 135-200 HP
EMP 35-57823	Mercury 877769K01 / Sierra 18-7918 2005-16 Mercury Racing 6-cyl, 225-400 HP



Sierra Oil Filters

- Specifically designed to match the OEM filter
- Anti-drain back valves help prevent dry-starts
- Epoxy coated steel canister prevents corrosion and allows for easy installation and removal
- Meets or exceeds OEM filtration requirements
- Backed by Sierra Limited Lifetime Warranty

*Note - Replace filter after first 20 hours of engine operation. After first 20 hours filters are to be replaced every 50 hours of operation or at a minimum of once yearly.

Sierra Diesel Oil Filters

SIE 18-7884	Replaces: Universal: 299381, Volvo-Penta: 834337, Thread Spec: 3/4" x 16NPT
SIE 18-7910-1	Replaces: Westerbeke: 30220, Yanmar: 124450-35100 Thread Spec: 20mm x 1.5

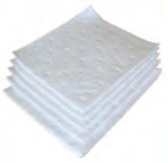
Sierra 4 Cycle Outboard Oil Filters

SIE 18-7758	Replaces: Mercury: 35-877761K01, 35-877761Q01 Thread Spec: 22mm x 1.5
SIE 18-7896	Replaces: Johnson/Evinrude: 778886, 5033539 Suzuki: 16510-61A20-MHL Thread Spec: 3/4" x 16NPT
SIE 18-7897	Replaces: Johnson/Evinrude: 778887, 5033919 Suzuki: 16510-61A20-MHL Thread Spec: 3/4" x 16NPT
SIE 18-7901	Replaces: Mercury: 825467A1, 825467T1 Yamaha: 6G8-13440-00-00
SIE 18-7902	Replaces: Yamaha: 3FV-13440-00-00 Thread Spec: 20mm x 1.5
SIE 18-7903	Replaces: Johnson/Evinrude: 5033102, 763364 Suzuki: 16510-05240
SIE 18-7905-2	Replaces: Suzuki: 16510-96J00 Thread Spec: 3/4" x 16NPT
SIE 18-7906-2	Replaces: Yamaha: 69J-13440-00-00 Mercury: 35-822626T7, Q15 Thread Spec: 3/4" x 16NPT
SIE 18-7909	Replaces: Honda: 15400-POH-305PE, 15400-POH-305, 15400-ZJI-004, 15400-PLM-A01PE Thread Spec: 20mm x 1.5
SIE 18-7911-1	Replaces: Honda: 15400-PFB-007 Nissan: 3R0076150M Yamaha 5GH-13440-00-00 Thread Spec: 20mm x 1.5
SIE 18-7913	Replaces: Honda 15400-PFB-014 Mercury: 35-822626Q1, Q03 Thread Spec: 20mm x 1.5
SIE 18-7914	Replaces: Mercury: 35-822626Q2, Q04 Thread Spec: 20mm x 1.5
SIE 18-7915-1	Replaces: Johnson/Evinrude: 778885, 5031411 Suzuki: 16510-87J00 Thread Spec: 3/4" x 16NPT
SIE 18-7916	Replaces: Johnson/Evinrude: 434839 Thread Spec: 3/4" x 16NPT
SIE 18-7918	Replaces: Mercury: 35-883701K01, 35-877769K01 Thread Spec: 24mm x 1.5
SIE 18-7921	Replaces: Mercury: 35-896546T, 35-877767K01 Thread Spec: 24mm x 1.5
SIE 18-7954-1	Replaces: Yamaha N26-13440-00-00 Fits: F350 Thread Spec: 3/4" x 16NPT
SIE 18-8003-2	Replaces: Volvo: 8692305

Sierra Sterndrive & Inboard Oil Filters

SIE 18-7824-2	Replaces 35-866340Q03 For GM marine engines. Used on 4 cyl, 8 cyl, and remote oil filter systems. Short oil filter. Thread Spec: 13/16" x 16NPT.
SIE 18-7875-1	3/4" x 16 NPT Chris-Craft 16.81-06536 Chrysler Inboard 1851658 Crusader 9002514 Mercruiser 35802886Q, 60565 OMC Sterndrive/Cobra 173231, 502900 Pleasurecraft RO77001 Yamaha YSC-16231-20-0C
SIE 18-7878-1	3/4" x 16 NPT Chrysler Inboard 3549957, L-1008, L-19 Crusader 3549957, L-1008, L-19 Mercruiser 803470 OMC Sterndrive/Cobra Volvo Penta 1266286-2, 3517857-3, 430143-8
SIE 18-7879-1	18mm x 1.5 Chrysler Inboard L-319 Mercruiser 32-883702Q, 35-802884Q, 41815 OMC Sterndrive/Cobra 173834, 502903 Yamaha 16231-20-0C

3M High Performance Oil Sorbent Pads



- Designed to contain and control petroleum-based fluids while repelling water
- Won't deteriorate, disintegrate or sink
- Microbundles absorb up to 100% more oil than competitive products
- One pad picks up on average, 2 quarts of oil
- 17" x 19" x 1/2"

THR HP-156

3M Petroleum Sorbent



Folded sorbents are the easy-to use solution for spills, drips and fluid leaks. You get four sorbent configurations from one folded sorbent dispenser box.

- It can be used as a boom, pillow, pad, or roll
- Perforations every 16"
- High water repellency
- A handy dispenser box
- 5" x 50', 20" wide unfolded

THR PFL550DD

3M Marine Oil and Fuel Absorbent Bilge Pillow



- Holds up to 2 quarts of oil
- Just toss the pillow in the bilge
- Bilge water can be pumped overboard

THR T-30 7" x 15"

Moeller Motor Flusher



- Designed to fit inboards, performance ski boats and all boats with a thru-hull water intake

MOE 099085-00

Moeller Motor Flushers



- Universal round cup motor flusher
- For lower units with side water inlets

MOE 099076-00



- Universal motor flusher
- For rectangular water inlet

MOE 099077-00



- Volvo round cup motor flusher
- Fits 200; 250; 270; 280 & 290 hp lower units
- No tools required
- Easy to use

MOE 099080-00



- Dual water feed motor flusher
- For engines over 50HP
- For use on all lower units with side water inlets, including Volvo

MOE 099082-00



- Dual water feed motor flusher
- Installs in seconds
- Rectangular cups
- Designed for engines above 75 HP
- HD metal yoke for added strength and extended use

MOE 380160

Scepter Motor Flushers



- Universal round cup motor flusher
- For lower units with side water inlets

SCE 07393



- Universal motor flusher
- For rectangular water inlet

SCE 07395



- Dual water feed motor flusher
- Rectangular cups
- Designed for engines above 75 HP
- HD metal yoke for added strength and extended use

SCE 09564

Panther Inboard Motor Flusher



- Run your inboard engine while out of the water
- Just connect a garden hose, fit the cup over the water intake and extend the leg sealing cup to the hull
- Constructed of aluminum and heavy duty rubber
- Adjustable from 19" to 30-1/4"

PAN 75-5000

Sea-Dog Inboard Motor Flusher



- Molded rubber and aluminum construction

SED 521550-1

Perko Flush Pro Motor Flushers



Flush-Pro is fully encased with an injection molded PVC see-through housing. It uses a durable UL approved valve and stainless steel springs to prevent corrosion within the Flush-Pro system. Flush your boat engine safely and easily. Durable check valve system activated by water pressure from a garden hose. Flush-Pro can be purchased to fit 5/8", 1" or 1-1/4" diameter hoses.

PER 456-DP4	For 5/8" hose
PER 456-DP6	For 1" hose
PER 456-DP7	For 1-1/4" hose

Star brite Filter Removal Wrench



- Fits canister filters from 2-3/4" to 4" diameter
- Oversized handle for maximum torque

STA 28908

Star brite Filter Removal Wrench



- For 3-1/2" - 3-7/8" diameter filters
- Heavy duty unit for larger filters
- Swivel handle for use in confined areas
- 3-1/2" x 3-7/8"

STA 28902

Racor Bowl Removal Wrench



- Quickly separate bowls from filters

RAC RK-22628

Sierra Grease Filler Adapter



Fits: OMC and Volvo dual prop gearcases

SIE 18-81006

Sierra Intermediate Shift Cable Snake



For: Mercury 91-821571A1

• Use to easily remove and install intermediate shift cables in Mercruiser drives

SIE 18-9879

Sierra Engine Alignment Tool

Replaces: Mercury Marine 91-57797A3, 91-57797A2, 91-57797A1, 91-8M0067546, 91-805475A1, 91-48347, 91-37384. Used to verify engine alignment on all Mercruiser, OMC Cobra, SX Cobra, and Volvo SX Sterndrives.

SIE 18-4442

Sierra Extreme Shift Cable Tool



For: Mercury 91-12037

• Installs and removes shift cables on MC-I, R-MR, Alpha One, Alpha One/Gen II drive units

SIE 18-9806E

Sierra Shift Cable Tool



For: Mercury 91-12427, 91-12427T

• Used for proper Bravo drive unit shift cable adjustment at the shift plate

SIE 18-9807

Sierra Fuel Injector Analyzer



Checks the operation of any gasoline or diesel fuel injector.

- Works on solenoid, piezo (direct injectors), and mechanical injectors.
- Compare readings between injectors with a candlestick graph that displays maximum, minimum, and average readings for each injector
- Display injector waveforms in real time
- Detect and display ECM control signals
- Monitor pintle valve motion and response
- Detect and display engine speed
- 3.5" color TFT LCD display
- Rechargeable battery provides 6+ hours of use
- Drop impact resistant

SIE 18-9915

► Also See Sierra Electrical Tools pg 02-108

► Also See Stern Drive Installation Jack pg 16-034

Sierra Engine Ignition Analyzer



For Diagnosis and Performance Measurement of all types of spark ignition systems

- Display waveforms in real time
- Graph burn time, spark plug voltage, dwell/ramp time, and RPM for each spark
- Compare readings between cylinders with a candlestick graph that displays maximum, minimum, and average for each cylinder
- Displays everything on a 3.5" color screen
- Rechargeable battery provides 6+ hours of use
- Durable design (MIL-STD-810) drop test approved
- Comes with hard shell carrying case
- Includes 18-9914 Plug Wire Sensor Clip and Extension Lead

SIE 18-9903

Sierra Spanner Wrench



- Replaces: Mercury Marine 91-17256
- Removes and installs driveshaft bearing retainer on MC-I, R-MR, Blackhawk, all Bravo and all Alpha drive units

SIE 18-9803

Sierra Shimming Tool



- Drive gear shimming tool
- Replaces: Mercury Marine 91-60526T
- Measures upper drive gear clearance on MC-I, R-MR, Alpha One, Alpha One/Gen II drive units

SIE 18-9856

Sierra Bellows Expander



- Replaces: Mercury Marine 91-45497A1
- Installs exhaust bellows on MC-I, R-MR, Alpha One, Bravo One and Two and Blackhawk drive units

SIE 18-9847

Sierra Hinge Pin Tool



- Replaces: Mercury Marine 91-78310
- Removes and installs hinge pins from all Mercury Marine drive units

SIE 18-9861

Sierra Sleeve Install Tool



- Replaces: Mercury Marine 91-818162
- Installs the aluminum sleeve in the u-joint bellows of all Bravo, Alpha One/Gen II, Blackhawk drive units and outboards

SIE 18-9870

SIERRA Marine Generator Replacement Parts



- Starters, alternators, fuel filters, impellers and impeller kits, thermostats and thermostat kits, oil filters, air filters, anodes, crab kits, glow plugs, temperature sensors, oil pressure senders and solenoids
- Focus on Kohler, Onan and Westerbeke generator sets

Sierra Generator Parts - Oil Filters



SIE 23-7800	Replaces: Westerbeke 36918 Fits several models.
SIE 23-7804	Replaces: Onan 185-7444, Fischer Panda 15853-99170 Fits: Onan MDKAU, MDKBH, Fischer Panda PMS 8 Mini, PMS 8 DP, PMS 4200, PMS 6500, PMS 12 DP and PMS 12 Mini
SIE 23-7820	Replaces: Kohler 279449 Fits: 12.5CF, 15C, 16CF, 20C
SIE 23-7822	Replaces: Kohler 229678 Fits: 4 CCFOZ, 4 EFOZ, 5 CCOZ, 5 EOZ, 6.5 EFOZ, 8 EOZ
SIE 23-7823	Replaces: Kohler 267714 Fits: 3.5 CFZ, 3.5 EFZ, 4 CZ, 4 ESZ, 5 CFZ, 5 EFZ, 6.5 CZ, 6.5 ESZ
SIE 23-7824	Replaces: Kohler GM47465 Fits several models
SIE 23-7841 *	Replaces: Onan 122-0185 Fits: MDJB, MDJC, MDJE, MDJF, MJA, MJB, MJC
SIE 23-7842	Replaces: Onan 185-5835 Fits: MDKAV, MDKBG, MDKAW (Spacesaver), MDKAZ, MDKAL/A/B

* Special Order - may have stock

Sierra Generator Parts - Fuel Filters

SIE 23-7720	Replaces: Westerbeke 35920, Onan 149-1445 Fits: Westerbeke: 4.0 BCG(60Hz)/3.0 BCG(50Hz), 6.5 BCG(60Hz)/4.8 BCG(50Hz), 6.5 TWG(60Hz)/4.9 TWG(50Hz), 8.0 TWG(60Hz)/6.4 TWG(50Hz),9.0 BTG(60Hz)/7.0 BTG(50Hz), 11.0 TWG(60Hz)/8.5 TWG(50Hz)	
SIE 23-7740	Replaces: Kohler 252898 Fits: 11 CCFOZ (variation 2), 11.5 CCFOZ (variation 2), 11EFOZ (variation 2), 11.5EFOZ (variation 2), 3EOZ (variation 2), 13EFOZ (variation 2), 13.5 CCOZ (variation 2), 14 CCOZ (variation 2), 14EOZ (variation 2), 15 CCFOZ (variation 3), 15.5EOZ (variation 2), 16EFOZ (variation 3), 17.5EFOZ (variation 3), 18.5 CCOZ (variation 3), 19EFOZ (variation 3), 20 CCFOZ (variation 3), 20EOZ (variation 3), 20EFOZ (variation 3), 23EOZ (variation 3), 24 CCOZ (variation 3), 24EOZ (variation 3), 17EFOZD (variation 3), 17.5EFOZD (variation 3), 19EFOZD (variation 3), 20EOZD (variation 3), 20EFOZD (variation 3), 23EOZD (variation 3), 24EOZD (variation 3)	
SIE 23-7750 *	Replaces: Onan 149-0428 Fits: MDJA (Spec A-R), MDJB (Spec A-R), MDJC (Spec A-R), MDJE (Spec A), MDJF (Spec A)	
SIE 23-7751	Replaces: Kohler 229715 Fits: 4 CCFOZ, 4EFOZ, 5 CCOZ, 5EOZ, 6.5 EFOZ, 8EOZ, 6.5EFOZD, 8EOZD	
SIE 23-7760	Replaces: Onan A026K278, 149-2106 Fits: MDKAU, MDKAV, MDKBG, MDKAW (Spacesaver), MDKAZ MDKBD, MDKBE, MDKBF, MDKBD (w/ Isolated Ground), MDKBE (w/ solated Ground), MDKBF (w/ Isolated Ground), MDKAD/E/F	
SIE 23-7761	Replaces: Kohler GM32359 Fits: 7 EFOZD(variation 1), 8.5 EFOZD(variation 1),9 EOZD(variation 1),9EFOZD(variation 1), 10EOZD(variation 1), 11EFOZD(variation 3), 11.5EFOZD(variation 3),13EOZD(variation 3), 13EFOZD(variation 3),14 EOZD(variation 3),15.5 EOZD(variation 3),17 EFOZD(variation 1), 17.5EFOZD(variation 1), 19EFOZD(variation 1), 20EOZD(variation 1), 20EFOZD(variation 1), 23EOZD(variation 1),24EOZD(variation 1),23EFOZD, 27EFOZD, 28EOZD, 32EOZD	
SIE 23-7770	Replaces: Westerbeke 47006, 30200 Fits several models.	

* Special Order - may have stock

Sierra Generator Parts - Oil Pressure Sender



- Replaces: Westerbeke 24132

SIE 23-5880

Sierra Generator Parts - Solenoid



- Replaces: Westerbeke 24639

SIE 23-5800

Sierra Generator Parts - Glow Plug



- 12 Volt
- Replaces: Westerbeke 24353

SIE 23-1000

Sierra Generator Parts - Anodes



- Replaces: Westerbeke 11885, Kohler 260085
- Fits several models.

SIE 23-6400

- Replaces: Onan 130-4434

Fits: MDKAV, MDKBG, MDKAW (Spacesaver), MDKAZ, MDKBD, MDKBE, MDKBF, MDKBD (w/ Isolated Ground), MDKBE (w/ Isolated Ground), MDKBF (w/ Isolated Ground), MDKBH, MDKBK, MDKBL, MDKBM, MDKBN, MDKBP, MDKBR, MDKBS, MDKBV, MDKBT, MDKBU

SIE 23-6401

- Replaces: Onan 130-6228

Fits: MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCD, MDDCE, MDDCH, MDDCJ

SIE 23-6402

Sierra Generator Parts Impeller Kits



SIE 23-3300	Replaces: Onan 132-0349
SIE 23-3301	Replaces: Westerbeke 11907
SIE 23-3303	Replaces: Kohler 229826
SIE 23-3304	Replaces: Kohler 229955
SIE 23-3305	Replaces: Westerbeke 32620
SIE 23-3306	Replaces: Westerbeke 46622
SIE 23-3307	Replaces: Westerbeke 34440
SIE 23-3308 **	Replaces: Kohler 352122
SIE 23-3309 *	Replaces: Onan 132-0436
SIE 23-3310	Replaces: Onan 541-1519
SIE 23-3311	Replaces: Fischer Panda J009-46840, Mase 80161
SIE 23-3312	Replaces: Fischer Panda J009-1027B-1, Mase 92911
SIE 23-3314	Replaces: Kohler 359978

* Special Order
** While Stock Lasts

EMP Fuel Filter & Electric Fuel Pump Assembly



Part #	Description
EMP 1399-39601	Volvo 3594444, 3860210, 3861355, 21397771, 21545138, 21608511, 23306461 Fits 4.3L OSI, 4.3L GXI, 5.0L OSI, 5.0L GXI, 5.7L GI, 5.7L GXI, 5.7L OSI, 5.7L OSXI

EMP Fuel Pumps



1399-07359

Part #	Description
EMP 1399-07357	Johnson/Evinrude 438559 Fits Johnson/Evinrude 2-cyl 6-8 HP, 3-cyl 25-35/70-75 HP, V4 105-125 HP, V6 150-235 HP outboards
EMP 1399-07359	Johnson/Evinrude 5007420 Fits Johnson/Evinrude V4 90-140 HP looper, and V6 150-235 HP looper/crossflow outboards. Non-oiling fuel pump alternative for the VRO system pumps Note: 90° models only; will not work with 60° models

EMP Fuel Pump Repair Kit



Part #	Description
EMP 1399-39020	Mercury 857005A1 / Sierra 18-7817 Fits Mercury/Mariner 2-cyl 30-40 HP, 3-cyl 40-90 HP, 4-cyl 100-125 HP, 2.5L V6 115-300 HP outboards

Sierra Fuel Pumps



1399-07359

Part #	Description
SIE 18-8868-2	Replaces: 861155A2, 861155A3 Fits Mercruiser 5.0 & 5.7L V8, 4.3L Both ends threaded, includes fittings and o-rings
SIE 18-35433-2	Replaces: 807949A1, 861156A1 Fits Mercruiser V6 & V8 305/350/377/454/502 EFI Threaded on one end only, small outlet end not threaded Replaces Cool Fuel pump

EMP Bellows

61-00511



Part #	Description
EMP 61-00500	Mercury 18654A1 / Sierra 18-2750 Fits ALL Mercruiser exhaust systems after 1962
EMP 61-00504	Mercury 74639A2 / Sierra 18-2753-2 For 1962 & later 1-Drive, EZ Shift, MC-1, R/MR/Alpha One, Alpha Gen II, Bravo, Bravo X, Bravo XR, Bravo XZ, Blackhawk, & Vazer
EMP 61-00511	Mercury 60932A4 / Sierra 18-2751 For 1978-94 Mc-1, R/MR/Alpha One & TR/TRS, ridged, bell housing assemblies
EMP 61-01998	OMC 3854127 / Sierra 18-2765 Fits Cobra bell housing Volvo 23075752, 22197130, 21682348, 3854127, 3841481 For 1986-97 SX & DP-S drive bell housing
EMP 61-02690	Mercury 8M0062406 / Sierra 18-2756 Fits Mercruiser Bravo, Bravo X, Bravo XR, Bravo XZ, & Blackhawk bell housing assemblies
EMP 61-02691	Mercury 816431A1 / Sierra 18-2747 Fits Mercruiser Alpha 1 Gen II (1991 & newer), 1-Drive, EZ Shift, & MC-1 bell housing assemblies

Sierra Bellows OMC/Cobra I/O

18-2764



Part #	Description
SIE 18-2745	EXHAUST BOOT Replaces: 912374
SIE 18-2764	EXHAUST BELLOWS Replaces: 914036 All clutch dog Cobra models (1986-93)
SIE 18-2765	U-JOINT BELLOWS Replaces: 983973, 987467, 3854127 All clutch dog Cobra models (1986-93)

Sierra Bellows Volvo/Penta I/O

18-2744



Part #	Description
SIE 18-2744	DRIVE BELLOWS KIT Replaces: 875826, 876294 (with ridge) AQ200, 250, 270, 270T, 275, 280, 280T, PT, 290 DP UNIT: 280, 290
SIE 18-2758	EXHAUST BELLOWS KIT Replaces: 875848, 876631 AQ200, 250, 270, 275, 280, 280DP, 290, 290DP
SIE 18-2765	U-JOINT BELLOWS Replaces: 3854127 For: DP-S, SX

Sierra Exhaust Tubes Mercruiser I/O

18-2746



Part #	Description
SIE 18-2746	EXHAUST BOOT Replaces: 32-14358T, (4" Lower Tube)
SIE 18-2748	EXHAUST BOOT Replaces: 32-44348T, (4" Upper Tube)
SIE 18-2759	EXHAUST TUBE Replaces: 53114, 53114A1
SIE 18-2760	EXHAUST TUBE Replaces: 78458A1 (Includes 18-7314 Clamp), For: #1, Bravo I, II, III
SIE 18-2761	EXHAUST TUBE Replaces: 32-90949, 32-90949T
SIE 18-2762	EXHAUST TUBE Replaces: 70981A3

Sierra Bellows Mercruiser I/O

18-2747



Part #	Description
SIE 18-2747	U-JOINT BELLOWS Alpha 1, Gen II Replaces: 816431A1
SIE 18-2750	EXHAUST BELLOWS All #1 Units, Gen II, TRS, & Bravo I, II, III Replaces: 32734A3, 18654A1 (Includes 18-7314 Clamp)
SIE 18-2751	U-JOINT BELLOWS All #1 units with ridge (S/N 3469428 & UP) Replaces: 60932A4 (Includes 18-7316 Clamp)
SIE 18-2752	U-JOINT BELLOWS All #1 units without ridge (S/N 3443920 & BELOW) Replaces: 36223 (Includes 18-710-72-2 Clamps)
SIE 18-2753-2	SHIFT CABLE BELLOWS All #1, #2 units, Alpha, Bravo I, II, III Replaces: 74639, 74639A2 (Includes 18-7321 Clamp)
SIE 18-2756	U-JOINT BELLOWS Replaces: 86840A3, 86840A05 Fits all Bravo and Blackhawk models

18-2601-1



Sierra
Seal / Gasket Kits I/O

Part #	Description
SIE 18-2601-1	Mercruiser Transom seal kit Replaces: 30-803097T1 R, MR, ALPHA 1 (1983-90) S/N 6225577 & UP ALPHA 1 SS (1986-89) S/N OA 545004 & UP *Greasable Gimbal Bearing
SIE 18-2613	OMC Outdrive gasket set, 508105
SIE 18-2614	Mercruiser Outdrive gasket set, 1967-1982 Replaces: 27-64818A1, 27-64818T4, 27-64818Q4
SIE 18-2619-1	Mercruiser Outdrive gasket set Replaces: 27-64818A3, 27-94996Q2, 27-94996T2 For: R, MR, Alpha I, Alpha Gen II (1983-Newer)
SIE 18-2918-9	OMC Outdrive gasket (5/pkg), 911836, 915840
SIE 18-8205	Mercruiser Transom seal kit Replaces: 30-803098T1 For: 1, R, MR, Alpha 1 with exhaust tube *Greasable Gimbal Bearing
SIE 18-8206-1	Mercruiser Transom seal kit Replaces: 30-803099T1 For: Alpha 1 Gen II *Greasable Gimbal Bearing
SIE 18-8212-1	Mercruiser Transom seal kit Replaces: 30-803100T1 For: All Bravos 1982 & up *Greasable Gimbal Bearing

Sierra
Drain Plugs and Washers - Outboards

Part #	Description	
SIE 18-2375	**Mercury/Mariner, Yamaha** Drain Plug • 3/8" -16 thread Replaces: 10-14834A1, 22-67892A1 Uses Gasket 18-2945 **Chrysler/Force**	
SIE 18-2378	**Johnson/Evinrude (OMC/BRP)** Magnetic Drain Screw Drain Plug	
SIE 18-2387	**Johnson/Evinrude (OMC/BRP)** Drain Screw Replaces: 307551 Fits: 60-75hp 3 cylinder, 20-35hp (1985-97)	
SIE 18-4255	E-TEC Drain Screw Replaces: 307551 Allen Head	
SIE 18-2945-9	**Mercury/Mariner, Yamaha** Drain Screw Gasket (2/pkg) Replaces: 12-20260, 12-19183, 12-19183 2 Used in most lower units and sea water pumps	
SIE 18-29451-9	As above (Pkg of 50)	
SIE 18-4253-9	**Johnson/Evinrude (OMC/BRP)** Drain Screw O-Ring (5/pkg) Replaces: 336982 Used w/18-1236 Drain Screw	
SIE 18-4698	**Mercury/Mariner, Yamaha** Drain Fill Washer Replaces: 27-81987M	
SIE 18-46981-9	As above (Pkg of 50)	
SIE 18-8331-9	**Suzuki** Drain Plug Gasket (5/pkg) Replaces: 09168-10022	

Sierra
Drain Plugs and Washers - Sterndrives

Part #	Description	
SIE 18-2244	**Mercruiser** Drain Plug Replaces: 10-79953A2 For: #1/R/MR/Alpha/Alpha I Gen II Both Upper And Lower Units	
SIE 18-2375	**Mercruiser** Replaces: 10-14834A1, 22-67892A1 For: Alpha MR/Gen II lower units Not to be used on #1/R lower units	
SIE 18-2378	**OMC Sterndrive/Cobra** Magnetic Drain Screw Replaces: 318544 Fits: Cobra 2.3, 3.0, 3.8 & 5.8L (1986-92), V-6, V-4(1979 & Up), 60-75hp 3 cyl, 40/50hp (1989-98)	
SIE 18-2387	**OMC Sterndrive/Cobra** Lower Unit Drain Screw Replaces: 307551 Fits: OMC V-6, V-4(1979 & Up)	
SIE 18-2454	**OMC Sterndrive/Cobra** Drain Plug Replaces: 3854539 For: Cobra SX drives Volvo SX Drives Replaces: 3854539	
SIE 18-3232-9 **	**Mercruiser** (5/pkg) Replaces: 19-47579, 19-475791 For MR Alpha	
SIE 18-4226	**Mercruiser** Drain Plug Replaces: 22-806608A1	
SIE 18-2945-9	**OMC Sterndrive** Drain Screw Gasket (2/pkg) Replaces: 307552	
SIE 18-29451-9	As above (Pkg of 50)	
SIE 18-4248-9	**OMC Sterndrive/Cobra** Drain Fill Washer (5/pkg) (Plastic) Replaces: 311598	
SIE 18-42481-9	As above (Pkg of 50)	
SIE 18-4253-9	**OMC Sterndrive/Cobra** Drain Screw O-Ring Replaces: 336982 Used w/18-1236 Drain Screw	

** While Stock Lasts

For a complete list of all available items Ask for a Sierra Catalogue



EMP Drain Plugs and Parts

Part #	Description	
EMP 10-02593-1	**OMC Sterndrive/Cobra** Replaces: OMC 318544 **Johnson/Evinrude** Replaces: 318544 Magnetic, Allen Head	
EMP 11-01117	**Mercury / Mercruiser** Replaces: 8M2011027	
EMP 22-05157	Vovo 21114522 Fits VP sterndrive and inboard motors engine cooling systems water drain and manifolds	

EMP Gimbal Bearings



EMP 30-00803	Mercury 879194A02 / OMC 3853807 / Volvo 21752712 / Sierra 18-2100 Fits Mercruiser MC-1, R/MR/Alpha One, Alpha Gen II, Bravo, & Blackhawk / 1986-98 Cobra & Cobra SX U-joint assemblies / Volvo various years SX & DP drive U-joint assemblies
EMP 30-00805	Mercury 879194A01 / Sierra 18-21006 Fits Mercruiser Alpha Gen II, Bravo, Bravo X, Bravo XR, & Bravo XZ

Accessories:

EMP 91-91007 Gimbal bearing installer, puller, aligner

Sierra Gimbal Bearings

18-2100



Part #	Description
SIE 18-2100	HEAVY DUTY GIMBAL BEARING Replaces: 30-60794A4, (Link Belt) Fits: Mercruiser- 120HP / 140HP (2791957-6225576) (With Gimbal Trim Sender), 165HP (2763442 & Up), 225S (3856268-4200499), 228HP (4782330 & Up), 233HP (4200500 & Up), 250HP (4791300 & Up)
SIE 18-2100K	SEAL & GIMBAL BEARING KIT Fits: 1, R, MR and Alpha (1974-97)
SIE 18-21001	Replaces: 30-879194A02 Fits: MC-1, R, MR and Alpha(1974-97), Gen II(1991-97), Bravo I/II/III (1988-95)
SIE 18-21005	Replaces: 30-862540A3 Fits:All Bravos, Alpha One Gen II (1998-up)
SIE 18-21006	Replaces: 30-879194A01 Fits: Gen II (1998-10), Bravo I/II/III & X/XR/XZ (1996-10)

Sierra Gimbal Bearing Removal Tool

- For Mercruiser, OMC, and Volvo

SIE 18-79820-2



EMP Impellers

47-00001



EMP 47-00001	Mercury 89984T4 / Sierra 18-3017 ID 22.3 mm, OD 60 mm, W 33.8mm, 6 blades
EMP 47-00002	Mercury 89983T / Sierra 18-3007 Hub uses key, ID 19.3mm, OD 51.8mm, W 19mm, 6 blades
EMP 47-00010	Johnson/Evinrude 5001593 / Sierra 18-3059 Includes key and o-ring, ID 21.31 mm, OD 89 mm, W 19mm, 6 blades
EMP 47-00585	Johnson/Evinrude 434424 / Sierra 18-3001 ID 10.93 mm, OD 69mm, W 12.72mm, 6 blades
EMP 47-00587	Johnson/Evinrude 386084 / Sierra 18-3050 ID 12.75mm, OD 38.4mm, W 17.8mm, 6 blades
EMP 47-01814	Force 430262 / Honda 19210-ZW1-303 / Mercury 43026T2 / Sierra 18-3056 ID 22.4mm, OD 51.2 mm, W 32.5mm, 6 blades
EMP 47-01877	Johnson/Evinrude 765431 / Sierra 18-3082 ID 19.25mm, OD 91.5mm, W 25.4mm, 6 blades
EMP 47-02005	Yamaha 6H3-44352-00-00 / Sierra 18-3069 ID 18.05mm, OD 51.8mm, W 19mm, 6 blades
EMP 47-02275	Yamaha 6E5-44352-01-00 / Sierra 18-3071 ID 22.4mm, OD 51.2mm, W 19.05mm, 6 blades
EMP 47-08730	Johnson/Evinrude 437059 / Sierra 18-3104-1, Includes o-ring, ID 19.15mm, OD 91.3mm, W 25.4mm, 3 blades
EMP 47-09202K	Sherwood 17000K (includes o-ring and cap) Hub uses key ID: 20.1 mm, OD: 84 mm, W: 73.5 mm, 12 blade

Sierra Impellers - Outboards

18-3007



SIE 18-3007	Mercury/Mariner 47-89983, 47-89983T
SIE 18-3017	Mercury/Mariner 47-89984, 47-89984T4, 47-30221, 47-65960
SIE 18-3039	Mercury/Mariner .456", 47-89981
SIE 18-3050	Johnson/Evinrude 386084
SIE 18-3056	Mercury/Mariner 47-43026-2, 47-43026T2
SIE 18-3067	Mercury 47-81604M, 47-84797M Yamaha 689-44352-00-00, 689-44352-01-00, 689-44352-02-00
SIE 18-3085	Chrysler/Force 47-F84065
SIE 18-3090	Johnson/Evinrude 387361, 763735

EMP Solenoids

89-00890



Part #	Description
EMP 89-00890	BRP 586180, 582708, 395419, 383622, 380095, 389493 / Mercury 47886T / Sierra 18-5808 For 1965-2006 J/E 2-cyl 20-60 HP, 3-cyl 70-75 HP, V4 85-140 HP, V6 150-250 HP, V8 250-300 HP outboards For 1973-77 Mercury/Mariner 2-cyl 20 HP outboards
EMP 89-02718	Mercury 96158T / Sierra 18-5817 Fits Mercury/Mariner 4-cyl 45-125 HP, V6 150-300 HP outboards
EMP 89-02719	Mercury 96054T / Sierra 18-5816 Fits Mercury/Mariner 2-cyl 6-40 HP, 3-cyl 50-90 HP, 4-cyl 40-115 HP, V6 150-200 HP outboards

EMP U-Joints

94-01821



Part #	Description
EMP 94-01821	Heavy Duty Mercury 75832T1 / Sierra 18-2174 Fits Mercruiser R/MR/Alpha One, Alpha One-SS, Bravo, Blackhawk, & SSM U-joint assemblies
EMP 94-05536	Permalube Mercury 805536A2, 8055361, 805536A1 / Sierra 18-2097 Fits 1991 & later Alpha Gen II U-joint assemblies
EMP 94-94000	External clip Mercury 865496A02 / Sierra 18-6406 Fits MerCruiser 1998 & later Alpha Gen II, Bravo & Vazer U-Joint assemblies Volvo 3860232 Fits Volvo Penta 2015 & later 2.4-3.1L 4-cyl 100-150 hp / 3.6L 6-cyl 145-230 hp diesel and 2.1-2.5L 4-cyl 120-146 hp / 3.6-4.3L 6-cyl 153-205 hp / 5.0-7.4L V8 210-330 hp gasoline U-Joint assemblies

Sierra U-Joints

18-2104



Part #	Description
SIE 18-2104	Heavy Duty Replaces: 75832A2, 75832T Includes both straight and 90° grease fitting. (Rockwell) Fits all #1 and ALPHA I Units S/N 1684188-B418818. Also TR/TRS and II SSM.
SIE 18-2174	Heavy Duty Replaces: 75832A3, 758321, 75832T1 Includes both straight and 90° grease fitting. (Rockwell) Fits ALPHA I Units S/N B418819 & above. Also fits ALPHA I SS & BRAVO
SIE 18-6406	Replaces: 865496A01, 865493A01 GKN new style with external clips. Fits: Alpha I Gen II 0L949779 & UP, Bravo 0M111208 & UP For: Mercruiser Vazer

EMP U-Joint Assembly



Part #	Description
EMP 94-04823	OMC 3852384, 3860842 / Sierra 18-2339 Fits OMC Cobra (1994-1998), Volvo Penta SX (1994-2006), Volvo Penta DP-S1, DPS-A, DP-SM

Sierra Starter Rope

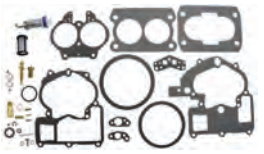


- 200' rolls; Sold by the foot

SIE 18-4911 5/32", Replaces OMC 322236
SIE 18-4913 3/16", Replaces OMC 0772578
SIE 18-4914 1/8"', Replaces OMC 0772579

EMP Carburetor Kits

1300-08707



Part #	Description
EMP 1300-01432	Johnson/Evinrude 396701 / Sierra 18-7222 Includes float, fits Johnson/Evinrude 2-cyl 18-55 HP, 3-cyl 60-75 HP outboards
EMP 1300-01895	BRP 439076, 434888, 435443, 398526, 390055, 393872, 383906, 392550, 390241, 387730, 391343 / Sierra 18-7046 Fits Johnson/Evinrude 1993-98 V4 88-115 HP outboards
EMP 1300-08646	BRP 439072, 398452, 390139, 391305, 389786, 391937 / Sierra 18-7223 Fits Johnson/Evinrude 1979 & later 2-cyl 3-8 HP outboards
EMP 1300-08647	BRP 439071, 383052, 382046, 382049, 382045, 382047 / Sierra 18-7043 Fits: Johnson/Evinrude 1952-79 2-cyl 4-6 HP outboards
EMP 1300-08707	Mercury 804844002 / Sierra 18-7098-1 Fits Mercruiser 4-cyl 120-140 HP, V6 165-170 HP, V8 180-230 HP GM & MIE engine 2-bbl carburetors
EMP 1300-36002	Mercury 9024 / Sierra 18-7215 Fits Mercury/Mariner 4-cyl 45-50 HP outboard 4-stroke Walbro carburetors
EMP 1300-36005	Mercury 5198 / Sierra 18-7007 Fits Mercury/Mariner 2-cyl 7.5-20 HP, 4-cyl 45-50 HP outboard Tillotson carburetors

EMP Alternator



Part #	Description
EMP 300-01926	Chrysler MA22 / Sierra 18-5957 Fits Chrysler Inboard engines 12V, 70 amp Mercury 817119A4, 817119A1, 92497A3, 12449A1, 98555A1, 92497, 12449 MerCruiser GM & MIE 4-cyl 115-140 hp / V6 155-175 hp / V8 200-500 hp engines Volvo 3860769 Volvo Penta 1993-94 1993-94 4-cyl V6 & V8 GM & MIE engines

EMP Starters - Johnson/Evinrude

50-02839



Part #	Description
EMP 50-02839	BRP 586281, 585058, 386657, 585050, 391735, 384777 / Sierra 18-5648 Fits 1971-2001 3-cyl 55-75 hp outboards, 9 tooth
EMP 50-02841	BRP 778993 / Sierra 18-5630 Fits 1996-97 2-cyl 55 hp outboards, 9 tooth
EMP 50-02842	BRP 586283 / Sierra 18-5634 Fits 1994-97 V4 90-115 hp outboards, 10 tooth
EMP 50-13294	BRP 586768, 587045 / Sierra 18-6826 Fits 2004-2013 E-TEC 2-cyl 15-55 hp / 3-cyl 60-75 hp / 4-cyl 90 hp outboards, 9 tooth
EMP 50-26012	BRP 586287, 586286, 432925 / Sierra 18-5612 Fits 1991-2006 3-cyl 75-90 hp / V4 100-135 hp / V6 150-175 hp outboards, 9 tooth
EMP 50-26025	BRP 586284 / Sierra 18-5632 Fits 1995-97 V4 90-115 hp outboards 9 tooth
EMP 50-26026	BRP 778994 / Sierra 18-5628 Fits 1985-99 V4 120-140 hp outboards, 10 tooth
EMP 50-26027	BRP 586890, 586897, 586731, 586411, 586289, 5004545, 584799, 396235, 397023, 391511 / Sierra 18-5619 Fits 1986-99 V6 200-225 hp / V8 275-300 hp outboards, 10 tooth

50-02400



EMP Starters - Chrysler, Force, Nissan/Tohatsu, OMC, Suzuki

Part #	Description
EMP 50-02400	Force 819085T1 / Sierra 18-5613 Fits 1989-99 Force 3-cyl 70-90 hp / 4-cyl 100-140 hp / 150 hp outboards. 9 tooth gear
EMP 50-02829	OMC 988217, 3855882, 3850526, 988218, 982121 / Chrysler MS21 / Sierra 18-5919 Fits OMC 1994 4-cyl, 130 hp GM engines Fits Chrysler inboard 4-cyl engines
EMP 50-15860	OMC 981078, 982121, 983444, 983790, 985966 / Sierra 18-5911 Fits 1978-2014 GM & MIE engines, 9 tooth gear, Bottom mount, straight across bolt pattern, standard rotation
EMP 50-26030	OMC 3854190 / Sierra 18-5920 Fits 1992-93 5.0-5.8L V8 185-240 hp Ford engines. Permanent magnet, gear-reduction, 21 Volt, CW rotation
EMP 50-26034	Chrysler MS18 / Sierra 18-5908 Fits Chrysler Inboard V6/V8 engines
EMP 50-26053	Chrysler MS31 / Sierra 18-5903 Fits Inboard Ford, bottom mount (with non-threaded top mounting hole), two bolt pattern, inboard engines. 12V
EMP 50-35863	OMC 3855177, 3854751 / Sierra 18-5913 Fits 1987-2012 GM & MIE engines with 14" flywheel, offset bolt pattern, 11 tooth
EMP 50-39691	Suzuki 31100-93J00, 31100-96J00, 31100-96J01 / Sierra 18-6941 Fits 2004-17 2-Stroke & 4-Stroke 4-cyl 70-200 hp / 6-cyl 200-300 hp outboard engines
EMP 50-42861	Suzuki 31100-94400, 31100-94401, 31100-94402, 31100-96310, 31100-96311 / Sierra 18-6432 Fits Suzuki various year 2-stroke & 4-stroke 2-cylinder, 9.9-70 hp outboard engines Nissan/Tohatsu 3C8-76010-1, 3C8-76010-1M Fits Nissan/Tohatsu For 2-stroke & 4-stroke 2-cylinder 9.9-30 hp, 3-cylinder 40-70 hp, 4-cylinder 90 hp outboards 9 tooth gear
EMP 50-75969	OMC 3850525, 3853982, 686505, 984456, 986505 / Sierra 18-5910 Fits 1986-93 3.0L 4-cyl 120-1630 hp / 4.3L V6 160-165 hp / 5.0-7.4L V8 185-330 hp small block GM engines with 14 1/4″ flywheels. Bottom mount, offset bolt pattern, CW rotation

EMP Starters - Volvo

Part #	Description
EMP 50-02829	Volvo 3862308, 3856003 / Sierra 18-5919 Fits 1995-98 GM 4-cyl engines
EMP 50-15860	Volvo 855325-5, 855326-5 / Sierra 18-5911 Fits 1978-2014 GM & MIE engines, 9 tooth gear, Bottom mount, straight across bolt pattern, standard rotation
EMP 50-26030	Volvo 3854190 / Sierra 18-5920 Fits 1993-96 Ford V8 engines. Permanent magnet, gear-reduction, 21 Volt, CW rotation
EMP 50-26031	Volvo 3884950 / Sierra 18-5917 Fits 1987-92 Ford V8 engines
EMP 50-26034	Volvo 21129980, 855334 / Sierra 18-5908 Fits 1973-93 V6 & V8 170-330 hp engines
EMP 50-26053	Volvo 841066 / Sierra 18-5903 Fits 1976-77 Ford engines. Bottom mount (with non-threaded top mounting hole), two bolt pattern, inboard engines
EMP 50-35863	Volvo 872394, 3856004, 3587625 / Sierra 18-5913 Fits 1987-2012 GM & MIE engines with 14" flywheel, offset bolt pattern, 11 tooth
EMP 50-50519	Volvo 21129980, 3862985 / Sierra 18-5603 Fits various years GM & Ford top mount rear entry for standard rotation engines
EMP 50-75969	Volvo 3850525, 3850525-1, 3853982, 3853982-1, 3855177, Sierra 18-5910 Fits various years 4-cyl V6 & V8 small block GM engines with 14 1/4" flywheels. Bottom mount, offset bolt pattern, CW rotation

50-02402



EMP Starters - Mercury

Part #	Description
EMP 50-02402	Mercury 90983T1 / Sierra 18-5611 Fits 1977 & later Mercury/Mariner 2-cyl 6-25 hp outboards, 10 tooth
EMP 50-15860	Mercury 69863A1, 69864A1, 79821A2, 79822A1, 79823A1, 99417A2 / Sierra 18-5911 Fits 1978-2014 GM & MIE engines, 9 tooth gear, Bottom mount, straight across bolt pattern, standard rotation
EMP 50-26014	Mercury Mercury 55601A2 / Sierra 18-5601 Fits 1975-83 Mercury/Mariner 2-cyl 35-40 hp / 4-cyl 50 hp outboards, 10 tooth
EMP 50-26015	Mercury Mercury 893892T, 660153, 660151, 66015T / Sierra 18-5610 Fits 1998-2008 Mercury/Mariner 4-cyl 100-125 hp outboards, 8 tooth
EMP 50-26016	Mercury Mercury 67341 / Sierra 18-5602 Fits 1975-2010 Mercury/Mariner 2-cyl 35-40 hp / 3-cyl 50-90 hp / 4-cyl 65-80 hp / 6-cyl 100 hp outboards, 10 tooth
EMP 50-26017	Mercury Mercury 73521T / Sierra 18-5605 Fits 1976-80 / 1982-97 Mercury/Mariner 4-cyl 40-50 hp outboards, 10 tooth
EMP 50-26020	Mercury Mercury 893890T, 822462T1, 822462 / Sierra 18-5621 Fits 1994-2010 Mercury/Mariner 2-cyl 30-40 hp / 3-cyl 40-60 hp outboards, 10 tooth
EMP 50-26050	Mercury Mercury 898265010, 72467, 64975, 57465A1 / Sierra 18-5636 Fits 1973-2005 Mercury/Mariner 4-cyl 65-85 hp / 6-cyl 85-150 hp / V6 150-175 hp outboards, 10 tooth
EMP 50-26051	Mercury Mercury 832997003, 8329972, 8329971, 832997 / Sierra 18-6282 Fits 1997-2005 Mercury/Mariner V6 175-240 hp outboards, 8 tooth
EMP 50-26053	Mercury 69865A1 / Sierra 18-5903 Fits 1970-82 MerCruiser Ford engines. Bottom mount (with non-threaded top mounting hole), two bolt pattern
EMP 50-26055	Mercury 79604A3, Sierra 18-5907 Fits 1972 Ford, GM & MIE engines. Top mount, rear entry
EMP 50-26057	Mercury 853329T, 892339T, 893892T, 853329T, 892339T, 893892T / Sierra 18-6440 Fits 2001 & later Mercury/Mariner outboards, 8 tooth
EMP 50-35863	Mercury 812428A3 / Sierra 18-5913 Fits 1987-2012 GM & MIE engines with 14" flywheel, offset bolt pattern, 11 tooth
EMP 50-50519	Mercury 808011A05, 808011A4 / Sierra 18-5603 Fits 1967-2014 Ford, GM & MIE engines. Top mount rear entry starter for standard rotation engines
EMP 50-60957	Mercury 57485, 60315, 65436, 66015, 66015-2, 88119, 893891 / Sierra 18-5642 Fits 1975 & later Mercury/Mariner outboards, 10 tooth
EMP 50-63283	Mercury 807904A1 / Sierra 18-6275 Fits GM & MIE 3.0L, 4-cyl / 4.3L, 6-cyl / 5.0-8.1L, V8 engines. Clockwise rotation 2 bolt staggered pattern, 9 tooth gear
EMP 50-75969	Mercury 12177A2, 77328A1, 77328A3, 99418A2 / Sierra 18-5910 Fits 1982-96 GM & MIE small block V-6 & V-8 GM engines with 14" flywheel, bottom mount, offset bolt pattern, standard rotation
EMP 50-84194	Mercury Mercury 893893, 79472T2, 884238T, 794721, 79472, 44415, 77141 / Sierra 18-5608 Fits 1999-2005 Mercury/Mariner V6 135-200 hp outboards, 8 tooth

Sierra Alternators

18-5882



Part #	Description
SIE 18-5882	Replaces: 3884950 75A, 12V, Serpentine 3.0L, 4.3L, 5.0L, 5.7L, 8.1L (2007 - Current)
SIE 18-5939	Replaces: 872235, 3803260, 873770, Valeo: A13N234, 2541451 14V/60 AMP: AQ115, AQ120B, AQ125, AQ130, AQ140, AQ145, AQ165, AQ170, AQ200, AQ225, AQ256, AQ260, AQ280, AQ290, BB115, BB145, MB20; Diesel Engine
SIE 18-5956-1	(1-Wire) (No Core) (68 AMP) Single wire connection fits Mercruiser and many other applications. Equipped with fan and drive pulley. Replaces: 69729
SIE 18-5957-1	(3-Wire) (No Core) (68 AMP) Replaces Mando, Motorola and original equipment Delco. Uses same electrical connections and mounting method. Equipped with fan and drive pulley. Replaces: 78477, 78403A2, 92497A3.
SIE 18-5960	Serpentine Pulley • 65 Amp, Replaces: 807653T
SIE 18-5965	65 Amp, Replaces: 817119A1, 817119A4, 805884T
SIE 18-5966-1	Single Groove Pulley • 55 Amp Replaces: 817119A4, 12449A1
SIE 18-5967-1	Serpentine pulley (55 AMP). Fits 1996-1999 GM V6 & V8 (305 & 350 CID) carb engines. Replaces: 807652T
SIE 18-5982	Replaces: Cummins 216040, 3604234RX Fits: Cummins Diesel Marine
SIE 18-6293	Replaces: 862031T • SAE J1171 7SI/70 amp, Hinge Mount, Serpentine Pulley 2.44" Diameter
SIE 18-6298	Replaces: 863077T • SAE J1171 7SI/70 amp, Hinge Mount, Serpentine Pulley 1.97" Diameter
SIE 18-6454	Replaces: 875285T1, 881248T02, 889955T01 5S/I 50 amp Spool mount, Fits 2.5L
SIE 18-6841 **	Replaces: 983424, 836, 247 For: 37-63A Marine Applications
SIE 18-6846	Replaces: Volvo Penta 1502272, 3803270-2, 5001677, 845940, 72021, 872022, 872757, 873635, 873757, 873757-9, 873771,
SIE 18-6955 *	Replaces: Caterpillar 3001117, 10-258, Prestolite 110-258, 110-258A, Volvo 849748-9 Fits: Volvo Diesel 6 cylinder models

* Special Order - may have stock
** While Stock Lasts

Sierra Starters

18-5903



Part #	Description
SIE 18-5903	Replaces: 841066-4 (No Core)Clockwise Bottom mount two bolt pattern for standard rotation FORD engines.
SIE 18-5906	Replaces: 840808, 872241 Fits : Volvo Penta 4 Cylinder and 6 Cylinder Gas Engines
SIE 18-5907	(Heavy Duty) (No Core) Clockwise Top Mount Rear Entry Starter Will not replace non-starter mounted solenoids. For Opposite Rotation GM & Ford Engines. Replaces: 42090
SIE 18-5908	(Heavy Duty) (No Core) Counter-Clockwise Top Mount Rear Entry Starter For Standard Rotation GM & Ford Engines. Replaces: 42091
SIE 18-5910	(Heavy-Duty) (No Core) Small block GM V-6 & V-8 Engine with 14 1/4" flywheel and bottom mount, offset bolt pattern. For standard rotation engines. Clockwise. 1986-1992 - V-6, V-8 (GM) and 1990-1993 OMC King Cobra Replaces: 984456, 986505
SIE 18-5911	Replaces: 834893, 855326 (Heavy-Duty) (No Core) Clockwise For GM engines, bottom mount straight across bolt pattern. Standard rotation
SIE 18-5913-1	Replaces: 3856004, 3860764, 3587625, 3853982, 3854751, 3885317 (Clockwise) Delco permanent magnet gear reduction 2 bolt starter. 12V - 11 Tooth Offset Bolt Pattern For: Late model GM 14" Flywheel
SIE 18-5917	Starter
SIE 18-5919-1	Replaces: 3856003 Permanent magnet I/O starter Fits: Chevy Engines with 12-3/4" flywheels Straight across bolt pattern
SIE 18-5920	Replaces: 3854190 Permanent magnet starter
SIE 18-6275-1	Inboard • Permanent Magnet Gear Reduction Starter • 2 Long Bolt Offset Pattern • CW Rotation • Use w/ Late Model 3.0L Engines with 14" Flywheel

EMP 100 Hour Service Kits

92-92701



Part #	Description
EMP 92-92600	Mercury 8M0097856 For 75-115 HP 4-stroke (1.7 L), Serial #s 1B366823 - 2B094995
EMP 92-92601	Mercury 8M0097854 For 75-115 HP 4-stroke (2.1 L), Serial #s 2B094996 & up
EMP 92-92602	Mercury 8M0094232 For 150 HP EFI 4-stroke
EMP 92-92603	Mercury 8M0097858 For L6 Verado 4-stroke, Serial #s 2B144122 & below
EMP 92-92604	Mercury 8M0120657 For L6 Verado 200-350 HP EFI 4-stroke, Serial #s 2B144123 & up
EMP 92-92605	Mercury 8M0149929 For NEW 175-300 HP V6 (3.4 L) & V8 (4.6 L) 4-stroke outboards
EMP 92-92700	Mercruiser 8M0147048 For 2.5 L & 3.0 L Carb (1987 & newer)
EMP 92-92701	Mercruiser 8M0147052 For 4.5 - 6.2 L Mercruiser 2014 - current
EMP 92-92702	Mercruiser 8M0147053 For GM V8 Mercruiser 2002 - current
EMP 92-92703 *	Mercruiser 8M0147054 For Alpha I Mercruiser outdrive 1990 - 1994

* Special Order

300-03084



EMP Tune-Up Kits with Cap

Part #	Description
EMP 300-03074	Mercury 808483Q1, 808483T2 / Sierra 18-5281 Fits Mercury 1993-2005 V8, 180-575 HP GM & MIE engines with Delco EST ignition Indmar S496083 Fits Indmar V8 engines with Delco EST ignition Fits OMC 1995-98 V8, 190-415 HP GM engines with Delco EST ignition
EMP 300-03084	Mercury 13524A6 / Sierra 18-5274 Fits Mercruiser V6, 225-390 HP GM & MIE engines with Thunderbolt HEI ignition
EMP 300-03085	Mercury 805759Q3 / Sierra 18-5273 Fits Mercruiser V8, 180-800 HP GM & MIE engines with Thunderbolt HEI ignition
EMP 300-03090	Mercury 898253T28 / Sierra 18-5246 Fits Mercruiser V6, 155-175 HP GM & MIE engines using Delco HVS distributors Volvo 9-29319 Fits Volvo Penta V6, 200-225 HP GM engines using Delco HVS distributors
EMP 300-03091	Mercury 8M6001106 / Sierra 18-5247 Fits Mercruiser V8, 180-350 HP GM & MIE engines using Delco HVS distributors Volvo 9-29318 Fits Volvo Penta V8, 225-320 HP GM & Volvo OS engines using Delco HVS distributors

Sierra Johnson/Evinrude Tune-Up Kits I/O's

18-5002



Part #	Description
SIE 18-5002	Replaces: 172523 18-5205 (581419) Condenser 2 ea 18-5156 (580148) Contact Set 2 ea
SIE 18-5003	Replaces: 172806 18-5205 (581419) Condenser 2 ea 18-5141 (581207) Contact Set 2 ea
SIE 18-5006	Replaces: 172522 18-5199 (580321) Condenser 2 ea 18-5156 (580148) Contact Set 2 ea

Sierra Volvo/Penta Tune-Up Kits I/O's

Part #	Description
SIE 18-5260	18-5306 (240149) Contact Set 18-5342 (243653) Condenser 18-5428 (243903) Rotor Bosch 4 cyl.
SIE 18-5266	Fits: Flame Thrower Distributors 18-5481, 18-5482, 18-5483, 18-5477, 18-5478, 18-5479
SIE 18-5284	18-5305 (243799, 1306169, 243460) Contact Set 18-5349 (841262) Condenser 18-5428 (243903) Rotor

Sierra Chris-Craft Tune-Up Kits I/O

18-5289



Part #	Description
SIE 18-5290	HI-PERFORMANCE ELECTRONIC CONVERSION KIT Fits: Most Mallory YL or YD 8 cylinder Distributors with clockwise and counter clockwise rotation

Sierra Mercruiser Tune-Up Kits I/O's

Part #	Description
SIE 18-5246	Replaces: 898253T28 For: Late model V-6, 4.3L (Alpha/Bravo)
SIE 18-5247	Replaces: 898253T29 For: Late model V-8 (Alpha/Bravo 350 Mag, 5.0L, & MX 6.2L)
SIE 18-5250	Replaces: 34235T1, 34235Q1 18-5311 (34235) Contact Set 18-5345 (33662) Condenser 18-5418 (58217) Rotor Delco 4 & 6 cyl.
SIE 18-5251	18-5314 (391-5090) Contact Set 18-5338 (391-5092) Condenser 18-5404-1 (391-7057) Rotor Mallory 8 cyl. Tall Cap
SIE 18-5258	18-5303 (392-6325) Contact Set 18-5347 (392-6324) Condenser 18-5407 (392-6326) Rotor Prestolite 8 cyl.

Sierra Mercruiser Tune-Up Kits with Cap I/O's

18-5267



Part #	Description
SIE 18-5268	18-5311 (34235) Contact Set 18-5345 (33662) Condenser 18-5418 (58217) Rotor 18-5385)393-9459) Distributor Cap Delco In-Line 4 - Single Point
SIE 18-5269	18-5311 (34235) Contact Set 18-5345 (33662) Condenser 18-5418 (58217) Rotor 18-5386 (33765) Distributor Cap Delco In-Line 6 - Single Point
SIE 18-5271	18-5314 (391-5090) Contact Set 18-5338 (391-5092) Condenser 18-5404-1 (391-7057, 391-5088) Rotor 18-5376 (391-5075) Distributor Cap Mallory V-8 - Single Point - Top Terminal
SIE 18-5273	Replaces: 805759T3 / 805759Q3 18-5431 (13524A5) Rotor 18-5395 (16457A4) Distributor Cap Mercury Thunderbolt HEI - V-8
SIE 18-5274	18-5432 (13524A6) Rotor 18-5396 (13753A2, 815407A2) Distributor Cap Mercury Thunderbolt HEI - V-6
SIE 18-5275	18-5303 (392-6325) Contact Set 18-5347 (392-6324) Condenser 18-5403 (392-9089) Rotor 18-5352 (392-9766) Distributor Cap Prestolite V-8 - Single Point - Screw Cap
SIE 18-5276	18-5303 (392-6325) Contact Set 18-5347 (392-6324) Condenser 18-5403 (392-9089) Rotor 18-5353 (392-9086) Distributor Cap Prestolite V-6 - Single Point - Screw Cap
SIE 18-5277	18-5303 (392-6325) Contact Set 18-5347 (392-6324) Condenser 18-5407 (392-6326) Rotor 18-5369 (392-6318) Distributor Cap Prestolite V-8 - Single Point - Clip Cap
SIE 18-5278	Replaces: 850484T3 Delco EST - V-6
SIE 18-5280	Replaces: 811635Q2 Delco EST - In-Line 4 18-5361 (811635, T3) Distributor Cap 18-5406 (811636, 1) Rotor
SIE 18-5281	Fits: male cap v-8 flamethrower distributors

NGK Spark Plugs



NGK produces spark plugs for almost every application, from outboards to stern drives, from small trolling motors to highly modified V8s. Cold-rolled threads help prevent spark plugs from seizing, even in aluminum heads or salt water environments. And NGK's double-dipped zinc chromate coated metal shell makes it very corrosion resistant, even in harsh salt water environments.

NGK AR6FS	3323
NGK BCPR5EIX-11 *	3306
NGK BKR6E	6962
NGK BKR6EKU	6993
NGK BKR7EKU	5881
NGK BKR7ES-11	4952-2387
NGK BPMR7A-SOLID	6703
NGK BPR5ES	7522
NGK BPR6EFS	3623-3534
NGK BPR6ES	7922
NGK BPR6FS	2623
NGK BPR6HS	7022-1176
NGK BPR6HS-10	2633
NGK BPR7HS	5032
NGK BPR7HS-10	1092
NGK BPZ8H-N-10	4495
NGK BPZ8HS-10	3133
NGK BPZ8HS-15	3180
NGK BP8H-N-10	4838
NGK BP8HS-10	3823
NGK BP8HS-15	6729
NGK BR6ES	5371
NGK BR6FS	4323
NGK BR6HS	3922-4065
NGK BR6HS-10	1090
NGK BR6S	3522-1294
NGK BR7HS	3977
NGK BR7HS-10	6088
NGK BR8ES	5422-5522
NGK BR8ES-SOLID	6065
NGK BR8HS	4035
NGK BR8HS-10	2257
NGK BR9ES	5822
NGK BR9ES-SOLID	3277
NGK BR9HS	7059
NGK BR9HS-10	4551
NGK BUZ8H	7447
NGK BU8H	6431
NGK BZ7HS-10	3579
NGK B7HS	5210
NGK B7S	3710-3662
NGK B8HS **	5610
NGK CR4HSA	2430
NGK CR5EH-9	6689
NGK CR5HSB	6535
NGK CR6HSA	2983
NGK CR9EB	6955
NGK DCPR6E	3481
NGK DCPR7E	3932
NGK DCPR8E	4339
NGK DPR6EA-9	3685
NGK DPR6EB-9	3108
NGK DR5HS	4623
NGK DR6HS	4823
NGK DR7EA	7839
NGK DR8EA	7162
NGK DR8ES-L	2823
NGK GR5 *	7537
NGK ILFR6G-E	4212
NGK ITR4A15	5599
NGK IZFR5G	5887
NGK IZFR5J	5899
NGK IZFR6J	4462
NGK LFR4A-E	6499
NGK LFR5A-11	6376
NGK LFR6A-11	3672
NGK LKAR7C-9	93961
NGK LKR6E	92650
NGK PZFR5F-11	4363
NGK PZFR6H	7696
NGK PZTR5A-15	7862
NGK TR5	7837
NGK TR5IX	7397
NGK TR55IX	7164
NGK TR55	3951
NGK TR55GP	3403
NGK TR6	4177-6078
NGK UR4	4762
NGK UR5	2139
NGK XR5	5953
NGK YR5	5334
NGK YR55 *	3475
NGK ZFR5F	7558
NGK ZFR7F-11	2975

* Special Order - may have stock
** While Supplies Last

AC Delco Spark Plugs



ACD MR43LTS	Mercury 33-862029
ACD MR43T	Mercury 33-898264001.

Sierra Spark Plug Wires



8mm Spiral core provides the high conductivity of metallic conductor while suppressing radio frequency interference (RFI). Terminals are factory-crimped with extra pull-strength for reliable connection. Corrosion resistant spark plug and distributor terminals provide maximum conductivity. Boots seal at wire and spark plug to protect connection from heat, dirt, and moisture. Silicone outer jacket & fibreglass braiding.

Part #	Sterndrive/Inboard Description	No of Cylinders	Coil Wire	Dist. End	Spark Plug End	Coil End	Coil Dist. End
SIE 18-8800-1	Chris-Craft 181 CID	4	13	5	2	9	5
SIE 18-8801-1	Volvo Penta 876532-3	6	13	5	2	9	5
SIE 18-8802-1	Volvo Penta, Chris-Craft 350 CID	8	13	5	1	9	5
SIE 18-8803-2	Volvo Penta 876533-1	8	13	5	1	9	5
SIE 18-8804-1	Mercruiser 84-813720A2, 84-813720A3, 84-813720A4, 84-816608Q61, 84-816761A4, 84-816761Q3, 84-816761Q4	8	12	6	1	10	6
SIE 18-8806-1	OMC/OMC Cobra 5L 8 cyl 89-90, 5.8L 8 cyl 89-90	8	13	5	1	9	5
SIE 18-8807-1	OMC 2.3L 4 cyl 87-90	4	13	5	2	9	5
SIE 18-8808-2	Mercruiser 84-813720A6, 84-816761Q6	4	13	5	3	9	5
SIE 18-8809-1	Mercruiser 84-813720A8, 84-816761Q8 L6 84-816761A8, 84-816761Q8 L6	6	13	5	1	9	5
SIE 18-8810-1	OMC Sterndrive/Cobra 503751	6	13	6	1	10	6
SIE 18-8811-1	Mercruiser 84-813720A13, 84-816761Q13	4	12	7	3	7	7
SIE 18-8813-1	Volvo Penta 875571-2	4	20	9	14	13	13
SIE 18-8819-1	Outboard	-	-	11	6	-	-
SIE 18-8820-1	Pleasurecraft 5.0/5.7L Delco EST	8	14	4	1	6	4
SIE 18-8821-1	Mercruiser 84-813720A3, 84-816761Q3, 84-813720A4, 84-816761Q4, 84-816761A4, 84-816761Q4	8	12	6	1	5	6
SIE 18-8822-1	Mercruiser 84-816608A81, 84-816608Q81	8	15.5	4	1	4	4
SIE 18-8823-1	Chris-Craft 350 CID (Mallory side)	8	12/17	9	1	11	5
SIE 18-8824-1	84816608Q78 Mercury Marine	8	14	4	1	6	4
SIE 18-8828-1	Mercruiser 5.0L MPI Alpha 8 cyl 01 & up	8	21	17	1	8	8
SIE 18-8832-1	Mercruiser 84-816608K68	8	9	4	1	4	4
SIE 18-8833-1	Marine Power 3.0L 8cyl 1993 & up Mercruiser 3.0LX 1991-1997	4	9	4	1	4	4
SIE 18-8835-1	Mercruiser 84-816608A82, 84-816608Q82	6	15.5	4	1	4	4
SIE 18-8836-1	Mercruiser 84-816608Q71	8	16	4	1	4	4
SIE 18-8842-1	503753 Evinrude Johnson OMC BRP	8	9	5	3	5	5



Part #	Outboard Description	No of Wires	Dist. End	Spark Plug End
SIE 18-8816-1	Johnson/Evinrude	1	4	4
SIE 18-8818-1	Johnson/Evinrude (OMC) 582365	1	4	4
SIE 18-8839-1	Replaces OEM #5005805	4	4	6



Sierra Spark Plug Wire Kit

Kit includes a 25' roll of 7mm Hypalon ignition wire with a metallic core and a assortment of three types of end fittings for outboard motors.

SIE 18-5225

Sierra Hypalon Spark Plug Wire



100' spool

SIE 18-5226

CDI Multimeter



- Auto-ranging
- DC & AC volts range: 0.0001 to 1000 volts
- Diode
- Continuity beeper
- Milli and micro ampere (400mA MAX)
- Amps (10 amps MAX)
- Ohms
- Temperature
- Auto shutdown
- Back lighted display
- 511-9773-NL DVA Adapter

Includes storage case, test leads and manual.

CDI 511-60A

** While Stock Lasts

Sierra Timing Light



- Replaces Mercury Marine 91-99379
- Powered by two "D" cell batteries (not included)

SIE 18-9802

CDI Piercing Probe Set



Set contains 1 red and 1 black test probe. Fully insulated probes have a spring loaded clamp with a tiny stainless steel pin that self centres and punctures the insulation.

CDI 511-9770 **

** While Stock Lasts

CDI Pin Tool Set



Set contains 1 each of:
553-2697, Insertion tool
533-2698, Pin Removal tool
553-2699, Socket Removal tool

CDI 553-2700 **

** While Stock Lasts

CDI Neon Spark Tester 1 Cylinder



Sealed spark tester can be used inline to the spark plug while the engine is running or it can be connected to engine ground for cranking speed tests.

CDI 511-9764

CDI Spark Tester



- Spark tester can be used to test from 1 to 8 cylinders
- Sealed design reduces the possibility of fire

CDI 511-9766

► *Also See* Sierra Tools pg 09-034

For a complete list of all available items Ask for a Sierra Catalogue



Seloc by Sierra Marine Manuals



The only marine tune-up and repair manuals with easy to understand step-by-step illustrated procedures for the complete dismantling, repair and assembling of marine power plants. Seloc manuals include Skill Level Ratings (1 - 4 wrenches) based upon the degree of difficulty along with Special Tool icons where an OEM or electronic testing tool is required to perform the specified procedure. Comprehensive and authoritative.

Honda Outboards	
SEL 18-01200	1978-01 Covers all 2 - 130 Hp, 1 to 4-cylinder, 4-stroke models
SEL 18-01202	2002-08 Covers all 2 - 225 Hp, 1 to 4-cylinder & V6, including jetdrives
Johnson/Evinrude Outboards	
SEL 18-01301	Johnson/Evinrude O/B - 1958-72 1 - 2 Cyl 1.5 - 125 Hp, 1-3 cylinder and V4, 2-stroke models
SEL 18-01302	1971-1989 Covers all 1.25-60 Hp, 1 and 2-cylinder, 2-stroke models
SEL 18-01308	1973-91 Covers all 60-235 Hp, 3-cylinder, V4 and V6, 2-stroke models
SEL 18-01311	1992-2001 Covers all 65-300 Hp, V4, V6, and V8 engines. Includes Jet Drives
SEL 18-01312	1.25HP-70HP 2 and 4 stroke 90-2001
SEL 18-01313	40-250 Hp All 2-stroke fuel Injected
SEL 18-01314	2.5 - 250 HP 2-stroke and 4-stroke
Mercury Outboards	
SEL 18-01404	1965-1989 Covers all 2-40 Hp, 1 and 2-cylinder, 2-stroke models
SEL 18-01406	1965-1989 Covers all 40-115 Hp, 3 and 4-cylinder, 2-stroke models
SEL 18-01408	1965-1989 Covers all 90-300 Hp, in-line 6 and V6, 2-stroke models, including fuel injected units
Mariner Outboards	
SEL 18-01400	1977-1989 Covers all 2-60 Hp, 1 and 2-cylinder, 2-stroke models
SEL 18-01402	1977-1989 Covers all 3 and 4-cylinder, in-line 6 & V6, 2-stroke, including fuel injected units.
Mercury/Mariner Outboards	
SEL 18-01416	1990-2000 Covers all 2-250 Hp, 1 to 4-cylinder, V6, 2-stroke models; includes Fuel Injectionand Jet Drives
SEL 18-01418	2001-05 2.5-250 Hp All 2-stroke models; includes fuel injection and Jet drives
SEL 18-01422	2005-10 2.5-300 Hp All 4-stroke models; includes Jet drives
SEL 18-01424	2012-20 Covers all Mercury 4-stroke outboard engines 2.5-350 Hp
Force Outboards	
SEL 18-01101	1962-1999 Chrysler/Force Outboard Covers all 3 -150 Hp, 1 to 5-cylinder, 2-stroke models, including L Drives
Nissan/Tohatsu Outboards	
SEL 18-01500	92-2009 2 & 4-stroke models

Yamaha Outboards	
SEL 18-01701	1984-1996 Covers all 2 -250 hp 1-4 Cylinder, V4 and V6 Models 2 and 4 Stroke Models, including Jet Drives
SEL 18-01703	1997-2003 Covers all 2 -250 hp 1-4 Cylinder, V4 and V6 Models 2 Stroke Models, including Jet Drives
SEL 18-01705	1995-04 Yamaha/Mercury O/B 4-stroke
SEL 18-01707	2005-10, 2.5 - 350 hp 4-stroke including Jet Drives
Mercruiser Stern Drive	
SEL 18-03200	1964-1991 Covers Type 1, Alpha/MR and Bravo I and II units powered by Ford and GM 4-cylinder, in-line 6, V6 and V8 engines
SEL 18-03206	1992 - 2000 Covers all engines and drive units, including transmission Includes carburettor and fuel injected engines
SEL 18-03208	2001-13 All engines and drive units, including Velvet and ZF/Hurth transmissions. Includes carburetted and fuel injected engines
OMC Stern Drive	
SEL 18-03400	1964 - 1986 Covers stern drive units powered by GM 4-cylinder, V6 and V8 engines
SEL 18-03404	1986-1998 Covers all Cobra, King Cobra and Cobra "SX" stern drive units powered by Ford and GM 4-cylinder, V6 and V8 engines. Includes carburettor and fuel injected engines.
Volvo Stern Drive	
SEL 18-03600	1968-1991 Covers all Single (SP) and Duo Prop (DP) models powered by Ford, GM or Volvo 4-cylinder, V6 and V8 engines
SEL 18-03602	1992-1993 Covers all Single (SP) and Duo Prop (DP) models powered by Volvo 4 cylinder engines
SEL 18-03606	1992-2003 Covers all Gas engine models powered by Ford and GM and includes all drive systems.
SEL 18-03608	2003-2012 all gasoline engine models and sterndrives
Jet Drives and PWC	
SEL 18-09200	Kawasaki 1973-91 Covers all 300 to 650 Series personal watercraft
SEL 18-09202	Kawasaki 1992-97 Covers all 550 to 1100 Series personal watercraft
SEL 18-09600	Yamaha 1987-91 Covers all models of Yamaha personal watercraft
SEL 18-09400	Polaris 1992 -97 Covers all 650 to 1050 Series personal watercraft, including the Hurricane and all Fuji or Polaris powered models
SEL 18-09606	Yamaha 4-stroke 02-2011

Western Pacific Trading Fibreglass Muffler Tape

- Constructed from continuous filament glass fibre yarns
- Temperature limit of 750°F.
- Comes with 10' of stainless steel locking wire



WPT 20015	1/8" x 2" x 25'
WPT 20017	1/16" x 3" x 25'
WPT 20028	1/8" x 3" x 25'

Same high quality tape as above but with a foil back to increase the temperature rating to 950°F.

WPT 20026	1/16" x 3" x 25'

Western Pacific Foilback Thermofab Wrap



- Hotshield fibreglass muffler/manifold wrap
- Includes a 10' roll of stainless locking wire
- Continuous operation to 950ºF
- Sold in rolls

WPT 20009	1/8" x 2" x 100'
WPT 20010	1/16" x 3" x 100'

Robco Thermofab Tape



Thermofab Tape is a high performance alternative to asbestos in virtually all hot-work and insulation/ energy conservation applications. Constructed from continuous filament glass fibre yarn.

- Continuous operation from sub-zero temperatures to 538ºC (1000º F)
- Non-flammable - will not burn or smoulder
- Resists organic solvents and most acids and alkalies
- Soft and flexible
- Will not support mold or mildew
- Non-health hazardous

ROB 1/16X2"-GW150	1/16" x 2", sold per foot
ROB 1/16X3"-GW150	1/16" x 3", sold per foot
ROB 1/8X2"-GW300	1/8" x 2", sold per foot
ROB 1/8X3"-GW300	1/8" x 3", sold per foot
ROB TAPGW150200	1/16" x 2", 100' reel
ROB TAPGW150300	1/16" x 3", 100' reel
ROB TAPGW300200	1/8" x 2", 100' reel
ROB TAPGW300300	1/8" x 3", 100' reel

► Note *Installation: Secure with wire or plastic strap. Do not use coatings over Thermofab as they will severely affect performance and can contribute to fire hazard. Sold in 100' rolls.*

Robco Thermofab Rope Lagging



Thermofab is a proven, high performance, high temperature alternative to asbestos.

- Continuous operation to 1000ºF
- Non-health hazardous
- Sold in rolls

ROB ROP078F050	1/2" x 100'
ROB ROP078F075	3/4" x 100'
ROB ROP078F100	1" x 100'

Western Pacific Trading Flax Packing

- Standard replacement product for stuffing boxes
- Braided roving impregnated with lubricant
- Sold clam packed in 2 foot lengths or bulk in 1, 5, & 10 lb boxes
- Temp. limit: 266F°, PSI limit: 150, FPM limit: 1900



Packaged

WPT 10001	2' x 1/8"
WPT 10002	2' x 3/16"
WPT 10003	2' x 1/4"
WPT 10004	2' x 5/16"
WPT 10005	2' x 3/8"
WPT 10006	2' x 7/16"
WPT 10007	2' x 1/2"
WPT 10008	2' x 5/8"



Bulk

WPT 10050	1 lb x 1/8" (103.4')
WPT 10051	1 lb x 3/16" (37.2')
WPT 10052	1 lb x 1/4" (25.9')
WPT 10053	1 lb x 5/16" (14.5')
WPT 10054	1 lb x 3/8" (9.3')
WPT 10055	1 lb x 7/16" (7.7')
WPT 10056	1 lb x 1/2" (6.5')
WPT 10057	1 lb x 5/8" (3.6')
WPT 10070	5 lb x 1/4" (129.3')
WPT 10071	5 lb x 5/16" (72.7')
WPT 10072	5 lb x 3/8" (46.5')
WPT 10073	5 lb x 7/16" (38.5')
WPT 10074	5 lb x 1/2" (32.3')
WPT 10075	5 lb x 5/8" (18.2')
WPT 10076	5 lb x 3/4" (11.6')
WPT 10090	10 lb x 9/16" (47.5')
WPT 10084	10 lb x 3/4" (23.2')
WPT 10085	10 lb x 7/8" (19.2')
WPT 10086	10 lb x 1" (14.9')
WPT 10087	10 lb x 1-1/8" (11.9')
WPT 10088	10 lb x 1-1/4" (9.1')

Western Pacific Trading Synthetic Flax Packing

- Braided synthetic yarn impregnated with Teflon lubricant
- Sold clam packed in 2 foot lengths or bulk in 1lb boxes
- Temp. limit: 536F°, PSI limit: 500, FPM limit: 1900

Packaged

WPT 10030	2' x 1/8"
WPT 10031	2' x 3/16"
WPT 10032	2' x 1/4"
WPT 10033	2' x 5/16"
WPT 10034	2' x 3/8"
WPT 10035	2' x 7/16"
WPT 10036	2' x 1/2"
WPT 10037	2' x 5/8"



Bulk

WPT 10120	1 lb x 1/8" (94.5')
WPT 10121	1 lb x 3/16" (34')
WPT 10122	1 lb x 1/4" (23.6')
WPT 10123	1 lb x 5/16" (13.3')
WPT 10124	1 lb x 3/8" (8.5')
WPT 10125	1 lb x 7/16" (7')
WPT 10126 *	1 lb x 1/2" (5.9')
WPT 10127 *	1 lb x 5/8" (4.3')

* Special Order

Western Pacific Trading Teflon PTFE Flax Packing

- Braided roving impregnated with Teflon lubricant
- Sold clam packed in 2 foot lengths or bulk in 1lb boxes
- Temp. limit: 266F°, PSI limit: 160, FPM limit: 1900

Packaged

WPT 10015	2' x 1/8"
WPT 10016	2' x 3/16"
WPT 10017	2' x 1/4"
WPT 10018	2' x 5/16"
WPT 10019	2' x 3/8"
WPT 10020	2' x 7/16"
WPT 10021	2' x 1/2"
WPT 10022	2' x 5/8"



Bulk

WPT 10100	1 lb x 1/8" (122.6')
WPT 10101	1 lb x 3/16" (44.1')
WPT 10102	1 lb x 1/4" (30.6')
WPT 10103	1 lb x 5/16" (17.2')
WPT 10104	1 lb x 3/8" (11')
WPT 10105	1 lb x 7/16" (9.1')
WPT 10106	1 lb x 1/2" (7.7')
WPT 10107	1 lb x 5/8" (4.5')

Western Pacific Trading Graphtex Ultra GTU

- A blend of W.L. Gore fibres and graphite fibres that are impregnated with PTFE
- This combination of fibres produces a packing that is thermal conductive, strong and very durable
- This packing will help to dissipate heat away from the stuffing box

WPT 10240	2' x 1/8"
WPT 10241	2' x 3/16"
WPT 10242	2' x 1/4"
WPT 10243	2' x 5/16"
WPT 10244	2' x 3/8"
WPT 10245	2' x 7/16"
WPT 10246	2' x 1/2"
WPT 10247	2' x 5/8"



Western Pacific Trading SYNTEF Shaft Lubricant

Use SYNTEF packing lubricant when replacing shaft packing for reduced friction, added performance and increased packing life.

WPT 10150



Western Pacific Trading Packing Kit

Kit will pack up to a 1-1/4" (32mm) diameter shaft.

- Eliminates frequent haulouts
- Outlasts conventional packing
- No water needed to operate
- One size fits most shafts
- Increases performance
- Reduces friction

***NOTE - The proper installation of this kit requires a package of conventional square braid shaft packing of the proper size for your stuffing box. That packing is not included in this kit.**

WPT 10146



Western Pacific Trading Packing Extractors

Packing extractor tool has a flexible shaft and replaceable tips. Retail packaged.

WPT 10159	#0 tool, 7"
WPT 10160	#1 tool, 7.75"
WPT 10161	#2 tool, 11.5"
WPT 10162	#3 tool, 15.5"



Osborne Flexible Packing Hooks

Part #	Length O.A.	Tip Dia.
OSE 1204-1	6-1/4"	1/4"
OSE 1204-2	10-5/8"	5/16"
OSE 1204-3	15"	3/8"



TIDESMARINE

innovative products for the marine industry

SureSeal™

Self-Aligning Shaft Seals

shaft seal systems for most inboard engine systems.





Install a spare seal carrier kit with your new SureSeal™ which allows you to replace your lip seal while in the water, without hauling out your vessel.



seriesOne™

Self-Aligning Shaft Seals

shaft seal for more confined spaces where engin vibration may be a concern.



Rudder Bearing & Sealing Systems

rudder bearings, lip seals, and collars inboard engine systems.







TIDESMARINE

Ask us for crossover kits for all twin engine applications.



Tides Marine SureSeal Shaft Seals

Key Features of the SureSeal include:
- ABS and Lloyds Type Approval
- Minimal scheduled maintenance
- Replaceable Lip Seal while in the water (with spare seal carrier installed).
- No Winterization is necessary but winterization fluids will NOT harm the SureSeal
- Easy to install

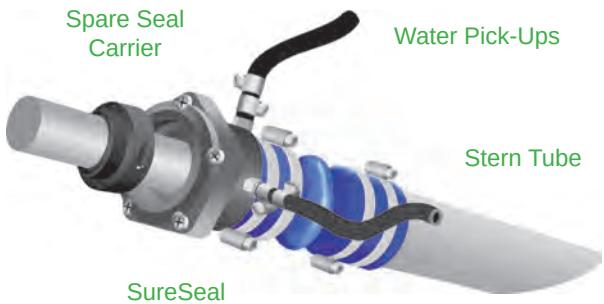
HOUSING
Made from fiber-reinforced composite material, the housing is strong, durable and compact. The SureSeal is dimensionally unaffected by temperature and will not absorb water.

BEARING
The integral PTFE bearing extends the operating life of the SureSeal under normal operating conditions.

HOSE
Connecting the SureSeal to the vessel is now easier with an "articulating hose". This hose design automatically positions the SureSeal the correct operating distance from the stern tube. No measurements are required - installation is simplified. The articulating hose reduces side loads to the SureSeal when shaft misalignment occurs. As a result, lip seal and bearing life are extended.

LIP SEAL REPLACEMENT
The SureSeal design incorporates a removable front cap which improves access to the lip seal. A worn lip seal can be replaced, even while the vessel is in the water, restoring the "100% watertight" characteristic of the SureSeal.

INJECTION FITTING
The SureSeal water injection fitting is made from 316 stainless steel. Depending on the propeller shaft size, it comes in 3/8 or 1/2 inch sizes. A plastic cap is provided with each fitting so that if the injection hose has to be removed, the cap will restrict water flow into the vessel.
- Continuous operation from sub-zero temperatures to 538°C (1000° F)
- Non-flammable - will not burn or smoulder
- Resists organic solvents and most acids and alkalies
- Soft and flexible
- Will not support mold or mildew



All shaft seal kits include a SureSeal, articulating hose with hose clamps and a red installation hat



Tides Marine SureSeal Shaft Seal Kits

Single Water Injection Port

- Includes ShaftSeal, articulating hose, red installation hat and hose clamps
- Shaft x stern tube

TID FSK-1000-1750-0	1" x 1-3/4"
TID FSK-1250-2000-0 *	1-1/4" x 2"
TID FSK-1250-2625-0 *	1-1/4" x 2-5/8"
TID FSK-1500-2500-0	1-1/2" x 2-1/2"
TID FSK-1500-2625-0	1-1/2" x 2-5/8"
TID FSK-1500-2750-0 *	1-1/2" x 2-3/4"
TID FSK-1750-2500-0 *	1-3/4" X 2-1/2"
TID FSK-1750-2750-0 *	1-3/4" x 2-3/4"
TID FSK-1750-3000-0	1-3/4" x 3"
TID FSK-1750-3500-0	1-3/4" x 3-1/2"
TID FSK-2000-3000-0	2" x 3"
TID FSK-2000-3500-0 *	2" x 3-1/2"
TID FSK-2250-4000-0 *	2-1/4" x 4"
TID FSK-2500-4000-0 *	2-1/2" x 4"

* Special Order - may have stock

Tides Marine SureSeal Shaft Seal Kits

Twin Water Injection Ports

- Includes ShaftSeal, articulating hose, red installation hat and hose clamps
- Shaft x stern tube



TID FSK-1250-2000-1	1-1/4" x 2"
TID FSK-1250-2250-1	1-1/4" x 2-1/4"
TID FSK-1250-2500-1 *	1-1/4" x 2-1/2"
TID FSK-1250-3000-1 *	1-1/4" x 3"
TID FSK-1375-2250-1 *	1-3/8" x 2-1/4"
TID FSK-1375-2500-1	1-3/8" x 2-1/2"
TID FSK-1500-2500-1	1-1/2" x 2-1/2"
TID FSK-1500-2625-1	1-1/2" x 2-5/8"
TID FSK-1500-2750-1 *	1-1/2" x 2-3/4"
TID FSK-1500-3000-1	1-1/2" x 3"
TID FSK-1750-2500-1 *	1-3/4" x 2-1/2"
TID FSK-1750-3000-1	1-3/4" x 3"
TID FSK-1750-3500-1	1-3/4" x 3-1/2"
TID FSK-2000-3000-1	2" x 3"
TID FSK-2000-3500-1	2" x 3-1/2"
TID FSK-2250-3000-1 *	2-1/4" x 3"
TID FSK-2250-3500-1	2-1/4" x 3-1/2"
TID FSK-2250-4000-1	2-1/4" x 4"
TID FSK-2500-3500-1	2-1/2" x 3-1/2"
TID FSK-2000-4000-1 *	2" x 4"
TID FSK-2500-4000-1	2-1/2" x 4"
TID FSK-2750-4000-1	2-3/4" x 4"
TID FSK-2750-4500-1	2-3/4" x 4-1/2"
TID FSK-3000-4500-1	3" x 4-1/2"
TID FSK-3000-5000-1	3" x 5"
TID FSK-3500-5000-1	3-1/2" x 5"

TID FSKM-50M-76M-1 *	50mm x 76mm
TID FSKM-60M-102M-1	60mm x 102mm
TID FSKM-75M-114M-1	75mm x 114mm
TID FSKM-90M-127M-1 *	90mm x 127mm

* Special Order - may have stock

Tides Marine Shaft Lip Seals



Nitrile Lip Seals are specifically designed for each type of sealing application. They are the only seals which are covered by the Tides Warranty. The outer shell is made of an Aramid fiber composite which is integrally molded to a rubber hinge and a nitrile lip edge. A 316-stainless steel garter spring is incorporated to distribute loads uniformly over the propeller shaft or rudder stock.

- Includes red installation hat

For SureSeal models ONLY. Sold after the year 2000

TID LIP-SEAL-F1000	1" (9520)
TID LIP-SEAL-F1250	1-1/4" (5729)
TID LIP-SEAL-F1375	1-3/8" (3740)
TID LIP-SEAL-F2000	2" (9043)
TID LIP-SEAL-F2250	2-1/4" (10432)
TID LIP-SEAL-F2500	2-1/2" (10121)
TID LIP-SEAL-F2750	2-3/4" (11894)



SureSeal

For StrongSeal models ONLY. Sold prior to the year 2000

TID LIP-SEAL-1250	1-1/4" (5728)
TID LIP-SEAL-1500	1-1/2" (9041)
TID LIP-SEAL-1750	1-3/4" (15557)
TID LIP-SEAL-2000	2" (11551)
TID LIP-SEAL-2250	2-1/4" (10418)
TID LIP-SEAL-2500	2-1/2" (8497)
TID LIP-SEAL-2750	2-3/4" (9732)
TID LIP-SEAL-3000	3" (9045)
TID LIP-SEAL-3500	3-1/2" (11197)
TID LIP-SEAL-4000	4" (7199)



StrongSeal

Metric

TID LIP-SEAL-60MM	60mm (9319), SureSeal, StrongSeal
TID LIP-SEAL-F75MM	75mm (15174), SureSeal

Tides Marine Water Pick-Up Kits



Includes everything needed to connect SureSeals to a point in the engine's raw water cooling system. This water is necessary for proper lubrication of the lip seal and PTFE bearing in the SureSeal housing.

- Includes hose T connector, 8' Type B hose and hose clamps

TID TK-1000-3/8-.218	3/8" barb x 1" hose tee
TID TK-1250-3/8-.218	3/8" barb x 1-1/4" hose tee
TID TK-1500-3/8-.218	3/8" barb x 1-1/2" hose tee
TID TK-1750-3/8-.218	3/8" barb x 1-3/4" hose tee
TID TK-2000-3/8-.218 *	3/8" barb x 2" hose tee

* Special Order

Tides Marine Spare Seal Carriers



The spare lip seal carrier is a lightweight, two-piece composite housing which is clamped over the spare lip seals and onto the propeller shaft between the SureSeal and the propeller shaft coupling.

- For 1" to 1-3/4" shaft sizes
- Includes one lip seal, one single carrier and one installation hat



TID KF-1000-00	1"
TID KF-1125-00	1-1/8"
TID KF-1250-00	1-1/4"
TID KF-1375-00	1-3/8"
TID K-1500-00	1-1/2"
TID K-1750-00	1-3/4"

- For 2" to 3" shaft sizes
- Includes two lip seals, two single carriers and two installation hats



TID KF-2000-01	2"
TID KF-2250-00	2-1/4"
TID KF-2500-00	2-1/2"
TID KF-2750-00	2-3/4"
TID K-3000-00	3"

- For 3-1/4" and greater shaft sizes
- Includes two lip seals, one double carrier and one installation hat



TID K-3500-00	3-1/2"

- Metric
- Includes two lip seals, one protective cover, and one installation hat

TID KM60MM-00	60mm
TID KFM-75MM-00	75mm

Tides Marine Silicone Hose



- High grade silicone water injection hose
- 250' - sold by the foot

TID INJHOSE-0375	3/8"
TID INJHOSE-0500	1/2"

Tides Marine Clamps



- 316-stainless steel hose clamps won't mar or tear the hose surface
- They require less force to tighten and adjust to variations in the hose diameter caused by changes in temperature and pressure
- The standard band width is 1/2"
- The entire clamp (band, screw, and housing) is manufactured from 316-stainless steel

TID CLAMP-0375	For 3/8" ID hose
TID CLAMP-0500	For 1/2" ID hose

Tides Marine
Low Profile Upper Rudder Bearings



Designed to be installed on vessels where the steering system components need to be located as close to the rudder shelf as possible.
ABS and Lloyds-approved, self-aligning design which accommodates up to 10 degrees of off-axis alignment between the mounting surface (rudder shelf) and the rudder stock. As a result, it requires no shimming during installation and will not load up the rudder shaft during vessel operation.

- Listed by rudder stock diameter

TID URB-LP-1500-00	1-1/2"
TID URB-LP-1750-00 *	1-3/4"
TID URB-LP-2000-00	2"
TID URB-LP-2250-00	2-1/4"
TID URB-LP-2500-00	2-1/2"
TID URB-LP-3000-00 *	3"

* Special Order

Tides Marine
Type D Rudder Bearings



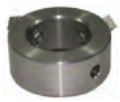
The Type-D rudder port is an integrated approach to rudder port installation. It is for boats constructed of FRP. It can be used for new boat construction and is also easy to use as a retrofit for replacing other types of conventional rudder ports. No tooling is required.
The Type-D is a sealed bearing consisting of a UHMW housing with a nitrile rubber lip seal. It eliminates metal-to-metal abrasion and electrolytic corrosion.

- Listed by rudder stock diameter

TID RPBH-D-1250-00 *	1-1/4"
TID RPBH-D-1500-00	1-1/2"
TID RPBH-D-2000-00	2"
TID RPBH-D-2250-00 *	2-1/4"
TID RPBH-D-2500-00	2-1/2"

* Special Order

Tides Marine
Rudder Collars



Rudder Collars are for use on power boats. Machined from 304 stainless steel, each unit comes with two threaded locking screws. A third "indexed hole" (which is not threaded) is machined into each Rudder Collar and may be used as a guide to drill "dimples" in the rudder stock.

TID RUD-COLLAR-1750 *	1-3/4" ID x 2-3/4" OD
TID RUD-COLLAR-2000	2" ID x 3" OD

* Special Order

Tides Marine
Nitrile Rudder Lip Seals



Nitrile Lip Seals are specifically designed for each type of sealing application. They are the only seals which are covered by the Tides Warranty. The outer shell is made of an Aramid fiber composite which is integrally molded to a rubber hinge and a nitrile lip edge. A 316-stainless steel garter spring is incorporated to distribute loads uniformly over the propeller shaft or rudder stock.

- Includes red installation cap
- Listed by rudder stock diameter

TID LIP-SEAL-R2000	2" (14783)
TID LIP-SEAL-R2250	2-1/4" (17307)
TID LIP-SEAL-R2500	2-1/2" (11814)
TID LIP-SEAL-R2750	2-3/4" (11023)
TID LIP-SEAL-R3000	3" (10901)
TID LIP-SEAL-R3500	3-1/2" (10914)
TID LIP-SEAL-R4000	4" (10900)
TID LIP-SEAL-R4500	4-1/2" (12269)

Tides Marine
Spare Rudder Seal Carriers

The spare lip seal carrier is a lightweight, two-piece composite housing which is clamped over the spare lip seals and onto the rudder shaft between the SureSeal and the propeller shaft coupling.

- Includes two lip seals, one double carrier and one installation hat
- Listed by rudder stock diameter



TID KR-3500-00	3-1/2"
TID KR-4000-00 *	4"

* Special Order

R.E. Thomas Marine Hardware
Piranha Dual Line Cutters

NEW



The Piranha dual line cutters offer superior cutting performance and help protect your boat's propeller and running gear from catastrophic failure due to entanglement in marine debris.

- Disc style line cutters with dual-serrated edges for twice the cutting surface area of conventional line cutters, providing redundancy and prolonged life span
- Split design allows for easy installation in or out of the water

Part #	Shaft size	Cutter Dia.	Cutter Width
RET PDLC-1250	1-1/4"	3-1/2"	3/4"
RET PDLC-1500	1-1/2"	4-1/2"	7/8"
RET PDLC-1750	1-3/4"	4-3/4"	1"
RET PDLC-2000	2"	5"	1"
RET PDLC-2250	2-1/4"	6-1/4"	1-1/8"
RET PDLC-2500	2-1/2"	6-3/4"	1-1/8"
RET PDLC-3000	3"	8"	1-1/4"

Note: "Standard Sizing" noted - diameter and width measurements can vary depending on the boat's propeller based on forward hub diameter.

PSS Type A Shaft Seals

The Type A PSS Shaft Seal is a mechanical face seal. The sealing surface is created between the flat surfaces of the rotating stainless-steel rotor and the stationary carbon flange. The stationary carbon flange is attached to the front side of the bellow with hose clamps, and the back end of the bellow fits over the Stern tube and is secured with hose clamps. The stainless-steel rotor is fit on the shaft in front of the carbon flange. The stainless-steel rotor is used to compress the bellow before the rotor is secured to the shaft with set-screws. This compression (pre-load) maintains constant contact between the two flat faces of the stainless-steel rotor and carbon flange, allowing the PSS to compensate for the variable fore and aft movement due to propeller thrust. The carbon flange is over-bored to the shaft diameter allowing it to "float" around the shaft and thus compensate for most misalignment and vibration problems. The stainless-steel rotor is sealed to the shaft by two O-rings that are recessed into the bore of the collar. These O-rings rotate with the shaft and stainless-steel rotor and do not experience wear during operation.

- Temperature Limits: 5°F to 225°F (-15°C to 107°C)
- Pressure Limits: 15 PSI (1 BAR)
- Shaft RPM Limits: 10,000 RPM
- Carbon Graphite: Lapped to 4 HLB (0.000044" tolerance)
- 316SS / Nitronic 50: Faced to 9 Ra
- Bellow Material: Molded Nitrile - PVC

HOW DOES IT WORK?



1. Two nitrile o-rings seal the stainless steel rotor to the shaft and will not experience wear.
2. A primary set screw and a backup set screw (2 sets) are used to secure the stainless steel rotor to the shaft.
3. A seal is created between the two flat surfaces of the carbon stator and the stainless steel rotor.
4. Water is fed into the PSS Shaft Seal for cooling/lubricating the seal faces on high speed vessels.
5. The stationary carbon stator is attached to the nitrile bellow, which is attached to the stern tube (shaft log).

COMPONENTS

Rotor



The PSS 316L stainless steel rotor is slid down the shaft and is secured to the shaft with set screws at 90° for maximum holding power. Precision tolerances are maintained by computer controlled lathes. The faces have a number 9 micro finish and are perpendicular to the bore to prevent run-out as the collar rotates. The carbon graphite stator will polish the face of the rotor during the first few minutes of operation. The stainless steel rotor should not need to be replaced under normal operating conditions.

Bellow



The PSS Type A Shaft Seal bellow is made from rubber (Nitrile), and has a temperature rating of -25°F to +225°F (-31°C to +107°C). Nitrile is known for its resistance to weathering. Nitrile rubber is exceptionally resistant to oils and non-polar solvents. It also offers good gas impermeability, abrasion resistance, and better thermal stability than most general purpose elastomers.

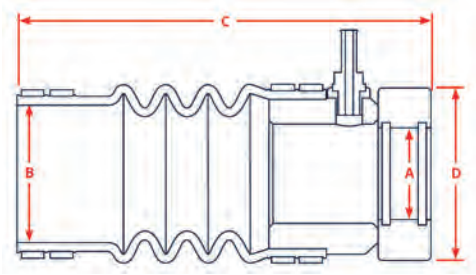
Carbon Stator



The high density, resin impregnated carbon/graphite stator is a composite that is first mixed, molded and then formed under pressure. The blanks are then baked, machined and lapped. The face of our carbon is finished to a flatness of 4 helium light bands (measured .000044" of variation over entire lapped surface). The grade of carbon used in the PSS has an operating temperature over 500° Fahrenheit (+260° Celsius), and cannot melt if the seal runs dry, unlike a rubber lip seal or plastic face seal. The high density of the carbon greatly increases the longevity and wear resistance. The carbon should not need to be replaced under normal operating conditions.

PSS Type A Shaft Seals

Shaft Seal Part #	**A** (shaft) **x B** (tube) **C** (uncompressed length) **x D** (dia.)	O-Ring Kit	Maintenance Kit
PSS 02-100-112	1" x 1-1/2" to 1-5/8" 6.875" x 2.375"	PSS 07-N10-0	PSS 07-100-112R
PSS 02-100-134	1" x 1-3/4" to 1-7/8" 6.75" x 2.375"	PSS 07-N10-0	PSS 07-100-134R *
PSS 02-100-200	1" x 2" to 2-1/8" 6.875" x 2.375"	PSS 07-N10-0	PSS 07-100-200R
PSS 02-118-112	1-1/8" x 1-5/8" to 1-3/8" 6.875" x 2.375"	PSS 07-N11-8	PSS 07-118-112R
PSS 02-118-200	1-1/8" x 2" to 2-1/8" 6.875" x 2.375"	PSS 07-N11-8	PSS 07-118-200R
PSS 02-114-134	1-1/4" x 1-3/4" to 1-7/8" 7.5" x 2.875"	PSS 07-N11-4	PSS 07-114-134R
PSS 02-114-214	1-1/4" x 2-1/4" to 2-3/8" 7.5" x 2.875"	PSS 07-N11-4	PSS 07-114-214R
PSS 02-138-134	1-3/8" x 1-3/4" to 1-7/8" 7.5" x 2.875"	PSS 07-N13-8	PSS 07-138-134R
PSS 02-138-200	1-3/8" x 2" to 2-1/8" 7.375" x 2.875"	PSS 07-N13-8	PSS 07-138-200R *
PSS 02-138-214	1-3/8" x 2-1/4" to 2-3/8" 7.5" x 2.875"	PSS 07-N13-8	PSS 07-138-214R
PSS 02-112-214	1-1/2" x 2-1/4" to 2-3/8" 9.155" x 3.75"	PSS 07-N11-2	PSS 07-112-214R
PSS 02-112-212	1-1/2" x 2-1/2" to 2-5/8" 9.03" x 3.75"	PSS 07-N11-2	PSS 07-112-212R *
PSS 02-112-234	1-1/2" x 2-3/4" to 2-7/8" 9.2175" x 3.75"	PSS 07-N11-2	PSS 07-112-234R
PSS 02-112-314	1-1/2" x 3-1/4" to 3-3/8" 9.2175" x 3.75"	PSS 07-N11-2	PSS 07-112-314R
PSS 02-134-234	1-3/4" x 2-3/4" to 2-7/8" 9.2175" x 3.75"	PSS 07-N13-4	PSS 07-134-234R
PSS 02-134-314	1-3/4" x 3-1/4" to 3-3/8" 9.2175" x 3.75"	PSS 07-N13-4	PSS 07-134-314R
PSS 02-200-234	2" x 2-3/4" to 2-7/8" 9.2175" x 3.75"	PSS 07-N20-0	PSS 07-200-234R
PSS 02-200-300	2" x 3" to 3-1/8" 9.03" x 3.75"	PSS 07-N20-0	PSS 07-200-300R *
PSS 02-200-314	2" x 3-1/4" to 3-3/8" 9.2175" x 3.75"	PSS 07-N20-0	PSS 07-200-314R
PSS 02-200-312	2" x 3-1/2" to 3-5/8" 9.03" x 3.75"	PSS 07-N20-0	PSS 07-200-312R *
PSS 02-214-314	2-1/4" x 3-1/4" to 3-3/8" 9.8125" x 4.2"	PSS 07-N21-4	PSS 07-214-314R *
PSS 02-214-312	2-1/4" x 3-1/2" to 3-5/8" 9.625" x 4.2"	PSS 07-N21-4	PSS 07-214-312R *
PSS 02-214-334	2-1/4" x 3-3/4" to 3-7/8" 9.625" x 4.2"	PSS 07-N21-4	PSS 07-214-334R *
PSS 02-214-400	2-1/4" x 4" to 4-1/8" 9.625" x 4.2"	PSS 07-N21-4	PSS 07-214-400R *
PSS 02-212-312	2-1/2" x 3-1/2" to 3-5/8" 9.625" x 4.2"	PSS 07-N21-2	PSS 07-212-312R
PSS 02-212-334	2-1/2" x 3-3/4" to 3-7/8" 9.625" x 4.2"	PSS 07-N21-2	PSS 07-212-334R
PSS 02-212-400	2-1/2" x 4" to 4-1/8" 9.625" x 4.2"	PSS 07-N21-2	PSS 07-212-400R
PSS 02-300-414	3" x 4-1/4" to 4-3/8" 10.3125" x 5.0"	PSS 07-N30-0	PSS 07-300-414R
PSS 02-300-434	3" x 4-3/4" to 4-7/8" 10.3125" x 5.0"	PSS 07-N30-0	PSS 07-300-434R
PSS 02-312-500 *	3-1/2" x 5" to 5-1/8" 10.8625" x 6.0"	PSS 07-N31-2 *	PSS 07-312-500R *
PSS 02-30M-112	30mm x 1-1/2" to 1-5/8" 6.875" x 2.375"	PSS 07-N30-M	PSS 07-30M-112R*
PSS 02-30M-200	30mm x 2" to 2-1/8" 6.875" x 2.375"	PSS 07-N30-M	PSS 07-30M-200R*





PSS Maintenance Kits

As with any rubber hose below waterline, the PSS bellows must be inspected on a regular basis for any sign of wear, aging or chemical deterioration. PYI suggests preventative maintenance. The PSS bellow should be replaced in six year intervals. During bellows replacement it is recommended the o-rings & set screws in the stainless steel rotor also be replaced.
Bellows may need to be more frequently inspected in an environment where non-sealed batteries emit sulfuric acid. Sulfuric acid vapor will accelerate rubber deterioration, as will an ozonater.

Includes:
- 1 Bellow
- 2 O-rings
- 5 Set screws
- 4 Hose clamps
- 1 Tube of thread lock
- 1 Allen key



PSS O-Ring Kit

Over time you may find that you need to replace the o-rings inside the stainless steel rotor of your PSS Shaft Seal. This kit comes with everything you need to get the job done.

Includes:
- Allen wrench
- Set screws x5
- O-rings x2
- Clamp Jackets x4
- Thread lock



Set Screws Tip

Please be sure to never use the same set screw on the shaft twice. There are two set screws in each of the two holes in the stainless steel rotor. One is tightened onto the shaft and the other is tightened onto the first to lock it in place against the shaft. The set screws are made with a cup at the base that compresses into the shaft ensuring a secure grip. When re-installing the rotor please use new set screws. In the case that you do not have spare set screws, the set screws in the rotor need to be reversed so there is an unused cup being compressed onto the shaft.

* Special Order

PSS Hy-Vent

NEW



- For sailboats and other low-speed watercraft
- Nickel-plated brass vent
- Float-style valve allows air out while restricting water flow in
- 3/8" hose barb, stainless steel hose clamps, and clamp jackets included

PSS 07-HYV-ENTKIT

PSS Sight Flow Indicator

NEW



- Allows quick confirmation of positive water flow running to the seal through the line when installed in-line
- 3/8" hose barbs, stainless steel hose clamps, and clamp jackets included

PSS 07-SFI-KIT

PSS Shaft Retention Collars

NEW



- Designed to help retain the propeller or rudder shaft in your vessel in the event of catastrophic failure of the coupling, or if the shaft comes free from the coupling
- Includes stainless steel clamp and (2) 3/8"-24 bolts

Part #212	Shaft Dia	OD	Collar Width
PSS 07-SRC-100	1"	1-3/4"	1/2"
PSS 07-SRC-118	1-1/8"	1-7/8"	1/2"
PSS 07-SRC-114	1-1/4"	2-1/16"	1/2"
PSS 07-SRC-138	1-3/8"	2-1/4"	9/16"
PSS 07-SRC-112	1-1/2"	2-3/8"	9/16"
PSS 07-SRC-134	1-3/4"	2-3/4"	11/16"
PSS 07-SRC-200	2"	3"	11/16"
PSS 07-SRC-214	2-1/4"	3-1/4"	3/4"
PSS 07-SRC-212	2-1/2"	3-3/4"	3/4"
PSS 07-SRC-234	2-3/4"	4"	7/8"
PSS 07-SRC-300	3"	4-1/4"	7/8"

Buck Algonquin Rudder Port



- Bronze
- Inside mount; rectangular flange
- Complete with packing and lock nuts
- Shaft size: 1-3/4", Packing size: 7/16"
- Length under flange: 5"
- Flange size: L: 7-1/8" x W: 4-1/8"
- Bolthole C to C: 2-1/2" x 5-1/2"; Bolt Size: 1/2"

BUC 00RP175 *

* Special Order - may have stock

Marine Hardware Nut Style Stuffing Boxes



This stuffing box is cast red brass with precision-machined threads. Unit comes complete with packing nut, jam nut and braided flax packing.

Part #	Shaft Dia.	Fits Hose
MHI SPNS1.00B1.62	1"	1-5/8"
MHI SPNS1.25B2.25	1-1/4"	2-1/4"
MHI SPNS1.50B2.50	1-1/2"	2-1/2"

Lasdrop GEN II Shaft Seals



The GenII uses a 316 SS spring to provide pressure to the seal surfaces. Together, the spring and seal ring rotate along with the shaft, and remain secured in the Clamp/Pressure housing. Dual U-Cup seals, which also rotate with the shaft, are seated in the inside of the seal ring. Because there is no metal to metal contact, the risk of electrolysis is eliminated. The friction ring assembly is mounted with a rigid connection hose and uses a carbon graphite sealing surface, all which is incased by a durable copolymer housing. A cutlass bearing insures proper alignment to the shaft.

LAS G114-212 ** 1-1/4" shaft x 2-1/2"
LAS G114-258 ** 1-1/4" shaft x 2-5/8"
LAS G114-234 ** 1-1/4" shaft x 2-3/4"
LAS G138-212 ** 1-3/8" shaft x 2-1/2"
LAS G112-234 ** 1-1/2" shaft x 2-3/4"
LAS G134-3 ** 1-3/4" shaft x 3"

Parts:

LAS GSK-112 ** 1-1/2" Seal kit
LAS GSK-114 ** 1-1/4" Seal kit
LAS GSK-214 ** 2-1/4" Seal kit

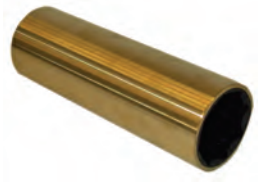
** While Stock Lasts

Buck Algonquin



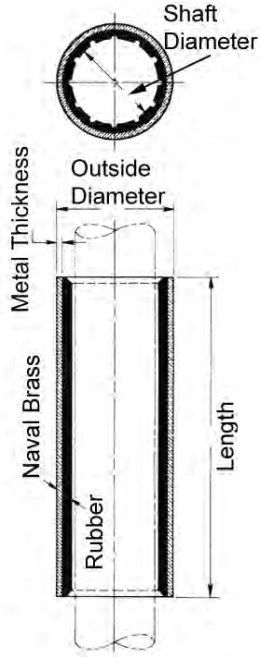
Heavy duty, multi-ply marine hose is designed for self-aligning packing boxes.

Part #	ID	OD	Length
BUC 80HO150	1-1/2"	2-1/4"	4"
BUC 80HO15012	1-1/2"	2-1/4"	12"
BUC 80HO175	1-3/4"	2-3/8"	4-1/2"
BUC 80HO17512	1-3/4"	2-3/8"	12"
BUC 80HO200	2"	2-3/4"	4"
BUC 80HO20012	2"	2-3/4"	12"
BUC 80HO225	2-1/4"	3"	4-1/2"
BUC 80HO22512	2-1/4"	3"	12"
BUC 80HO2375	2-3/8"	3-1/4"	5"
BUC 80HO237512	2-3/8"	3-1/4"	12"
BUC 80HO250	2-1/2"	3-1/4"	5"
BUC 80HO25012	2-1/2"	3-1/4"	12"



Johnson
Naval Brass Standard Sleeve Rubber Bearings

These bearings feature a tough wear and oil resistant nitrile rubber lining that is permanently adhered to a naval brass shell. The exclusive water wedge design provides maximum lubrication for both bearing and shaft effectively separating the two with a thin film of water. This special design incorporates grooves that easily channel the flow of water effectively lowering the coefficient of friction while preventing heat build up. Outgoing water expels potentially damaging marine contaminates. Sleeve bearings are usually installed by, light-press fitting and locking in place with cone-pointed set screws. The installer should spot the shell to receive the screws.



Part #	Shaft Diameter		Outside Diameter		Length		Metal Thickness	
	inch	mm	inch	mm	inch	mm	inch	mm
JON ABLE	3/4	19.05	1-1/4	31.75	3	76.20	1/8	3.18
JON ACID	7/8	22.23	1-1/4	31.75	3-1/2	88.90	1/16	1.59
JON APEX	7/8	22.23	1-3/8	34.93	3-1/2	88.90	1/8	3.18
JON ATOM	7/8	22.23	1-1/2	38.10	3-1/2	88.90	1/8	3.18
JON BACK	1	25.40	1-1/4	31.75	4	101.60	3/64	1.19
JON BAIT	1	25.40	1-3/8	34.93	4	101.60	1/16	1.59
JON BALE	1	25.40	1-1/2	38.10	4	101.60	1/8	3.18
JON BAND	1	25.40	1-5/8	41.28	4	101.60	1/8	3.18
JON BASE	1	25.40	2	50.80	4	101.60	1/8	3.18
JON BEAM	1-1/8	25.58	1-1/2	38.10	41/2	114.30	1/16	1.59
JON BELT	1-1/8	28.58	1-5/8	41.28	4-1/2	114.30	1/8	3.18
JON BEND	1-1/8	28.58	1-3/4	44.45	4-1/2	114.30	1/8	3.18
JON BILL *	1-1/8	28.58	2	50.80	4-1/2	114.30	1/8	3.18
JON BIND	1-1/4	31.75	1-1/2	38.10	5	127.00	1/16	1.59
JON BIRD	1-1/4	31.75	1-3/4	44.45	5	127.00	1/8	3.18
JON BITE	1-1/4	31.75	2	50.80	5	127.00	1/8	3.18
JON BLOW	1-1/4	31.75	2-1/8	53.98	5	127.00	1/8	3.18
JON BOAT	1-3/8	34.93	1-7/8	47.63	5-1/2	13.70	1/8	3.18
JON BOLD	1-3/8	34.93	2	50.80	5-1/2	139.70	1/8	3.18
JON BOSS	1-1/2	38.10	2	50.80	6	152.40	1/8	3.18
JON BRAD	1-1/2	38.10	2-3/8	60.33	6	152.40	1/8	3.18
JON BROW	1-3/4	44.45	2-3/8	60.33	7	177.80	1/8	3.18
JON BUCK	1-3/4	44.45	2-5/8	66.68	7	177.80	1/8	3.18
JON BULB	1-7/8	47.63	2-5/8	66.68	7-1/2	190.50	1/8	3.18
JON CALL	2	50.80	2-5/8	66.68	8	203.20	1/8	3.18
JON CALM	2	50.80	3	76.20	8	203.20	1/8	3.18
JON CARE	2-1/4	57.15	2-15/16	74.61	9	228.60	3/32	2.38
JON CART	2-1/4	57.15	3-1/8	79.38	9	228.60	1/8	3.18
JON COOK *	2-3/8	60.33	3-3/8	85.73	9-1/2	241.30	1/8	3.18
JON CORD	2-1/2	63.50	3-1/8	79.38	10	254.00	1/8	3.18
JON CORN	2-1/2	63.50	3-3/8	85.73	10	254.00	1/8	3.18
JON DANE	3	76.20	3-3/4	95.25	12	304.80	1/8	3.18
JON DARE	3	76.20	4	101.60	12	304.80	1/8	3.18
JON EARN	4	101.60	5	127.00	16	406.40	3/16	4.76
JON GALE	6	152.40	7-1/2	190.50	24	609.60	1/4	6.35
JON 870454100	-	45	-	65	-	180		3.30

* Special Order



Johnson
Phenolic Shell Rubber Sleeve Bearings

These non-metallic sleeve bearings combine outstanding toughness and corrosion resistance with less weight. The specially compounded Nitrile rubber is securely bonded to the outer shell comprised of a dense structure of engineered reinforced thermoplastic. Recommended for installations where electrolysis is a problem. Johnson Cutless Bearings weigh up to 70% less than a comparable design in brass.

Part #	Shaft Dia.	Outside Dia.	Length	Shell
JON FANNY	1-1/2"	2-3/8"	6"	1/8"
JON GLENDA	1-3/4"	2-3/8"	7"	1/8"
JON GLORIA	1-3/4"	2-5/8"	7"	1/8"
JON HAZEL	2"	2-5/8"	8"	1/8"
JON HELEN	2"	3"	8"	1/8"

Express 3 & 4 Blade Pitch Options

9.9BF-35hp (with 3" Gearcase)

RH 11", 13" pitch

25-75hp (with 3.5" Gearcase)

RH 12", 13", 14" pitch

40-150hp (with 4.25" Gearcase)

RH 11", 13", 15", 17", 19", 21" pitch

LH RH 9",11", 13", 15", 17", 19", 21", 23" pitch

90-300+hp (with 4.75"+ Gearcase)

LH RH 15", 17", 19", 21", 23" pitch

LH RH OS Large Diameter
11", 13",15", 17", 19", 21", 23", 25", 27" pitch

LH RH 13", 15", 17", 19", 21",23" pitch

ADDITIONAL EXPRESS PROPELLER FEATURES

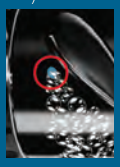
PROPRIETARY STAINLESS STEEL, TP17™

Formulated to meet the exacting requirements of the Express designs. 20% higher chromium content than the competition - more shine, better corrosion resistance. Almost 250% Stronger and 5X more durable than run-of-the-mill stainless steel. This new material allows Turning Point's Engineers and Designers the freedom to produce radical new designs that will help you wring the most performance out of your boat.

VENTED PROPS FOR 40-300+HP ENGINES

(17+ Pitch Props 4.75" & 4.25" Gearcases)

- Vented Barrels for Fast Hole Shot/Low End Acceleration.
- Wake-Boarders & water skiers get up out of the water faster!



LARGE EXHAUST PATHWAYS



- Massive exhaust flow pathways.
- 40% more exhaust flow area vs rubber hub propellers with restrictive exhaust flow path.
- More exhaust flow and less back pressure can generate more horsepower. Like headers for your boat.

PERFORMANCE TUNED RAKE ANGLES

Higher rake angles tighten the vortex produced by the propellers, adding to boat lift and overall performance.

TUNED PROGRESSIVE PITCH ANGLES

Accelerating and channeling water to minimize slip increases performance and fuel economy.





WANT SOMETHING BETTER



TURNING POINT® PROPELLERS

EXPRESS® STAINLESS STEEL PROPELLERS

Something Better Than The OEM Propeller

Industry leading designs & geometry that Run Faster, Pull Harder, and Handle Better.

4 Blades Props with 3 Blade Speed

Unique geometry with unprecedented hole shot, lift, handling, and 3 blade top end.

Precision Premium Built Propellers

State-of-the-art casting and finishing technology from TP's new manufacturing facility.

MASTERGUARD® HUB SYSTEM

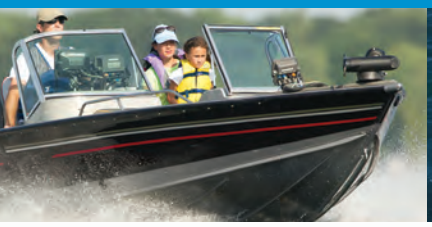




WARRANTY LIFETIME WARRANTY

AVOID BEING STRANDED USE TURNING POINT PROPS. MASTERGUARD® HUB KITS CARRY THE ONLY LIFETIME* WARRANTY IN THE WORLD!

*Lifetime warranty on hubs only, Non-Commercial Use Only - visit: tpprops.com/warranty







THAN THE OEM PROP?



TURNING POINT® PROPELLERS

HUSTLER® ALUMINUM PROPELLERS

Stainless Steel Like Performance

Aluminum Hustler props built better than OEM with stainless steel geometry & designs.

4 Blades Props with 3 Blade Speed

Unique geometry with unprecedented hole shot, lift, handling, and 3 blade top end.

Precision Premium Built Propellers

TP's unique squeeze cast technology has strongest AL blades, no flex or voids.

TURNING POINT® PROPELLERS

GET A FREE DIAMETER & PITCH RECOMMENDATION TODAY

CONTACT TURNING POINT SUPPORT: 904-900-7739, EXT 1 TPPROPS.COM/PROPWIZARD

HUSTLER® ALUMINUM PROPELLERS

EXPRESS® STAINLESS STEEL PROPELLERS

Run FASTER · Pull HARDER · Handle BETTER

6-400+hp • 3 AND 4 BLADE • ALUMINUM AND STAINLESS STEEL • OUTBOARD AND STERNDRIVE PROPS AVAILABLE FOR

Coleman® Evinrude® Honda® Johnson® Mariner® Mercury® MerCruiser® Nissan® OMC® Parsun® Suzuki® Tohatsu® Volvo Penta® Yamaha®

Hustler 3 & 4 Blade Pitch Options

6-20hp (with 2.5" Gearcase)

RH 9", 10" pitch

9.9BF-35hp (with 3" Gearcase)

RH 11", 13" pitch

25-75hp (with 3.5" Gearcase)

RH 12", 13", 14" pitch

40CT-150hp (with 4.25" Gearcase)

RH 11", 13", 15", 17", 19", 21" pitch

LH RH 9", 11", 13", 15", 17", 19", 21", 23" pitch

90CT-300+hp (with 4.75"+ Gearcase)

LH RH 15", 17", 19", 21", 23" pitch

LH RH OS Large Diameter 11", 13", 15", 17", 19", 21", 23", 25", 27" pitch

LH RH 13", 15", 17", 19", 21", 23" pitch

ADDITIONAL HUSTLER PROPELLER FEATURES

INDUSTRY'S ONLY VENTED ALUMINUM PROPELLERS FOR 40CT-300+HP ENGINES

(17+ Pitch Props 4.75" & 4.25" Gearcases)

- Vented Barrels for Fast Hole Shot/Low End Acceleration.
- Wake-Boarders & water skiers get up out of the water faster!

LARGE EXHAUST PATHWAYS



- Massive exhaust flow pathways.
- 40% more exhaust flow area vs rubber hub propellers with restrictive exhaust flow path.
- More exhaust flow and less back pressure can generate more horsepower. Like headers for your boat.

PERFORMANCE TUNED PITCH & RAKE ANGLES

Accelerating and channeling water to minimize slip with more lift increases performance and fuel economy.

PREMIUM ULTRACOAT™ POWDER COAT

Exclusive to Turning Point, this coat rivals a fine automotive finish, and is more durable than paint.



24 Hour Slurry Test: painted prop had 600% More Wear! Competitor's Process

TURNING POINT® PROPELLERS

BETTER THAN THE OEM PROPELLER

*Note: To find the correct installation kit and propeller housing, locate the HP, gearcase size, and prop shaft spline count of your outboard or sterndrive.

6-20hp

ENGINES WITH A 2.5" GEARCASE

MasterGuard® HUB SYSTEM

200 Series Installation Kits

Premium corrosion resistant brass splines.
Eliminate hub system vibration & chatter.
Reduce gear shock & engine/drive damage.
Reduce prop replacement cost by up to 33%.



AN INSTALLATION KIT IS REQUIRED FOR PROPS LISTED TO THE RIGHT

MasterGuard Kits include a Lifetime Warranty

1

Engine Brand - Various Splined Prop Shafts	Part #
EVINRUDE® & JOHNSON®: (13 spline) 2 stroke ('74-'95): 9.9, 15 4 stroke: 8hp ('96+), 9.9hp ('95-'01), 15hp ('95+)	TUR 202
EVINRUDE® & JOHNSON®: (10 spline) 4 stroke ('02+): 9.9, 15hp	TUR 206
HONDA®: (8 spline) BF 4 Stroke: 8hp ('01+) / 9.9, 15, 20hp. Note: Does not fit 8 Classic, pin drive.	TUR 205
MERCURY® & MARINER®: (8 spline, lock nut) 2 stroke: 6hp, 8hp, 9.9hp, 15hp / Sea Pro/Marathon 10hp, 15hp 4 stroke: 8hp, 9.9hp ('95-'04), 15hp ('89-'06)	TUR 201
MERCURY® & MARINER®: (14 spline shaft made by Nissan, cotter pin) 4 stroke Bigfoot / CT ('05+): 8hp, 9.9hp / 4 stroke ('07+): 15hp, 20hp	TUR 207
NISSAN® & TOHATSU®: (14 spline) 2 stroke: 9.9hp ('84-'05), 12hp ('85-'88) / 15 & 18hp ('85-'05) / 4 stroke: 9.9hp, 15hp, 18hp, 20hp	TUR 207
PARSUN®: (8 spline) 9.9hp, 15hp	TUR 205
SUZUKI®: (10 spline TYPE M) DT 2 stroke: 9.9 ('83-'87), 15hp, 15C/ DF 4 stroke: 8A, 9.9, 9.9A, 9.9B, 15 / ('12+): 15A, 20A Note: Does not fit DT 8C & 9.9C ('88-'97)	TUR 206
YAMAHA®: (8 spline) 2 stroke: 9.9, 15 / 4 stroke: 9.9 ('00-'07), 15, 15C, 20hp	TUR 205



AN INSTALLATION KIT IS REQUIRED FOR PROPS LISTED TO THE RIGHT

MasterGuard Kits include a Lifetime Warranty

2

Engine Brand - 12 Spline Prop Shaft	Part #
NISSAN® & TOHATSU®: (12 spline) 2 & 4 stroke: 8hp, 9.8hp	TUR 208
MERCURY® & MARINER®: (12 spline, cotter pin) 4 stroke ('05 & newer): 8hp, 9.9hp	TUR 208

9.9-35hp

ENGINES WITH A 3" GEARCASE

MasterGuard® HUB SYSTEM

20 Series Installation Kits

Premium corrosion resistant brass splines.
Eliminate hub system vibration & chatter.
Reduce gear shock & engine/drive damage.
Reduce prop replacement cost by up to 33%.

Note: Find Additional 3" Gearcase Engines on the next page.



AN INSTALLATION KIT IS REQUIRED FOR PROPS LISTED TO THE RIGHT

MasterGuard Kits include a Lifetime Warranty

1

Engine Brand - Various Splined Prop Shafts	Part #
EVINRUDE® & JOHNSON®: (14 spline) 2 stroke: 20, 25 ('84+), 25 commercial ('93-'05), 30 ('84+), 35 ('76-'05) / E-Tec: 25hp, 30hp / H.O.: 15hp	TUR 22
FORCE®: (10 spline) 25hp ('95-'98)	TUR 21
MERCURY® & MARINER®: (10 spline) 2 stroke: 18hp ('80-'85), 20hp ('86+), 25hp ('85+) 4 stroke Bigfoot / Sail: 9.9hp ('99-'05), 15hp ('99-'05)	TUR 21



AN INSTALLATION KIT IS REQUIRED FOR PROPS LISTED TO THE RIGHT

MasterGuard Kits include a Lifetime Warranty

2

Engine Brand - 10 Spline Prop Shaft	Part #
HONDA®: BF 4 Stroke: 25, 30hp	TUR 28
MERCURY® & MARINER®: 4 stroke ('06 & newer, cotter pin shaft): 25hp , 30hp	TUR 28
PARSUN®: 20hp, 25hp	TUR 25
NISSAN® & TOHATSU®: 2 and 4 stroke: 25hp, 30hp	TUR 28
YAMAHA®: 2 stroke: 20hp, 25hp, 30hp / 4 stroke: 25hp	TUR 25

WARNING: MasterGuard Installation Kits Warning: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WANT A DIAMETER AND PITCH RECOMMENDATION?

TURNING POINT PROPELLERS PROP WIZARD® NEED A PROP? SEEK THE WIZARD

Quickly calculates the best props for a boat.
Visit https://tpprops.com/propwizard or Call 904-900-7739



Turning Point manufactures propellers to fit 6-300+hp Evinrude®, Force®, Honda®, Johnson®, Mariner®, Mercruiser®, Mercury®, Nissan®, OMC®, Parsun®, Suzuki®, Tohatsu®, Volvo Penta®, and Yamaha® Outboards and Sterndrives. Choose one of our Lifetime Warranty MasterGuard Installation Kits to fit your engine, then choose the propeller that matches your boating requirements. There are 3 & 4 blade, left & right rotation prop models with a variety of diameter & pitch options available for almost all boat types. Our Props Run Faster, Pull Harder, and Handle Better.

LH Left Rotation RH Right Rotation (standard)

1 HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: R4

Dia x Pitch		Part #
9 x 9	RH	TUR 2110-0910
9 x 10	RH	TUR 2110-1010

©2026 Turning Point Propellers, Inc. All Rights Reserved. Evinrude, Johnson, and Cobra are registered trademarks of BRP US, Inc. Honda is a registered trademark of American Honda Motor Co., Inc. Mercury, Mariner, Force, MerCruiser, Alpha One™ and Bravo One™ are registered trademarks of Brunswick Corporation. Parsun is a registered trademark of Suzhou Parsun Power Machine Co., LT. Nissan is a registered trademark of Nissan Marine. Suzuki is a registered trademark of American Suzuki Motor Corporation. Tohatsu is a registered trademark of Tohatsu Corp. Volvo is a registered trademark of AB Volvo Penta. Yamaha® is a registered trademark of Yamaha Motor Corporation.

NOT SURE WHICH PROPELLER TO GET?

TURNING POINT PROPELLERS PROP WIZARD® NEED A PROP? SEEK THE WIZARD

Get a Free Diameter and Pitch Recommendation With Our Online Tool Prop Wizard:

http://tpprops.com/propwizard

or Call Propeller Support at: +1-904-900-7739 x1
Office Hours M-F 9-5pm ET

2 HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: R5

Dia x Pitch		Part #
9 x 9	RH	TUR 2111-0910
9 x 10	RH	TUR 2111-1010



LIFETIME WARRANTY HUB SYSTEMS FOR ENGINES/DRIVES FROM 6-300+hp

- Reduce prop replacement cost by up to 33%.
- Reduce gear shock and engine/drive damage
- Minimizes propeller vibration and chatter
- Corrosion resistant brass splines and nylon
- Eliminates spun hubs
- Ends hub cracking
- Hub included in MasterGuard Installation Kits

MASTERGUARD® HUB SYSTEM



1 HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: R1

Dia x Pitch		Part #
10.5 x 11	RH	TUR 2120-1110
10.125 x 13	RH	TUR 2120-1310

1 MACH3 EXPRESS® STAINLESS STEEL PROPELLERS



STAINLESS STEEL 3 BLADE
Series: EX1

Dia x Pitch		Part #
10.5 X 11	RH	TUR 3120-1111 *
10.125 X 13	RH	TUR 3120-1311 *

* Special Order

2 HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: R2

Dia x Pitch		Part #
10.375 x 11	RH	TUR 2121-1110
10.375 x 13	RH	TUR 2121-1310

2 MACH3 EXPRESS® STAINLESS STEEL PROPELLERS



STAINLESS STEEL 3 BLADE
Series: EX2

Dia x Pitch		Part #
10.375 X 11	RH	TUR 3121-1111 *
10.375 X 13	RH	TUR 3121-1311 *

* Special Order

WARNING: Hustler Aluminum Propeller Housing Warning: This product can expose you to chemicals including carbon, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

TURNING POINT® PROPELLERS

BETTER THAN THE OEM PROPELLER

*Note: To find the correct installation kit and propeller housing, locate the HP, gearcase size, and prop shaft spline count of your outboard or sterndrive.

20-30hp
ENGINES WITH A 3" GEARCASE

MasterGuard HUB SYSTEM

20 Series Installation Kits

Premium corrosion resistant brass splines.
Eliminate hub system vibration & chatter.
Reduce gear shock & engine/drive damage.
Reduce prop replacement cost by up to 33%.

Note: Find Additional 3" Gearcase Engines on the previous page.



AN INSTALLATION KIT IS REQUIRED — FOR PROPS LISTED TO THE RIGHT

MasterGuard Kits include a Lifetime Warranty

3

Engine Brand - 10 Spline Prop Shaft	Part #
EVINRUDE® & JOHNSON®: 4 stroke: 25hp, 30hp	TUR 26
SUZUKI®: DT 2 stroke ('87+): 20, 25, 25C, 30, 30C DF 4 stroke: 25hp, 30hp	TUR 26

25-75hp
ENGINES WITH A 3.5" GEARCASE

MasterGuard HUB SYSTEM

10 Series Installation Kits

Premium corrosion resistant brass splines.
Eliminate hub system vibration & chatter.
Reduce gear shock & engine/drive damage.
Reduce prop replacement cost by up to 33%.



AN INSTALLATION KIT IS REQUIRED — FOR PROPS LISTED TO THE RIGHT

MasterGuard Kits include a Lifetime Warranty

1

Engine Brand - 13 Spline Prop Shaft	Part #
JOHNSON®: 4 stroke: 40hp, 50hp	TUR 11
FORCE®: 40hp ('95-'98), 50hp ('95-'98), 70hp ('91-'95), 75hp ('96-'98)	TUR 11
HONDA®: BF 4 stroke: 35, 40, 45, 50, 60hp, (not P60)	TUR 12
MERCURY® & MARINER®: 2 stroke: 30hp ('94+) / 35, 45, 55 / 40, 50, 60 ('77+) / 70hp ('77-'83) 4 stroke: 25hp, 30hp Bigfoot / 30hp ('94-'05) / 40hp (*not Bigfoot, CT, or SeaPro 4cyl.), 45hp, 48hp(Mariner), 50hp (*not bigfoot or CT), 55hp (SeaPro), 60hp (*not Bigfoot, CT, or SeaPro) *note: see 4.25" Gearcase for Bigfoot / CT 40-60hp & 2 stroke 70hp.	TUR 11
NISSAN® & TOHATSU®: Note: Do not use 12in diameter propellers. 35B ('84 & older), 40C, 40D, 50A('14+), 50D, 50C, 60A, MFS60, 70A2, 60B, 70B	TUR 13
PARSUN®: T30, T35, T36, T40	TUR 12
SUZUKI®: DT 2 stroke ('89+): 35C, 40, 50, 50M, 55, 60, 65hp DF 4 stroke: 40hp, 50hp / ('10+): 40A, 50A, 60A	TUR 11
YAMAHA®: 2 stroke: 40hp to 55hp / 4 stroke: FT25 High Thrust, 30hp to 60hp	TUR 12



AN INSTALLATION KIT IS REQUIRED — FOR PROPS LISTED TO THE RIGHT

MasterGuard Kits include a Lifetime Warranty

2

Engine Brand - 13 Spline Prop Shaft	Part #
EVINRUINRUDE® & JOHNSON®: 2 cyl.: 40hp, 48hp / 50hp ('75-'05) / 55hp ('76-'79) / 60hp, 65hp ('80-'85) 3 cyl. (with small gearcase): 75hp ('75-'85) Sprint and Formula E ('86-'92)	TUR 12



WANT A DIAMETER AND PITCH RECOMMENDATION?

TURNING POINT PROPELLERS PROP WIZARD® NEED A PROP? SEEK THE WIZARD

Quickly calculates the best props for a boat.
Visit https://tpprops.com/propwizard or Call 904-900-7739



Turning Point manufactures propellers to fit 6-300+hp Evinrude®, Force®, Honda®, Johnson®, Mariner®, Mercruiser®, Mercury®, Nissan®, OMC®, Parsun®, Suzuki®, Tohatsu®, Volvo Penta®, and Yamaha® Outboards and Sterndrives. Choose one of our Lifetime Warranty MasterGuard Installation Kits to fit your engine, then choose the propeller that matches your boating requirements. There are 3 & 4 blade, left & right rotation prop models with a variety of diameter & pitch options available for almost all boat types. Our Props Run Faster, Pull Harder, and Handle Better.

LH Left Rotation RH Right Rotation (standard)

3 HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: R3

Dia x Pitch	Part #
10.5 x 11 RH	TUR 2122-1110
10.125 x 13 RH	TUR 2122-1310

3 MACH3 EXPRESS® STAINLESS STEEL PROPELLERS



STAINLESS STEEL 3 BLADE
Series: EX3

Dia x Pitch	Part #
10.5 X 11 RH	TUR 3122-1111 *
10.125 X 13 RH	TUR 3122-1311 *

* Special Order

1 HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: H1

Dia x Pitch	Part #
12.5 X 8 RH	TUR 2130-0810
12 X 10.5 RH	TUR 2130-1010
10.875 X 11 RH	TUR 2130-1110
10.75 X 12 RH	TUR 2130-1210
10.5 X 13 RH	TUR 2130-1310
10.375 X 14 RH	TUR 2130-1410
10.125 X 15 RH	TUR 2130-1510

1 MACH3 EXPRESS® STAINLESS STEEL PROPELLERS



STAINLESS STEEL 3 BLADE
Series: E1

Dia x Pitch	Part #
10.75 X 12 RH	TUR 3130-1212 *
10.5 X 13 RH	TUR 3130-1312 *
10.375 X 14 RH	TUR 3130-1412 *

* Special Order

2 HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: H2

Dia x Pitch	Part #
12.5 X 8 RH	TUR 2131-0810 *
12 X 10.5 RH	TUR 2131-1010 *
12.5 X 13 RH	TUR 2131-1310
12.125 X 15 RH	TUR 2131-1510
11.75 X 17 RH	TUR 2131-1710

* Special Order

NOT SURE WHICH PROPELLER TO GET?

TURNING POINT PROPELLERS PROP WIZARD® NEED A PROP? SEEK THE WIZARD

Get a Free Diameter and Pitch Recommendation With Our Online Tool Prop Wizard:

http://tpprops.com/propwizard

or Call Propeller Support at: +1-904-900-7739 x1
Office Hours M-F 9-5pm ET

WARNING: Hustler Aluminum Propeller Housing Warning: This product can expose you to chemicals including carbon, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WARNING: MasterGuard Installation Kits Warning: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

TURNING POINT® PROPELLERS

BETTER THAN THE OEM PROPELLER

*Note: To find the correct installation kit and propeller housing, locate the HP, gearcase size, and prop shaft spline count of your outboard or sterndrive.

40-150hp

ENGINES WITH A 4.25" GEARCASE

MASTERGUARD® HUB SYSTEM

500 Series Installation Kits

Use on engines under 200hp with aluminum or stainless steel props or most engines 200hp and above with aluminum props only.
Premium corrosion resistant brass splines.
Eliminate hub system vibration & chatter.
Reduce gear shock & engine/drive damage.
Reduce prop replacement cost by up to 33%.

MASTERTORQ® Sound Dampening Hub SDH

800 Series Installation Kits
For noisy lower units - quieter ride
Use on engines 40hp and above with stainless steel props.
Includes a limited 1 year warranty.

500 MasterGuard & 800 MasterTorq Series Installation Kits & Corresponding Prop Housings are Compatible with, and Upgrade Competitors' Hub & Prop Systems. Interchangeable with Mercury® Flo-Torq II®, Michigan Wheel® XHS®, Solas® Rubex™ hub kit systems. NOTE: Not applicable with Turning Point's 10, 20 and 200 Hub Kit series.



AN INSTALLATION KIT IS REQUIRED FOR PROPS LISTED TO THE RIGHT

MasterGuard 500 Series Kits
Include a Lifetime Warranty

Engine Brand - Various Splined Prop Shafts	Part #
EVINRUDE® & JOHNSON®: (13 spline shaft) 2 cyl: 50hp ('71-'74) / 45 to 55hp commercial 3 cyl: 55, 60, 65, 70hp, 75hp with large gearcase, 65hp commercial 4 cyl: 75, 85, 88, 90, 100, 110, 115, 120 ('86-'94), 125, 135 ('73-'76), 140 ('77-'84, '86-'94) / H.O. (includes E-TEC H.O.): 60, 90, 115hp E-TEC: 40, 50, 60, 65, 75hp / 20" shaft: 90, 115hp (not pontoon series), 130hp ('09-'10) / E-TEC G2 Series only 3cyl with small gearcase: 115H.O, 140, 150hp	TUR 503
JOHNSON®: (13 spline shaft) 4 stroke ('98-'09): 60hp, 70hp	TUR 506
FORCE®: (15 spline shaft) 75hp ('99) / 90hp to 150hp ('95+)	TUR 501
HONDA®: (15 spline shaft) ('95-'98): 75hp, 90hp	TUR 501
HONDA®: (15 spline shaft) P60 / 75, 90 ('99+) / 100, 115 (not 115D), 130hp	TUR 507
MERCURY® & MARINER®: **Note¹: Use 801F kit on noisy lower units with stainless steel propellers.** **Note²: Props Not Available for '77 & Older models.** (15 spline shaft) (2 & 4 stroke) 40 to 60 CT, Bigfoot, FourStroke / 70 ('87-'89) / 75, 80 ('78-'89), 90, 100, 115, 125, 140hp / 150 XR4/6 (thru 1993, includes equivalent Mariner Magnum I, II, III.) FourStroke™ & SeaPro™ 4cyl: 40 to 75hp / OptiMax: 75, 90, 115, 125hp	TUR 501 TUR 801F
NISSAN® & TOHATSU®: (15 spline) 60C, 70C, 70('02-'09) / MFS('21+) 75 to 140hp / (not BFT): 90 to 140hp / 115 TLDI ('14+)	TUR 505
NISSAN® & TOHATSU®: (15 spline shaft) BFT ('14-'20): W60, 60, 75, 90hp	TUR 507
OMC®: (13 spline shaft) Cobra 400: 2.3 to 3.0L ('78-'89) / Sea Drive: 1.6 to 1.8L	TUR 503
PARSUN®: (15 spline shaft) T60, T75, T85, T90	TUR 500
SUZUKI®: (13 spline shaft) DT 2 Stroke ('89+): 75 to 140hp / DF 4 Stroke ('98-'09): 60hp, 70hp	TUR 506
SUZUKI® & JOHNSON®: (use 4 blade props only) 4 stroke: ('09+) 70A, 80A, 90A, 70, 80 / ('01+) 90, 100, 115 (Not 115A)	TUR 509
SUZUKI® & JOHNSON®: (use 4 blade props only) DF 4 stroke: 50AV, 60AV, 115A, 140, 140A	TUR 501
YAMAHA®: (15 spline shaft) **Note¹: Use 800F kit on noisy lower units with stainless steel propellers.** **Note²: If prop strikes trim tab, replace with Yamaha part #6E5-45371-10.** High Thrust: FT50, FT60 / 2 stroke: 60 to 100hp / 4 stroke: 70, 75 ('03-'16), 80, 90 ('03-'16), 100hp ('03-'16)	TUR 500 TUR 800F
YAMAHA®: (15 spline shaft) **Note¹: Use 805F kit on noisy lower units with stainless steel propellers.** **Note²: If prop strikes trim tab, replace with Yamaha part #6E5-45371-10.** 2 stroke: 115 to 130hp / 4 stroke: 75 ('17+), 90 ('17+), 100 ('17+),115hp	TUR 505 TUR 805F

HUSTLER® ALUMINUM PROPELLERS

NEW ENGINEERING CRANKS UP BOAT PERFORMANCE

Stainless Steel Performance at Aluminum Prices

New unique blade geometry and manufacturing processes results in the highest performance aluminum propellers on the block. Hustler® propellers out performed most competitive stainless steel props in recent tests. Not only does top speed, handling and hole shot improve, but also mid-range performance, which will save you a ton in gas usage.

Squeeze Cast for Added Strength

Stainless steel performance is built into the Hustler Aluminum prop line. This is achieved through unique blade geometry and an exclusive Turning Point manufacturing process, Squeeze Casting. It generates the highest mechanical properties attainable in a cast aluminum prop resulting from a tighter grain structure. Stiffer blades means less flex and a faster prop. Competitors still use old Die-Cast processes that produce blades that flex, resulting in overall poor performance.



WARNING: MasterGuard & MasterTorq Installation Kits Warning: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WANT A DIAMETER AND PITCH RECOMMENDATION?

TURNING POINT PROPELLERS
PROP WIZARD®
NEED A PROP? SEEK THE WIZARD

Quickly calculates the best props for a boat.
Visit https://tpprops.com/propwizard or Call 904-900-7739



Turning Point manufactures propellers to fit 6-300+hp Evinrude®, Force®, Honda®, Johnson®, Mariner®, Mercruiser®, Mercury®, Nissan®, OMC®, Parsun®, Suzuki®, Tohatsu®, Volvo Penta®, and Yamaha® Outboards and Sterndrives. Choose one of our Lifetime Warranty MasterGuard Installation Kits to fit your engine, then choose the propeller that matches your boating requirements. There are 3 & 4 blade, left & right rotation prop models with a variety of diameter & pitch options available for almost all boat types. Our Props Run Faster, Pull Harder, and Handle Better.

Left Rotation Right Rotation (standard)

HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE

Series: LE1/LE2

Dia x Pitch	Part #
14 x 11	TUR 2143-1111
14 x 13	TUR 2143-1311
13.75 x 15	TUR 2143-1511
13.25 x 17	TUR 2143-1711
13.25 x 19	TUR 2143-1911
13.25 x 21	TUR 2143-2111
13.25 x 23	TUR 2143-2311

MACH3 EXPRESS® STAINLESS STEEL PROPELLERS



STAINLESS STEEL 3 BLADE

Series: EX1/EX2

Dia x Pitch	Part #
13.75 x 15	TUR 3143-1512
13.25 x 17	TUR 3143-1712
13.25 x 19	TUR 3143-1912
13.25 x 21	TUR 3143-2112 *

* Special Order

HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 4 BLADE

Swept Cleaver Series

Series: LE1/LE2-4

Dia x Pitch	Part #
14 x 11	TUR 2143-1130
14 x 13	TUR 2143-1330
13.5 x 15	TUR 2143-1530
13.25 x 17	TUR 2143-1730
13 x 19	TUR 2143-1930
13 x 21	TUR 2143-2130

MACH4 EXPRESS® STAINLESS STEEL PROPELLERS



STAINLESS STEEL 4 BLADE

Swept Cleaver Series

Series: EX1/EX2-4

Dia x Pitch	Part #
14 x 9	TUR 3143-0930 *
14 x 11	TUR 3143-1130
14 x 13	TUR 3143-1330
13.5 x 15	TUR 3143-1530
13.5 x 15	TUR 3143-1540
13.25 x 17	TUR 3143-1730
13.25 x 17	TUR 3143-1740 *
13 x 19	TUR 3143-1930
13 x 19	TUR 3143-1940 *
13 x 21	TUR 3143-2130
13 x 21	TUR 3143-2140 *
13 x 23	TUR 3143-2330 *
13 x 23	TUR 3143-2340 *

* Special Order

SHE'LL DO THINGS YOU NEVER THOUGHT POSSIBLE

Express® Mach3™: Looking for Top Speed? Get one, and hold on!
Express® Mach4™: Max Cornering? Like you're on rails! Hole Shot? Like a rocket!
Express® Mach3™ OS™: Big Blades for Big Horsepower. Get Peak Performance on Pontoon, Center Console, or Walleye Boats.



WARNING: Hustler Aluminum Propeller Housing Warning: This product can expose you to chemicals including carbon, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

TURNING POINT® PROPELLERS

BETTER THAN THE OEM PROPELLER

*Note: To find the correct installation kit and propeller housing, locate the HP, gearcase size, and prop shaft spline count of your outboard or sterndrive.

90-300+hp

ENGINES WITH A

4.75"+ GEARCASES

MasterGuard® HUB SYSTEM

500 Series Installation Kits
Use on engines under 200hp with aluminum or stainless steel props or most engines 200hp and above with aluminum props only.

SUPER DUTY MasterGuard® HUB SYSTEM

700 Series Installation Kits
For heavy duty extreme load applications
Use on engines 200hp and above with stainless steel props.

MasterTorq® Sound Dampening Hub SDH

800 Series Installation Kits
For noisy lower units - quieter ride
Use on engines 40hp and above with stainless steel props.

MasterTorq® Fat Shaft Hub FSH

621 Series Installation Kits
Engineered For Big Prop Shafts
Use on 1.25" Mercury Prop Shafts with stainless steel or aluminum props.

Installation Kits & Corresponding Prop Housings are Compatible with, and Upgrade Competitors' Hub & Prop Systems. Interchangeable with Mercury® Flo-Torq II®, Michigan Wheel® XHS®, Solas® Rubex™ hub kit systems. NOTE: Not applicable with Turning Point's 10, 20 and 200 Hub Kit series.

*Note: Lifetime Warranty on 500 & 700 Series Hubs Apply To Non-Commercial Use Only, for terms & conditions visit: http://tpprops.com/warranty

AN INSTALLATION KIT IS REQUIRED — FOR PROPS LISTED TO THE RIGHT

See Installation Kit Application Guide for best kit selection.
MasterGuard 500 & 700 Series Kits include a Lifetime Warranty

Engine Brand - Various Splined Prop Shafts	Part #
EVINRUDE® & JOHNSON®: (15 spline shaft) V4 with V6 large gearcase: 100hp commercial, 120hp ('85),130hp ('95-'96), 140hp ('85), Pleasure ('95+): 115hp, 130hp / H.O. (includes E-TEC H.O.): (25" shaft) 90, 115, 135, 150, 200, 225, 250hp E-TEC (includes pontoon series - NOT for E-TEC G2): 90hp (25" shaft), 115hp, 130hp ('09-'10), 135hp to 300hp / V6: 135hp to 250hp / V8: 250hp to 300hp	TUR 502
EVINRUDE® E-TEC® G2™: (15 spline shaft) **Note: Use 711 Super Duty Kit for 200+hp Engines w/ SS Props.** G2 Series Only: 140hp w/ large gearcase, 150 H.O. to 300hp	TUR 711
HONDA®: (15 spline shaft) **Note: Use 708 Super Duty Kit for 200+hp Engines w/ SS Props.** BF115D ('11+), BF135 ('04+), BF150 ('04+), BF200 ('02+), BF225 ('02+), BF250 ('12+), M300	TUR 508 TUR 708
HONDA®: (17 spline shaft) **(use Express Mach3 OS series props only)** BF300, 350hp	TUR 715
JOHNSON®: **(use Express Mach3 OS series props only)** 4 stroke: 200- 225hp	TUR 717
MERCURY® & MARINER®: (15 spline shaft) **Note¹: See Installation Kit Application Guide for best kit selection.** ProXS 115CT / FourStroke™ & SeaPro™: 90CT, 115CT, 150hp, 200 to 300 V6: 135 to 300hp / Verado 135 to 300hp(not HD) / OptiMax: 150, 200, 250hp	TUR 501 TUR 701 TUR 801F
MERCURY®: (19 spline shaft) **Designed for HD (Heavey Duty) 1.25" prop shaft - HD 5.25-5.44" gearcases:** Pro XS 175-250hp w/ Torque Master gearcase, Verado 300-400hp, Sport Master, Torque Master I & II (Torque Master Gearcases to fit 200XS, 225X, 2.5 EFI, 225 Pro X, 250XS, 300X), Fleet Master	TUR 621
MERCRUISER®: (15 spline shaft) Alpha One and Bravo One ('83+) **Note¹: Use 701 Super Duty Kit for 200+hp Bravo One Drives w/ SS Props. For all other applications use 501 kit w/ stainless steel or aluminum props. Note²: If propeller strikes trim tab, replace with Mercury part #822777A1**	TUR 501 TUR 701
MERCRUISER®: (19 spline shaft) **Designed for HD (Heavey Duty) 1.25" prop shaft - HD 5.25-5.44" gearcases:** Bravo One XR/XZ, Sport Master, shorty Sport Master Bravo One XR	TUR 621
OMC®: (15 spline shaft) **Note: SX drives, see Volvo Penta SX listing below.** Cobra 800: 3.0 to 7.5L / King Cobra: 454, 502, 7.4-8.2L ('90+) / Sea Drive: 2.0 to 4.0L	TUR 502
SUZUKI®: (15 spline shaft) **Note¹: See Installation Kit Application Guide for kit selection.** DT 2 stroke: 150hp to 225hp DF 4 stroke: **(use Express Mach3 OS series props only)** 150 to 300hp	TUR 517 TUR 717 TUR 817F
TOHATSU®: (15 spline shaft) **Note: Use 708 Super Duty Kit for 200+hp Engines w/ SS Props.** BFT115, BFT150, BFT200, BFT225, BFT250	TUR 508 TUR 708
VOLVO® PENTA® SX & OMC® SX COBRA®: (19 spline) ('94+): 3.0 to 8.2L. Not for Volvo DuoProp or Aquamatic drives.	TUR 504
VOLVO® PENTA® AQ: (17 spline) **(4 blade props only)** 200, 250, 270, 280, 290	TUR 510
YAMAHA®: (15 spline shaft) **Note¹: See Installation Kit Application Guide for kit selection. Note²: Use 805FT Kit with Express Mach3 OS Propellers Housings Note³: If Express Mach3 OS Prop strikes trim tab, replace with TP part #41505060.** 2 & 4 stroke: 150 to 250hp / F300 (V6 only '09+) / Sterndrives 3.0 to 7.4L	TUR 505 TUR 705 TUR 805F TUR 805FT
YAMAHA®: **(use Express Mach3 OS series props only)** F350	TUR 715

INSTALLATION KIT APPLICATION GUIDE

	Kit Series	Prop Shaft	Engine Brands	Aluminum Propellers	Stainless Props Under 200hp	Stainless Props 200+hp	Warranty
MasterGuard Classic (for typical use applications)	500	1.00"	various	✓	✓		Lifetime
MasterGuard Super Duty (for heavy duty extreme load applications)	700	1.00"	various			✓	Lifetime
MasterTorq Sound Dampening Hub (for noisy lower units - quieter ride)	800	1.00"	various		✓	✓	1 year
MasterTorq Fat Shaft Hub (for Mercury engines with big prop shafts)	621	1.25"	Mercury®	✓	✓	✓	1 year

WARNING: MasterGuard & MasterTorq Installation Kits Warning: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WANT A DIAMETER AND PITCH RECOMMENDATION?

TURNING POINT PROPELLERS
PROP WIZARD®
NEED A PROP? SEEK THE WIZARD

Quickly calculates the best props for a boat.
Visit https://tpprops.com/propwizard or Call 904-900-7739



Turning Point manufactures propellers to fit 6-300+hp Evinrude®, Force®, Honda®, Johnson®, Mariner®, Mercruiser®, Mercury®, Nissan®, OMC®, Parsun®, Suzuki®, Tohatsu®, Volvo Penta®, and Yamaha® Outboards and Sterndrives. Choose one of our Lifetime Warranty MasterGuard Installation Kits to fit your engine, then choose the propeller that matches your boating requirements. There are 3 & 4 blade, left & right rotation prop models with a variety of diameter & pitch options available for almost all boat types. Our Props Run Faster, Pull Harder, and Handle Better.

Left Rotation Right Rotation (standard)

HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 3 BLADE
Series: LE

Dia x Pitch	Part #
15.25 x 15	TUR 2150-1511
14.25 x 17	TUR 2150-1711
14.25 x 19	TUR 2150-1911
14.25 x 21	TUR 2150-2111
14.25 x 23	TUR 2150-2311

HUSTLER® ALUMINUM PROPELLERS



ALUMINUM 4 BLADE
Dual Geometry Series
Series: LE-4

Dia x Pitch	Part #
15 x 15	TUR 2150-1530
15 x 15	TUR 2150-1540
14.5 x 17	TUR 2150-1730
14.5 x 17	TUR 2150-1740
14 x 19	TUR 2150-1930
14 x 19	TUR 2150-1940
14 x 21	TUR 2150-2131
14 x 21	TUR 2150-2141

MACH3 EXPRESS® STAINLESS STEEL PROPELLERS



STAINLESS STEEL 3 BLADE
Series: EX

Dia x Pitch	Part #
15 x 15	TUR 3150-1512
15 x 15	TUR 3150-1522 *
14.25 x 17	TUR 3150-1712
14.25 x 17	TUR 3150-1722
14.25 x 19	TUR 3150-1912
14.25 x 19	TUR 3150-1922
14.25 x 21	TUR 3150-2112
14.25 x 21	TUR 3150-2122 *
14.25 x 23	TUR 3150-2311 *
14.25 x 23	TUR 3150-2321 *

* Special Order

MACH4 EXPRESS® STAINLESS STEEL PROPELLERS

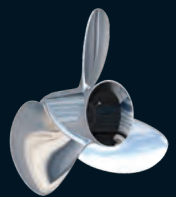


STAINLESS STEEL 4 BLADE
Dual Geometry Series
Series: EX-4

Dia x Pitch	Part #
15.3 x 13	TUR 3150-1330
15.3 x 13	TUR 3150-1340 *
15 x 15	TUR 3150-1532
15 x 15	TUR 3150-1542 *
14.5 x 17	TUR 3150-1731
14.5 x 17	TUR 3150-1741 *
14 x 19	TUR 3150-1931
14 x 19	TUR 3150-1941 *
14 x 21	TUR 3150-2131
14 x 21	TUR 3150-2141 *
14.3 x 23	TUR 3150-2331 *
14.3 x 23	TUR 3150-2341 *

* Special Order

MACH3 EXPRESS® OS STAINLESS STEEL PROPELLERS



STAINLESS STEEL 3 BLADE
Large Diameter OS Series
Series: OS

Dia x Pitch	Part #	Dia x Pitch	Part #
15.6 x 11	TUR 3151-1110	15.6 x 21	TUR 3151-2110
15.6 x 11	TUR 3151-1120 *	15.6 x 21	TUR 3151-2120 *
15.6 x 13	TUR 3151-1310	15.6 x 23	TUR 3151-2310
15.6 x 13	TUR 3151-1320 *	15.6 x 23	TUR 3151-2320
15.6 x 15	TUR 3151-1510	15.6 x 25	TUR 3151-2510 *
15.6 x 15	TUR 3151-1520 *	15.6 x 25	TUR 3151-2520 *
15.6 x 17	TUR 3151-1710	15.6 x 27	TUR 3151-2710 *
15.6 x 17	TUR 3151-1720	15.6 x 27	TUR 3151-2720 *
15.6 x 19	TUR 3151-1910		
15.6 x 19	TUR 3151-1920 *		

WARNING: Hustler Aluminum Propeller Housing Warning: This product can expose you to chemicals including carbon, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Heavy Load Models

- The following sizes are available in a heavy load model, providing extra thickness on the blade
- Ideal for intense usage such as water taxi
- 3 blade

Dia x Pitch	Part #
15.6 x 17	TUR 3151-1710-HL
15.6 x 17	TUR 3151-1720-HL
15.6 x 19	TUR 3151-1910-HL
15.6 x 19	TUR 3151-1920-HL

Megaware Skeg Guard



- Mirror polished 316 stainless steel
- Thickened lower wear tab protects against ramp dragging and is great for river running
- Won't compromise performance
- DIY install in less than 10 minutes
- Drain hole prevents against corrosion and freezing
- Installs with as little as 2-3 inches of skeg remaining
- Three year warranty

MKG 27021
Mercruiser: Alpha I 1985-1990

MKG 27031
Mercruiser: Alpha I Generation II 1991-Present

MKG 27051
Mercruiser: Bravo I & III 1990-Present

MKG 27071
Honda: 60-75 4 Stroke 2010-Present, 75-90-115 4 Stroke 1995-2007
Mariner: 50-60 Bifgfoot 2003-2011, 70-90-100-115-125 Incl. Opti 2 & 4 Stroke 1983-2011
Mercury: 40-50-60 Bigfoot 2001-2013, 40-50-60 Command Thrust 2014-Present, 50 4 Stroke 2006-2014, 75-90-115-125 2/4 Stroke & Optimax 2003-2014
Nissan/Tohatsu: 70-75-90-115-120-140-150 2/4 Stroke 1993-Present

MKG 27081
Evinrude/Johnson: 90-115-130 E-TEC 25" or 30" Shaft 2006-Present, 150-175-200 20" Shaft E-TEC 2006-Present (Does not fit Lightning Gearcase)
Suzuki: 250SS-300 4 Stroke 2008-Present (Not compatible with AP models)

MKG 27091
Evinrude/Johnson: 135-175-200 25" or 30" Shaft E-TEC 2 Stroke 2006-2014, 150 25"-30" Shaft E-TEC 2006-Present, 225-250-300 E-TEC 2002-2014 (Does not fit Lightning Gearcase)

MKG 27101
Johnson: 100-115-120-140 1980-2001 (Does not fit Lightning Gearcase)

MKG 27151
Yamaha: 150-175 2 & 4 Stroke 1984-Present, 200 2 Stroke HPDI 2000-2012, 200 4 Stroke 2.8L I-4 2012-Present, 300 4 Stroke 2007-2009, 350 4 Stroke 2007-Present, I/O Sterndrive Models 1989-1993

MKG 27191
Volvo: DP Dual Prop 1996-2007 (No DPS-A)

MKG 27211
Mariner: 150-175-200-225-250-275-300 Verado 2005-2011
Mercury: 90-115 Command Thrust & ProXS CT 4 Stroke 2014-Present, 75-90-115-150 SeaPro 2018-Present, 150 4 Stroke & Verado 2012-Present, 175-200-225 Verado 4.8" Gearcase 2005-2018, 200-250-300 4 Stroke PRO Verado 4.8" Gearcase 2015-2018, 200-225-250 2 Stroke Optimax & ProXS 1999-2018 (Not compatible with Torque Master)

MKG 27221
Volvo: SX Single Prop 1995-2006 (No SX-A)

MKG 27261
Suzuki: 50AV-60AV 4 Stroke 2014-Present, 90 4 Stroke 2001-2010, 100/100A-115/115A-140/140A 4 Stroke 2001-Present

MKG 27291
Yamaha: 75-90 4 Stroke 2017-Present, 115-130 2& 4 Stroke 2001-Present

MKG 27301
Yamaha: 200 4 Stroke V6 2002-Present, 225 2/4 Stroke 1997-Present, 250 2/4 Stroke 1990-Present, 300 2 Stroke 2004-2006, 300 4 Stroke 2010-Present

Megaware Skeg Guard - continued

MKG 27321
Yamaha: 50-60 High Thrust 4 stroke 1996-Present, 60-70-90 2 Stroke 2001-2009, 70 4 Stroke 2010-Present, 75-80-90-100 4 Stroke 2003-2016

MKG 27331
Yamaha: 30 & 60 4 Stroke 2002-Present, 40-50 2 & 4 Stroke 2001-Present

► *Also See* Model Finder @ keelguard.com/product/skegguard/

Panther Safe-Skeg



- Made from 1.5mm 316 stainless steel
- Protect against ramp dragging, rocks, and submerged objects
- Mirror-polished finish
- Drain hole protects against corrosion and freeze-up

PAN 35-SS605	Mercruiser Alpha 1('89)
PAN 35-SS610	Mercruser Alpha 1 Gen II, 1991 on
PAN 35-SS615	Mercruiser Bravo 3
PAN 35-SS625	Honda 90 Mercury 75
PAN 35-SS630	Evin/John 150,175 (86-03)
PAN 35-SS645	Yamaha 150 ('09)
PAN 35-SS690	Yamaha 115-130 (03-present)
PAN 35-SS695	Yamaha 200
PAN 35-SS665	Volvo SX 95-06
Parts:	
PAN 35-SSKIT1	Spare mounting kit includes mounting hardware and instructions, allen wrench & Loctite 262

Megaware Skeg Pro



- Made from 18-gauge 304 stainless steel
- Mirror-polished finish creates a custom look and lasting protection
- Protect against ramp dragging, rocks, and submerged objects
- Installs in less than 10 minutes
- Works with selected motors from Evinrude, Johnson, Force, Honda, Mercury, Suzuki, Tohatsu-Nissan and Yamaha (see manufacturers site for a full list)

MKG SP-655

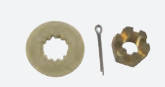
Davis Prop Sox



Protect your expensive propellers from road kickback when towing and promote safety by increasing your propellers' visibility.

DIN 450 **
** While Stock Lasts

Sierra Prop Nut Kits

Part #	Description	
SIE 18-3701	For Mercury/Mariner outboards For Mercruser (11-52707A1) I/O's Includes: Tab washer: (2) 18-3200 (90508-ZW1-003) Prop nut: 18-3700 (90301-ZW1-003)	
SIE 18-3702	For Mercury/Mariner outboards For Mercruser (11-52707A1) I/O's Includes: Tab washer: (2) 18-3204 (14-76281) Prop nut: 18-3704 (11-69578)	
SIE 18-3715	OMC Sterndrive/Cobra Includes: Prop nut/keeper: 18-3708-1 (398042) Cotter pin 18-3741: (309955) Prop spacer 18-4231: (320570)	
SIE 18-3716	OMC Sterndrive/Cobra Replaces: 175267 Includes: Prop nut: 18-3705 (314503) Cotter pin: 18-3742 (314502) Prop spacer: 18-4238 (315810)	
SIE 18-3717	OMC Sterndrive/Cobra Replaces: 175268 Includes: Prop nut: 18-3707 (319891) Cotter pin: 18-3743 (320785) Prop spacer: 18-4232 (323943)	
SIE 18-3733	OMC Sterndrive/Cobra For: SX Cobra	
SIE 18-3204-9	Mercury/Mariner 30-60hp (non-Bigfoot) outboard engines Package of 10 Replaces: 14-76281	

Handi-Man Propeller Nut/Key Sets

Each kit contains brass key stock cut to length, stainless steel cotter pin and brass finished hex and jam nut.

Part #	Shaft Size
HAN 592014	3/4"
HAN 592034	1"
HAN 592044	1-1/8"
HAN 592054	1-1/4"
HAN 592064	1-3/8"



Handi-Man Brass Shear Pin Kits



Each kit contains two (2) brass shear pins and stainless cotter pin(s).

Part #	Size	Cotter Pins
HAN 550011	1/8" x 13/16"	2
HAN 550041	5/32" x 1-3/16"	1
HAN 550051	3/16" x 15/16"	2
HAN 550061	3/16" x 1-1/16"	2
HAN 550121 **	9/32" x 2-5/32"	2
HAN 550201	3/16" x 1-3/8"	2
HAN 550231	3/16" x 1-1/4"	1
HAN 550241	5/32" x 1"	2

** While Stock Lasts

Sea-Dog Prop Wrench



- Zinc plated steel construction
- 8-7/8" x 13/16"

SED 531112

Sierra Prop Wrench



SIE 18-4459 Reinforced fibreglass

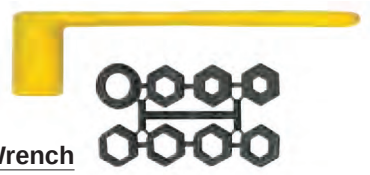
T-H Marine Nylon Prop Wrench



- 1-1/16" six point socket style prop wrench
- (OMC - over 40 HP, Mercury - over 50 HP)
- 9/16" garboard drain plug socket on the reverse side

THM PMW-1-DP

Attwood Plastic Prop Wrench



- Multiple socket sizes for all prop maintenance.
- Offers multiple sockets to fit from 17/32" to 1-1/16", allowing the service multiple props

ATT 11370-7

McGard Propeller Locks



Protect yourself against expensive propeller theft with a McGard propeller lock. A free-spinning collar will turn if attacked by gripping tools without loosening the lock. Constructed of naval brass and hardened stainless steel.

Part #	Motors	Thread
Propeller Locks For Stern Drives		
MCG 74039 **	▪ Mercruiser Alpha I, Bravo I (Incl. X & XR) ▪ TRS OMC Cobra and King Cobra	3/4 - 16
MCG 74040 **	▪ All Yamaha	M18 x 1.5
MCG 74057 **	▪ Volvo DP-S (Duo-Prop)	M22 x 2.0
Propeller Locks For Outboard Motors		
MCG 74039 **	▪ Mercury/Mariner 70 HP and larger (2 stroke) ▪ Mercury 50 HP and larger (4 stroke) (ex. 225 HP 4 stroke before 2005) ▪ Johnson/Evinrude 150 HP and larger (2 stroke)	3/4 - 16
MCG 74040 **	▪ Honda 75 HP and larger ▪ Suzuki 40 HP and larger ▪ Yamaha 115 HP and larger ▪ Johnson/Evinrude 150 HP and larger (4 stroke)	M18 x 1.5

** While Stock Lasts

McGard Outboard Motor Locks



Designed to lock the bolt that holds the outboard onto the transom of the boat. Simply replace one of the mounting bolts with a McGuard locking nut. Stainless steel construction.

Part #	Motors	Thread
MCG 74036 **	▪ Mercury/Mariner 40 HP and larger (2 stroke) ▪ Mercury 25 HP and larger (4 stroke) ▪ Suzuki 150 - 300 HP	1/2-20
MCG 74049 **	▪ Honda 8-20 HP ▪ Johnson/Evinrude 6-30 HP ▪ Mercury/Mariner 8-25 HP ▪ Nissan 8-18 HP ▪ Suzuki 8-30 HP ▪ Tohatsu 8-18 HP ▪ Yamaha 8-25 HP (Lock may fit some 2 strokes up to 30 HP, verify hole diameter) - Will fit other small outboards with a 5/16" hole in the transom bracket for mounting the motor (S/S bolt included in set).	5/16-18
MCG 74038 **	▪ Johnson/Evinrude 40-140 HP (2 stroke)(Some 90 HP & 130 HP may have a 3/4-16 shaft)	5/8 - 11

** While Stock Lasts

McGard Stern Drive Motor Lock



Stern drive locks are fully machined from high quality stainless steel and through-hardened. Free-spinning collar that turns if attacked by gripping tools without loosening the lock. 7/16" thread.

- Fits Mercruiser Alpha, Bravo and Blackhawk, OMC Cobra, King Cobra, Volvo SX & DPX

MCG 74018 **

** While Stock Lasts

Trimax Outboard Motor Lock



- Constructed of heavy gauge, vinyl coated steel
- Fits most outboard motors
- Weather proof powder coating

TMX TBL610

Panther Outboard Motor Lock



- A heavy carbon steel design that fits turnbuckle mounted engines
- Recessed solid brass lock and noise dampeners that reduce rattle

PAN 75-8000

Panther Outboard Motor Lock



- Polished stainless steel key locks
- Anti-drill protection
- Fits most outboard engines with turnbuckle installations
- Noise dampeners reduce rattle
- Includes 2 keys (cannot be duplicated without included 4 digit key card)

PAN 75-8201

Panther Outboard Motor Lock



- Fits on the engine's mount bolts preventing loosening of transom nuts
- Constructed of high strength 300 series marine grade stainless steel with anti-theft by drill protection
- Fits up to 1/2" (12mm) engine bolts
- Complete with two security keys that can not be duplicated

PAN 75-8101

Sierra Manifolds - Mercruiser

18-1953-2



Part #	Description
SIE 18-1952-1	Port & Starboard Replaces: 99746A8, A17 Fits most 4.3L (262 CID) V-6 application
SIE 18-1953-2	Port & Starboard Supplied with Mounting Package Replaces: 87114A19,86024A10 Will fit either side - Fits most Mercruiser(GM) small blocks with center riser.
SIE 18-1955-1 **	Replaces: 96705A1 Fits most early Model 3.0L 181 CID with Rochester Carb. 5 bolt pattern and 2.5L, 153CID (1968-82)
SIE 18-1956-3	Replaces: 860235A04, 99798A16, 99798A3, 99798A9
SIE 18-1957-2	Port & Starboard Replaces: 807078Q07, 807078T08
SIE 18-1958-1 **	Replaces: 54100A1, 54100A5, 65604A12, 65604A4

** While Stock Lasts

Sierra Manifolds - OMC

Part #	Description
SIE 18-1902 **	Replaces: 912441 V-8 - STARBOARD SIDE
SIE 18-1903 **	Replaces: 912442 V-8 - PORT SIDE Fits most GM V-8 small blocks with end riser
SIE 18-1904 *	Port & Starboard Replaces: 980959 V-8 - EITHER SIDE Fits most Ford V-8 302 & 351W with end riser

* Special Order - may have stock
** While Stock Lasts

Sierra Manifolds - Volvo/Penta

18-1848



Part #	Description
SIE 18-1848	Replaces: 3857656, 3847499 Fits: Volvo 4.3L V-6
SIE 18-1932	Port & Starboard Replaces: 856894 For: 4.3L Fits: AQ175, AQ430, AQ431A, AQ431B, AQ432, AQ434
SIE 18-1997-1	Port & Starboard Replaces: Barr CHV-1-83 Universal Center Riser Manifold FITS: GM 283, 305, 307 and 350 CID engines

57-57510



EMP Manifolds

Part #	Description
EMP 57-57501	Mercury 865735A02 / Sierra 18-1843 Dry Joint, Fits GM 5.0L, 5.7L, 6.2L V8 engines
EMP 57-57510	Mercury 99746 / Sierra 18-1952-1 Fits model 185R, 185MR, 205R, 205MR, 229 CID, 262 CID (V6 engines)
EMP 57-57520	Mercury 87114A19 / Sierra 18-1953-2 Fits most Mercruiser (GM) small blocks with centre riser

Sierra
Riser - Crusader

18-1927



Part #	Description
SIE 18-1927	Port & Starboard Replaces: Barr CHV-1-83 Universal Center Riser Manifold

Sierra
Risers - Volvo/Penta

Part #	Description
SIE 18-1908K	Replaces: 857037 For: 4.3L Fits: AQ175, AQ430, AQ431A, AQ431B, AQ432, AQ434
SIE 18-1909-1	Replaces: OMC 913784, 3855270, 3850456, Volvo 3855270-9, 3863061 OMC Riser, 4" outlet 7°:Fits many GM & Ford center rise manifolds.
SIE 18-1935-1	Replaces: 855384-4, 856891
SIE 18-1936	Replaces: 857037 For: 4.3L Fits: AQ175, AQ430, AQ431A, AQ431B, AQ432, AQ434

Sierra
Risers - Chrysler

Part #	Description
SIE 18-1945	Replaces: 2846689

EMP
Riser - Mercruiser



Part #	Description
EMP 57-57517	Replaces: 86409T02 Fits Mercruiser MCM GM V-6 & V-8 engines with centre rise outlet exhaust manifold (2004 +) 4" OD (Serial Numbers: 0W310000 and up), 2002+ MIE GM V-8 (350 & 377 cid) engines with dry joint exhaust manifolds (Serial Numbers: 0M317000 and up)

Sierra
Elbows - Crusader

18-1934



Part #	Description
SIE 18-1922 **	Replaces: 987784 4 CYL. Fits most 140 HP 3.0L (181 CID)
SIE 18-1934	Replaces: Crusader 98068 Crusader GM Small Block V8 305-350cu.in.(Models 220 and 270), GM Big Block V8 454cu.in.(Models: CH350 and 454XL) 3" Hose

** While Stock Lasts

Sierra
Elbows - Mercruiser

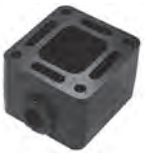
Part #	Description
SIE 18-1975-1	Replaces: 12076A2 Fits late Model Mercruiser 4 cyl. Engines
SIE 18-1976-2	ELBOW

Sierra
Elbows - Chrysler

Part #	Description
SIE 18-1946	Replaces: 3527794 Fits Chrysler Model 273, 318, 340 & 360 CID engines (1966-1986) will work in conjunction with 18-1945

Sierra
Spacer

18-1908



Part #	Description
SIE 18-1908	Mercruiser GM V6 229 and 262cu.in. (Models: 185 and 205),GM Small Block V8 305-350cu.in. (Models: 200, 228, 230, 260 and 898), GM Big Block V8 454cu.in. (Models: 330, 340 and 7.4L)

Sierra
Exhaust Gaskets - Crusader

18-0418



Part #	Description
SIE 18-0418	MANIFOLD GASKET Replaces: 96653 Used with: Manifold: 18-1957-1, 18-1982, 18-1929, 18-1933, 18-1898
SIE 18-0603	MANIFOLD MOUNTING KIT For: Ford 302/351 CID Engines Use with: Manifold: 18-1998-1
SIE 18-0604	MANIFOLD MOUNTING KIT For: GM 305/350 CID Engines Use with: Manifold: 18-1997-1
SIE 18-2909-9	MANIFOLD GASKET (2/pkg) Replaces: 97498 For: GM V-6 Used with: Manifold: 18-1952-1, 18-1932
SIE 18-2949-9	MANIFOLD GASKET (2/pkg) Replaces: 96306 Barr CHV-47-000 Use with: 18-1997-1
SIE 18-8515	MANIFOLD MOUNTING KIT Crusader GM Small Block V8 305-350cu.in.(Models: 220, 270), GM Big Block V8 454cu.in. (Models: CH350, 454XL) Used with: Elbows: 18-1934, 18-1928, 18-1918

Sierra
Exhaust Gaskets - Mercruiser


18-0897

Part #	Description
SIE 18-0603	MANIFOLD GASKET SET For: Ford 302/351 CID Engines For use with 18-1998-1
SIE 18-0604	MANIFOLD GASKET SET For: GM 305/350 CID Engines For use with 18-1997-1
SIE 18-0897	ELBOW GASKET Replaces: 27-41813 Used with: Riser: 18-1976-1, 18-1970-1
SIE 18-2833-9	ELBOW GASKET (2/pkg) Replaces: 27-997772
SIE 18-2832-1-9	MANIFOLD GASKET (2/pkg) Fits MCM120, 140, 165 (in-line 6 cyl) & Ford & GM V8 engines Replaces: 27-48043, 27-480431
SIE 18-2909-9	MANIFOLD GASKET (2/pkg) For: GM V-6 Used with: Manifold: 18-1952-1
SIE 18-2949-9	MANIFOLD GASKET (2/pkg) Replaces: Barr CHV-47-000 Use with: Manifold: 18-1997-1
SIE 18-4362	ELBOW MOUNTING KIT Replaces: Barr MC20-60426P Use with: Elbow: 18-1971
SIE 18-8505	ELBOW MOUNTING KIT Mercruiser GM V6 229 and 262cu.in. (Models 185 and 205), GM Small Block V8 305-350cu.in. (Models: 200, 228, 230, 260, 898), GM Big Block V8 454cu.in. (Models: 330, 340 and 7.4L) Used with: Riser: 18-1976-1
SIE 18-8520	MANIFOLD MOUNTING KIT Mercruiser GM Small Block V8 305-350cu.in. (Models: 198, 200, 228, 230, 260, 898) Used with: Manifold: 18-1950-1,18-1951-1, 18-1953-2
SIE 18-8554	ELBOW MOUNTING KIT For: 229 and 262 ci V6, 305 and 350 SB V8, 454 Big Block V8. Used with: Riser Kit: 18-1908K and 18-1908 Spacer Riser: 18-1970-1 Manifold: 18-1952-1, 18-1953-2 & 18-1957-1

Sierra
Exhaust Gaskets - Pleasurecraft


18-8504

Part #	Description
SIE 18-0603	MANIFOLD GASKET SET For: Ford 302/351 CID Engines Use with: Manifold: 18-1998-1
SIE 18-0604	MANIFOLD GASKET SET For: GM 305/350 CID Engines Use with: Manifold: 18-1997-1
SIE 18-8504	ELBOW MOUNTING KIT Pleasurecraft Ford Small Block V8 302 and 351cu.in. Used with: Riser: 18-1899
SIE 18-8503	MANIFOLD MOUNTING KIT Pleasurecraft Ford Small Block V8 302 and 351cu.in. Used with: Manifold: 18-1996

Sierra
Exhaust Gaskets - Volvo


18-0476-1

Part #	Description
SIE 18-0476-1	RISER BLOCKOFF GASKET Replaces: Barr 01-0105 Indmar & Marine Power Ford Small Block V8 302-351cu.in. Used with: Riser: 18-1939, 18-1999 & 18-1907
SIE 18-2991-1-9	EXHAUST MANIFOLD GASKET (package of 4) Replaces: 463846, 855383, 855967
SIE 18-8507	ELBOW MOUNTING KIT OMC/Volvo GM Small Block V8 305-350cu.in. Used with: Riser: 18-1909-1
SIE 18-2949-9	MANIFOLD GASKET (2/pkg) Replaces: Barr CHV-47-000 Used with: Manifold: 18-1986-1, 18-1997-1 and 18-1931-1 AQ200, 225, 260, 271, 290, 311
SIE 18-8502	MANIFOLD MOUNTING KIT OMC GM Small Block V8 305-350cu.in. (1979-89) OMC/ Volvo GM Small Block 305-350cu.in. Used with: Manifold: 18-1931-1,18-1902, 18-1903 & 18-1986-1
SIE 18-8511	MANIFOLD MOUNTING KIT Volvo GM Small Block V8 305-350cu.in. (Models: AQ and BB200, 205, 211, 231, 225, 260, 271, 290, 311, 500, 501, 570, 571, 572) Used with: Manifold 18-1931-1

EMP Dry Joint Gaskets


27-14549

Part #	Description
EMP 27-14547	Full Flow Mercury 27-864547A02 / Sierra 18-0721 Fits Mercruiser 2002-Present, V6 and V8
EMP 27-14549	Blocked Flow Mercury 27-864549A02 / Sierra 18-0720 Fits Mercruiser 2002-Present, V6 and V8
EMP 27-14850	Restricted Flow Mercury 27-864850A02 / Sierra 18-0722 Fits Mercruiser 2002-Present, V6 and V8

Sierra Brass Drain Cock



- Used with most OEM manifolds
- 1/4"

SIE 18-4218

Sierra Pipe Plug



Pipe Sealant with Teflon is recommended for use on plug threads

SIE 18-4263 1/8" - 27 NPT

For a complete list of all available items Ask for a Sierra Catalogue



Sierra Crossover Chart

Sierra	Osco	HGE
18-1907 *	2018	HGE 2018 *
18-1908	3320	HGE 3320 *
18-1909-1	50456	HGE 3784
18-1930-2	VO418	HGE 5387
18-1931-1	5805	HGE 5804
18-1932		HGE 6894
18-1935-1	56879	HGE 5384
18-1936		HGE 7037
18-1937 *	8561	HGE 8561
18-1950-1	7234B	HGE 7234 *
18-1951-1	7235B	HGE 7235 *
18-1952-1	9745	HGE 9746
18-1953-2	7114B2	HGE 7114
18-1957-2	9011	HGE 9011
18-1957-2	9011	HGE 9011-A *
18-1971	6351	HGE 6351 *
18-1976-2	4354	HGE 4354
18-1986-1	52374	HGE 4035
18-1997-1	994	HGE 1-83 *
18-1998-1	FL994	HGE 1-81
18-1999	992	HGE 0082

Osco Crossover Chart

Osco	Sierra	HGE
992	18-1999	HGE 0082
994	18-1997-1	HGE 1-83 *
2018	18-1907 *	HGE 2018 *
3320	18-1908	HGE 3320 *
4354	18-1976-2	HGE 4354
5805	18-1931-1	HGE 5804
6351	18-1971	HGE 6351 *
7114B2	18-1953-2	HGE 7114
7234B	18-1950-1	HGE 7234 *
7235B	18-1951-1	HGE 7235 *
8561	18-1937 *	HGE 8561
8759	18-1960-1	HGE 8759 *
9011	18-1957-2	HGE 9011
9011	18-1957-2	HGE 9011-A *
9745	18-1952-1	HGE 9746
50456	18-1909-1	HGE 3784
54870		HGE 4870 *
56879	18-1935-1	HGE 5384
52374	18-1986-1	HGE 4035
60252	18-4009	HGE 0252
FL994	18-1998-1	HGE 1-81

* Denotes non-stock item

Barr/OEM Crossover Chart

Barr/OEM	Osco	Sierra	HGE
1-54870	54870		HGE 4870 *
1-60252	60252	18-4009	HGE 0252
20-0082	992	18-1999	HGE 0082
20-0102	2018	18-1907 *	HGE 2018 *
AS7K2C	AS7-K2C		HGE 7K2C
CHV-1-83	994	18-1997-1	HGE 1-83 *
FM-1-83	FL994	18-1998-1	HGE 1-81
MC-1-58759	8759	18-1960-1	HGE 8759 *
MC-1-77234	7234B	18-1950-1	HGE 7234 *
MC-1-77235	7235B	18-1951-1	HGE 7235 *
MC-1-87114	7114B2	18-1953-2	HGE 7114
MC-1-89011	9011	18-1957-2	HGE 9011
MC-1-89011	9011	18-1957-2	HGE 9011-A *
MC-1-99746	9745	18-1952-1	HGE 9746
MC-20-12076	2076	18-1975-1	HGE 2076
MC-20-44354	4354	18-1976-2	HGE 4354
MC-20-76351	6351	18-1971	HGE 6351 *
MC-27-47487			HGE 1184
MC-29-861493			HGE 1493
OMC-1-914035	52374	18-1986-1	HGE 4035
OMC-20-913784	50456	18-1909-1	HGE 3784
VO-1-824532			HGE 4532 *
VO-1-835804	5805	18-1931-1	HGE 5804
VO-1-855387	VO418	18-1930-2	HGE 5387
VO-20-855384	56879	18-1935-1	HGE 5384
VO-20-825599			HGE 5599
23518123 OEM			HGE 1086 *
44187A1 OEM			HGE 0100-000 *
86412T01 OEM			HGE 4612
98562A6 OEM	8561	18-1937 *	HGE 8561
864309T02 OEM			HGE 4309
864591T02 OEM			HGE 4591
864929A3 OEM		18-1847K	HGE 4929PR
865735A02 OEM	5735	18-1843 *	HGE 5735
913394 OEM			HGE 3394 *
986041 OEM			HGE 6041 *
845261 OEM			HGE 5261
845528 OEM			HGE 5528
856894 OEM		18-1932	HGE 6894
857037 OEM		18-1936	HGE 7037
858481 OEM			HGE 8481 *
859962 OEM			HGE 9963
861289 OEM			HGE 1289
3857656 OEM		18-1848	HGE 7656
124070 OEM			HGE 3520

BARR	DETROIT DIESEL	MERCRUISER	OMC	VOLVO	YANMAR

HGE Marine Engine Products

WHY ARE ALUMINUM ALLOY MANIFOLDS MORE PREFERABLE THAN CAST IRON?

A. The persistent problem of corrosion can be overcome.
B. The weight of the traditional cast iron manifold is greatly reduced (aluminum is 1/5th the weight of iron).
C. The cost of iron ore remains high due to demand from heavy construction, but demand for aluminum ore has been steadily declining. Aluminum is more economical.

HGE Aluminum Manifold Mercruiser V6



- Aluminum construction
- Fits: 229 cu.in. and 262 cu.in. engines Model 185R, 185MR, 205R and 205MR
- Includes mounting kit

HGE 9746-A Manifold
Accessories:
HGE 4354-AM Riser

Replaces:
Barr #..... MC-1-99746
GLM #..... 51220,51225
Marine Power # 0996-000
Mercruiser #..... 99745, 99746
Osco # 9745
Sierra # 18-1952-1

HGE Aluminum Manifold Mercruiser V8 Small Block



- Aluminum construction
- GM Small Block V8 305 - 350 cu.in. engine Models 220, 228, 230, 260 and 898
- Includes mounting kit

HGE 7114-AM Manifold
Accessories:
HGE 4354-AM Riser

Replaces:
Barr #..... MC-1-87114
GLM #..... 51230, 51235
Marine Power # ... 0994-100
Mercruiser #..... 87114, 860246
Osco # 7114B2
Sierra # 18-1953-1

HGE Aluminum Manifold Mercruiser V6, V8 Riser



- Aluminum construction
- Fits GM center riser style V8 manifold
- Includes mounting kit

HGE 4354-AM

Replaces:
Barr #..... MC-20-44354
GLM #..... 51140,51145
Marine Power # .. 0992-400
Mercruiser #..... 44354, 807914, 807988
Osco # 4354
Sierra # 18-1976-1

HGE Ford Small Block V8 Generic Manifold



- Ford center riser style V8 manifold
- Ford small block V8: 302-351 C.I.D. V8 engines
- Includes mounting kit

HGE 1-81 Manifold
Accessories:
HGE 0082 Riser

Replaces:
Barr # FM-1-83
GLM # 56250
Osco # FL-994
Sierra # 18-1998-1

HGE Mercruiser V6 Manifold



- Mercruiser GM V6
- 229 cu.in. and 262 cu.in. engines Model 185R, 185MR, 205R and 205MR
- Includes mounting kit

HGE 9746 Manifold
Accessories:
HGE 4354M 4" Riser, 7°
HGE MC-20-98502 3" Riser, 0°

Replaces:
Barr #..... MC-1-99746
GLM #..... 51220
Marine Power # ... 0996-000
Mercruiser #..... 99745, 99746
Osco # 9745
Sierra # 18-1952-1

HGE Mercruiser V8 Small Block Manifold



- Mercruiser V8
- GM Small Block V8 305 - 350 cu.in. engine Models 220, 228, 230, 260 and 898
- Includes mounting kit

HGE 7114 Manifold
Accessories:
HGE 4354M 4" Riser, 7°
HGE MC-20-98502 3" Riser, 0°

Replaces:
Barr #..... MC-1-87114
GLM #..... 51230
Marine Power # ... 0994-100
Mercruiser #..... 87114, 860246
Osco # 7114B2
Sierra # 18-1953-1

HGE Mercruiser V8 Big Block Manifold



- Mercruiser GM V8
- 330, 340 and 454 Magnum Inboard and stern-drive unit
- Includes mounting kit

HGE 9011 Manifold
Accessories:
HGE 4354M 4" Riser
HGE MC-20-98502 3" Riser, 0°

Replaces:

Barr #	MC-1-89011
GLM #	51240
Marine Power #	0991-100
Mercruiser #	89011, 807078
Osco #	9011
Sierra #	18-1957-1

HGE Mercruiser V6 Dry Joint Manifold



- Mercruiser SB V6
- GM 4.3 V6 engines
- Includes mounting kit

HGE 4612M Manifold
Accessories:
HGE 4309M Riser
HGE 4929PR 3" dry joint spacer

Replaces:
Mercruiser # 864612T01

HGE Mercruiser V8 Dry Joint Manifold



- Mercruiser SB V8
- GM 5.0, 5.7 & 6.2 V8 engines
- Includes mounting kit

HGE 5735M Manifold
Accessories:
HGE 4309M Riser
HGE 4929PR 3" dry joint spacer
HGE MC-20-864591 Riser

Replaces:
Mercruiser #.... 865735A02
Barr Marine #.. MC-1-865735
Mallory..... 9-40508

HGE Mercruiser 3.0L



- Mercruiser 4-Cylinder 181 C.I.D. 140 HP 3.0L and 3.0 LX Models
- Includes mounting kit

HGE 1235
Accessories:
HGE 2076 Riser

Replaces:
Mercruiser 860235
..... 806867A8
Barr MC-1-860235
Sierra 18-1966

HGE Mercruiser V6, V8 Centre Riser



- 4" exhaust outlet, 7° down angle
- Includes mounting kit

HGE 4354M

Replaces:
Barr #..... MC-20-44354
GLM #..... 51140
Marine Power # .. 0992-400
Mercruiser #..... 44354, 807914, 807988
Osco # 4354
Sierra # 18-1976-1

HGE Mercruiser Short Dry Joint Centre Riser



- Dry Joint, 7° down angle
- Includes mounting kit

HGE 4309M

Replaces:
Mercruiser #.....864309T02

HGE V8 Centre Riser



- 3" outlet, 10° down angle. Use 3" i.d. flexible exhaust hose which facilitates connection to existing exhaust pipes
- Includes mounting kit

HGE 0082

Replaces:
Barr #.....20-0082
GLM #.....56110
Marine Power # ...0992-000
Osco # 992
Sierra #.....18-1999

HGE Mercruiser Tall Dry Joint Centre Riser



- Mercruiser - Riser V8-5.0L, 5.7L AND 6.2L 'Dry Joint'
- Direct replacement exhaust riser/elbow
- Riser will replace the equivalent part number used on 4.3L Models as well

HGE MC-20-864591

Replaces:
Mercruiser # ... 864591T02

HGE Mercruiser Dry Joint High Riser



- 14° down angle
- Includes mounting kit

HGE 4591

Replaces:
Barr #..... MC-20-864591
Mercruiser # ... 864591T02

HGE Mercruiser Riser



- Fits to following manifolds: Mercruiser 860235A03, 806867A12, 99798A 9, 816329A 3, Barr MC-1-99798, MC-1-95862, MC-1-96705, Sierra 18-1956-1, 18-1955-1, 18-1954-1
- Includes mounting kit

HGE 2076

Replaces:
Barr #..... MC-20-12076
Mercruiser #..... 12076
Osco # 2076
Sierra # 18-1975

HGE Mercruiser 470 Cylinder Elbow / Reservoir



- Fits to following engines: Mercruiser 224 I/L4 Engine, 165/170/180/190/470/3.7L
- Fits to following manifolds:
- HGE 6219 Mercruiser Aluminum Exhaust Manifold
- 816219A 5 Mercruiser Aluminum Exhaust Manifold
- Includes mounting kit

HGE 8561

Replaces:
Mercruiser #..... 98562A6
Sierra # 18-1937
Mallory # 9-40551

HGE OMC/Volvo GM V6 Manifold



- Fits Volvo v6 4.3L engine, 1995 and up, OMC v6 4.3L engine, 1991 and up
- Includes mounting kit

HGE 7656 Manifold
Accessories:
HGE 3784 Riser

Replaces:
Volvo # 3852338, 3857656

HGE OMC/Volvo GM V8 Small Block Manifold



- Volvo 305-350 C.I.D. GM small block V8 engine, year 1994 and up
- Includes mounting kit

HGE 4035 Manifold

Accessories:

HGE 3784 Riser

Replaces:
Barr #..... OMC-1-914035
GLM #..... 51430
OMC # 914035, 3852374
Osco # 57579
Sierra # 18-1986-1
Volvo #..... 3852374-2

HGE OMC/Volvo GM V6/V8 Centre Riser



- Fits to following manifolds: HGE 4035 and 7656 exhaust manifolds
- Includes mounting kit

HGE 3784

Accessories:

HGE 43781 Gasket

Replaces:
Barr #.....OMC-20-913784
GLM #.....51330
OMC #.....913784, 3855270, 3850456
Osco #.....50456
Sierra #.....18-1909
Volvo #.....3855270-9

HGE Volvo 4 Cylinder Manifold



- Fits Volvo 2.3L and 2.5L 4-Cylinder engine. Models AQ120B, 125A, 131A B C D, 140A, 145A BB,
- 151A/B/C, 230A/B, 250A/B.
- Includes mounting kit

HGE 5387

Replaces:
Barr #.....VO-1-855387
GLM #.....51610
Osco #.....VO-418
Sierra #.....18-1930-1
Volvo #.....834438-4, 855387-7

HGE Volvo V6 Manifold



- Volvo V6 4.3L Engine Manifold 1993 & before
- Fits Volvo V6 4.3L engine 1993 & before, Model AQ150, AQ150A, AQ150B, AQ175A, AQ205A,
- AQ430A, AQ430B, AQ431A, AQ431B, AQ432, AQ434
- Includes mounting kit

HGE 6894M Manifold

Accessories:

HGE 7037M Riser

Replaces:
Volvo #.....856894-1
GLM #.....51640
Sierra #.....18-1932

HGE Volvo GM V8 Small Block Manifold



- Fits Volvo GM V8 small block 305 - 350 cu. in. engines. Models AQ and BB 200, 205, 211, 231, 225,
- 260, 271, 290, 311, 500, 501, 570, 571 and 572
- Includes mounting kit

HGE 5804 Manifold

Accessories:

HGE 5384 Riser

Replaces:
Barr #..... VO-1-835804
GLM #..... 51630
Marine Power # .. 0999-772
Osco # 5805
Sierra #..... 18-1931-1
Volvo #..... 835804, 835805,
..... 835806, 856883

HGE Volvo V6 Centre Riser



- This riser fits Volvo V-6 engine model AQ175
- Includes mounting kit

HGE 7037M

Replaces:
Volvo #..... 857037-6
GLM #..... 51520
Volvo V6 Riser Sierra # 18-1936

HGE Volvo GM V8 Small Block Center Riser



- 3-3/4" (95mm) exhaust outlet, 30° down angle riser
- Includes mounting kit

HGE 5384

Replaces:
Barr #.....VO-20-855384
GLM #.....51510
Marine Power # ...0999-773
Osco #.....56879
Sierra #.....18-1935-1
Volvo #.....855380, 855384
.....856879, 856891

HGE Volvo 4 Cylinder Exhaust Bend



- Exhaust bend for Volvo 4-Cylinder log style manifold
- Includes mounting kit

HGE 5599

Replaces:
Barr #..... VO-20-825599
Volvo #..... 825599-4

HGE Volvo Diesel Elbow Water Connector



- The connector fits to following elbows: Volvo Elbow Penta Diesel # AQAD40, AQAD40B, TAMD40A, TAMD40B
- Includes mounting kit

HGE 5528

HGE Volvo Penta Diesel Elbows



- Fits Volvo Engine: TAMD31P/L/M, TAMD41P/M/H.
- Replaces: Volvo# 859963

HGE 9963



- Fits Volvo Engine: TAMD300, TAMD43P, TAMD42WJ / K22
- Replaces: Volvo# 861289

HGE 1289



- Fits Volvo Engine: TAMD30, TAMD40, TMD40A and AQD40A
- Replaces: Volvo# 845261, Sierra 18-4007

HGE 5261

HGE Yanmar & Detroit Diesel Elbow



- Fits Yanmar 1GM, 2GM, 3GM,
- 1GM10, 2GM10, 3GM30,3HM, 3HM35F
- Replaces: Yanmar # 124070

HGE 3520M

HGE Exhaust Elbow



- Mercruiser 4" to 3" elbows
- Pair

HGE 7153-APR

HGE Spacer



- 3" Spacer block
- Fits Mercruiser manifolds HGE 7114, HGE 9746 and HGE 9011
- Includes mounting kit

HGE 3320PR Pair

Replaces:
Barr #..... MC-20-93320A3
Mercruiser #..... 93320
Osco # 3320
Sierra #..... 18-1908

HGE End Plate



- End Cap/Connector (front), 1" hose. Fits Mercruiser Log Style manifolds HGE 7234, HGE 7235 and HGE 8759.
- Includes mounting kit

HGE 0252

Replaces:
Barr #..... 1-60252
GLM #..... 51010
Mercruiser #..... 60252
Osco # 60252
Sierra #..... 18-4009

HGE Water Fittings



- 45° Fitting
- Stainless steel 3/4" NPT to 1" hose fitting

HGE 0045



- 90° Fitting
- Stainless steel 3/4" NPT to 1" hose fitting

HGE 0090



Replaces:
Barr #.....MC-29-861493
Sierra #.....18-1910
Mercruiser #.....861493A

HGE Mercruiser 3.0L Engine Thermostat Housing Kit

- GM 3.0L/182 CID 4-Cylinder Engine

HGE 1493

HGE Engine Mounts



- 135 kg / 300 lbs
- H: 4.75" x W:5.25" x D: 2.85"
- Hole centres: 4"

- Replaces: DF-206

HGE 1421 5/8" -18UND post

- Replaces: DF-216

HGE 1422 3/4" -16UND post

HGE Full Circle Damper



- Replaces: AS7K2C
- 13.25" diameter for 26-spline transmissions
- Engines up to 430 cu. in.

HGE 7K2C

HGE Alternator Bracket



- Alternator Bracket
- V6-V8
- Replaces: Barr MC-27-93175

HGE 1184

HGE Gaskets

Manifold Gaskets

- For 7114, 7114-A

HGE 0000



- For 1-81

HGE 10001



- For 9011, 9011-A

HGE 46820



- For 9746-A

HGE 99757



Riser Gaskets

- For 008 (closed) for 0082, 2018

HGE 10105



- For 008 (open) for 0082

HGE 10107



- (open) for 7037

HGE 35908



- (closed) for 4354, 4354-A

HGE 41811



- (restrictor) for 4354, 4354-A

HGE 41813



HGE Mercruiser Dry Joint Gasket Kit

HGE 8461

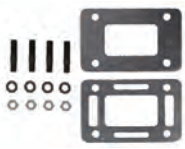
Content	Qty
S/S plate gasket	1
Closed seal ring (45490)	2
Open seal ring (45470)	2



HGE Mounting Kits

HGE 0082MK

Content	Qty
Riser Gasket (open) HGE 10107	1
Riser Gasket (close) HGE 10105	1
Stud 1-3/4" Long, (one end 3/8"-16UNV; one end 3/8"-24UNF)	4
Nut	4
Lock Washer	4



HGE Mounting Kits

HGE 3784MK

Content	Qty
Riser Gasket (open) HGE 43783	1
Bolt 3/8"-16UNC x 7-3/8"	4
Flat Washer	4
Lock Washer	4
Steel Plug 3/4" NPT	1
Steel Plug 1/2" NPT	2



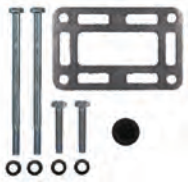
HGE 4354MK

Content	Qty
Riser Gasket (close) HGE 41811	1
Riser Gasket (restrictor) HGE 41813	1
Bolt 3/8" -16UNC x 5-7/8"	4
Lock Washer	4
Steel Plug 3/4" NPT	1



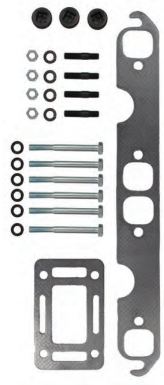
HGE 5384MK

Content	Qty
Riser Gasket (open) HGE 35908	1
Bolt 5/16"-18UNC x 5-1/8"	2
Bolt 5/16"-18UNC x 1-3/4"	2
Lock Washer	4
Steel Plug 3/4" NPT	1



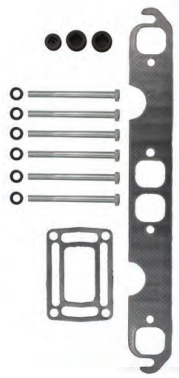
HGE 1-83MK

Content	Qty
Manifold Gasket HGE 0000	1
Riser Gasket (open) HGE 10107	1
Bolt 3/8"-16UNC x 3-1/2"	6
Stud 1-3/4" Long, (one end 3/8"-16UNV; One end 3/8"-24UNF)	4
Lock Washer	10
Steel Plug 3/4" NPT	3



HGE 4035MK

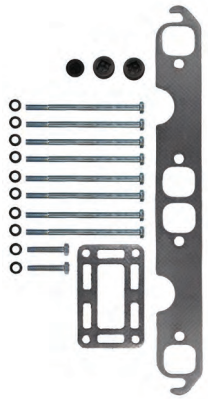
Content	Qty
Manifold gasket HGE 0000	1
Riser Gasket (open) HGE 43783	1
Bolt 3/8"-16UNC x 4-3/8"	6
Lock Washer	6
Steel Plug 3/4" NPT	2
Steel Plug 1/2" NPT	1



HGE Mounting Kits

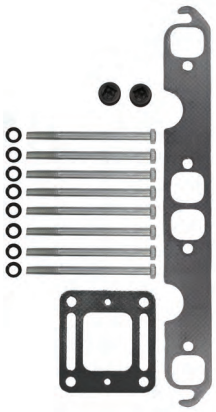
HGE 5804MK

Content	Qty
Manifold Gasket HGE 0000	1
Riser Gasket (open) HGE 35908	1
Bolt 3/8"-16UNC x 5-1/8"	8
Bolt 5/16"-18UNC x 1-3/4"	2
Lock Washer	10
Steel Plug 3/4" NPT	2
Steel Plug 1/2" NPT	1



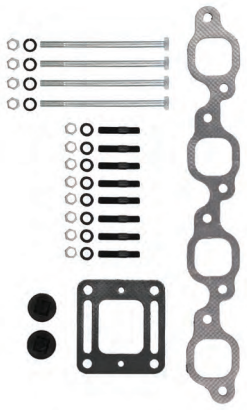
HGE 7114MK

Content	Qty
Manifold Gasket HGE 0000	1
Riser Gasket (restrictor) HGE 41813	1
Bolt 3/8" 16UNC x 5"	8
Lock Washer	8
Steel Plug 3/4" NPT	2



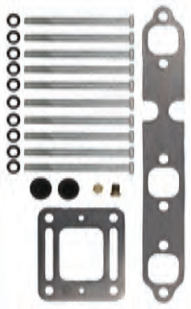
HGE 9011MK

Content	Qty
Manifold Gasket HGE 46820	1
Riser Gasket (restrictor) HGE 41813	1
Stud 1-3/4" Long, (one end 3/8"-16UNV; One end 3/8"-24UNF)	8
Bolt 3/8"-16UNC x 6"	4
Nut	12
Lock Washer	12
Steel Plug 3/4" NPT	2



HGE 9746MK

Content	Qty
Manifold Gasket HGE 99757	1
Riser Gasket (restrictor) HGE 41813	1
1/8" Brass Plug	2
Bolt 3/8"-16UNC x 5"	10
Lock Washer	10
Steel Plug 3/4" NPT	2



vetus

CREATOR OF BOAT SYSTEMS

QUALITY PRODUCTS BACKED BY WORLD-WIDE SUPPORT

VETUS designs reliable systems to make boating easy and carefree. We deliver a wide range of high-quality products backed by global expertise and support so you can spend more time focusing on what really matters.









WWW.VETUS.COM/USA

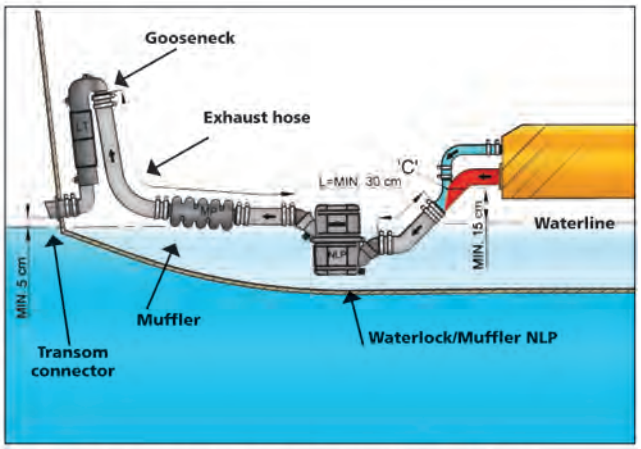
A WET EXHAUST SYSTEM

A 'dry' exhaust system causes a tremendous amount of noise and diesel exhaust smell. A diesel engine can easily produce an exhaust gas temperature of 1112°F (600°C) or more. However, reduction of exhaust gas temperature to about 104 or 122°F (40 or 50°C) can be achieved by injecting the engine cooling water into the exhaust line. This is how a "wet" exhaust system works. In addition, the typical diesel exhaust smell is also considerably reduced.

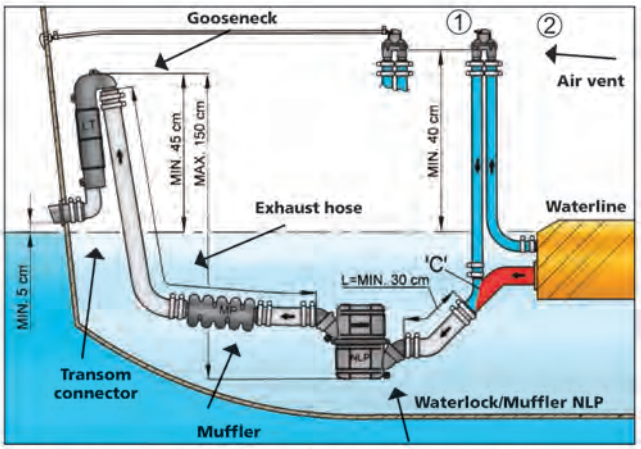
PREVENTING WATER RUNNING BACK TO THE ENGINE

Installation above or below waterline

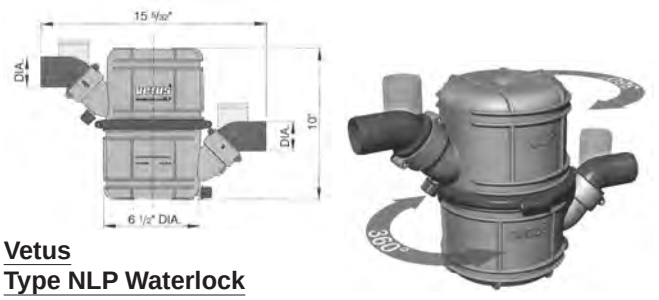
The cooling water injection point is crucial. If the water injection point is 6" (15 cm) or more above the waterline, the cooling water can be injected directly into the exhaust system. But when it is less than 6" (15 cm) above or even below the waterline, the cooling system can siphon water through the intake when the engine is turned off. Water can fill up the exhaust system and get back into the engine through the exhaust valves. This can be prevented by using a breather hose (1) in the cooling water system or an air vent (2).



Exhaust system with the water injection point "C" **6" (15 cm) or more** above the waterline.



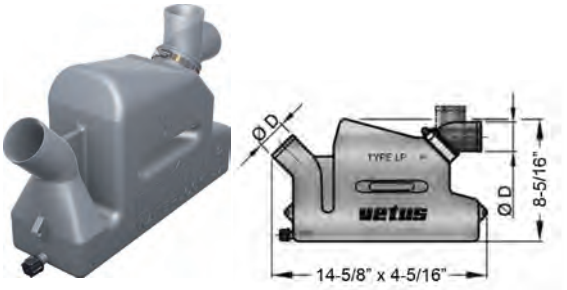
Exhaust system with the water injection point "C" **less than 6" (15 cm)** above the waterline.



Vetus
Type NLP Waterlock

NLP waterlocks are of dual stage construction, featuring upper and lower chambers with a horizontal partition plate and a riser tube through the centre.
The top chamber may be rotated through approx 300° and both the inlet and the outlet connectors can rotate through 360°, installation of the exhaust assembly even in confined engine spaces is greatly simplified.

VTS NLP50	2"

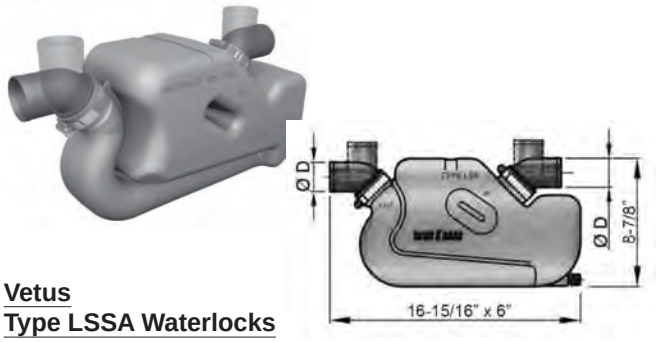


Vetus
Type WLOCKLR Waterlocks

Once the engine of your boat has stopped, with the correctly chosen capacity, VETUS waterlocks will make sure that water will not run back into the engine. All VETUS waterlocks are provided with a drain plug for winter storage.

- Recommended when the total hose length does not exceed 4 metres

VTS WLOCKL40R	1-1/2" (40mm) OD hose
VTS WLOCKL45R	1-3/4" (45mm) OD hose
VTS WLOCKL50R	2" (50mm) OD hose

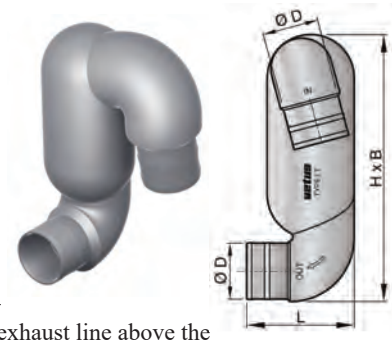


Vetus
Type LSSA Waterlocks

Sometimes the exhaust line is so long that an extra large capacity waterlock is required to prevent water from running back into the engine. The VETUS waterlock type LS is the ideal solution.

- Waterlock for boats sailing in rough waters
- 360º rotating inlet and outlet stubs
- Comes with 1 securing strap

VTS LSS40A	1-1/2" (40mm) OD hose
VTS LSS45A	1-3/4" (45mm) OD hose
VTS LSS50A	2" (50mm) OD hose

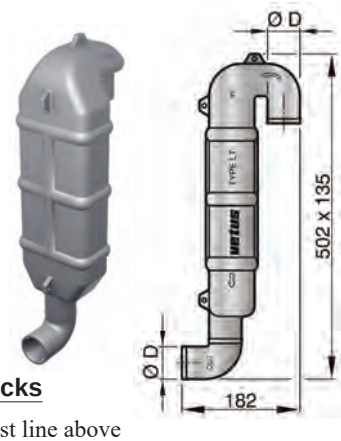


Vetus
Type LT Goosenecks

The gooseneck raises the exhaust line above the waterline and provides additional noise reduction.

- Supplied with stainless steel mounting brackets

Part #	H x B	L	D
VTS LT6565	19-3/4" x 9-1/4"	6-1/8"	3" (65mm)
VTS LT7575	19-3/4" x 9-1/4"	6-1/8"	3" (75mm)
VTS LT90110	20-3/4" x 11-7/8"	8-1/4"	3-1/2" (90mm)
VTS LT102	20-3/4" x 11-7/8"	8-1/4"	4" (100mm)
VTS LT110110	20-3/4" x 11-7/8"	8-1/4"	4-5/16" (110mm)
VTS LT127	22-1/4" x 15"	10-7/8"	5" (127mm)
VTS LT152	22-1/4" x 15"	10-7/8"	6" (152mm)



Vetus
Type WLOCKLT Goosenecks

The gooseneck raises the exhaust line above the waterline and provides additional noise reduction.

- 360° revolving inlet connection which greatly facilitates the installation
- Provided with a plug for draining during winter time

VTS WLOCKLT40 1-1/2" (40mm) OD hose
VTS WLOCKLT45 1-3/4" (45mm) OD hose
VTS WLOCKLT50 2" (50mm) OD hose
VTS WLOCKLT60 2-3/8" (60mm) OD hose

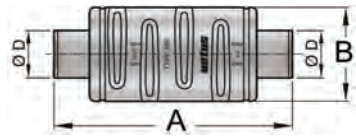


Vetus
Airvent With Valve

Self contained, anti syphon device with reliable pressure valve.

- Air bleed connection rotates through 360°
- H: 6.3" x W: 3.8" x D: 2.0"
- Suitable for 1/2", 3/4", 1" and 1-1/4" (13, 19, 25 and 32 mm) internal hose connections

VTS AIRVENTV

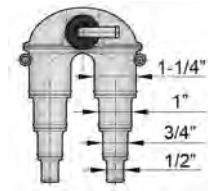




Vetus
Type DEMPMP Mufflers

This muffler creates additional mixing of the water inside the exhaust line which results in even better noise reduction.

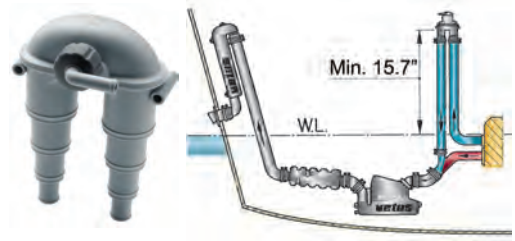
Part #	A	B	D
VTS DEMPMP40	14-1/2" x 4-1/4"	6-1/4"	1-1/2" (40mm)
VTS DEMPMP45	14-1/2" x 4-1/4"	6-1/4"	1-3/4" (45mm)
VTS DEMPMP50	14-1/2" x 4-1/4"	6-1/4"	2" (50mm)
VTS DEMPMP60	14-1/2" x 4-1/4"	6-1/4"	2-3/8" (60mm)
VTS DEMPMP75	17-15/16" x 5-1/8"	7-1/16"	3" (75mm)
VTS DEMPMP90	17-15/16" x 5-1/8"	6-1/4"	3-1/2" (90mm)
VTS DEMPMP100	22-13/16" x 6-5/8"	6-1/4"	4" (100mm)



Vetus
Type Anti-Siphoning Vents

When the cooling water injection point is less than 6" above the waterline, the cooling system can siphon water through the intake when the engine is turned off.

- Air bleed connection rotates through 360°
- H: 5.24" x W: 3.8" x D: 2.7"
- Suitable for 1/2", 3/4", 1" and 1-1/4" (13, 19, 25 and 32 mm) internal hose connections

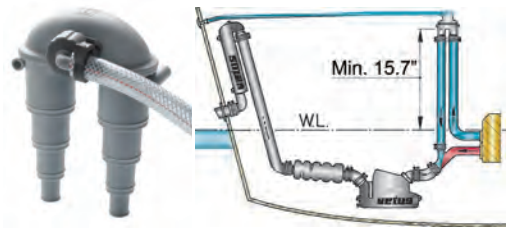


Type ASDV

This air vent is made of synthetic material and has a silicone anti-siphon pressure valve and is self-contained.

- Ideal for toilets or holding tanks which are installed below the waterline
- Valve can be maintained without removing the vent from the wall and no tools are required

VTS ASDV



Type ASDH

This air vent has a hose connection to the outside of the hull and has a constant bleed of cooling water through the hose while the engine is running.

- Comes with a skin fitting, hose clamps and 4 metres of hose

VTS ASDH

Product Selection

Why use fiberglass reinforced plastics to make wet marine mufflers? FRP will not corrode or deteriorate when exposed to gasoline or diesel fumes mixed with salt or fresh water. Electrolysis and welds in stainless steel, which often cause early failure, are eliminated. Resistance to higher temperatures will not result in warping or melting often observed in some rubber or plastic mufflers.

The right muffler for any given vessel should be determined by answering the following basic questions:
1. Engine location, 2. Exhaust System Size, and 3. Noise Reduction

1. ENGINE LOCATION
Engines located at or below the loaded water line (LWL) require some type of a lift muffler, (Vernalift). Engines located aft or mid ship and above the LWL can utilize a muffler of the Vernatone family.

2. EXHAUST SYSTEM SIZE (Diameter)
Larger engines with higher horsepower require larger diameter exhaust systems and more space. The muffler and accompanying tubing, hose and fittings must be large enough to carry the cooling water and gases through the system without creating back pressure in excess of the engine manufacturer's recommendations. Centek's engineering expertise assures accurate sizing.

3. NOISE REDUCTION
Muffler size and internal design will determine the amount of noise reduction achievable in a given installation. Larger mufflers normally provide better silencing than small mufflers. Space limitations for installations will often determine the size and type of muffler that can be used.

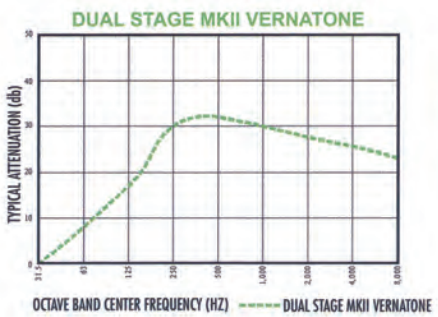
EXHAUST SYSTEM SIZE
The size of the wet marine exhaust muffler is determined by the engine size (H.P.) and the engine manufacturer's allowable back pressure. Diesel engines are particularly sensitive to back pressure.

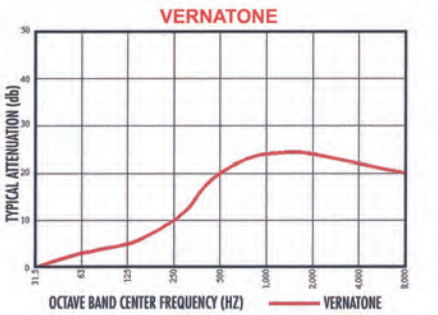


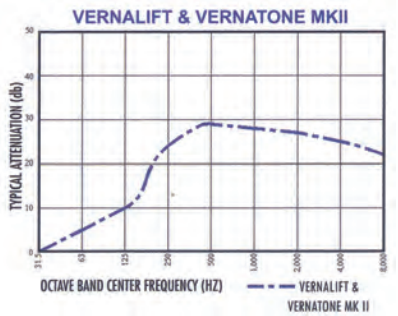
In & Out Size	Maximum HP	
Dia.	Gasoline	Diesel
1.50 or 1.63	30	10
2"	60	25
2.5"	110	40
3"	160	60
3.5"	220	85
4"	280	125
4.5"	320	170
5"	370	210
6"	440	280
8"		420
10"		680
12"		900
14"		1150

NOTE: For V-Block engines where twin exhaust lines are desired, divide the H.P. by two and then match to the appropriate size.

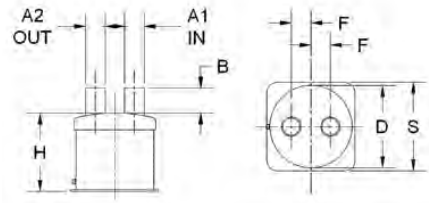
The attenuation curves as shown are typical only for the products as shown and meant to display their comparative acoustical properties. Actual results will depend highly on the engine to which the product is applied and the operating parameters of that engine.







Centek Vernalift Mufflers



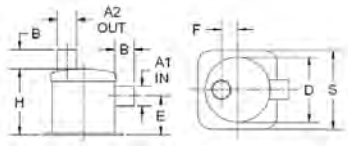


The lift muffler was developed for installation in boats where the engine or genset is below the (LWL) and the engine gases had to be lifted above the water line to be drained. Product line for large gasoline and diesel power plants with ratings to 2,000 hp. VERNALIFT mufflers exceed ABYC requirements for generator applications and are ABS Type Certified.

Top Inlet/Top Outlet

Part #	A 1&2	B	D	E	H	S
CEN 1500009	2"	2.5"	8.4"	2"	8"	9"
CEN 1500065 *	4"	4"	12.3"	2.75"	12"	12"

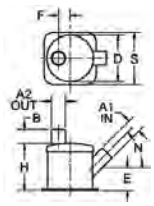
* Special Order





Side Inlet/Top Outlet

Part #	A 1&2	B	D	E	F	H	S
CEN 1500071	1.5"	2.5"	8.4"	4.7"	2"	8"	9"
CEN 1500020	1.6"	2.5"	8.4"	4.7"	2"	8"	9"
CEN 1500026	2"	2.5"	8.4"	4.7"	2"	8"	9"
CEN 1500027	2"	2.5"	10"	6.5"	2"	10.2"	10.5"
CEN 1500034	3"	3"	10"	6.5"	2.5	10.2"	10.5"
CEN 1500085	3"	3"	12.3"	8"	2.7"	12"	12"
CEN 1500088 †	4"	4"	12.3"	7.5"	2.7"	12"	12"
CEN 1500091 †	5"	5"	12.3"	6"	2.7"	12"	12"
CEN 1500092 †	6"	5"	16.2"	8.7"	4"	16"	17"
† Square Bases							

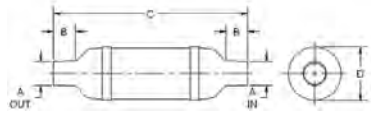




Side Angle Inlet/Top Outlet

Part #	A 1&2	B	D	E	F	H	N	S
CEN 1500223	1.5"	2.5"	8.4"	4.4"	2.5"	8"	45°	9"

Centek Vernatone Round Mufflers



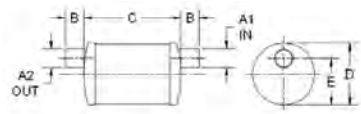


The Vernatone is carefully engineered to minimize back pressure while providing excellent exhaust noise reduction. The all fibreglass muffler will not corrode or deteriorate when exposed to fresh or salt water in combination with either diesel or gasoline exhaust fumes. A Vernatone is available for every type of marine engine installation. OEM builders use them for primary propulsion engines where the engine is above the water line. Vernatone exhaust mufflers are available for engine ratings from 5 hp to 2,000 hp.

Part #	A	B	C	D
CEN 1000104	3"	3.5"	25.8"	7.1"
CEN 1000106	4"	3.5"	33.7"	9"
CEN 1000108 *	5"	4.4"	38.7"	11"
CEN 1000111	6"	5"	41.5"	12.2"
CEN 1000119 *	8"	6"	52.75"	16.13"

* Special Order - may have stock

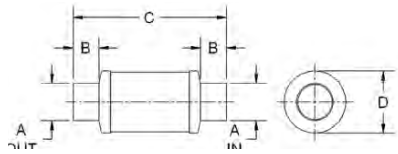
Centek Vernalift Inline Mufflers





Part #	A 1&2	B	C	D	E
CEN 1500042	2.0"	2.0"	10.5"	6.36"	4.88"
CEN 1500051	3.0"	3.0"	17.5"	10.04"	7.52"

Centek Minimax Mufflers

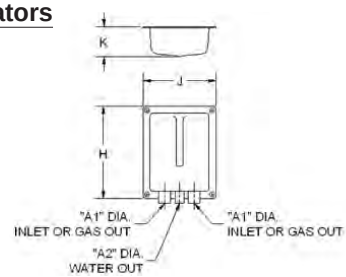




Part #	A	B	C	D
CEN 1050300	3.0"	2.5"	13.75"	6.38"
CEN 1050350	3.5"	2.5"	14.75"	6.38"

Centek Generator Separators





This water separator is used with the VERNALIFT muffler on DIESEL ONLY gensets and small auxiliary engines. The water drain from the GEN-SEP can be positioned just below the water line eliminating water splash. This is especially important for night time generator operations.

Part #	A 1	B 2	H	J	K
CEN 1020150	1.5"	1.25"	15.6"	12.4"	5"
CEN 1020200	2"	1.5"	15.6"	12.4"	5"

Centek Exhaust Tubing

VERNATUBE exhaust tubing is filament wound with resin impregnated continuous rovings for optimum strength. Synergistic fillers are used with the newest fire retardant resins for fire ratings which exceed the requirements for "self-extinguishing" by ASTM-D 635 and UL 94V-0. VERNATUBE can be used with gasoline or diesel wet marine exhaust systems. VERNATUBE products carry the UL approved label and are listed by Underwriter's Laboratories Marine.

- Comes in 10' lengths
- Sold by the foot

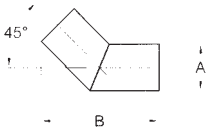
CE

Part #	Nominal O.D.	Wall Thickness
CEN 1100525	1.0"	.104"
CEN 1100521	1.5"	.105"
CEN 1100512	2.0"	.125"
CEN 1100501	2.5"	.128"
CEN 1100502	3.0"	.130"
CEN 1100503	3.5"	.135"
CEN 1100504	4.0"	.138"
CEN 1100505	4.5"	.140"
CEN 1100506	5.0"	.144"
CEN 1100507	6.0"	.148"
CEN 1100508	8.0"	.154"
CEN 1100509 *	10"	.155

* Special Order - may have stock

Centek Exhaust System Fittings

The OD's are manufactured to match our other components and are compatible with approved marine exhaust hose.

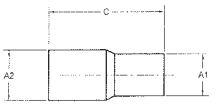


45° Elbows

Part #	Nom.O.D. A	Length B
CEN 1200217	1.5"	6.0"
CEN 1200214	1.63"	6.0"
CEN 1200192	2.0"	6.75"
CEN 1200215	2.5"	7.75"
CEN 1200109	3.0"	8.50"
CEN 1200111	3.5"	10.25"
CEN 1200112	4.0"	10.25"
CEN 1200113	5.0"	13.63"
CEN 1200114	6.0"	15.38"

► Also See Exhaust Hose pg 10-006 to 008

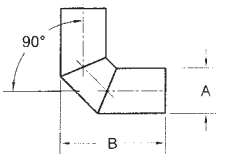
Centek Exhaust System Fittings



Reducer Couplings

Part #	O.D. A	A2	C
CEN 1200410	1.5"	2.0"	6.2"
CEN 1200264	2.0"	3.0"	8.0"
CEN 1200270	2.5"	3.0"	8.5"
CEN 1200161	3.0"	3.5"	9.5"
CEN 1200170	3.0"	4.0"	10.0"
CEN 1200222	3.5"	4.0"	10.5"
CEN 1200223	4.0"	5.0"	12.0"

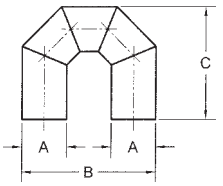
Centek Exhaust System Fittings



90° Elbows

Part #	Nom. O.D. A	Length B
CEN 1200202	1.5"	5.13"
CEN 1200201	1.63	5.13"
CEN 1200200	2.0"	5.75"
CEN 1200195	2.5"	6.38"
CEN 1200171	3.0"	7.5"
CEN 1200189	3.5"	9.0"
CEN 1200157	4.0"	9.38"
CEN 1200175	5.0"	12.25"
CEN 1200162	6.0"	14.00"
CEN 1200197	8.0"	22.50"

Centek Exhaust System Fittings

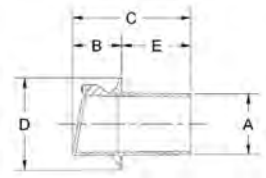


180° Return

Part #	O.D. A	Width B	Height C
CEN 1200353 *	1.5"	4.5"	3.75"
CEN 1200333	2.0"	6.0"	5.75"

* Special Order

Centek Exhaust Thru Hulls With Flappers

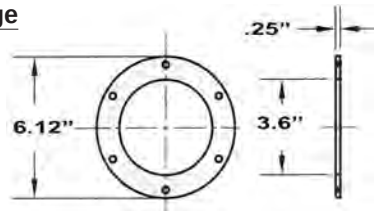




Centek exhaust fittings are lightweight, strong, non-corroding, and durable. All exhaust system fittings are fibreglass and made of the same fire retardant materials used in the UL listed VERNATUBE filament wound tubing. Our fittings are easy to install when repairing, re-powering or replacing a wet exhaust system. The OD's are manufactured to match our other components and are compatible with approved marine exhaust hose.

Part #		A	B	C	D	E
CEN 1200300	White	2.0"	1.75"	4.5"	3.5"	2.75"
CEN 1200301	Black					
CEN 1200298	White	3.0"	2.5"	5.5"	4.88"	3.0"
CEN 1200299	Black					
CEN 1200326	White	4.0"	3.25"	7.75"	6.0"	4.5"
CEN 1200325	Black					

Centek Exhaust Flange



Centek exhaust fittings are lightweight, strong, non-corroding, and durable. All exhaust system fittings are fibreglass and made of the same fire retardant materials used in the UL listed VERNATUBE filament wound tubing.

CEN 1200140

Centek Crush Sleeves



Welded stainless steel.

CEN 1200585 5" diameter
CEN 1200586 6" diameter
CEN 1200587 8" diameter

Sierra Exhaust Flappers



- Speciality compounded rubber with EPDM & U/V stabilizers
- Includes stainless steel hose clamp

SIE 18-4456 3"
SIE 18-4457 4"
SIE 18-4458 5" & 6"

Note The 18-4458 is a 6" flapper that can be cut to 5"**

Marine Hardware Generator Thru Hulls



These 316 Stainless steel generator exhaust ports are the finest on the market today. Comes with a 60 durometer nitrile rubber flap to prevent backwash. Fasteners are high-grade stainless steel. The design allows for easy installation in boat hulls of varying thickness, from 3/8" to 2-1/4".

MHI GETH-1.500-S Hose: 1-1/2", Pipe: 2-1/4"
MHI GETH-2.000-S Hose: 2", Pipe: 2-3/8"

Parts:
MHI GETH-FLAPKIT Flap kit for 1-1/2" & 2"

Vetus Exhaust Thru Hull With Flapper



- Exhaust hose can be fitted directly to this transom connection
- Stainless steel AISI 316 with a high gloss polished cover
- Exhaust hose ID: 3"
- Cutout: 3-1/6"
- Depth: 3-35/64"

VTS TRC75SV

THINK OF

GROCO®

FIRST

Since 1918

... when you need it to last

Full lines of



E-Valve electric seacock

IBV & FBV manual valves shown

Valves & Seacocks

Automatic and Standard



ARG series shown

Raw Water Strainers

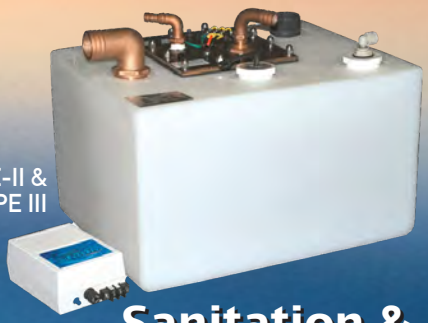


SPO-60-R Vane Pump shown

Gear Pumps & Vane Pumps



Fittings *of* all types



TYPE-II & TYPE III

Sanitation & Waste Treatment



PWR series shown

Water Pressure Systems



G series shown

Oil Change Systems

& more

www.groco.net • 410-604-3800

© 2023 Gross Mechanical Laboratories

Hose Application Chart		10-003
Hose & Hose Clamps	Bilge, Sanitation, & Water	10-004 to 006
	Exhaust	10-006 to 008
	Fuel & Blower	10-008 to 009
	Hose Clamps	10-010 to 011
Thru Hulls & Strainers	Scuppers	10-012
	Thru-Hulls	10-012 to 016
	Cockpit Drains & Strainers	10-016 to 018
	Raw Water Strainers	10-018 to 020
	Drain Plugs / Well Drains	10-021 to 023
Hose Fittings	Stainless & Bronze Hose Fittings	10-023 to 024
	Sealand & Tuff-Lite Fittings	10-024 to 025
	Marelon Fittings	10-025 to 026
	Marine East Fittings	10-026 to 027
	SeaTech Quick Connect Fittings	10-028 to 032
	Pipe Fittings	10-032 to 035
	Copper Tubing	10-036
	Fairview Brass Fittings	10-036 to 041
	Garden Hose Fittings	10-042 to 043
	EVM Aluminum Fittings	10-043
Valves	Valves	10-044 to 048
	Water Inlets & Outlets	10-048 to 049
	Faucets	10-049
	Vented Loops	10-049

NOT all Hoses are built equal

Doing it right the first time will save you money

TRIDENT MARINE®	*Competing Brands*
Built with 100% EPDM rubber	SBR blended rubber
Handles up to 250ºF continuously	Only 212ºF continuously
Longest-lasting rubber compounds in the industry	Will show cracking much sooner
Most consistent wall thickness	Thin-walled hose
Lowest compression set	Will require multiple clamp re-torquing



TRIDENT MARINE®

Built with your safety in mind

www.tridentmarine.com

TRIDENT MARINE

Series	Description	Colour/Size	Application								
	Applications		Sanitation	Bilge	Lube Oil & Coolants	Fresh Water	Holding Tank	Livewell	Exhaust	Fuel	Water Coolant
101	Sani Shield	Black with Green stripe: 1-1/2"	✓				✓				
102	Sani Shield	White with Green stripe: 1-1/2"	✓				✓				
120/121	Bilge Hose Above Waterline	120 - White: 3/4" - 1-1/8" 121 - Black: 3/4" - 1-1/2"		✓							
132	Heavy Duty Water/Air Hose Above Waterline	Black: 1/2" - 1"							✓		
134	Extra Heavy Duty Water/Air Hose Above Waterline	Black: 5/8" - 1"							✓		
144	VAC-HD Water fill & GP Bilge & Livewell	Clear: 3/4" - 1-1/2"		✓		✓	✓	✓			
146	VAC-HD Water fill & GP Bilge & Livewell	White: 1-1/2"		✓		✓	✓	✓			
147	VAC-XHD Bilge & Livewell	Clear w/Black helix: 3/4" - 1-1/2"		✓				✓			
148	VAC-XHD Sanitation Hose - FDA	White: 5/8" - 1-1/2"	✓	✓		✓	✓	✓			
149	VAC-XHD Bilge & Livewell	Black: 3/4" - 1-1/2"		✓				✓			
150	Clear PVC Tubing - FDA Above Waterline	Clear: 1/4" - 1"				✓		✓			
160	Suction and Pressure (FDA)	Clear with steel helix: 5/8" - 1-1/2"		✓		✓		✓			
161	Heavy Duty Reinforced PVC - FDA	Clear w/nylon reinforcement: 1-1/4" & 1-1/2"				✓					
162	Reinforced PVC - FDA Above Waterline	Clear w/Red & Blue tracer: 3/8" - 1"				✓		✓			
163	PVC with Helix -FDA	Clear with steel helix: 5/8" - 1-1/2"		✓		✓		✓			
164	Reinforced PVC - FDA Above Waterline	White w/Blue tracer: 1/2" - 3/4"				✓		✓			
165	Reinforced PVC - FDA, Cold Above Waterline	Blue: 1/2" - 3/4"				✓		✓			
166	Reinforced PVC - FDA, Hot Above Waterline	Red: 1/2" - 3/4"				✓		✓			
110/200	Ply Marine Wet Exhaust & Water	Black w/Blue stripe: 1/2" - 8"							✓		✓
202V	Silicone Marine Wet Exhaust & Water	Blue w/Red tube: 2-1/2" - 8"							✓		✓
100/250	Flex Marine Wet Exhaust & Water	Black w/Blue stripe: 1/2" - 6"	✓	✓					✓		✓
252V	Heavy Wall Corra-Sil Marine Wet Exhaust & Water	Blue w/Red tube 3/4" - 4"							✓		✓
305	B1-15 EPA O/B Fuel Line	Grey: 1/4" - 3/8"								✓	
317	A2 Fuel Vent	Black: 5/8"								✓	
321	Ocean Flex Multi-Purpose Fuel/Wet Exhaust/Water	Black w/Red & White stripe: 1-1/2" x 2"	✓	✓	✓	✓			✓	✓	✓
327	A2 Fuel Fill & Diesel Transfer	Black w/Red stripe: 1-1/2" & 2"								✓	
329	A2 Corrugated Fuel Fill	Black w/Red stripe: 1-1/2"								✓	
365	A1-15 Fuel Line	Black: 1/4" - 1/2"								✓	

Trident Marine 120 / 121 Bilge Hose



- Extremely flexible corrugated polyethylene
- Cuffed every foot for clamping
- Resists oily bilge and sea water
- NOT recommended for below waterline thru-hull connections
- Temperature range: -40°F to +200°F
- Packaged 50 feet/box or sold by the foot

Part # 50' Box	Colour	ID	Bend Radius	Part # Foot
TRI 120-0346	White	3/4"	3/4"	-
TRI 120-1186	White	1-1/8"	1"	-
TRI 121-0346	Black	3/4"	3/4"	**TRI 121-3/4"**
TRI 121-1186	Black	1-1/8"	1"	**TRI 121-1-1/8"**
TRI 121-1146	Black	1-1/4"	1-13/64"	**TRI 121-1-1/4"**
TRI 121-1126	Black	1-1/2"	1-29/32"	**TRI 121-1-1/2"**

Trident Marine 144 VAC - HD Bilge Hose



- Clear see-thru vinyl (FDA) corrugated with black hard PVC helix and smooth tube
- Exceptional flexibility and bend radius
- No cuffs required
- Use in open ended pressurized, suction, and discharge applications at ambient temperatures
- NOT recommended for below waterline thru-hull connections
- Temperature range: +10°F to +120°F
- CA prop 65 compliant
- Packaged 50 feet/box or sold by the foot

Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 144-0346	3/4"	1"	3/4"	**TRI 144-3/4"**
TRI 144-1006	1"	1-9/32"	1-1/2"	**TRI 144-1"**
TRI 144-1186	1-1/8"	1-3/8"	1"	**TRI 144-1-1/8"**
TRI 144-1146	1-1/4"	1-17/32"	1-1/2"	**TRI 144-1-1/4"**
TRI 144-1126	1-1/2"	1-51/64"	1-1/2"	**TRI 144-1-1/2"**

Accessories:

TRI 143-1120 1-1/2" ID



Trident Marine 146 VAC-HD Water Hose



- Corrugated white PVC with hard PVC helix
- FDA compounds for potable water fill, holding tank pump out, bilge, drain, scupper lines, and livewell use
- Exceptional flexibility and bend radius
- No cuffs required (but may use #143 RHT cuffs)
- Use in open ended pressurized, suction, and discharge applications at ambient temperatures
- NOT recommended for below waterline thru-hull connections
- Temperature range: +10°F to +120°F
- CA prop 65 compliant
- Packaged 50 feet/box or sold by the foot

Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 146-1126	1-1/2"	1-47/64"	2"	**TRI 146-1-1/2"**

Accessories:

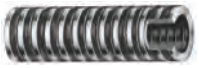
TRI 143-1120 1-1/2" ID



Trident Marine 147 / 149 VAC - HD/XHD Bilge Hose

- Extra heavy wall vinyl hose with black helix
- Excellent durability, flexibility, and bend radius
- Use in open ended pressurized, suction, and discharge applications
- No cuffs required
- Temperature range: +10°F to +120°F
- CA prop 65 compliant
- 147 HD is all clear with black helix
- 149 XHD is all black, smooth, and extra flexible
- 3 year warranty
- Packaged 50 feet/box or sold by the foot

147



149



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 147-0346	3/4"	31/32"	2-1/4"	**TRI 147-3/4"**
TRI 147-1186	1-1/8"	1-25/64"	3-1/2"	**TRI 147-1-1/8"**
TRI 147-1126	1-1/2"	1-53/64"	4-1/2"	**TRI 147-1-1/2"**
TRI 149-0346	3/4"	1"	3"	**TRI 149-3/4"**
TRI 149-1006	1"	1-1/4"	3"	-
TRI 149-1186	1-1/8"	1-7/16"	3"	**TRI 149-1-1/8"**
TRI 149-1146	1-1/4"	1-13/32"	3.5"	-
TRI 149-1126	1-1/2"	1-51/64"	4"	**TRI 149-1-1/2"**

Sealand Odour-Safe *Plus* Sani-Hose



- The best Sani-hose on the market
- Packaged 50 feet per box
- Sold by the foot

SLD 342871FT 1-1/2"

Top rated by Practical Sailor

Sealand MaxFlex Sanitation Hose



- High flexibility maintains full inside diameter even around tight corners
- Clamps easier than other hoses for airtight connections
- Packaged 50 feet per box
- Sold by the foot

SLD 341116FT 1-1/2"

Trident Marine 101 / 102 Sanitation Hose

101



102



- Extra thick tube and cover are specially formulated EPDM rubber for max resistance to odour permeation and winterizing with antifreeze
- Wire helix between 2 ply reinforcement gives this hose excellent bend radius, flexibility, and fitting acceptance and retention
- Not for potable water
- Temperature range: -20°F to +220°F
- 5 year warranty
- 101 = Black, 102 = White
- Packaged 25 feet/box or sold by the foot (50' complete roll)

Part # 25' Box	ID	OD	Bend R.	Part # Foot
-	1"	1-27/64"	1-15/32"	**TRI 101-1"**
TRI 101-1125	1-1/2"	2"	3"	**TRI 101-1-1/2"**
TRI 102-1125	1-1/2"	2"	3"	**TRI 102-1-1/2"**

Trident Marine 148 XHD Sanitation Hose

- Extra heavy duty smooth white vinyl hose with hard PVC helix
- Good flexibility and bend radius
- Specially compounded to provide resistance to odour permeation and (FDA) potable water fill
- Also suitable for critical bilge, drain scupper, livewell, etc
- No cuffs required
- Do not use with alcohols, anti-freeze, petrochemicals, or solvents
- Use in open ended pressurized, suction, and discharge applications at ambient temperatures
- Temperature range: +10°F to +120°F
- CA prop 65 compliant
- 3 year warranty
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend R.	Part # Foot
TRI 148-0586	5/8"	27/32"	3"	TRI 148-5/8"
TRI 148-0346	3/4"	1"	3"	TRI 148-3/4"
TRI 148-1006	1"	1-17/64"	3"	TRI 148-1"
TRI 148-1146	1-1/4"	1-17/32"	3"	TRI 148-1-1/4"
TRI 148-1126	1-1/2"	1-51/64"	4"	TRI 148-1-1/2"

Trident Marine 150 Clear PVC (FDA) Hose

- Non-toxic FDA compounded PVC
- For unpressurized, cool water uses like fresh water, drain, and vent lines
- NOT recommended for below waterline thru-hull connection
- Temperature range: +20°F to +150°F
- CA prop 65 compliant
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 150-0146	1/4"	21/64"	1"	TRI 150-1/4"
TRI 150-0386	3/8"	1/2"	1-3/8"	TRI 150-3/8"
TRI 150-0126	1/2"	3/4"	1-1/2"	TRI 150-1/2"
TRI 150-0586	5/8"	47/64"	2"	TRI 150-5/8"
TRI 150-0346	3/4"	55/64"	3"	TRI 150-3/4"
TRI 150-1006	1"	1-9/64"	4"	TRI 150-1"

Trident Marine 160 Clear PVC Hose (FDA)

- Clear FDA grade PVC hose with galvanized steel helix and high tensile synthetic textile reinforcement
- Excellent flexibility and bend radius
- Smooth outer surface for easy clamping
- Suitable for liquid suction and pressure lines, air and water supply, food and beverage supply, vacuum pumps, bilge, livewell, drain, and potable water
- Temperature range: -5°F to 150°F
- 3 year warranty
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend R.	Part # Foot
TRI 160-0586	5/8"	57/64"	1.3"	TRI 160-5/8"
TRI 160-0346	3/4"	1-3/64"	1.5"	TRI 160-3/4"
TRI 160-1006	1"	1-5/16"	2"	TRI 160-1"
TRI 160-1146	1-1/4"	1-37/64"	3.2"	TRI 160-1-1/4"
TRI 160-1126	1-1/2"	-	-	TRI 160-1-1/2"

Trident Marine 161 Clear PVC Hose (FDA)

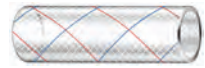
- Clear FDA grade PVC hose with heavy duty nylon reinforcement
- Excellent flexibility and bend radius
- For pressurized drinking water systems
- Temperature range: +20°F to +150°F
- 3 year warranty
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 161-1146	1-1/4"	1-3/8"	4.3"	TRI 161-1-1/4"
TRI 161-1126	1-1/2"	1-3/4"	5.5"	TRI 161-1-1/2"

Trident Marine 162 Clear PVC (FDA) Hose with Red/Blue Tracer

- Nylon reinforced, FDA compounded PVC for pressurized drinking water systems
- No taste or odour
- NOT recommended for below waterline thru-hull connection
- Temperature range: +20°F to +150°F
- CA prop 65 compliant
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 162-0386	3/8"	39/64"	1-3/4"	TRI 162-3/8"
TRI 162-0126	1/2"	31/64"	1-3/8"	TRI 162-1/2"
TRI 162-0586	5/8"	47/64"	2"	TRI 162-5/8"
TRI 162-0346	3/4"	7/8"	2-1/4"	TRI 162-3/4"
TRI 162-1006	1"	1-1/8"	4"	TRI 162-1"

Trident Marine 163 Clear PVC (FDA) Hose

- Clear FDA grade PVC hose with galvanized steel helix
- Excellent flexibility and bend radius
- Smooth outer surface for easy clamping
- Suitable for liquid suction lines, air and water supply, food and beverage supply, vacuum pumps bilge, livewell, drain, and potable water
- Temperature range: -5°F - 150°F
- 3 year warranty
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 163-0586	5/8"	57/64"	1-1/4"	TRI 163-5/8"
TRI 163-0346	3/4"	1-3/64"	1-1/2"	TRI 163-3/4"
TRI 163-1006	1"	1-5/16"	2"	TRI 163-1"
TRI 163-1126	1-1/2"	1-55/64"	3-3/4"	TRI 163-1-1/2"

Trident Marine
164 Clear PVC (FDA) Hose with White/Blue Tracer

- Nylon reinforced, FDA compounded PVC for pressurized drinking water systems
- No taste or odour
- Cold water only
- NOT recommended for below waterline thru-hull connection
- Temperature range: +20°F to +150°F
- CA prop 65 compliant
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 164-0126	1/2"	5/8"	2-1/2"	TRI 164-1/2"
TRI 164-0586	5/8"	3/4"	2"	TRI 164-5/8"
TRI 164-0346	3/4"	7/8"	1-1/2"	TRI 164-3/4"

Trident Marine 165 Blue PVC (FDA) Hose

- 3-ply polyester reinforced, FDA grade PVC hose
- For cold water feed lines
- Non-toxic, odourless, and tasteless
- NOT recommended for below waterline thru-hull connection
- Temperature range: -18°F to +149°F
- CA prop 65 compliant
- Packaged 50 feet/box



Part # 50' Box	ID	OD	Bend Radius
TRI 165-0126	1/2"	3/4"	1"
TRI 165-0586	5/8"	27/32"	1-1/4"
TRI 165-0346	3/4"	1"	1-1/2"

Trident Marine 166 Red PVC (FDA) Hose

- 3-ply polyester reinforced, FDA grade PVC hose
- For hot water feed lines
- Non-toxic, odourless, and tasteless
- NOT recommended for below waterline thru-hull connection
- Temperature range: +18°F to +149°F
- CA prop 65 compliant
- Packaged 50 feet/box



Part # 50' Box	ID	OD	Bend Radius
TRI 166-0126	1/2"	3/4"	1"
TRI 166-0586	5/8"	27/32"	1-1/4"
TRI 166-0346	3/4"	1"	1-1/2"

Trident Marine 202V Wet Exhaust & Water Hose

- Extra thick soft wall silicone with 4-6 ply polyester reinforcement
- Very high temperature performance and extra long service life
- Use on open-ended systems
- Max temperature: 350°F
- Exceeds SAE J2006-R1, ISO 13363-1B, and ABYC & NMMA P-1 exhaust standards
- Lloyd's Registry Type Approved
- 10 year limited warranty



Part # Foot	ID	OD	Sold Per
TRI 202V-2-1/2"	2-1/2"	2-29/32"	1 foot
TRI 202V-3"	3"	3-13/32"	1 foot
TRI 202V-3-1/2"	3-1/2"	3-29/32"	1 foot
TRI 202V-4"	4"	4-13/32"	1 foot
TRI 202V-5"	5"	5-13/32"	1 foot
TRI 202V6000-36	6"	6-1/2"	3 feet
TRI 202V8000-36	8"	8-1/2"	3 feet

Trident Marine
252V Blue Corra-Sil Wet Exhaust & Water Hose

- Extra thick wall blue corrugated cover, smooth red tube, with wire helix between 2 ply polyester reinforcement
- Perfect for long, bent wet exhaust (genset and engine) runs and premium raw water and coolant hose runs
- "Real Hot" VHT performance
- Extra long service life and excellent long length bendability
- Max temperature: 350 °F
- Exceeds SAE J2006-R2, ISO 13363-2B, and ABYC & NMMA P-1 exhaust standers
- Lloyd's Registry Type Approved
- 10 year limited warranty
- Sold by the foot (60' complete roll)



Part # Foot	ID	OD	Bend Radius
TRI 252V-3/4"	3/4"	1-1/4"	3"
TRI 252V-1"	1"	1-1/2"	3-1/2"
TRI 252V-1-1/4"	1-1/4"	1-3/4"	4"
TRI 252V-1-1/2"	1-1/2"	2"	4-1/2"
TRI 252V-2"	2"	2-39/64"	6-1/2"
TRI 252V-2-1/2"	2-1/2"	3-7/64"	10"
TRI 252V-3"	3"	3-39/64"	11"
TRI 252V-4"	4"	4-45/64"	20"

Shields Exoflex Exhaust Hose

- Bend radius 1.5 x ID
- EPDM corrugated black cover and reinforced with synthetic plies and steel wire helices
- Resistant to heat, salt water, ozone, and abrasions
- Temperature rage of -22° F / 212° F, peaks to 239° F
- Meets SAE J2006 Type R2
- Lloyd's Approved
- Sold by the foot



Part # Foot	I.D.	O.D.
SHI 254-2-1/2" **	2-1/2"	2-51/64"

** While Stock Lasts

Trident Marine 132 HD Water / Air Hose

- Heavy duty EDPM rubber hose with 2 spiral polyester reinforcement
- Cost effective, high temperature, serves for both pressurized water and air delivery
- Resistant to coolants, ozone, cold, and heat
- 200 PSI
- Temperature range: -40°F to +212°F
- Exceeds SAE J20R3
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 132-0126	1/2"	53/64"	2"	TRI 132-1/2"
TRI 132-0586	5/8"	63/64"	2-1/2"	TRI 132-5/8"
TRI 132-0346	3/4"	1-1/16"	3-1/4"	TRI 132-3/4"
TRI 132-1006	1"	1-13/32"	4-3/8"	TRI 132-1"

Trident Marine 134 XHD Water / Air Hose

- Extra heavy duty EDPM rubber hose with 4 spiral polyester reinforcement
- Cost effective, high temperature, serves for both pressurized water and air delivery
- Also serves below water line intake and discharge applications (A/C, Engine, Sanitation, etc.)
- Resistant to coolants, ozone, cold, and heat
- 300 PSI
- Temperature range: -40°F to +212°F
- Exceeds SAE J20R3
- Packaged 50 feet/box or sold by the foot



Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 134-0586	5/8"	31/32"	2-1/2"	TRI 134-5/8"
TRI 134-0346	3/4"	1-1/16"	3-1/4"	TRI 134-3/4"
TRI 134-1006	1"	1-13/32"	4-3/8"	TRI 134-1"

Trident Marine 272V / 274V Wet Exhaust Bellows



- Very High Temperature (VHT) blue silicone rubber with multi-ply polyester reinforcement
- -65 °F to +350 °F max. continuous
- Excellent resistance to ozone, salt water, diesel fumes and splash, cold, heat, and aging
- Meets or exceeds new marine exhaust standards SAE J2006 R-3, ABYC & NMMA P-1
- For wet exhaust and engine coolant systems up to rated working pressure of component
- 10 year limited warranty



TRI 272V4000	Single hump, 4" ID x 6"
TRI 272V5000	Single hump, 5" ID x 6"
TRI 272V6000	Single hump, 6" ID x 8"
TRI 272V8000	Single hump, 8" ID x 8"
TRI 274V6000	Double hump, 6" ID x 14"
TRI 274V8000	Double hump, 8" ID x 14"

Trident Marine 242V/292V Wet Exhaust Elbows

- Very High Temperature (VHT) blue silicone rubber with multi-ply polyester reinforcement
- -65 °F to +350 °F max. continuous
- Excellent resistance to ozone, salt water, diesel fumes and splash, cold, heat, and aging
- Meets or exceeds new marine exhaust standards SAE J2006 R-3, ABYC & NMMA P-1
- For wet exhaust and engine coolant systems up to rated working pressure of component
- 10 year limited warranty

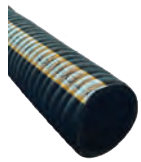
Part #	ID	OD	Angle
TRI 242V2000	2"	2-13/32"	45°
TRI 242V3000	3"	3-13/32"	45°
TRI 242V4000	4"	4-13/32"	45°
TRI 242V6000	6"	6-1/2"	45°
TRI 292V2000	2"	2-13/32"	90°
TRI 292V3000	3"	3-13/32"	90°
TRI 292V4000	4"	4-13/32"	90°
TRI 292V6000	6"	6-1/2"	90°
TRI 292V8000	8"	8-1/2"	90°



Trident Marine 252F Extra-Flex Wet Exhaust Hose

NEW

- Corrugated hose with high temperature EPDM rubber compounds
- Handles higher temperatures while providing longer life and durability
- Temperature range: -35° C to 121° C
- Lloyd's Registry Type Approved
- Sold by the foot



Part #	ID	OD	Bend Radius	Full Roll / Length
TRI 252F-1-1/2"	1-1/2"	2"	2-1/4"	per foot (50'/box)
TRI 252F-1-3/4"	1-3/4"	2-1/4"	2-5/8"	per foot (50'/box)
TRI 252F-2"	2"	2-1/2"	3"	per foot (50'/box)
TRI 252F-2-1/2"	2-1/2"	3-1/16"	3-3/4"	per foot (50'/box)
TRI 252F-3"	3"	3-5/8"	4-1/2"	per foot (50'/box)
TRI 252F-4"	4"	4-9/16"	6"	per foot (50'/box)

Trident Marine
110/200 Wet Exhaust & Water Hose



- Extra heavy tube and cover with 2 to 6 ply reinforcement
- Resists heat, aging, ozone, exhaust, and sani chemicals
- Black high temp EDPM rubber 280°F max
- Exceeds SAE J2006-R1, and ABYC & NMMA P-1
- Lloyd's Registry Type Approved Cert. 02/00029
- 5 year warranty
- Sold by the foot or box (full roll/lengths as noted)

Part #	ID	OD	Full Roll / Length
TRI 110-0126	1/2"	29/32"	50' box
TRI 110-0586	5/8"	1"	50' box
TRI 110-0346	3/4"	1-5/32"	50' box
TRI 110-1006	1"	1-37/64"	50' box
TRI 110-1186	1-1/8"	1-33/64"	50' box
TRI 110-1146	1-1/4"	1-13/32"	50' box
TRI 200-1-1/2"	1-1/2"	1-63/64"	per foot (50'/box)
TRI 200-1-5/8"	1-5/8"	2-7/64"	per foot (50'/box)
TRI 200-1-7/8"	1-7/8"	2-23/64"	per foot (50'/box)
TRI 200-2"	2"	2-1/2"	per foot (50'/box)
TRI 200-2-1/4"	2-1/4"	2-3/4"	per foot (50'/box)
TRI 200-2-3/8"	2-3/8"	2-57/64"	per foot (12'/box)
TRI 200-2-1/2"	2-1/2"	3-1/16""	per foot (12'/box)
TRI 200-3"	3"	3-39/64"	per foot (12'/box)
TRI 200-3-1/2"	3-1/2"	4-1/8"	per foot (12'/box)
TRI 200-4"	4"	4-41/64"	per foot (12'/box)
TRI 200-5"	5"	5-41/64"	per foot (12'/box)
TRI 200-6"	6"	6-3/4"	per foot (12'/box)
TRI 200-8"	8"	8-3/4"	per foot (12'/box)

Wonderflex Butyl Hose

- EPDM tube and cover reinforced with single wire helix, and two piles synthetic fabric
- Strength and flexibility for kink free bends and turbulence free material transmission
- UL listed and meets USCG requirements for wet exhaust systems
- Temperature range - 30° F to 240° F
- Standard 10 foot lengths
- Not to be used for fuel filler hose

Part # Foot	ID	OD
WON 5/8"X10'	5/8"	29/32"
WON 3/4"X10'	3/4"	1-1/16"
WON 7/8"X10'	7/8"	1-5/32"
WON 1"X10'	1"	1-9/32"
WON 1-1/8"X10'	1-1/8"	1-13/32"
WON 1-1/4"X10'	1-1/4"	1-17/32"
WON 1-3/8"X10'	1-3/8"	1-11/16"
WON 1-1/2"X10'	1-1/2"	1-13/16"
WON 1-5/8"X10'	1-5/8"	1-15/16"
WON 1-3/4"X10'	1-3/4"	2-1/16"
WON 1-7/8"X10'	1-7/8"	2-3/16"
WON 2"X10'	2"	2-5/16"
WON 2-1/2"X10'	2-1/2"	2-13/16"



Trident Marine
100/250 Flex Wet Exhaust & Water Hose



- Extra heavy tube and cover with wire helix between 2 ply reinforcement
- Resists heat, ozone, exhaust, sani chemicals, panting, and collapse
- Black high temp EDPM rubber 280°F max
- Exceeds SAE J2006-R2, and ABYC & NMMA P-1
- Lloyd's Registry Type Approved Cert. 02-00029
- 5 year warranty
- Sold by the foot or box (full roll/lengths as noted)

Part #	ID	OD	Bend Radius	Full Roll / Length
TRI 100-0126	1/2"	29/32"	5/8"	50' box
TRI 100-0586	5/8"	1"	1"	50' box
TRI 100-0346	3/4"	1-5/32"	1"	50' box
TRI 100-1006	1"	1-37/64"	1-1/4"	50' box
TRI 100-1186	1-1/8"	1-33/64"	1-3/8"	50' box
TRI 100-1146	1-1/4"	1-13/32"	1-1/2"	50' box
TRI 250-1-1/2"	1-1/2"	1-63/64"	4"	per foot (50'/box)
TRI 250-1-5/8"	1-5/8"	2-7/64"	4-1/2"	per foot (50'/box)
TRI 250-1-7/8"	1-7/8"	2-23/64"	5"	per foot (50'/box)
TRI 250-2"	2"	2-1/2"	5-1/2"	per foot (50'/box)
TRI 250-2-3/8"	2-3/8"	2-57/64"	6"	per foot (50'/box)
TRI 250-2-1/2"	2-1/2"	3-1/16"	6-5/8"	per foot (50'/box)
TRI 250-3"	3"	3-5/8"	9"	per foot (50'/box)
TRI 250-3-1/2"	3-1/2"	4-1/8"	11-1/2"	per foot (50'/box)
TRI 250-4"	4"	4-43/64"	14"	per foot (12'/box)
TRI 250-4-1/2"	4-1/2"	5-13/64"	19"	per foot (12'/box)
TRI 250-5"	5"	5-3/4"	24"	per foot (12'/box)
TRI 250-6"	6"	6-3/4"	30"	per foot (12'/box)

Trident Marine
321 Ocean-Flex Multipurpose Hose



- Can be used for fuel fill, feed, and vent (A1), lube oil, wet exhaust, water (vital and non-vital), bilge, coolant, drains, and sanitation applications
- Black nitrile tube and cover with 2 ply reinforcement with wire helix
- Excellent flexibility and bend radius
- Compliant to the following standards: SAE J1942 (Code F, VW, NVW), USCG Type A1, SAE J1527 A1 R2, SAE J2006 R2, SAE J20R2 B, SAE J20R4 B, SAE J20R5 B, SAE J30R5, ABYC H-22, H-24, H-33 P-1, P-4, ISO 7840 A1, ISO 8469 B1, and ISO 13363 2B, CE, NMMA
- 5 year warranty
- Sold by the foot (50' complete roll)

Part # Foot	ID	OD	Bend Radius
TRI 321-1-1/2"	1-1/2"	1-61/64"	3"
TRI 321-2"	2"	2-29/64"	4-1/2"

Trident Marine
365 Type A1-15 Fuel Hose



- NBR/PVC blend cover, with polyester 2 spiral reinforcement, and "Perm Barrier Liner" on inside surface of tube
- For all marine fuels including gasoline, alcohol blends (CE-10), diesel, and biodiesel
- Formulated for max resistance to fuels, fire, heat, cold, ozone, aging, and permeation
- Temperature range: -20°F to 212°F
- Meets newest ABYC H-24 and H-33, SAE J1527, CARB and EPA "A1-15" and USG Type A1, ISO 7840 A1 standards and requirements, and is NMMA type accepted and CE certified
- 5 year warranty
- Packaged 50 feet/box or sold by the foot

Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 365-0146	1/4"	35/64"	1-1/2"	**TRI 365-1/4"**
TRI 365-0566	5/16"	5/8"	1-3/4"	**TRI 365-5/16"**
TRI 365-0386	3/8"	11/16"	2"	**TRI 365-3/8"**
TRI 365-0126	1/2"	53/64"	2-12"	**TRI 365-1/2"**
TRI 365-0346	3/4"	1-1/8"	4-12"	-

Trident Marine
317 Type A2 Fuel and Vent Hose



- NBR tube with NBR/PVC blend cover and polyester 2 spiral reinforcement
- For all marine fuels including gasoline, alcohol blends, diesel, and biodiesel
- Resistant to fuels, fire, heat, cold, ozone, aging, and permeation
- Temperature range: -20°F to 212°F
- Meets newest ABYC H-24 and H-33, SAE J1527, USCG Type A2, ISO 7840-A2 standards, and is NMMA type accepted and CE certified
- 5 year warranty
- Packaged 50 feet/box or sold by the foot

Part # 50' Box	ID	OD	Bend Radius	Part # Foot
TRI 317-0586	5/8"	31/32"	3"	**TRI 317-5/8"**

Trident Marine
327 Type A2 Fuel Hose



- NBR/Neoprene blend cover, with high tenacity polyester 2 spiral and spring steel helix
- Can be used for both gasoline (including ethanol blends) and diesel (including bio-diesel blends)
- Formulated for max resistance to fuels, fire, heat, cold, ozone, aging, and permeation
- Temperature range: -4°F to 212°F
- Meets or exceeds ABYC H-24 and H-33, SAE J1527, SAE J30R6, ISO 7840 A2, USCG Type A2
- NMMA type accepted, CE certified, and Lloyds approved
- 5 year warranty
- Sold by the foot (50' complete roll)

Part # Foot	ID	OD	Bend Radius
TRI 327-1-1/2"	1-1/2"	2"	5-1/2"
TRI 327-2"	2"	2-31/64"	7"

Trident Marine
329 Type A2 Fuel Hose



- NBR/EPDM blend heavy wall corrugated cover with high tenacity polyester 2 spiral and spring steel helix
- Can be used for both gasoline (including ethanol blends) and diesel (including bio-diesel blends)
- Formulated for max resistance to fuels, fire, heat, cold, ozone, aging, and permeation
- Temperature range: -4°F to 212°F
- Meets or exceeds ABYC H-24 and H-33, SAE J1527, ISO 7840, USCG Type A2
- NMMA accepted, CE certified, and Lloyds approved
- 5 year warranty
- Sold by the foot (50' complete roll)

Part # Foot	ID	OD	Bend Radius
TRI 329-1-1/2"	1-1/2"	2"	3-1/2"

Trident Marine
305 B1-15 EPA Compliant Fuel Hose



- Grey CPE rubber with flouroplastic internal barrier lining and 2-spiral polyester plies
- Can be used for both gasoline (including ethanol blends up to E85) and diesel (including bio-diesel blends up to 100%)
- Formulated for maximum resistance to fuels, heat, cold, ozone, abrasion, aging, and permeation
- EPA and CE certified
- Meets or exceeds ABYC H-24, SAE J1527, ISO 8469 B1, USCG Type B1-15, EPA & CARB, NMMA
- 3 year warranty
- Sold by the box

Part # 50' Box	ID	OD	Bend Radius
TRI 305-0146	1/4"	7/16"	2"
TRI 305-0566	5/16"	1/2"	2-1/2"
TRI 305-0386	3/8"	19/32"	4"

► *Also See* Outboard Fuel Lines pg 09-017

Trident Marine
481 Polyduct Blower Hose



- HD polypropylene hose, reinforced with flexible rod helix
- Flexible, compressible, resistant to crushing, fatigue, tearing, and moisture
- Temperature range: -40°F to +225°F
- Meets FMVSS 302 flame resistance
- 3 year warranty
- Sold by the foot (50' complete roll)

TRI 481-3" 3" ID
TRI 481-4" 4" ID

Shields
420 Heavy Duty Black Vinyl Blower Hose



- For venting bilge gases & fumes
- Resistant to ozone, sunlight and weather checking
- Wire vinyl coated carcass is corrosion resistant
- Vinyl construction won't support fire
- Sold by the foot

SHI 420-3" Per foot
SHI 420-4" Per foot

ABA 12mm Hose Clamps



- 316 stainless steel
- Acid resistant
- No perforations in the band
- Rolled up band edges to minimize hose wear
- Vibration proof six degree thread pitch
- Hex head worm screw 7mm (9/32") across flats

Part #	Range MM	SAE Size	Dia. Inches	
			Min.	Max.
ABA 13624	15-24	8	5/8"	1"
ABA 13628	19-28	10	3/4"	1-1/8"
ABA 13632	22-32	12	7/8"	1-1/4"
ABA 13638	26-38	16	1-1/16"	1-1/2"
ABA 13644	32-44	20	1-1/4"	1-3/4"
ABA 13650	38-50	24	1-1/2"	2"
ABA 13657	32-57	28	1-1/4"	2-1/4"
ABA 13664	38-64	32	1-1/2"	2-1/2"
ABA 13670	44-70	36	1-3/4"	2-3/4"
ABA 13676	51-76	40	2"	3"
ABA 13683	57-83	44	2-1/4"	3-1/4"
ABA 13689	64-89	48	2-1/2"	3-1/2"
ABA 13694	70-95	52	2-3/4"	3-3/4"
ABA 13696	76-102	56	3"	4"
ABA 13697	83-108	60	3-1/4"	4-1/4"
ABA 13698	89-114	64	3-1/2"	4-1/2"
ABA 13699	89-127	72	3-1/2"	5"
ABA 66140	102-140	80	4"	5-1/2"
ABA 66152	114-152	88	4-1/2"	6"
ABA 66165	127-165	96	5"	6-1/2"
ABA 66178	140-178	104	5-1/2"	7"
ABA 66191	152-191	112	6"	7-1/2"
ABA 66203	165-203	120	6-1/2"	8"
ABA 66216	178-216	128	7"	8-1/2"
ABA 66232	194-232	138	7-5/8"	9-1/8"
ABA 66257	219-257	154	8-5/8"	10-1/8"
ABA 66283	244-283	170	9-5/8"	11-1/8"
ABA 66308	270-308	186	10-5/8"	12-1/8"

ABA 9mm Narrow Clamps



- 316 stainless steel

ABA 13614 5/16" - 9/16", each
ABA 13617 7/16" - 11/16", each
ABA 13620 1/2" - 13/16", each

ABA Mini Clamp



- 304 stainless steel

ABA 13514 #14, 17/32" - 19/32", each

Fairview Two Ear Clamp



- 304 Stainless steel

Part #	Tube
FRV HC9-9SS	.512" to .591"

AWAB Torro 9mm Hose Clamps



- Torro clamps are crafted entirely of AISI 304 stainless steel
- Torro clamps have rolled-up band edges and solid bands, reducing the possibility of hose damage; the solid band of the Torro clamps eliminates cracks starting at perforations, extending the service life of the clamps
- Can be used in environments with a moderately aggressive atmosphere and some risk of corrosion
- 9mm band width

Part #	SAE	Range
AWA NT09100-W4 **	56	3-1/8" to 4"
AWA NT09150-W4 **	86	5-1/8" to 5-7/8"
AWA NT09160-W4 **	93	4-1/2" to 6-5/16"
AWA NT09170-W4 **	99	5-7/8" to 6-11/16"
AWA NT09180-W4 **	105	6-5/16" to 7-1/16"

** While Stock Lasts

Sierra Oetiker Hose Clamps



- 304 stainless steel construction
- Narrow Band: concentrates transmission of clamping force
- 360° Stepless: Uniform compression and surface pressure
- Clamp Ear: Compensates for component tolerances, adjustable surface pressure
- Dimple: Increases clamping force
- Burr-free strip edges: Reduces risk of damage to clamped parts
- Sold 10/pkg

Part #	Ear Width mm	Band Width mm	Nominal ID	
			Inches	mm
SIE 18-9126-9	5.5	5	3/8"	9.5
SIE 18-9127-9	5.5	5	13/32"	10.5
SIE 18-9129-9	5.5	7	1/2"	13.3
SIE 18-9130-9	8	7	17/32"	13.8
SIE 18-9131-9	8	7	35/64"	14
SIE 18-9132-9	8	7	9/16"	14.5
SIE 18-9133-9	8	7	5/8"	15.7
SIE 18-9134-9	8	7	11/16"	17
SIE 18-9140-9	10	7	22/32"	18.5
SIE 18-9135-9	10	7	13/16"	21
SIE 18-9136-9	10	7	1"	25.6
SIE 18-9137-9	10	7	1-3/16"	30.1
SIE 18-9138-9	10	7	1-1/4"	31.6
SIE 18-9139-9	10	7	1-5/8"	41

ABA Clamp Driver



- Flexible drivers for all clamp types
- 10" in length

ABA 60002 7 mm

Sierra Oetiker Clamp Pincher



- Forged steel
- Straight jaw

SIE 18-9141

Ideal Hose Clamps



- All stainless steel gear clamps
- The band and one piece housing are of 301 stainless steel and the screw is of 305 stainless steel
- The MAH micro clamps have a 5/16" band
- The HAS models have a full 1/2" band

	Size Range			
	Min.		Max.	
Part #	inches	mm	inches	mm
IDE MAH-4	7/32"	6	5/8"	16
IDE MAH-5	7/16"	8	11/16"	19
IDE MAH-6	5/16"	8	7/8"	22
IDE MAH-8	7/16"	11	1"	25
IDE MAH-10	1/2"	13	1-1/16"	27
IDE MAH-12	9/16"	14	1-1/4"	32
IDE HAS-6	3/8"	10	7/8"	22
IDE HAS-8	7/16"	11	1"	25
IDE HAS-10	9/16"	14	1-1/16"	27
IDE HAS-12	9/16"	14	1-1/4"	32
IDE HAS-16	11/16"	17	1-1/2"	38
IDE HAS-20	3/4"	19	1-3/4"	44
IDE HAS-24	1-1/16"	27	2"	51
IDE HAS-28	1-5/16"	33	2-1/4"	57
IDE HAS-32	1-9/16"	40	2-1/2"	63
IDE HAS-36	1-1/16"	46	2-3/4"	70
IDE HAS-40	2-1/16"	52	3"	76
IDE HAS-44	2-5/16"	59	3-1/4"	82
IDE HAS-48	2-9/16"	65	3-1/2"	89
IDE HAS-52	2-13/16"	71	3-3/4"	95
IDE HAS-56	3-1/16"	78	4"	101
IDE HAS-60	3-5/16"	84	4-1/4"	107
IDE HAS-64	3-9/16"	90	4-1/2"	114
IDE HAS-72	4-1/16"	103	5"	127
IDE HAS-84	4-15/16"	125	5-3/4"	146
IDE HAS-96	4-1/2"	114	6-1/2"	165
IDE HAS-104	5"	127	7"	178
IDE HAS-128	6-1/2"	165	8-1/2"	216

Trident Marine Constant Torque Clamps



- Active clamping mechanism monitors and compensates for changes through worm gear Belleville assembly
- 304 stainless steel 5/8" wide band
- 40I stainless steel Bellville spring washers and screw
- 3 year warranty

Part #	Hose ID	Hose OD
TRI 730-1000	1" - 1-1/8"	1" - 1-3/4"
TRI 730-1120	1-1/4" - 2"	1-3/4" - 2.5/8"
TRI 730-2000	1-7/8" - 2-1/2"	2-1/4" - 3-1/8"
TRI 730-3000	2-3/4" - 3-1/4"	3-1/4" - 4-1/8"
TRI 730-4000	4"	4-1/4" - 5-1/8"
TRI 730-5000	5" - 5-1/8"	5-1/4" - 6-1/8"
TRI 730-6000	6"	6-1/4" - 7-1/8"

Buck Algonquin T-Bolt Band Hose Clamps



- Made of 18-8 stainless steel

Part #	Size
BUC 70TBC150SS	1.28 - 1.59"
BUC 70TBC175SS	1.63 - 1.83"
BUC 70TBC188SS	1.76 - 1.96"
BUC 70TBC200SS	1.78 - 2.09"
BUC 70TBC225SS	2.03 - 2.34"
BUC 70TBC250SS	2.38 - 2.58"
BUC 70TBC275SS	2.53 - 2.84"
BUC 70TBC300SS	2.80 - 3.08"
BUC 70TBC325SS	3.03 - 3.34"
BUC 70TBC350SS	3.30 - 3.58"
BUC 70TBC375SS	3.55 - 3.83"
BUC 70TBC400SS	3.80 - 4.08"
BUC 70TBC425SS	4.05 - 4.33"
BUC 70TBC450SS	4.30 - 4.58"
BUC 70TBC475SS	4.55 - 4.83"
BUC 70TBC500SS	4.80 - 5.08"
BUC 70TBC550SS	5.30 - 5.58"
BUC 70TBC575SS	5.55 - 5.83"
BUC 70TBC600SS	5.80 - 6.08"
BUC 70TBC625SS	6.05 - 6.33"
BUC 70TBC650SS	6.30 - 6.58"
BUC 70TBC675SS	6.55 - 6.83"
BUC 70TBC700SS	6.80 - 7.08"
BUC 70TBC750SS	7.30 - 7.58"
BUC 70TBC800SS	7.80 - 8.08"
BUC 70TBC850SS	8.30 - 8.58"
BUC 70TBC875SS	8.30 - 8.87"
BUC 70TBC900SS	8.80 - 9.08"
BUC 70TBC950SS	9.30 - 9.58"
BUC 70TBC1000SS	9.80 - 10.08"
BUC 70TBC1088SS	10.43 - 11.00"
BUC 70TBC1200SS	11.80 - 12.08"
BUC 70TBC1288SS	12.43 - 13.00"
BUC 70TBC132LSS	12.75 - 13.32"
BUC 70TBC146LSS	14.20 - 14.77"

PYI Clamp Jackets



- 1/2", black rubber
- Provides a safe and finished look for hose clamps

PYI CJ1225 25/pkg
PYI CJ12100 100/pkg

ABA Blue Clamp Sleeves



- Easy, slip-on installation
- Protects from sharp clamp edges
- 25/pkg

ABA 31601P 5/16"
ABA 31611P 1/2"

Attwood Scupper Valves



- Cast from #316 stainless steel
- Visible areas are polished to a mirror finish, then through passivation for additional protection
- Thick steel sidewalls withstand continual stress and hose flexing
- Solid solicone gasket - will not deteriorate or shrink over time
- Excellent resistance to UV & weather-aging
- Watertight, fool-proof, one-piece seal
- Eliminates the need to form and apply sealant or caulk
- Caution: Thru-Hull connectors are designed for installation above the water line only
- 1-1/2" hose x Length: 5-1/2"

ATT 66553-1 Bulk
ATT 66553-3 Packaged

Attwood Thru-Transom Scupper



Designed for boats with self bailing cockpits this scupper is a combination of plastic and rubber washers with a flap designed to act as a valve for water to exit. Mounted on the transom above the waterline the rubber flapper prevents backwash from entering your cockpit.

- Hose ID: 1-1/2"
- Overall length: 6-1/4"
- Max hull thickness: 3-1/8"
- Flange diameter: 2-7/8"
- Cut out hole diameter: 2"

ATT 3881-1

Perko Short Scupper



- Chrome plated cast bronze thru-hull scupper with a recessed flapper
- Use with 1-1/2" hose and hulls to 1-3/4"
- 3-1/8" flange

PER 377-A08-CHR
Parts:
PER 333-DP0-99A Spare flapper

Perko Adjustable Thru-Hull Scupper



- Molded white plastic with soft black scupper valve
- For surface thickness from 2" to 4-3/4"
- Female portion of scupper can be cut down by one rib for each 1/4" difference between hull thickness and 4-3/4"
- OD flange: 2-15/16"

PER 343
Parts:
PER 333-DP0-99A Spare flapper

Perko Cockpit Scupper



- Molded white plastic
- Flush mount
- For use when discharge is above the water line
- Insert prevents passage of large objects without restricting water flow
- Hose size: 1-1/2"
- Maximum hull thickness: 1-3/4"
- Flange OD: 2-3/4"

PER 285-DP

Perko Thru-Hull Scupper



- For surface mount applications
- Molded white plastic with soft black flapper valve
- Flange OD: 2-7/8"
- Use #6 fasteners

PER 365-DP

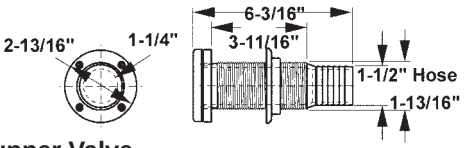
Rabud Sea Scuppers



- Transom drain
- For all self bailing applications
- Retrofits most rubber flappers
- Clear polycarbonate housing
- Solid polypropylene ball
- UV stabilized

Part #	Drain Tube	Dia	Height
RHS SS1-C	1"	2-3/4"	2"
RHS SS3-C	Up to 3"	4-1/2"	3-1/4"

Sea-Dog Thru-Hull w/Scupper Valve





- Injection molded acetal

SED 520510-1
Parts:
SED 520500-1 Replacement scupper valve

Sea-Dog Scupper Valve



- Injection molded nylon
- Use #6 FH fasteners
- OD: 2-3/4", I.D: 1-3/4"

SED 520500-1

T-H Marine Ball Scupper



- Replaces worn out flapper scuppers
- 70% more drainage than competitive models
- Twist off for easy cleaning
- Retrofits all hole patterns
- Stainless steel lock screw for safety
- Seal is slotted to fit over 1-1/4" motorwell tubes

THM FMS-1-0-DP

Groco Bronze Thru-Hulls



- C83600 bronze
- UL Listed 647B
- NPSM / NPT combination thread
- Comes with nut

Part #	Thread Size	Shank Length	Flange Dia.
GRO TH-500-W	1/2"	2-13/64"	1-45/64"
GRO TH-750-W	3/4"	2-13/64"	1-29/32"
GRO TH-1000-W	1"	2-27/32"	2-21/64"
GRO TH-1250-W	1-1/4"	2-29/32"	2-5/8"
GRO TH-1500-W	1-1/2"	3-5/32"	2-57/64"
GRO TH-2000-W	2"	3-29/36"	3-21/64"

Groco Bronze XL Thru-Hulls

- C83600 bronze
- Extra long NPSM / NPT combination thread
- Comes with nut



Part #	NPS Size	Shank Length	Flange Dia.
GRO THXL-750-W	3/4"	5-21/64"	1-29/32"
GRO THXL-1000-W	1"	5-21/64"	2-5/16"
GRO THXL-1250-W	1-1/4"	5-29/64"	2-5/8"
GRO THXL-1500-W	1-1/2"	5-29/64"	2-57/64"
GRO THXL-2000-W	2"	5-37/64"	3-11/32"

Groco Bronze Flush Thru-Hulls

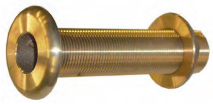
- C84400 bronze
- Machined flat face for flush mount or dripless applications
- NPSM / NPT combination thread
- Comes with nut



Part #	Thread Size	Shank Length	Flange Dia.
GRO FTH-500-W	1/2"	2-5/16"	1-3/4"
GRO FTH-750-W	3/4"	2-5/16"	2"
GRO FTH-1000-W	1"	2-9/16"	2-5/16"
GRO FTH-1250-W	1-1/4"	3-5/16"	2-15/16"
GRO FTH-1500-W	1-1/2"	3-1/2"	3-13/64"

Buck Algonquin Bronze Thru-Hulls

- Mushroom head, cast bronze, machine finish, completely machined thru-hull
- Caulking groove cut beneath head



Part #	NPS Size	Shank Length	Flange Dia.
BUC TH-38	3/8"	2-1/4"	1-9/16"
BUC TH-50	1/2"	2-1/8"	1-13/16"
BUC TH-75	3/4"	2-3/8"	2-1/16"
BUC TH-100	1"	2-3/4"	2-3/8"
BUC TH-125	1-1/4"	3-1/4"	3-1/16"
BUC TH-150	1-1/2"	3-1/2"	3-3/8"
BUC TH-200	2"	4"	3-5/8"
BUC TH-250	2-1/2"	4"	4-1/32"
BUC TH-300	3"	5-1/4"	4-11/16"
BUC TH-75-XL	3/4"	5-9/16"	2"
BUC TH-100-XL	1"	5-9/16"	2-1/2"
BUC TH-125-XL	1-1/4"	5-9/16"	3-1/16"
BUC TH-150-XL	1-1/2"	5-9/16"	3-3/8"
BUC TH-200-XL	2"	5-9/16"	3-5/8"

Buck Algonquin Thru-Hull Nuts



BUC THN-38	Fits thru-hull 3/8"
BUC THN-50	Fits thru-hull 1/2"
BUC THN-75	Fits thru-hull 3/4"
BUC THN-100	Fits thru-hull 1"
BUC THN-125	Fits thru-hull 1-1/4"
BUC THN-150	Fits thru-hull 1-1/2"
BUC THN-250	Fits thru-hull 2-1/2"
BUC THN-300	Fits thru-hull 3"

Buck Algonquin Bronze Thru-Hulls

- Cast bronze, machine finish, flush type for smooth skinned hull finish
- Flange thickness: 3/8", flange angle: 45°
- Available with or without screen



Part #	NPS Size	Shank Length	Flange Dia	Screen
BUC TH-50-FS	1/2"	2-5/16"	2-1/2"	Y
BUC TH-75-FS	3/4"	2-5/16"	2-1/2"	Y
BUC TH-100-FS	1"	2-1/2"	3"	Y
BUC TH-125-FS	1-1/4"	3-1/8"	3"	Y
BUC TH-150-FS	1-1/2"	3-3/8"	3-1/4"	Y
BUC TH-75-F	3/4"	2-5/16"	2-1/2"	N
BUC TH-100-F	1"	2-1/2"	3"	N
BUC TH-125-F	1-1/4"	3-1/8"	3"	N
BUC TH-150-F	1-1/2"	3-3/8"	3-1/4"	N

Buck Algonquin Thru-Hulls w/Hose Barb

- Cast bronze, machined finish with molded hose barb
- Caulking groove cut behind head



Part #	Hose Size	Shank Length	Flange Diameter
BUC THH75	3/4"	3-1/4"	2-1/16"
BUC THH150	1-1/2"	3-7/8"	3-5/32"

Perko Chrome Plated Thru-Hulls

- Chrome plated cast bronze
- Machined flange to fit hull
- Grooved to retain bedding compound



Part #	Hose	Max. Hull Thickness	OD Flange
PER 350-005-DPC	3/4"	1-5/8"	1-7/8"
PER 350-006-DPC	1"	1-3/4"	2-1/4"

T-H Marine Chromed Thru-Hull



- Look of stainless - price of plastic
- Brite Plate Chrome strengthens part
- Hose ID: 1-1/2"
- Length: 3-1/2"
- Maximum hull thickness: 1-3/4"
- Flange diameter: 2-7/8"
- Installation hole diameter: 1-7/8" - 2"
- Above waterline use only

THM TH-1500CP-DP

Gemlux Barbed 90° Thru-Hull



- 316 cast stainless
- One man installation
- Uniform head/face design
- Translucent silicon gasket included
- Integrated grounding screw

GEM 78001 5/8"

Gemlux Threaded Thru-Hulls

- 316 cast stainless steel with GEMLUX polish finish
- Solid silicone gasket
- One man installation
- Includes grounding screw on nut
- Engineered and built to ABYC specifications



Part #	Pipe	Max. Hull Thickness
GEM 70002	3/4"	1-1/2"
GEM 73003-2	3/4"	5"
GEM 70003	1"	1-7/8"
GEM 70004	1-1/4"	2"
GEM 70005	1-1/2"	2-1/4"
GEM 70006	2"	2-3/8"

Gemlux Barbed Thru-Hulls

- 316 Cast stainless steel with GEMLUX polish finish
- Neck is threaded to approximately 3/8" from flange
- Solid silicone gasket
- One man installation
- Includes grounding screw on nut
- Engineered and built to ABYC specifications



71000 Series

Part #	Hose	Shank Length	Max. Hull Thickness
GEM 71001	5/8"	3.06"	1-1/16"
GEM 71002	3/4"	3.62"	1-5/8"
GEM 71003	1"	3.73"	1-3/4"
GEM 72004-2	1-1/8"	2.75"	3/4"
GEM 71004	1-1/8"	3.73"	1-3/4"
GEM 71005	1-1/4"	3.84"	1-7/8"
GEM 71006	1-1/2"	3.84"	1-7/8"



72000 Series

Buck Algonquin Thru-Hull Step Wrenches



- Made from plated malleable iron
- Prevents thru-hull turning while nut is tightened

BUC 3BTHW-50-150 Fits 1/2" to 1-1/2" thru-hulls
BUC 3BTHW-20-250 Fits 2" to 2-1/2" thru-hulls

Whitecap Thru-Hulls

- 316 stainless steel

Part #	Hose	Length	Max Hull Thickness
WHI 6918	3/4"	3-5/16"	3"
WHI 6920	1"	3-1/2"	3"
WHI 6921	1-1/4"	3-1/2"	3"
WHI 6922	1-1/2"	3-1/2"	3"
WHI 6923	2"	3-1/2"	4-3/8"



Whitecap Thru-Hulls with Barb



- 316 stainless steel

Part #	Hose	Length	Flange OD	Max Hull Thickness
WHI 6546	5/8"	3-3/4"	1-7/8"	1-1/16"
WHI 6547	3/4"	3-3/4"	1-7/8"	1-5/8"
WHI 6548	1"	3-7/8"	2-1/4"	1-3/4"
WHI 6549	1-1/8"	3-7/8"	2-1/4"	1-3/4"
WHI 6550	1-1/4"	4-1/4"	2-3/4"	1-7/8"
WHI 6551	1-1/2"	4-3/8"	3"	1-7/8"

Whitecap 90° Duplex Thru-Hulls

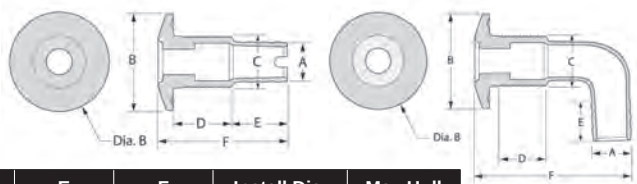


- Constructed of a durable stainless steel that is more dense and has greater rust resistance than 316

Part #	Hose	Length	Flange OD	Max Hull Thickness
WHI 6576X	5/8"	3-1/8"	1-7/8"	1-1/4"
WHI 6577X	3/4"	3-1/8"	1-7/8"	1-1/4"
WHI 6578X	1"	3-1/2"	1-7/8"	1-1/4"
WHI 6579X	1-1/8"	3-1/2"	1-7/8"	1-1/4"

Attwood Composite Thru-Hulls

- Manufactured with high quality stainless steel caps and engineered composite bodies
- Designed to resist degradation as a result of chemical and saltwater exposure
- "Single operator" installation



Part #	Style	A (I.D.)	B	C (O.D.)	D	E	F	Install Dia.	Max Hull
ATT 68555-1	Straight	5/8"	1-7/8"	1.27"	1.54"	1"	3.39"	1-3/8"	1.30"
ATT 68554-1	Straight	3/4"	1-7/8"	1.27"	1.54"	1"	3.36"	1-5/16"	1.30"
ATT 68556-1	Straight	1"	1-7/8"	1.27"	1.54"	1"	3.39"	1-5/16"	1.30"
ATT 68557-1	Straight	1-1/8"	1-7/8"	1.27"	1.54"	1.3"	3.36"	1-5/16"	1.30"
ATT 68551-1	Straight	1-1/2"	2-3/8"	1.5"	1.54"	1.6"	3"	1-1/2"	1.40"
ATT 68552-1	Straight	2"	3-1/4"	2.13"	1.9"	1.95"	4.5"	2-3/16"	1.70"
ATT 68576-1	Elbow	5/8"	1-7/8"	1.27"	1.54"	.875"	3.48"	1-5/16"	1.30"
ATT 68577-1	Elbow	3/4"	1-7/8"	1.27"	1.54"	1"	3.48"	1-5/16"	1.30"
ATT 68578-1	Elbow	1"	1-7/8"	1.27"	1.54"	1.125"	3.75"	1-5/16"	1.30"
ATT 68579-1	Elbow	1-1/8"	1-7/8"	1.27"	1.54"	1.5"	3.75"	1-5/16"	1.30"
ATT 68581-1	Elbow	1-1/2"	2-3/8"	1.5"	1.54"	1.5"	4.45"	1-1/2"	1.30"



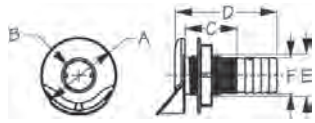


Sea-Dog Dripper Guard Thru-Hulls

- Polypropylene body with investment cast 316 stainless cap
- Drip guard protects from water stains

Part #	Hose	A	B	C	D	E
SED 520860	5/8"	1-7/8"	7/8"	1-3/4"	3-3/8"	1-3/16"
SED 520861	3/4"	1-7/8"	7/8"	1-3/4"	3-3/8"	1-3/16"
SED 520862	1"	1-7/8"	7/8"	1-3/4"	3-3/8"	1-3/16"
SED 520863	1-1/8"	1-7/8"	7/8"	1-3/4"	3-3/8"	1-3/16"





Marelon Thru-Hulls

These thru-hull connectors are precision molded in high-strength non-corrosive Marelon. Their great strength, light weight and complete freedom from corrosion and electrolysis make them ideal. Available with or without screens.

- NPT threads

Marelon Flush Head Threaded - 250 Series

MPS 906000	1/2"	
MPS 906001	1/2"	Screened
MPS 906002	3/4"	
MPS 906003	3/4"	Screened
MPS 906004	1"	
MPS 906005	1"	Screened
MPS 906006	1-1/4"	
MPS 906007	1-1/4"	Screened
MPS 906008	1-1/2"	
MPS 906009	1-1/2"	Screened



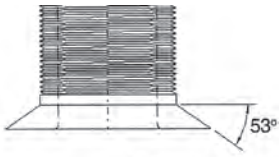
Marelon Mushroom Head Threaded - 251 Series

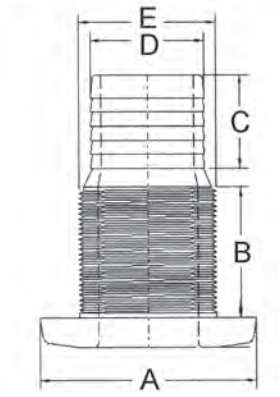
MPS 906010	1/2"	
MPS 906011	1/2"	Screened
MPS 906012	3/4"	
MPS 906013	3/4"	Screened
MPS 906014	1"	
MPS 906015	1"	Screened
MPS 906016	1-1/4"	
MPS 906017	1-1/4"	Screened
MPS 906018	1-1/2"	
MPS 906019	1-1/2"	Screened
MPS 906020	2"	
MPS 906021	2"	Screened



Parts:

MPS 907009 1" thread, replacement nut





Marelon Mushroom Head Hose Barb - 253 Series

MPS 906022	1/2"	
MPS 906023	1/2"	Screened
MPS 906024	3/4"	
MPS 906025	3/4"	Screened
MPS 906026	1"	
MPS 906027	1"	Screened
MPS 906070	1-1/8"	
MPS 906071	1-1/8"	Screened
MPS 906028	1-1/4"	
MPS 906029	1-1/4"	Screened
MPS 906030	1-1/2"	
MPS 906032	2"	
MPS 906033	2"	Screened



Marelon Flush Head Hose Barb - 254 Series

MPS 906038	1-1/4"	
MPS 906039	1-5/8"	
MPS 906036	1-1/2"	
MPS 906037	1-1/2"	Screened
MPS 906034	2"	
MPS 906035	2"	Screened



Series	Size	A	B	C	D	E
250	1/2"	2-3/8"	2"	N/A	N/A	13/16"
	3/4"	2-7/16"	2-1/4"	N/A	N/A	1-1/64"
	1"	2-53/64"	2-3/8"	N/A	N/A	1-9/32"
	1-1/4"	2-53/64"	3"	N/A	N/A	1-41/64"
	1-1/2"	2-13/16"	3"	N/A	N/A	1-27/32"
251	1/2"	1-1/2"	2-1/8"	N/A	N/A	13/16"
	3/4"	2-5/64"	2-1/4"	N/A	N/A	1-1/32"
	1"	2-11/32"	2-13/32"	N/A	N/A	1-9/32"
	1-1/4"	2-21/32"	2-61/64"	N/A	N/A	1-39/64"
	1-1/2"	2-15/16"	2-61/64"	N/A	N/A	1-27/32"
253	1/2"	1-1/2"	1-1/2"	31/32"	43/64"	13/16"
	3/4"	2-7/64"	1-43/64"	1-1/64"	49/64"	1-1/64"
	1"	2-11/32"	1-45/64"	1-3/32"	1-11/64"	1-9/32"
	1-1/4"	2-43/64"	1-13/64"	1-9/32"	1-17/64"	1-39/64"
	1-1/2"	2-15/16"	1-7/8"	1-9/32"	1-1/2"	1-55/64"
	2"	3-1/2"	1-7/8"	1-23/64"	2-1/64"	2-21/64"
254	1/1/4"	2-51/64"	1-1/2"	1-9/32"	1-17/64"	1-39/64"
	1-1/2"	2-13/16"	1-1/2"	1-9/32"	1-15/32"	1-55/64"
	2"	3-33/64"	1-1/2"	1-5/16"	2-1/64"	2-21/64"

Perko Plastic Thru-Hulls



- A molded plastic
- Useful for bait tanks, scuppers, locker drains, bilge discharge, etc
- Not recommended for use below the waterline
- Also available in bulk

Part # White (packaged)	Hose	Flange Dia	Hull	Part # White (bulk)
PER 328-DP4	1/2"	1-1/2"	1-1/4"	PER 328-004-BULK
PER 328-DP4A	5/8"	1-1/2"	1-1/4"	PER 328-04A-BULK
PER 328-DP5	3/4"	1-7/8"	1-7/8"	PER 328-005-BULK
PER 328-DP6	1"	2-1/4"	1-1/2"	PER 328-006-BULK
PER 328-DP6A	1-1/8"	2-1/4"	1-1/2"	PER 328-06A-BULK
PER 328-DP8	1-1/2"	3"	1-7/8"	PER 328-008-BULK

Part # Black (n/a packaged)	Hose	Flange Dia	Hull	Part # Black (bulk)
-	1/2"	1-1/2"	1-1/4"	PER 328-004-BLACK
-	5/8"	1-1/2"	1-1/4"	PER 328-04A-BLACK
-	3/4"	1-7/8"	1-7/16"	PER 328-005-BLACK
-	1"	2-1/4"	1-1/2"	PER 328-006-BLACK
-	1-1/8"	2-1/4"	1-1/2"	PER 328-06A-BLACK

Parts:



PER 326-004 Spare lock nut for 1/2" & 5/8"
PER 326-005 Spare lock nut for 3/4"
PER 326-006 Spare lock nut for 1" & 1-1/8"
PER 326-008 Spare lock nut for 1-1/2"

Attwood Plastic Thru-Hull Connectors



- Molded polypropylene
- Use above the waterline
- Hose: 5/8" ID
- Stem length: 3-1/4"
- Max hull thickness: 1-1/4"
- Flange diameter: 1-3/4"
- Cutout hole size: 1-1/8"

ATT 3872-1

Combination Hose



- Hose: 1-1/8" and 1-1/4" ID
- Stem length: 3-1/4"
- Max hull thickness: 1-1/4"
- Flange diameter: 2-1/4"
- Cutout hole size: 1-3/8"

ATT 3874-3

Sea-Dog Thru-Hull



- Impervious to electrolysis and corrosion
- For use with hose for drainage above the water line
- Constructed of injection molded polypropylene
- Stem length: 3-1/2"
- Max hull thickness: 1-1/2"
- Cutout hole size: 1"

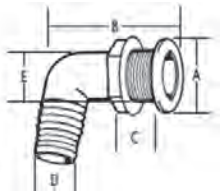
SED 520750-1 3/4" hose

Accessories:

SED 520850-1 Drip guard

T-H Marine 90° Thru-Hulls





- Finished head, single pass around nut
- Polypropylene

Part #	A	B	C	D	E	Colour
THM TH-1290-DP	1-3/4"	3-1/2"	1-1/8"	1-1/8"	1-3/8"	Black
THM TH-1292-DP	1-3/4"	3-1/2"	1-1/8"	1-1/8"	1-3/8"	White
THM TH-1590-DP	2-7/8"	4-1/4"	1-5/8"	1-1/2"	2"	Black

T-H Marine Thru-Hull



- Hose ID: 1-1/2"
- Length: 3-1/2"
- Maximum hull thickness: 1-3/4"
- Flange diameter: 2-7/8"
- Installation hole diameter: 1-7/8" - 2"
- Black polypropylene

THM TH-1500-DP

Attwood Thru-Hull Connectors





- High impact plastic
- Designed for those hard-to-get-at-places

Part #	Hose Size	Hull Thickness	Flange Dia.	
ATT 3877-1	3/4"	1"	1-1/2"	Bulk
ATT 3877-3	3/4"	1"	1-1/2"	Pkg
ATT 3879-3	1-1/8" to 1-1/4"	1-7/8"	2-7/16"	Pkg

Rule Thru-Hull Connector



- 5/8" hose connection
- 90° Plastic thru-hull

RUL 62

Attwood Livewell Connector with Strainer



- Can be used for plumbing or aerator systems
- Strainer keeps seaweed, etc. from entering and clogging pumps
- Hose: 3/4" ID
- Max hull thickness: 1-7/16"
- Cut out hole diameter: 1-1/16"

ATT 3886-3

Marine East Drains



- Flush head w/screen
- White polypropylene is UV resistant and colour stabilized
- 1-5/8" cutout

MEP 6472W 1-1/4"
MEP 6772W 1-1/2"

Marine East L-Head Thru-Hull Drain



- L-head allows total compartment drainage
- UV resistant, colour stabilized
- White polypropylene
- 5/8" hose barb
- 1-1/2" x 1" NPT
- Flange width: 1-29/32"

MEP 6040W

Gemlux Cockpit Drain



- Investment cast stainless steel
- Drain installs from the top
- Uses a foam ball to help reduce back-flow when the operator backs up the boat.
- L: 4.13" x W: 3.63" x H: 4.5"
- Hose size: 1-1/2"

GEM 89501

Gemlux Low Profile Drain



- Stainless steel cap with a nylon body
- Low profile drain installs from the top
- 1-1/2" hose barb with 3-1/2" cap (2-1/4" cutout)
- Stainless steel top is removable to enable quick cleaning
- Depth: 3"

GEM 89509

Gemlux Cockpit Drain



- Stainless steel cap with a nylon body
- Low profile drain installs from the top
- 1-1/2" hose barb with 3-1/2" cap (2-1/4" cutout)
- Depth: 3.5"

GEM 89530

Perko Cockpit Drains



- Plain or chrome plated cast bronze
- Rubber ball backwater check
- For use in sail boats when outlet is below the water line
- Outlet angle is 45°
- Complete with key

Part #	Finish	Hose	OD Grate	OD Flange
PER 142-001-PLB	Bronze	1"	1-13/16"	3-1/4"
PER 142-002-CHR	Chrome	1-1/2"	2-1/4"	3-5/8"

Perko Flush Mount Drains



- Chrome plated cast bronze body with brass screen
- For use with pipe fittings
- The exterior surface of the flange is machined flat and designed to be countersunk into the hull

Part #	Pipe	Max Depth	OD Flange
PER 361-005-CHR	3/4"	2-3/8"	2"
PER 361-007-CHR	1-1/4"	2-15/16"	2-7/8"

Attwood Bulkhead Connector



- High-impact white plastic
- Hose: 3/4" ID
- Overall length: 5"
- Max hull thickness: 1-1/4"
- Cutout hole diameter: 1-1/8"

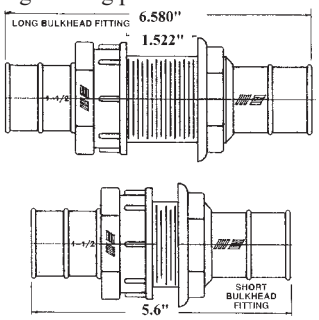
ATT 3878-3

Marine East Bulkhead Fittings



- Reduces hose and cable chafing
- Ideal for hose, cable, or wires
- Sizes available to fit marine hoses from 5/8" to 1-1/2"
- Molded of high-strength black engineering plastic for long-term durability

MEP 7900	1-1/2", long
MEP 7910	1-1/2", short
MEP 7920	1-1/4", long
MEP 7930	1-1/4", short
MEP 7940	1-1/8", long
MEP 7950	1-1/8", short
MEP 7960	1", long
MEP 7970	1", short
MEP 7980	3/4"
MEP 7990	5/8"



Sea-Dog Dripper Guard



- Channel design redirects water out and away from the hull
- Easy installation; peel backing and press along the bottom edge of your thru-hull
- Nitrile-buna rubber construction

SED 520840-1	to 1-7/8", White
SED 520841-1	to 1-7/8", Black
SED 520842-1	to 2-5/8", White
SED 520843-1	to 2-5/8", Black

Buck Algonquin Bronze Intake Strainers



- One-piece, cast bronze, plain finish
- High-speed intake strainer admits full supply of water at all speeds

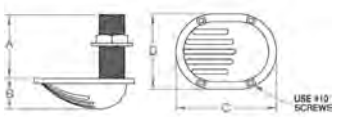
Part #	NPS Size	Stem Length	Base Size	Base
BUC IS-50	1/2"	2-1/2"	2-3/4" x 3-3/4"	Web
BUC IS-75	3/4"	2-1/2"	2-3/4" x 3-3/4"	Web
BUC IS-100	1"	2-1/2"	2-3/4" x 3-3/4"	Web
BUC IS-125	1-1/4"	3"	3-7/8" x 5-3/4"	Oval
BUC IS-150	1-1/2"	3-1/2"	3-7/8" x 5-3/4"	Oval

Buck Algonquin Bronze Scoop Strainers



- Cast bronze

Part #	Outside Dimensions	Covers Thru-Hulls	Fastener
BUC SS-500	5" x 3-1/4"	3/4"	#8
BUC SS-600	6" x 4"	1"	#8
BUC SS-650	6-1/2" x 4-1/4"	1-1/4"	#8
BUC SS-850	8-1/2" x 5-1/2"	1-1/2" & 2"	#10
BUC SS-1100	10-1/2" x 7-3/8"	2-1/2" & 3"	1/4"



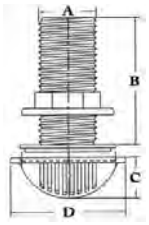


Groco Bronze Combo Scoop Thru-Hulls

- Designed for increased flow compared to standard thru hulls
- All bronze castings
- Comes with nut
- NPSM / NPT combination thread

Part #	NPS Size	A	B	C	D
GRO STH-500-W	1/2"	2.20"	1.05"	3.28"	2.55"
GRO STH-750-W	3/4"	2.20"	1.05"	4"	3.05"
GRO STH-1000-W	1"	2.85"	1.05"	4"	3.05"
GRO STH-1250-W	1-1/4"	2.90"	1.20"	4.30"	3.35"





Marelon Thru-Hull Scoop Strainers

- High-strength non-corrosive white Marelon
- Two piece construction allows for greater ease in installation
- Threads: NPT

Part #	Thread	A	B	C	D
MPS 906059	3/4"	1-1/32"	2-1/4"	1"	3-1/8"
MPS 906060	1-1/4"	1-5/8"	2-15/16"	1"	3-3/8"

Parts:

MPS 906061	3/4"	Screen only
MPS 906062	1-1/4"	Screen only

Perko Bronze Scoop Strainer



- Cast bronze
- Use #8 fasteners

Part #	Outside Dimensions	Covers Thru-Hulls
PER 66-DP1-PLB	3-1/2" x 2-1/2"	3/8" & 1/2"



Perko Bronze Round Strainers

- Cast bronze

Part #	Thru Hull	Outside Diameter	Inside Diameter	Screw
PER 86-DP1-PLB	3/8" &1/2"	2-1/2"	1-5/8"	#8
PER 86-DP2-PLB	3/4"	3"	2"	#8
PER 86-DP3-PLB	1"	3-1/2"	2-3/8"	#8
PER 86-DP4-PLB	1-1/4" & 1-1/2"	4"	3"	#8
PER 86-DP5-PLB	2"	5"	3-3/4"	#8
PER 86-006-PLB	2-1/2"	6"	4-1/2"	#10
PER 86-007-PLB	3"	8"	6-1/4"	#10

Marelon Intake Strainer

- Integral mounting bracket
- Marelon body with clear polycarbonate lid for ready inspection
- Stainless steel strainer basket
- Mounting bracket system allows the strainer body to be turned in any direction
- Ports are 1-1/2" NPSM female threads
- Diameter: 6.3" x Height: 6.1"
- Flow rate: 40 GPM



MPS 906066

Parts:

MPS 906065 *	Stainless basket only
MPS 906067	Gasket set
MPS 920178	Cover only
MPS 920179	Knob

* Special Order

Vetus Intake Strainers

- Transparent cover allows easy inspection of the filter
- Cleaning of the filter can be achieved quickly and easily
- Housing: Polypropylene GF
- Filter element: HD Polyamide
- Cover: Styrol/Acrylnitril SAN
- H: 6.4" x Dia: 5.83"



VTS FTR330/13	1/2" hose
VTS FTR330/16	5/8" hose
VTS FTR330/25	1" hose
VTS FTR330/32	1-1/4" hose
VTS FTR330/38	1-1/2" hose

Parts:

VTS FTR3301	O-ring set & cover
VTS FTR3302	O-ring set
SVW FTR-330-SPAN	Lid removal wrench

Vetus Intake Strainer

- Strainers are provided with a transparent cover, allowing easy inspection of the filter
- Cleaning of the filter can be achieved quickly and easily
- Housing: Polypropylene GF
- Filter element: Polyamide
- Cover: ABS
- Hose: 1-1/8"
- H: 5.75" x Dia:5.63"



VTS FILTER150

Marine Hardware Universal Mount Sea Strainer

- Cast bronze housing
- Pull out strainer screen assembly
- Plastic bowl is securely fastened to the manifold with a bronze retainer ring plate
- Design ensures a firm mount to the engine stringer and allows full 360º rotation of the top housing
- For left and right hand engine installations
- H: 13.68" x W: 8.25"
- 2" NPT ports



MHI SEAS-UM-200SM

Parts:

MHI SEAS-SCREEN-2.000	Replacement screen
MHI SEASBOWL200/250 *	Replacement bowl

* Special Order

Buck Algonquin Arctic Stainless Steel Intake Water Strainers

- Electro-polished AISI 2205 stainless steel
- One piece cast construction
- ABS basket
- Cast anode connection point
- Swing down eye bolts
- Drain plug



Bottom In Side Out	Side In Side Out	A	B	C	D	Weight lbs
BUC 70WS-BISO-100-S *	-	6.1"	9.2"	1"	3.7"	6.8
BUC 70WS-BISO-150-S *	-	6.1"	9.2"	1.5"	3.7"	7.1
BUC 70WS-BISO-200-S *	-	8.3"	10.8"	2"	5.5"	14.8
-	BUC 70WS-SISO-150-S *	7.9"	10.6"	1.5"	6.4"	15
-	BUC 70WS-SISO-250-S *	9.25"	14.4"	2.5"	6.5"	30
	BUC 70WS-SISO-300-S *	9.25"	14.4"	3"	6.5"	32.6

* Special Order

Perko Raw Water Strainers

Perko strainers use outside tie rods to reduce electrolysis. The cast bronze head incorporates wingnut cap tie downs for quick removal and cleaning of the Type 304 stainless steel strainer. Integral mounting lugs on both sides of the top and bottom allow for universal mounting. The cast bronze bottom also incorporates a bronze plug to facilitate winterization. These units are listed by Underwriters Laboratories of the U.S. for marine use.

Part #	Pipe Size	Cylinder	Strainer	Height	Width
PER 493-004-PLB	1/2"	3-1/2" x 4"	1-13/16" x 4-3/8"	5-3/4"	4-1/2"
PER 493-005-PLB	3/4"	3-1/2" x 6"	1-13/16" x 6-1/4"	8-3/8"	4-1/2"
PER 493-006-PLB	1"	4-1/2" x 5-1/2"	2-5/8" x 5-7/8"	9-1/2"	5-1/2"
PER 493-007-PLB	1-1/4"	4-1/2" x 6"	2-5/8" x 6-1/4"	10"	5-1/2"
PER 493-008-PLB	1-1/2"	6" x 8"	3-5/16" x 8-7/16"	11-1/2"	7-1/4"
PER 493-009-PLB	2"	6" x 12"	3-5/16" x 12-1/4"	16"	7-1/2"



493 Series

Replacement Cover Bolt Assembly	
PER 493-DP5-99L	Cover bolt for 493 #4+5
PER 493-DP7-99L	Cover bolt for 493 #6 + #7
PER 493-DP9-99L	Cover bolt for 493 #8 + #9 + #10

Gasket Kits	
PER 493-DP5-99M	Cork 493 #4 + #5
PER 493-DP5-99R	Rubber 493 #4 + #5
PER 493-DP7-99M	Cork 493 #6 + #7
PER 493-DP7-99R	Rubber 493 #6 + #7
PER 493-DP9-99M	Cork 493 #8 + #9 + #10
PER 493-DP9-99R	Rubber 493 #8 + #9 + #10
PER 500-DP9-99M	Cork 500 #9 + #10 #11
Consist of 1 cover gasket and 2 cylinder gaskets	

Replacement Cylinders	
PER 493-004-99C	493 #4
PER 493-005-99C	493 #5
PER 493-006-99C	493 #6
PER 493-007-99C	493 #7
PER 493-008-99C	493 #8
PER 493-009-99C	493 #9
PER 493-010-99C	493 #10

Replacement Basket Strainers	
PER 493-004-99D	493 #4
PER 493-005-99D	493 #5
PER 493-006-99D	493 #6
PER 493-007-99D	493 #7
PER 493-008-99D	493 #8
PER 493-009-99D	493 #9
PER 493-010-99D	493 #10
PER 500-011-99D	500 #11



500 Series

Groco ARG Series Raw Water Strainers

The ARG series of strainers uses a one-piece sight glass, eliminating tie rods and bottom end cap. The cast bronze or stainless steel head has a spin off cap allowing easy cleaning of the stainless steel basket. The cap and sight glass are sealed to the head with Buna-N O-rings. The quick mounting system allows for removal of the strainer without tools. These units are listed by Underwriters Laboratories of the US for marine use. The female pipe connection size is indicated by the part number, i.e., ARG 1250 is 1-1/4".



ARGS
Stainless series

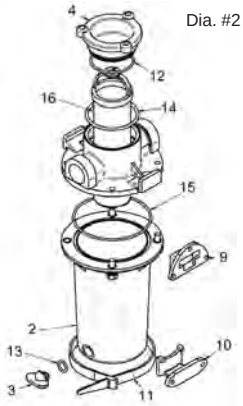
Part #	Material	Pipe	A	B	C	D	Ratio	lbs
GRO ARG-500-S	Bronze	1/2"	6.4	4.5	5.3	1.5	54	3.5
GRO ARG-750-S	Bronze	3/4"	8.4	4.5	5.3	1.5	36	3.7
GRO ARGS-755-S	Stainless							3.4
GRO ARG-1000-S	Bronze	1"	9.0	5.8	6.5	2.0	28	5.8
GRO ARGS-1000-S	Stainless							6.0
GRO ARGS-1210-S	Stainless	1-1/4"	9.2	5.8	6.5	2.3	18	6.1
GRO ARG-1250-S	Bronze	1-1/4"	10.6	5.8	6.5	2.3	24	6.4
GRO ARG-1500-S	Bronze	1-1/2"	11.4	7.3	7.8	2.5	20	9.6
GRO ARGS-1500-S	Stainless							10.0
GRO ARG-2000-S	Bronze	2"	14.0	7.3	7.5	2.8	14	12.2
GRO ARG-2500-S	Bronze	2-1/2"	17.0	7.3	7.8	3.1	11	14.2
GRO ARG-3000-S	Bronze	3"	19.8	7.3	7.8	3.5	9	17.3

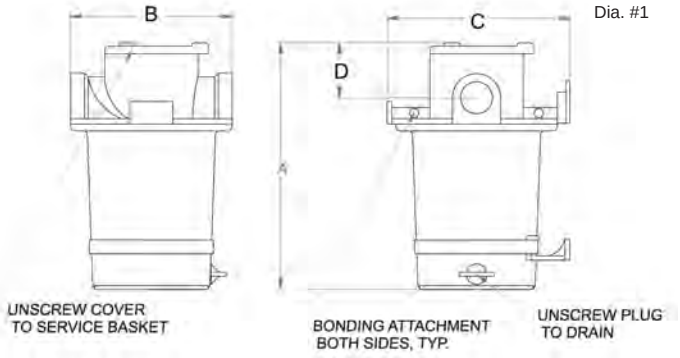


Groco Service Kits (Dia. #2)

Includes:
5 x #5 washer
1 x #12 O-ring
1 x #13 O-ring
1 x #14 O-ring
1 x #15 O-ring

GRO ARG-1 Service kit
GRO ARG-2 Service kit
GRO ARG-3 Service kit
Parts:
GRO ARG-756 Drain nut & washer





Part #	ARG 500-S	ARG 750-S	ARG 1000-S	ARG 1250-S	ARG 1500-S	ARG 2000-S	ARG 2500-S	ARG 3000-S
S/S Basket (16)	BS-1	BS-2	BS-3	BS-5	BS-6	BS-8	BS-11	BS-15
Monel Basket (16)	BM-1 *	BM-2	BM-3	BM-5 *	BM-6 *	BM-8	BM-11 *	BM-15 *
Poly Basket (16)	BP-1 *	BP-2 *	BP-3 *	BP-5 *	BP-6 *	BP-8 *	BP-11 *	BP-15 *
Sight Glass (2)	ARG-503	ARG-753	ARG-1003	ARG-1253	ARG-1503	ARG-2003	ARG-2503	ARG-3003
Glass O-ring (15)	2-153	2-153	2-157	2-157	2-256	2-256	2-256	2-256
Cap O-ring (12)	2-228	2-228	2-232	2-232	2-234	2-234	2-234	2-234
O-ring (14)	2-135 *	2-135 *	2-229 *	2-229 *	2-238	2-238	2-238	2-238
Strap (11)	ARG-502	ARG-502	ARG-502	ARG-502	ARG-1502 *	ARG-1502 *	ARG-1502 *	ARG-1502 *
Drain Nut (3) Pre 2001	ARG-506	ARG-506	ARG-506	ARG-506	ARG-506	ARG-506	ARG-506	ARG-506
Drain Nut (3) Post 2001	ARG-756	ARG-756	ARG-756	ARG-756	ARG-756	ARG-756	ARG-756	ARG-756
Lower Bracket (10)	ARG-504	ARG-504	ARG-1004	ARG-1004	ARG-1504 *	ARG-1504 *	ARG-1504 *	ARG-1504 *
Upper Bracket (11)	ARG-505	ARG-505	ARG-1005	ARG-1005	N/A	N/A	N/A	N/A
Top Cap-Plastic (4)	ARG-501-PC	ARG-501-PC	ARG-1001-PC	ARG-1001-PC	ARG-1501-PC	ARG-1501-PC	ARG-1501-PC	ARG-1501-PC
Kit Part #	ARG-1	ARG-1	ARG-2	ARG-2	ARG-3	ARG-3	ARG-3	ARG-3

* Special Order - may have stock

Groco Service Kits for SA Series Strainers

Kit contains 2 each cylinder gaskets, 1each nut cover gasket and 1each wing nut washer.

GRO SA-2 SA-1000/SA-1250
GRO SA-3 SA-1500/SA-2000/SA-2500/SA-3000

All Groco baskets have an improved design, incorporating a series of knockouts making them compatible with the ARG, SA, VD and 932 series strainers.

► Also See Trac Flush Caps pg 06-030

Marine Hardware Brass Garboard Drain Plug



- Cast brass with a 1/2" NPT square head plug
- 1-7/8" dia. flange
- 3/8" spigot
- Use #8 fasteners

MHI GARB-0.500-P

Moeller Garboard Drain Plug



- Stainless steel 1/2" IPT thread
- Flanged 90° on one end to function as a drain for transom, motorwell, livewell, or baitwell
- 2" OD flange
- 1/2" IPT
- 5/8" deep

MOE 020306-10

Perko Garboard Drain Plug



- Bronze with machined 1/2" NPT plug
- UL Listed
- 2" dia. flange
- 1/2" spigot
- Use #8 fasteners

PER 714-DP1-PLB

Perko Garboard Drain Plug



- Cast bronze, thru-hull style garboard drain
- Maximum hull thickness 3/4"
- Pipe size: 3/4"
- Length of threaded neck: 1-1/4"
- OD flange: 2-3/8"

PER 363-DP-PLB

Parts:

PER 370-DP-PLB Spare plug

Sea-Dog Bronze Garboard Drain Plugs



- Machined bronze
- 2" diameter with 1/2" NPT plug

SED 520040-1 Complete set
SED 520041-1 Replacement plug
SED 520056-1 Replacement plug, nylon



- POP display with 30 replacement plugs

SED 520041-5 Plug, bulk

Sea-Dog Garboard Drain T-Handle Plug



- Die cast bronze
- Pipe size: 3/4" NPT
- Overall length: 3-1/2"

SED 520047-1

Sea-Dog Emergency Garboard Drain Plugs



- Features an attached key ring
- Fits most 1/2" NPT threaded drains
- Injection molded nylon

SED 520059-1 2/pkg
SED 520059-5 Display pkg/30

Marelon Garboard Drain



- Drain and screw plug assembly
- Fits up to 1-3/4" thick applications
- Made of precision molded Marelon
- 3/4 Thread, flange: 2", cutout: 1"

MPS 906081

Sea-Dog Garboard Drain



- Flange: 2-3/16", Length: 2-3/16", Pipe: 1-1/8"
- Injection molded nylon
- Use #8 FH fasteners

SED 520050-1 Drain/plug
SED 520051-1 Replacement plug

Sea-Dog Plugmate Garboard Wrench



- Injection molded polypropylene fibreglass
- Fits most standard and "T" style garboard plugs
- In addition, it has various deck plate keys and a shackle key
- Includes a replacement plug #520041

SED 520045-1

Sea-Dog Captive Garboard Drain Plug



- Investment cast 316 stainless steel
- A direct replacement for the traditional style bronze garboards
- Captive plug means no more lost plug
- 2" dia x 2-5/8" deep

SED 520060-1

Sea-Dog Oblong Captive Garboard Drain Plug



- Investment cast 316 stainless steel construction
- Sits low in the seam for complete water removal
- 2-7/16" width x 2-5/8" deep

SED 520065-1

Marelon Drain Plug



- Typically used for transom drains
- Molded in high-strength non-corrosive Marelon
- Fitted with a neoprene seal and stainless steel retainer
- 1" cutout

MPS 907001

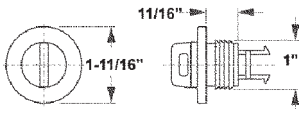
Seaview Inteliplug Pro Drain Plug



- Triangular ergonomic cap requires no tools to tighten or loosen. Spring-loaded so it stays attached
- No silicone needed, the modified NPT threads form a primary seal, which combines with the tension of the integrated O-ring for a secondary seal
- 3 individual large drain cavities provide plenty of total flow area for water to exit the hull
- Approved for all marine environments, including salt water
- Glass fibre reinforced ABS
- 2" OD

SVW SVIPPRO

Sea-Dog Drain Plugs

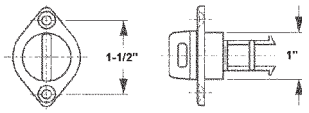




- Fits securely in a 1" hole without the use of fasteners
- The ridges on the body of the drain plug are designed to keep the plug in place
- Sealant should be applied prior to installation to make a watertight seal

SED 520030-1 Injection molded nylon
SED 520021-1 Replacement plug

Sea-Dog Drain Plugs





Molded in captive mechanism keeps the plug in the body but still allows for easy removal when required.

- Use #10 FH

SED 520010-1 Injection molded nylon
SED 520020-1 Chrome brass base/nylon plug
SED 520021-1 Replacement plug

T-H Marine Push-In Plug



- Injection molded black plug
- Large ring for easy removal
- Double ring seal design is used to stop water flow through drains from baitwell or livewell tanks

THM PP-150-DP 1-1/2"

Sea-Dog Snap Handle Drain Plugs



- Stamped brass, stainless steel or aluminum

SED 520070 1" Brass
SED 520070-1 1" Brass
SED 520071-1 1" Brass w/chain
SED 520072 1-1/4" Brass
SED 520072-1 1-1/4" Brass
SED 520075-1 1" Stainless steel
SED 520075 1" Stainless steel

Suffix (-1) indicates display package



- POP display with 25 brass snap plugs

SED 520070-5 1" Brass, bulk

- POP display with 20 stainless snap plugs

SED 520075-5 1" Stainless, bulk

Sea-Dog T-Handle Drain Plugs



Stamped brass, stainless steel or aluminum.

SED 520080 1" Brass
SED 520080-1 1" Brass
SED 520085-1 1" Stainless steel
SED 520086-1 1-1/4" Stainless steel

Suffix (-1) indicates display package



- POP displays with drain plugs

SED 520080-5 1" Brass, 30/pkg
SED 520085-5 1" Stainless, 20/pkg

Sea-Dog Drain Flaring Tools



- Drain tube flaring tool
- Use to install brass or aluminum drain tubes
- Stainless steel/zinc plated steel construction

SED 520290-1 1" tube
SED 520295-1 1-1/4" tube

Sea-Dog Baitwell Plugs



- Stamped brass, neoprene plug

Part #	Dia.	Packaging
SED 520091	3/8"	Bulk
SED 520091-1	3/8"	2/pkg
SED 520092	1/2"	Bulk
SED 520092-1	1/2"	2/pkg
SED 520093	5/8"	Bulk
SED 520093-1	5/8"	2/pkg
SED 520094	3/4"	Bulk
SED 520094-1	3/4"	2/pkg
SED 520095	7/8"	Bulk
SED 520095-1	7/8"	2/pkg

Suffix (-1) indicates display package

T-H Marine Baitwell Plug



- Self-retaining plug has strong threads to maintain seal under high vibration, with special design to prevent cross thread
- Chemically inert o-ring for positive seal
- Back side of flange has a groove to hold sealant for positive waterproof mounting
- Flange dimensions: 1-1/2" x 2"
- Mounts in 1" dia. hole using (2) #8 stainless screws

THM DP-1-DP

Marelon Well Drain



- Precision molded from acetyl resin (Delrin)
- Can also be used for other applications such as a chafe guard to lead hose, wiring, steering cables, etc. through bulkheads, floor timbers and fibreglass panels
- Barbs on OD ensure positive locking action
- Cutout: 1" x Flange 1-1/4" dia. x L: 2-1/2"

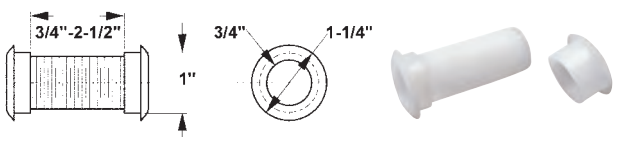
MPS 907006

Gemlux Well Drain



- Cross-bar keeps the drain clear of trash that can clog other splash well drains
- Stainless steel endcaps and plastic tube
- D: 1.25" x L: 5.38" x Flange: 1.875"

GEM 73100



Sea-Dog Drain Tube

- Injected molded nylon

SED 520320-1

Sea-Dog Drain Tubes



- Formed brass tube

SED 520210	1" x 1-7/8"
SED 520210-1	1" x 1-7/8"
SED 520220-1	1" x 2-3/8"
SED 520230-1	1" x 2-7/8"

Suffix (-1) indicates display package

Accessories:

SED 520290-1	Flaring tool

T-H Marine 90° Drain



- Molded white 90° drain
- Mounts in a 1-3/8" dia. hole
- Secured with retaining nut
- Hose barb for 3/4" hose

THM APD-290F-DP	Flat head

Buck Algonquin Stainless Pipe to Hose Adapters



- Cast 316 stainless steel male pipe thread to hose connectors

BUC RN-33	3/8"
BUC RST-1	1/2"
BUC RST-5	3/4"
BUC RST-10	1"
BUC RST-15	1-1/4"
BUC RST-20	1-1/2"
BUC RST-25	2"
BUC RST-30	2-1/2"

Buck Algonquin Bronze Pipe to Hose Adapters



- Cast bronze male pipe thread to hose connector

Part #	Pipe	Hose
BUC HN-50	1/2"	1/2"
PER 76-DP4-PLB	1/2"	5/8"
BUC HN-75	3/4"	3/4"
BUC HN-75100	3/4"	1"
BUC HN-100	1"	1"
BUC HN-125	1-1/4"	1-1/4"
BUC HN-150	1-1/2"	1-1/2"
BUC HN-150-5	1-1/4"	1-1/2"
BUC HN-200	2"	2"
BUC HN-250	2-1/2"	2-1/2"
BUC HN-300	3"	3"

Buck Algonquin 90° Pipe to Hose Adapters



- Cast bronze, 90° elbow male pipe thread to hose connector

BUC HN-75-E	3/4"
BUC HN-100-E	1"
BUC HN-125-E	1-1/4"
BUC HN-150-E	1-1/2"
BUC HN-200-E	2"
BUC HN-250-E	2-1/2"

Groco Bronze Pipe to Hose Full Flow Adapters



- Cast bronze male pipe thread to hose connector
- Full flow adapters provide a larger internal diameter, with the same external specs for superior flow

Part #	Pipe	Hose
GRO FF-500	1/2"	3/4"
GRO FF-750	3/4"	1"
GRO FF-1000	1"	1-1/4"
GRO FF-1125	1"	1-1/8"
GRO FF-1250	1-1/4"	1-1/2"
GRO FF-1500	1-1/2"	1-3/4"
GRO FF-2000	2"	2-1/4"

Groco 90° Street Elbows



- Bronze

GRO STREET-ELL-2	1/2"
GRO STREET-ELL-18	3/4"
GRO STREET-ELL-3	1"
GRO STREET-ELL-4	1-1/4"
GRO STREET-ELL-9	1-1/2"

Groco Bronze Pipe To Hose 90°



- Full flow
- All bronze castings

Part #	Pipe	Hose
GRO FFC-750	3/4"	1"
GRO FFC-1250	1-1/4"	1-1/2"
GRO FFC-2000 *	2"	2-1/4"

* Special Order - may have stock

Groco Bronze Pipe To Hose Adapters

- All bronze castings
- NPT thread

Part #	Pipe	Hose
GRO PTH-500	1/2"	1/2"
GRO PTH-5062	1/2"	1/2" or 5/8"
GRO PTH-750	3/4"	3/4"
GRO PTH-1000	1"	1"
GRO PTH-1125	1-1/4"	1-1/8"
GRO PTH-1250	1-1/4"	1-1/4"
GRO PTH-1500	1-1/2"	1-1/2"
GRO PTH-2000	2"	2"



PTH-5062

Groco 90° Pipe to Hose Adapters

- Bronze standard flow

Part #	Pipe	Hose
GRO PTHC-5062	1/2"	1/2" or 5/8"
GRO PTHC-750	3/4"	3/4"
GRO PTHC-1000	1"	1"
GRO PTHC-1250	1-1/4"	1-1/4"
GRO PTHC-1500	1-1/2"	1-1/2"
GRO PTHC-2000	2"	2"



PTHC-5062



PTHC-1000

Groco 45° Male Pipe to Hose Adapters

- Bronze standard flow

Part #	Pipe	Hose
GRO PTHD-750	3/4" NPT	3/4"
GRO PTHD-1000	1" NPT	1"
GRO PTHD-1250	1-1/4" NPT	1-1/4"
GRO PTHD-1500	1-1/2" NPT	1-1/2"



Groco Pipe Nipples

- Bronze full flow
- Cast-in wrench flat



GRO PN-500	1/2"
GRO PN-750	3/4"
GRO PN-1000	1"
GRO PN-1250	1-1/4"
GRO PN-1500	1-1/2
GRO PN-2000	2"


230310


230312


230311


230313


238798


238802


231104


231113


231161


231425


341513

Sealand PVC Hose Fittings

These 1-1/2" hose barbs are smooth on the outside which makes for a better seal between the hose and the fitting, and allow removal of the hose for servicing the plumbing system. All fittings require priming and gluing except for part numbers with the 'A' suffix which are pre-assembled and ready for use.

SLD 341513	1-1/2" Custom hose adaptor
SLD 231104	45º Street elbow
SLD 231425	1-1/2" MPT to pipe or custom hose adapter
SLD 231161	90˚ street elbow
SLD 230312	Hose adaptor includes 341513
SLD 230312-A	Adaptor includes 341513
SLD 230311	90˚ sweep elbow includes adaptors
SLD 230311-A	90˚ sweep elbow includes adaptors
SLD 230310	Hose mender kit
SLD 238802	Tee kit includes adaptors
SLD 238802-A	Tee kit includes adaptors
SLD 230313	Double bend kit includes adaptors
SLD 238798	"Y" kit includes adaptors
SLD 238798-A	"Y" kit includes adaptors
SLD 231113 †	Reducing adaptor 1-1/2" - 1"

A Suffix parts are pre-assembled

† Non PVC part, cannot be glued

Attwood Hose Connectors

- 90º or straight hose-to-thread connector
- Barbed end accommodates 3/4" ID hose
- Acetal construction

ATT 3890-1	90°, 3/4-14 thread
ATT 3899-3	Straight, fits 3/4" FNPT



Tuff-Lite Nylon 'T' Hose Fittings

- Light and durable nylon fittings



TLF TSSS-222	1/4"
TLF TSSS-333	3/8"
TLF TSSS-444	1/2"
TLF TSSS-666	3/4"

Tuff-Lite Nylon Male Pipe to Hose Adapters

- Light and durable nylon fittings

Part #	Hose	MPT
TLF TN-22	1/4"	1/4"
TLF TN-23	1/4"	3/8"
TLF TN-33	3/8"	3/8"
TLF TN-34	3/8"	1/2"
TLF TN-44	1/2"	1/2"
TLF TN-46	1/2"	3/4"
TLF TN-54	5/8"	1/2"
TLF TN-56	5/8"	3/4"
TLF TN-64	3/4"	1/2"
TLF TN-66	3/4"	3/4"
TLF TN-68	3/4"	1"
TLF TN-86	1"	3/4"
TLF TN-88	1"	1"
TLF TN-150	1-1/4"	1-1/4"
TLF TN-2015	1-1/2"	1-1/4"
TLF TN-200	1-1/2"	1-1/2"
TLF TN-250	2"	2"



Tuff-Lite Nylon 90° Male Pipe to Hose Adapters

- Light and durable nylon fittings

Part #	Hose	MPT
TLF TLS-21	1/4"	1/8"
TLF TLS 22	1/4"	1/4"
TLF TLS-32	3/8"	1/4"
TLF TLS-33	3/8"	3/8"
TLF TLS-44	1/2"	1/2"
TLF TLS-46	1/2"	3/4"
TLF TLS-48	1/2"	1"
TLF TLS-54	5/8"	1/2"
TLF TLS-56	5/8"	3/4"
TLF TLS-66	3/4"	3/4"
TLF TLS-86	1"	3/4"
TLF TLS-88	1"	1"



Tuff-Lite Nylon Hose to Hose Fittings



- Light and durable nylon fittings

TLF TM-3	3/8"
TLF TM-4	1/2"
TLF TM-5	5/8"
TLF TM-6	3/4"
TLF TM-8	1"
TLF TM-16	1-1/4"
TLF TM-21	1-1/2"
TLF TM-26	2"

Tuff-Lite Nylon 'T' Hose x Hose x MPT Fitting



- Light and durable nylon fittings

TLF TSST-444	1/2"

Shields Hose Connectors



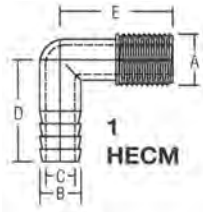


- Fibreglass reinforced nylon fittings designed to fit series 101, series 105, series 144, and series 148 hoses without heating or special tools
- Chemical and fuel resistant and will not cause electrolysis
- Primarily used in sanitation systems, deck drain systems and water tank fill

SHI N800-1120B	Straight male, 1-1/2" MPT x 1-1/2" hose
SHI N801-1120	Straight female, 1-1/2" FPT x 1-1/2" hose
SHI N802-1120	90° male, 1-1/2" MPT x 1-1/2" hose
SHI N803-1120	90° female, 1-1/2" FPT x 1-1/2" hose
SHI N806-1120	Tee 1-1/2" hose

Marelon 90° Male Pipe to Hose Adapters



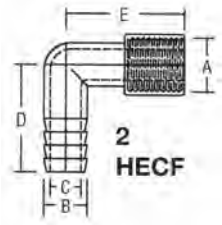


- Threads: NPSM

Part #	A	B	C	D	E
MPS 901000	1/2"	5/8"	7/16"	2"	1-1/2"
MPS 901001	3/4"	3/4"	1/2"	2-1/8"	1-5/8"
MPS 901002	1"	1"	5/8"	2-1/2"	1-7/8"
MPS 901003	1-1/4"	1-1/4"	7/8"	2-3/4"	2-5/16"
MPS 901004	1-1/2"	1-1/2"	1-1/16"	3-1/4"	2-3/4"
MPS 901005	2"	2"	1-1/2"	3-5/8"	3-1/4"

Marelon 90° Female Pipe to Hose Adapters





- Threads: NPSF

Part #	A	B	C	D	E
MPS 901006	1/2"	5/8"	7/16"	2"	1-5/8"
MPS 901007	3/4"	3/4"	9/16"	2-3/16"	1-3/4"
MPS 901008	1"	1"	5/8"	2-1/2"	1-7/8"
MPS 901009	1-1/4"	1-1/4"	7/8"	2-3/4"	2-1/2"
MPS 901010	1-1/2"	1-1/2"	1-1/8"	3-1/8"	2-3/4"
MPS 901011	2"	2"	1-9/16"	3-5/8"	3-1/4"

Marelon 'Y' Connectors



902004



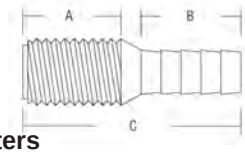
902005

- End plates may be removed for blockage relief
- O-ring seal for working pressures up to 80 PSI
- Available with or without mounting flange

MPS 902002	1" hose w/flange
MPS 902004	1-1/2" hose w/flange
MPS 902005	1-1/2" hose, no flange

Marelon Male Pipe to Hose Adapters





- Threads: NPSM

Part #	Thread	Tailpipe	A	B	C
MPS 905006	1/2"	5/8"	1"	1"	2-1/4"
MPS 905007	3/4"	3/4"	1"	1"	2-3/8"
MPS 905008	1"	1"	1-1/2"	1-1/16"	2-7/8"
MPS 905009	1-1/4"	1-1/4"	1-5/8"	1-1/4"	3-1/4"
MPS 905010	1-1/2"	1-7/16"	1-7/16"	1-1/8"	2-5/8"
MPS 905011	2"	2"	1-11/16"	1-1/4"	3-1/4"
MPS 905016	1"	1-1/8"	1"	1-1/16"	2-7/8"

Marelon Tapered Pipe to Hose Adapters

Part #	Pipe	Hose
MPS 910146	1/4"	1/4"
MPS 910147	1/4"	5/16"
MPS 910148	1/4"	3/8"
MPS 910149	1/4"	1/2"
MPS 910150	3/8"	3/8"
MPS 910154	3/8"	1/2"
MPS 910156	1/2"	1/2"
MPS 910157	1/2"	3/4"
MPS 910158	3/4"	1/2"
MPS 910159	3/4"	3/4"
MPS 910160	3/4"	1"
MPS 910168	1-1/4"	1-1/2"



Marelon Reducer/Adapters

- Female pipe to female pipe, NPSF threads


901046

MPS 901042	FTC 1" female
MPS 901043	FTC 1-1/2" female
MPS 901044	FTC 1-1/4" female
MPS 901045	FTC 1/2" female
MPS 901046	FTC 3/4" female

- Male pipe to male pipe, NPSM


901051

MPS 901040	MTC 3/4" - 1/2" male
MPS 901048	MTC 1-1/2" - 1-1/4" male
MPS 901049	MTC 1-1/2" - 1-1/2" male
MPS 901050	MTC 3/4"- 3/4" male
MPS 901051	MTC 1" - 3/4" male

- Male pipe to female pipe, NPSM-NPSF


910063

MPS 910062	RB 1-1/2" male - 1" female
MPS 910063	RB 1-1/2" male - 3/4" female

Marine East
Plastic Female Pipe to Hose Adapters

- Molded of high-strength engineered composite
- Max continuous heat: 210°F

Part #	FPT	Hose
MEP 8750	1/2"	5/8"
MEP 8751	1/2"	3/4"
MEP 8752	1/2"	1"
MEP 8010	3/4"	5/8"
MEP 8758	3/4"	5/8"
MEP 8760	3/4"	3/4"
MEP 8761	3/4"	1"
MEP 8762	3/4"	1-1/8"
MEP 8770	1"	1"
MEP 8771	1"	1-1/8"
MEP 8772	1"	1-1/4"
MEP 8775	1-1/4"	3/4"
MEP 8776	1-1/4"	1"
MEP 8782	1-1/4"	1-1/2"
MEP 8778	1-1/2"	5/8"
MEP 8779	1-1/2"	3/4"
MEP 8783	1-1/2"	1"
MEP 8784	1-1/2"	1-1/8"
MEP 8785	1-1/2"	1-1/4"
MEP 8786	1-1/2"	1-1/2"


8010



Marine East
MPT To MPT Adapters

- Molded of high-strength engineered composite
- Max continuous heat: 210°F

Part #	MPT	MPT
MEP 8950	1/2"	1/2"
MEP 8951	1/2"	3/4"
MEP 8952	1/2"	1"
MEP 8960	3/4"	3/4"
MEP 8961	3/4"	1"
MEP 8963	3/4"	1-1/4"
MEP 8970	1"	1"
MEP 8973	1"	1-1/2"
MEP 8990	1-1/4"	1-1/4"
MEP 8991	1-1/4"	1-1/2"
MEP 8995	1-1/2"	1-1/2"



Marine East
FPT To FPT Adapters

- Molded of high-strength engineered composite
- Max continuous heat: 210°F



MEP 8700	1/2" x 1/2"
MEP 8720	1-1/2" x 1-1/2"

Marine East
Plastic Male Pipe to Hose Adapters

- Molded of high-strength engineered composite
- Max continuous heat: 210°F

Parts	MPT	Hose
MEP 8900	1/2"	5/8"
MEP 8901	1/2"	3/4"
MEP 8905	1/2"	1-1/2"
MEP 8910	3/4"	5/8"
MEP 8911	3/4"	3/4"
MEP 8912	3/4"	1"
MEP 8913	3/4"	1-1/8"
MEP 8920	1"	5/8"
MEP 8921	1"	3/4"
MEP 8922	1"	1"
MEP 8923	1"	1-1/8"
MEP 8924	1"	1-1/4"
MEP 8925	1"	1-1/2"
MEP 8931	1-1/4"	3/4"
MEP 8932	1-1/4"	1"
MEP 8933	1-1/4"	1-1/8"
MEP 8934	1-1/4"	1-1/4"
MEP 8935	1-1/4"	1-1/2"
MEP 8940	1-1/2"	5/8"
MEP 8941	1-1/2"	3/4"
MEP 8942	1-1/2"	1"
MEP 8943	1-1/2"	1-1/8"
MEP 8944	1-1/2"	1-1/4"
MEP 8945	1-1/2"	1-1/2"



Marine East
Plastic Male Pipe To Hose Adapters

- Molded of high-strength engineered composite
- Max continuous heat: 210°F

Part #	Hose ID	Thread
MEP 8001	5/8"	1/2" MPT
MEP 8002	3/4"	3/4" MPT
MEP 8003	1"	1" MPT
MEP 8005	1-1/2"	1-1/2" MPT



Marine East Plastic Hose Fittings



8070



8080

- Angled T fittings

MEP 8070 1-1/2" Barbed angled T
MEP 8080 1-1/2" Barbed angled T, with one end threaded

Marine East MaxxFlow 100º Angled Elbows

- 100º angle minimizes chances of clogging
- Standard tapered American pipe threads
- Low profile design maximizes uses
- Molded rugged nylon for strength and durability
- For use in sanitation systems







Part #	Hose ID x B
MEP 8019	5/8" hose to 1/2" FPT
MEP 8058	1-1/2" hose to 1-1/2" FPT
MEP 8022	3/4" hose to 3/4" MPT
MEP 8057	1-1/2" hose 1-1/2" MPT (short thread)
MEP 8060	1-1/2" hose 1-1/2" MPT (long thread)
MEP 8034	1" hose to 1" hose
MEP 8059	1-1/2" hose to 1-1/2" hose

Marine East
Plastic Hose Adapters

- Molded of high-strength engineered composite
- Max continuous heat: 210°F

Part #	Hose	Hose
MEP 8800	5/8"	5/8"
MEP 8805	5/8"	3/4"
MEP 8810	5/8"	1"
MEP 8815	5/8"	1-1/8"
MEP 8820	5/8"	1-1/4"
MEP 8825	5/8"	1-1/2"
MEP 8830	3/4"	3/4"
MEP 8835	3/4"	1"
MEP 8840	3/4"	1-1/8"
MEP 8845	3/4"	1-1/4"
MEP 8850	3/4"	1-1/2"
MEP 8855	1"	1"
MEP 8860	1"	1-1/8"
MEP 8865	1"	1-1/4"
MEP 8870	1"	1-1/2"
MEP 8875	1-1/8"	1-1/8"
MEP 8880	1-1/8"	1-1/4"
MEP 8885	1-1/8"	1-1/2"
MEP 8890	1-1/4"	1-1/4"
MEP 8895	1-1/4"	1-1/2"
MEP 8899	1-1/2"	1-1/2"



Marine East Threaded Plugs



- Standard tapered pipe thread
- Molded of high-strength engineered composite
- Max continuous heat: 210°F

MEP 4245 3/4" MPT
MEP 4250 1" MPT
MEP 4255 1-1/4" MPT
MEP 4260 1-1/2" MPT

Marine East Threaded Caps



- Standard tapered pipe thread
- Molded of high-strength engineered composite
- Max continuous heat: 210°F

MEP 4275 3/4" FPT
MEP 4280 1" FPT
MEP 4285 1-1/4" FPT
MEP 4290 1-1/2" FPT

Vetus Hose Connectors



- Synthetic hose pillars
- Simply cut to size
- Ideal for securely joining two dissimilar ID hoses

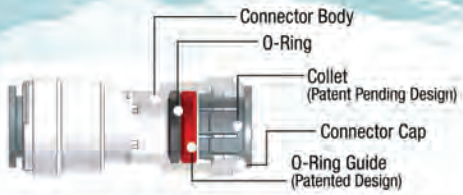
VTS HA1338 1/2" to 1-1/2"
VTS HA3060 1-3/16" to 2-23/64"

Technical Information

Sea Tech Inc., a subsidiary of Watts Water Technologies, was established in 1995 and provides reliable, high quality, cost effective connection solutions. Sea Tech Inc. offers a wide range of standard and unique custom fittings, valves, manifolds, and tubing designed to address specific customer requirements. As a subsidiary of Watts, Sea Tech Inc. designs, manufactures, and markets its products worldwide from Wilmington, NC and through authorized stocking distributors. Sea Tech Inc. maintains a continual R&D program to constantly upgrade the product ensuring the most reliable, cost effective solution for your connection needs. It is Sea Tech's mission to provide customers the best product available, with on-time delivery, at the best possible price.

MATERIAL SPECIFICATIONS

SERIES	MATERIAL	COLOR	O-RING
10 Series	Polypropylene	White	EPDM
24 Series	Thermal Plastic	Bright White	EPDM
35 Series	High Performance Thermal Plastic	Off White	EPDM
45 Series	Brass	Brass	EPDM
Metric Series	Thermal Plastic	Black	EPDM



FITTING PERFORMANCE RATINGS

10 Series	60psi@140°F 4bar@60°C	150psi@70°F 10.3bar@20°C Minimum 33°F/1°C
24 Series	100psi@140°F 6.8bar@60°C	250psi@75°F 17.25bar@24°C
35 Series	100psi@180°F 6.8bar@82°C	250psi@75°F 17.25bar@24°C
45 Series	200psi@180°F 13.6bar@82°C	250psi@75°F 17.25bar@24°C
Metric Series	100psi@140°F 6.8bar@60°C	250psi@75°F 17.25bar@24°C

THREAD TORQUE VALUES

Size	1/2"	3/4"
Torque Value	Min. 17.7 in-lbs Max. 26.5 in-lbs	Min. 22.7 in-lbs Max. 31 in-lbs

TUBING TOLERANCES

Tolerance	+0.004" ~ 0.004" O.D. +.010mm ~ -.010mm O.D.

MAKING A CONNECTION



Cut the tubing to length using the Sea Tech tubing cutter or similar. Inspect the outside diameter of the tubing. It must be free of damage, smooth, and clean.



Measure the insertion depth on the tubing end. Sea Tech connectors have a insertion depth line molded onto the outside of the connector bodies.



Make certain to push the tubing completely into the connector until it comes into contact with the internal tubing stop.



To disconnect ensure the system is depressurized before removing connectors. Push the collet in squarely against the face of the fitting. With the collet held in this position, the tubing can be removed. The connectors can then be re-used.

* For 35 and 45 series products to be compliant with IAPMO ASSE 1061-2006: If PEX tubing is used, then a tube support liner must be used also. The tube support liner acts as an internal support for the end of the tube.

Sea Tech fittings are designed for low pressure fluids. For other applications please refer to our Customer Service Department. Tubing should be supported at a minimum of 36" to prevent excessive load to the connectors. Do not install tubing supports closer than 3 inches from the connector ends. We strongly recommend that new installations be thoroughly tested prior to use. Do not use with explosive gases, petroleum products or other fuels.

⚠ CAUTION

The polysulfone and polypropylene material in this SEA TECH product can be compromised by exposure to volatile organic compounds (VOCs) and caustic chemicals. Therefore, DO NOT expose this product to any such chemical or foreign substance, which would include exposure to the following products:

Pipe dopes (liquid thread sealants), leak check compounds, bug sprays, lubricants, cleaners, paints, bleaches, acids, solder fluxes, plastic piping primers and cements, oxidizing agents, alkaline solutions, thinners, fuels, oil based caulk, hydrocarbons, spray foam or foaming agents (i.e. insulation).

Teflon tape is acceptable and can be used for threaded connections.
Failure to follow these instructions will void the warranty and possibly result in leaks and water damage.

IAPMO Certified Fittings
IAPMO ASSE 1061-2006
Sea Tech 35 and 45 Series fittings are tested, certified, and approved to IAPMO ASSE 1061-2006 performace standards.

LEAD FREE*

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

FDA approval:
Sea Tech fittings are produced from FDA approved materials.

ANSI/NSF-61 Certifications:
Sea Tech 10 Series, 24 Series, 35 Series, 45 Series and Metric Series products are tested, certified, and approved for contact with drinking water.

ANSI/NSF-14 Certifications:
Sea Tech 35 Series and 45 Series products are tested, certified, and approved to NSF-14 standards.

CSA B137.5 Certifications:
Sea Tech 35 Series and 45 Series products are tested, certified, and approved to Canadian standard CSA B137.5.

ASTM F877 Certifications:
Sea Tech 35 Series and 45 Series products are tested, certified, and approved to ASTM F877 performance standards.

NSF-U.P. Code Certifications:
Sea Tech 35 Series and 45 Series products are tested, certified, and approved and meet the requirements of the Uniform Plumbing Code.

SeaTech Pipe



Seapex Flex Pipe is made from high performance, cross linked polyethylene material. Is N.S.F. and F.D.A. recognized and is available in Red, Blue or White for ease of identification.

- Operating pressure: Vacuum to 160 P.S.I.
- Temp Range: Max 100 PSI @ 180ºF, Max 160 PSI @ 73ºF
- Min Burst Pressure: 215 PSI @ 180ºF, 480 PSI @ 73ºF

SPS 15MM-BLUE	15 mm	per foot	Blue
SPS 15MM-RED	15mm	per foot	Red
SPS 15MM-WHITE	15mm	per foot	White
SPS 2210R **	22mm	10' straight tube	Red
SPS 28MM-BLUE **	28mm	per foot	Blue
SPS 1/2"WHITE	1/2" CTS	per foot	White

** While Stock Lasts

SeaTech Poly Ice Maker Tube



- Made from low density Polyethylene
- 1/4" outside diameter
- F.D.A. approved for food contact
- Impermeable to gasses and moisture with a water absorption rate of 0.15% as per ASTM standards
- Light weight and flexible
- Operating pressure: Vacuum to 100 PSI
- Temp Range: -40ºF to 150ºF
- 100' coil sold by the foot

SPS 50256-FT

SeaTech WaterPEX Tubing



- Cross-linked poyethylene tubing for potable water applications
- Manufactured without an oxygen barrier
- 1/2" ID, 5/8" OD
- Temp-Pressure Range: Max 80 PSI @ 200°F, Max 100 PSI @ 180°F, Max 160 PSI @ 73.4°F
- 100' coil

SPS WPTC08-100W

SeaTech SeaPex & Poly Tube Cutter



- Makes cutting of hose easy and convenient

SPS 1158-1522 Cutter
SPS 1161-1522 Replacement blade

SeaTech Bend Mount



SPS 2349-15 90º - 15 mm

SeaTech Male Collet Covers



- Made from Delrin
- Used to colour code lines

Part #	SeaPex Size	Colour
SPS 2156-15	15 mm	Blue
SPS 2154-15	15 mm	Red

SeaTech Pipe Mounting Clips



- Clips can interlock to hold multiple pipes

SPS 2370-1557 15 mm

SeaTech Collet Clips



- Delrin
- Inserted onto collet for added security

SPS 1147-15 15 mm, each
SPS 01-1147-15 15 mm, 3/pkg
SPS 3547-10 1/2", each

SeaTech Metric Series Pipe Fittings

Sea Tech connectors utlize a swivel nut with NPS straight threads and a cone seal. This allows the installer to thread onto NPT, NPS, BSP and most other threads without tools or thread sealant. Simply thread on, hand tight, for a zero-leak seal.

Manufactured in several high performance materials that are FDA and NSF-61 certified for drinking water.
- Operating Pressure: Vacuum 250psi
- Rated 140° F @ 100 psi / 75° F @ 250 psi

- Threaded female swivel connectors

SPS 01-1110-0815 15 mm x 1/2" NPS
SPS 01-1110-1215 15 mm x 3/4" NPS



- Union reducer

SPS 01-1116-1015 15 mm x 1/2" CTS



- Union connectors

SPS 01-1115-1515 15 mm x 15 mm
SPS 01-2115-28 ** 28 mm x 28 mm
** While Stock Lasts



- Union elbow connectors

SPS 01-1117-1515 15 mm x 15 mm
SPS 01-2117-28 ** 28 mm x 28 mm
** While Stock Lasts



- Stem elbow connectors

SPS 01-1118-1515 15 mm
SPS 01-1618-2222 ** 22 mm
** While Stock Lasts



- Male elbow

SPS 01-1119-0815 15 mm x 1/2" NPT



- Female swivel elbows

SPS 01-1120-0815 15 mm x 1/2" NPS
SPS 01-1120-1215 15mm x 3/4" NPS



- Union 'T' connectors

SPS 01-1123-1515 15 mm
SPS 01-2123-28 ** 28 mm
SPS 1023-04 1/4" (bulk)
** While Stock Lasts



- Female swivel tee

SPS 01-1125-0815 15 mm x 1/2" NPS



- Stackable T

SPS 01-1133-1515 15 mm



- End stop

SPS 01-1145-15 15 mm



- Reducing connectors

SPS 01-2114-2228 ** 28 mm stem x 22 mm
** While Stock Lasts



- Threaded male connector

SPS 01-2402-0815 15 mm x 1/2" NPT



- Hose barb connector

SPS 01-2413-0815 1/2" barb x 15 mm



SeaTech Pump Connectors

- Thermal plastic
- Fits Jabsco & Flojet pumps

SPS 01-2475-15 Union 15 mm
SPS 2476-15CP Elbow 15 mm



SeaTech Brass Female Thread Stem



- Allows the connection to rotate under pressure

SPS 2226-1628 ** 28 mm x 1" NPT

** While Stock Lasts

SeaTech Brass Male Thread Stems



- Allows the connection to rotate under pressure

SPS 1229-0815 15 mm x 1/2" NPT

SeaTech Brass Union Stem



SPS 1732-2222 ** 22 mm

** While Stock Lasts

SeaTech Brass Male FPT-BSP Adapter



SPS 17109-1212 ** 3/4" FPT x 3/4" BSP

** While Stock Lasts

SeaTech Manifold End Plug



- Thermal plastic

SPS 1146-15 15 mm

SeaTech Brass Manifold Inlet Stem



SPS 2262-22 ** 22 mm

** While Stock Lasts

Fairview PEX Coupling



- Meets NSF 14/61, ASTM F1807, CSA B137.5 and UP CODE

FRV PEX129-14 3/4" - 3/4"

SeaTech 1/2" Series Pipe Fittings

Manufactured in several high performance materials that are FDA and NSF-61 certified for drinking water.

- Rated 140° F @ 100 psi / 75° F @ 250 psi

- Union connector

SPS 01-2415-10 1/2" CTS



- Union elbow

SPS 01-2417-10 1/2" CTS



- Stackable elbow

SPS 3518-10 1/2" CTS



- Union tee

SPS 3523-10 1/2" CTS



- Stackable tee

SPS 01-2433-10 1/2" CTS



- 24 Series end stop

SPS 3545-10 1/2" CTS



- Male connector
- Swivel nut has a NPS straight thread and a cone seal allowing the use of NPT, NPS, BSP and most other threads.

SPS 01-2401-1008 1/2" CTS x 1/2" NPT



Size and Abbreviation Cross Reference	
3/8" CTS	1/2" OD
1/2" CTS	5/8" OD
3/4" CTS	7/8" OD
1" CTS	9/8" OD
NPT	National Pipe Thread Tapered
BSP	British Straight Pipe Thread
FGHT	Female Garden Hose Thread
MGHT	Male Garden Hose Thread
NPS	National Pipe Thread Straight
Closet	Toilet Connection
CTS	Copper Tube Size

SeaTech Union Pump Fitting



- Fits Jabsco & Flojet

SPS 01-3575-10 1/2" CTS

SeaTech Reducing Union



SPS 01-3516-1410 ** 3/4" x 1/2" CTS
** While Stock Lasts

SeaTech Shut Off Valves



- Thermal plastic, brass
- Good for hot or cold water
- Used for flow controls

SPS 01-2439-1515 15 mm x 15 mm
SPS 01-2440-1515 15 mm x 15 mm stem

SeaTech Ice Maker Stem Shut Off Valve



- Thermal plastic
- Complies with FDA and NSF standards

SPS 01-2443-0415 1/4" OD tube x 15 mm

SeaTech Shut Off Valve



- Stop valve

SPS 01-3539-10 1/2" CTS

SeaTech Speed-Tap



- Washdown fitting incorporates an automatic shut-off valve
- Flush mounted with protective cover
- 1.2" NPT connection

SPS ST300

SeaTech Speed-Tap Hose Adapter



- Adapter threads into any standard garden hose to interconnect with the Speed-Tap
- Auto shut-off

SPS MSP100

Plumbing Pipe Fittings 90° Elbow F.I.P. X F.I.P.



Brass	Stainless
PLU BE-1/8"X90	PLU SE 1/8"X90
PLU BE-1/4"X90	PLU SE 1/4"X90
PLU BE-3/8"X90	PLU SE 3/8"X90
PLU BE-1/2"X90	PLU SE 1/2"X90
PLU BE-3/4"X90	PLU SE 3/4"X90
PLU BE-1"X90	PLU SE 1"X90
PLU BE-1-1/4"X90	PLU SE 1-1/4"X90
PLU BE-1-1/2"X90	PLU SE 1-1/2"X90
PLU BE-2"X90	PLU SE 2"X90
PLU BE-2-1/2"X90	-
PLU BE-3"X90	-

Plumbing Pipe Fittings 45° Elbow F.I.P. X F.I.P.



Brass	Stainless
-	PLU SE-1/8"X45
PLU BE-1/4"X45	PLU SE-1/4"X45
PLU BE-3/8"X45	PLU SE-3/8"X45
PLU BE-1/2"X45	PLU SE-1/2"X45
PLU BE-3/4"X45	PLU SE-3/4"X45
PLU BE-1"X45	PLU SE-1"X45
PLU BE-1-1/4"X45	PLU SE-1-1/4"X45
PLU BE-1-1/2"X45	PLU SE-1-1/2"X45
PLU BE-2"X45	PLU SE-2"X45
PLU BE-2-1/2"X45	-

Plumbing Pipe Fittings
90° Street Elbow F.I.P. X M.I.P.



Brass	Stainless
-	PLU SS-1/8"X90
PLU BS-1/4"X90	PLU SS-1/4"X90
PLU BS-3/8"X90	PLU SS-3/8"X90
PLU BS-1/2X90	PLU SS-1/2"X90
PLU BS-3/4"X90	PLU SS-3/4"X90
PLU BS-1"X90	PLU SS-1"X90
PLU BS-1-1/4"X90	PLU SS-1-1/4"X90
PLU BS-1-1/2"X90	PLU SS-1-1/2"X90
PLU BS-2"X90	PLU SS-2"X90
PLU BS-3"X90	-

Plumbing Pipe Fittings
45° Street Elbow F.I.P. x M.I.P.



Brass
PLU BS-1/2"X45
PLU BS-3/4"X45
PLU BS-1"X45
PLU BS-1-1/4"X45
PLU BS-1-1/2"X45

Plumbing Pipe Fittings
Couplings - F.I.P. x F.I.P.



Brass	Stainless
-	PLU SCO-1/8"
-	PLU SCO-1/4"
PLU BCO-3/8"	PLU SCO-3/8"
PLU BCO-1/2"	PLU SCO-1/2"
PLU BCO-3/4"	PLU SCO-3/4"
PLU BCO-1"	PLU SCO-1"
PLU BCO-1-1/4"	PLU SCO-1-1/4"
PLU BCO-1-1/2"	PLU SCO-1-1/2"
PLU BCO-2"	PLU SCO-2"
PLU BCO-2-1/2"	-

Plumbing Pipe Fittings
Reducing Coupling F.I.P. x F.I.P.



Brass	Stainless
PLU BRC-3/8"X1/4"	-
PLU BRC-1/2"X1/4"	PLU SRC-1/2"X1/4"
PLU BRC-1/2"X3/8"	PLU SRC-1/2"X3/8"
PLU BRC-3/4"X3/8"	PLU SRC-3/4"X3/8"
PLU BRC-3/4"X1/2"	PLU SRC-3/4"X1/2"
PLU BRC-1"X1/2"	PLU SRC-1"X1/2"
PLU BRC-1"X3/4"	PLU SRC-1"X3/4"
PLU BRC-1-1/4"X3/4"	PLU SRC-1-1/4"X3/4"
PLU BRC-1-1/4"X1"	PLU SRC-1-1/4"X1"
PLU BRC-1-1/2"X1/2" **	-
PLU BRC-1-1/2"X3/4"	PLU SRC-1-1/2"X3/4"
PLU BRC-1-1/2"X1"	PLU SRC-1-1/2"X1"
PLU BRC-1-1/2"X1-1/4"	PLU SRC-1-1/2"X1-1/4"
-	PLU SRC-2"X1"
PLU BRC-2"X1-1/4"	PLU SRC-2"X1-1/4"
PLU BRC-2"X1-1/2"	PLU SRC-2"X1-1/2"
PLU BRC-2-1/2"X2"	-

** While Stock Lasts

Plumbing Pipe Fittings
Tees - F.I.P. x F.I.P. x F.I.P.



Brass	Stainless
-	PLU ST-1/8"
PLU BT-1/4"	PLU ST-1/4"
PLU BT-3/8"	PLU ST-3/8"
PLU BT-1/2"	PLU ST-1/2"
PLU BT-3/4"	PLU ST-3/4"
PLU BT-1"	PLU ST-1"
PLU BT-1-1/4"	PLU ST-1-1/4"
PLU BT-1-1/2"	PLU ST-1-1/2"
PLU BT-2"	PLU ST-2"
PLU BT-3" *	-

* Special Order - may have stock

Plumbing Pipe Fittings
Crosses - 4 x F.I.P.



Brass	Stainless
-	PLU SCR-1/4"
-	PLU SCR-3/8"
PLU BCR-1/2"	PLU SCR-1/2"
PLU BCR-3/4"	PLU SCR-3/4"
-	PLU SCR-1"
PLU BCR-1-1/4"	-

Plumbing Pipe Fittings
Nipples - M.I.P. x M.I.P.





Brass	Stainless
PLU BN-1/8"XCL	PLU SN-1/8"XCL
PLU BN-1/8"X1-1/2"	PLU SN-1/8"X1-1/2"
PLU BN-1/8"X2"	PLU SN-1/8"X2"
PLU BN-1/8"X3"	PLU SN-1/8"X3"
PLU BN-1/8"X3-1/2"	-
PLU BN-1/8"X4"	-
PLU BN-1/8"X5"	-
PLU BN-1/8"X6" **	-
PLU BN-1/4"XCL	PLU SN-1/4"XCL
PLU BN-1/4"X1-1/2"	-
PLU BN-1/4"X2"	PLU SN-1/4"X2"
PLU BN-1/4"X2-1/2"	-
PLU BN-1/4"X3"	PLU SN-1/4"X3"
PLU BN-1/4"X3-1/2"	-
PLU BN-1/4"X4"	PLU SN-1/4"X4"
PLU BN-1/4"X6"	-
PLU BN-3/8"XCL	PLU SN-3/8"XCL
PLU BN-3/8"X1-1/2"	PLU SN-3/8"X1-1/2"
PLU BN-3/8"X2"	PLU SN-3/8"X2"
PLU BN-3/8"X2-1/2"	-
PLU BN-3/8"X3"	PLU SN-3/8"X3"
PLU BN-3/8"X3-1/2"	PLU SN-3/8"X3-1/2" *
PLU BN-3/8"X4"	PLU SN-3/8"X4"
-	PLU SN-3/8"X5"
-	PLU SN-3/8"X6"
PLU BN-1/2"XCL	PLU SN-1/2"XCL
PLU BN-1/2"X1-1/2"	PLU SN-1/2"X1-1/2"
PLU BN-1/2"X2"	PLU SN-1/2"X2"
PLU BN-1/2"X2-1/2"	PLU SN-1/2"X2-1/2"
PLU BN-1/2"X3"	PLU SN-1/2"X3"
-	PLU SN-1/2"X3-1/2"
PLU BN-1/2"X4"	PLU SN-1/2"X4"
PLU BN-1/2"X4-1/2" **	-
PLU BN-1/2"X5"	PLU SN-1/2"X5"
PLU BN-1/2"X5-1/2"	-
PLU BN-1/2"X6"	PLU SN-1/2"X6"
PLU BN-3/4"XCL	PLU SN-3/4"XCL
PLU BN-3/4"X2"	PLU SN-3/4"X2"
PLU BN-3/4"X2-1/2"	PLU SN-3/4"X2-1/2"
PLU BN-3/4"X3"	PLU SN-3/4"X3"
-	PLU SN-3/4"X3-1/2"
PLU BN-3/4"X4"	PLU SN-3/4"X4"
PLU BN-3/4"X4-1/2"	-
-	PLU SN-3/4"X5"
PLU BN-3/4"X5-1/2" **	-
PLU BN-3/4"X6"	PLU SN-3/4"X6"
PLU BN-1"XCL	PLU SN-1"XCL
PLU BN-1"X2"	PLU SN-1"X2"
PLU BN-1"X2-1/2"	PLU SN-1"X2-1/2"
PLU BN-1"X3"	PLU SN-1"X3"
PLU BN-1"X3-1/2"	PLU SN-1"X3-1/2"
PLU BN-1"X4"	PLU SN-1"X4"
PLU BN-1"X5"	PLU SN-1"X5"
PLU BN-1"X5-1/2" **	-
PLU BN-1"X6"	PLU SN-1"X6"
-	PLU SN-1"X8"
PLU BN-1-1/4"XCL	PLU SN-1-1/4"XCL
PLU BN-1-1/4"X2"	-
PLU BN-1-1/4"X2-1/2"	PLU SN-1-1/4"X2-1/2"
PLU BN-1-1/4"X3"	PLU SN-1-1/4"X3"
PLU BN-1-1/4"X3-1/2" **	-
PLU BN-1-1/4"X4"	PLU SN-1-1/4"X4"
PLU BN-1-1/4"X4-1/2" **	-
-	PLU SN-1-1/4"X5"
PLU BN-1-1/4"X6"	PLU SN-1-1/4"X6"
PLU BN-1-1/2"XCL	PLU SN-1-1/2"XCL
PLU BN-1-1/2"X2"	-
PLU BN-1-1/2"X2-1/2"	PLU SN-1-1/2"X2-1/2"
PLU BN-1-1/2"X3"	PLU SN-1-1/2"X3"
-	PLU SN-1-1/2"X3-1/2"
PLU BN-1-1/2"X4"	PLU SN-1-1/2"X4"
-	-
PLU BN-1-1/2"X5"	PLU SN-1-1/2"X5"
PLU BN-1-1/2"X5-1/2"	-
PLU BN-1-1/2"X6"	PLU SN-1-1/2"X6"
PLU BN-2"XCL	PLU SN-2"XCL
PLU BN-2"X2-1/2"	PLU SN-2"X2-1/2"
PLU BN-2"X3"	PLU SN-2"X3"
PLU BN-2"X3-1/2"	PLU SN-2"X3-1/2"
PLU BN-2"X4"	PLU SN-2"X4"
PLU BN-2"X5"	PLU SN-2"X5"
PLU BN-2"X6"	PLU SN-2"X6"
PLU BN-2-1/2"XCL	-
PLU BN-2-1/2"X3"	-
PLU BN-3"XCL	-

* Special Order - may have stock
** While Stock Lasts

► *Also See* Propane Sealing Tape pg 05-027

► *Also See* Teflon Tape pg 06-023

Plumbing Pipe Fittings
Caps - F.I.P.



Brass	Stainless
-	PLU SCA-1/8"
PLU BCA-1/4"	PLU SCA-1/4"
PLU BCA-3/8"	PLU SCA-3/8"
PLU BCA-1/2"	PLU SCA-1/2"
PLU BCA-3/4"	PLU SCA-3/4"
PLU BCA-1"	PLU SCA-1"
PLU BCA-1-1/4"	PLU SCA-1-1/4"
PLU BCA-1-1/2"	PLU SCA-1-1/2"
PLU BCA-2"	PLU SCA-2"

Plumbing Pipe Fittings
Hex Bushings M.I.P x F.I.P.



Brass	Stainless
-	PLU SB-1/4"X1/8"
-	PLU SB-3/8"X1/4"
-	PLU SB-1/2"X1/8" *
-	PLU SB-1/2"X1/4"
PLU BB-1/2"X3/8"	PLU SB-1/2"X3/8"
PLU BB-3/4"X1/8"	-
PLU BB-3/4"X1/4"	-
PLU BB-3/4"X3/8"	PLU SB-3/4"X3/8"
PLU BB-3/4"X1/2"	PLU SB-3/4"X1/2"
PLU BB-1"X1/4"	-
PLU BB-1"X3/8"	-
PLU BB-1"X1/2"	PLU SB-1"X1/2"
PLU BB-1"X3/4"	PLU SB-1"X3/4"
PLU BB-1-1/4"X1/2"	-
PLU BB-1-1/4"X3/4"	PLU SB-1-1/4"X3/4"
PLU BB-1-1/4"X1"	PLU SB-1-1/4"X1"
PLU BB-1-1/2"X1/2"	-
PLU BB-1-1/2"X3/4"	PLU SB-1-1/2"X3/4"
PLU BB-1-1/2"X1"	PLU SB-1-1/2"X1"
PLU BB-1-1/2"X1-1/4"	PLU SB-1-1/2"X1-1/4"
PLU BB-2"X3/4"	-
PLU BB-2"X1"	PLU SB-2"X1"
PLU BB-2"X1-1/4"	PLU SB-2"X1-1/4"
PLU BB-2"X1-1/2"	PLU SB-2"X1-1/2"
PLU BB-2-1/2"X2"	-

* Special Order - may have stock

Plumbing Pipe Fittings
Plugs, Cored - M.I.P.



Brass	Stainless
-	PLU SP-1/8"
-	PLU SP-1/4"
-	PLU SP-3/8"
-	PLU SP-1/2"
PLU BP-3/4"	PLU SP-3/4"
PLU BP-1"	PLU SP-1"
PLU BP-1-1/4"	PLU SP-1-1/4"
PLU BP-1-1/2"	PLU SP-1-1/2"
PLU BP-2"	PLU SP-2"

Plumbing Pipe Fittings
Plugs, Cored - M.I.P. Countersunk Head

Stainless
PLU SCP-1/4"
PLU SCP-3/8"
PLU SCP-1/2"
PLU SCP-3/4"
PLU SCP-1"



Plumbing Pipe Fittings Floor Flanges

- (ASME drilling to ASA B16-24)

Brass
PLU BF-3/4"
PLU BF-1-1/2" **

** While Stock Lasts



Plumbing Pipe Fittings
Unions - F.I.P. x F.I.P.



Brass	Stainless
PLU BU-1/2"	PLU SU-1/2"
PLU BU-3/4"	PLU SU-3/4"
PLU BU-1"	PLU SU-1"

Refrigeration Copper Tubing (ASTM B280)

▪ Size: O.D., inch x roll length (feet)

Part #	Wall Thickness	W.P. P.S.I.
COP CT1/8-50	.030	2400
COP CT3/16-50	.030	1200
COP CT1/4-50	.030	1200
COP CT5/16-50	.032	1020
COP CT3/8-50	.032	850
COP CT5/8-50	.035	560
COP CT3/4-50	.035	470



General Purpose Copper Tubing (ASTM B75)

▪ Size: O.D., inch x roll length (feet)

Part #	Wall Thickness	W.P. P.S.I.
COP CT1/4-25	.030	1200
COP CT1/2-25	.032	640



Fairview Fittings - Brass Pipe Fittings

FPT Couplings

Part #	Size
FRV 103-A	1/8"
FRV 103-B	1/4"
FRV 103-C	3/8"
FRV 103-D	1/2"



Bushings - Male to Female

Part #	Size
FRV 110-BA	1/4" x 1/8"
FRV 110-CA	3/8" x 1/8"
FRV 110-CB	3/8" x 1/4"
FRV 110-DA	1/2" x 1/8"
FRV 110-DB	1/2" x 1/4"
FRV 110-DC	1/2" x 3/8"



Locknut

Part #	Size
FRV 111-C	3/8"



Fairview Fittings - Brass Pipe Fittings

Adapters - Female to Male

Part #	Size
FRV 120-AA	1/8" x 1/8"
FRV 120-BA	1/4" x 1/8"
FRV 120-CB	3/8" x 1/4"
FRV 120-DB	1/2" x 1/4"
FRV 120-DC	1/2" x 3/8"
FRV 120-DD	1/2" x 1/2"



Reducing Couplings

Part #	Size
FRV 119-BA	1/4" x 1/8"
FRV 119-CA	3/8" x 1/8"
FRV 119-CB	3/8" x 1/4"
FRV 119-DC	1/2" x 3/8"



Plugs - Square Head

Part #	Size
FRV 109-A	1/8"
FRV 109-B	1/4"
FRV 109-C	3/8"
FRV 109-D	1/2"



Plugs - Hex Head Countersunk

Part #	Size
FRV 118-D	1/2"



Plugs - Hex Head

Part #	Size	Type
FRV 121-A	1/8"	Cored
FRV 121-B	1/4"	Cored
FRV 121S-B	1/4"	Solid
FRV 121-C	3/8"	Cored
FRV 121-D	1/2"	Cored
FRV 121S-E	3/4"	Solid



Caps

Part #	Size
FRV 108-A	1/8"
FRV 108-B	1/4"
FRV 108-C	3/8"



► *Also See* Propane Sealing Tape pg 05-027

► *Also See* Teflon Tape pg 06-023

Fairview Fittings - Brass Pipe Fittings

Hex Nipple

Part #	Size
FRV 122-A	1/8"
FRV 122-B	1/4"
FRV 122-BA	1/4" x 1/8"
FRV 122-C	3/8"
FRV 122-CA	3/8" x 1/8"
FRV 122-CB	3/8" x 1/4"
FRV 122-D	1/2"
FRV 122-DC	1/2" x 3/8"
FRV 122-E	3/4"



90° Elbow

Part #	Size	Style
FRV X100-A	1/8"	Extruded
FRV 100-A	1/8"	Forged
FRV X100-B	1/4"	Extruded
FRV 100-B	1/4"	Forged
FRV 100-C	3/8"	Forged
FRV 100-D	1/2"	Forged
FRV 100-E	3/4"	Forged


Forged


Extruded

45° Street Elbow

Part #	Size	Style
FRV 124-A	1/8"	Forged
FRV X124-A	1/8"	Extruded
FRV 124-B	1/4"	Forged
FRV X124-B	1/4"	Extruded
FRV 124-C	3/8"	Forged
FRV X124-C	3/8"	Extruded


Forged


Extruded

Forged 90° Street Elbow

Part #	Size
FRV 116-A	1/8"
FRV 116-B	1/4"
FRV 116-C	3/8"
FRV 116-D	1/2"
FRV 116-E	3/4"



Extruded 90° Street Elbow

Part #	Size
FRV X115-A	1/8"
FRV X115-B	1/4"
FRV X115-C	3/8"
FRV X115-D	1/2"



Fairview Fittings - Brass Pipe Fittings

Forged Elbow 90°

Part #	Size
FRV 99-B	1/4"



Male Branch Tee

Part #	Size	Style
FRV 106-B	1/4"	Forged
FRV X106-B	1/4"	Extruded
FRV X106-C	3/8"	Extruded


Forged


Extruded

Tees

Part #	Size	Style
FRV 101-A	1/8"	Forged
FRV X101-A	1/8"	Extruded
FRV 101-B	1/4"	Forged
FRV X101-B	1/4"	Extruded
FRV 101-C	3/8"	Forged
FRV X101-C	3/8"	Extruded
FRV 101-D	1/2"	Forged


Forged


Extruded

Street Tee

Part #	Size	Style
FRV 107-B	1/4"	Forged
FRV X107-B	1/4"	Extruded
FRV 107-C	3/8"	Forged
FRV 107-D	1/2"	Forged


Forged


Extruded

Forged Cross

Part #	Size
FRV 102-A	1/8"
FRV 102-C	3/8"



Fairview Fittings - Brass 45° Flare

Forged Nut - Short Type

Part #	Length	Tube
FRV 40-6	13/16"	3/8"
FRV FO41S-10	1-1/8"	5/8"



Milled Nut - Short Type

Part #	Length	Tube
FRV 41S-3	5/8"	3/16"
FRV 41S-4	3/4"	1/4"
FRV 41S-5	7/8"	5/16"
FRV 41S-6	7/8"	3/8"
FRV 41S-8	1"	1/2"



Milled Nut - Long Type

Part #	Length	Tube
FRV 41-4	15/16"	1/4"
FRV 41-5	1-1/8"	5/16"
FRV 41-6	1-5/16"	3/8"
FRV 41-8	1-5/8"	1/2"
FRV 41-10	1-7/8"	5/8"



Tube Coupling - Female Flare to Female Flare

Part #	Tube	Tube
FRV 32-6	3/8"	3/8"



Tube Coupling - Female Swivel Flare to Female Swivel Flare

Part #	Tube	Tube
FRV 34-4	1/4"	1/4"
FRV 34-5	5/16"	5/16"
FRV 34-6	3/8"	3/8"
FRV 34-8	1/2"	1/2"
FRV 34-10	5/8"	5/8"
FRV 34-12	3/4"	3/4"



Union Coupling - Tube to Tube

Part #	Tube	Tube
FRV 42-2	1/8"	1/8"
FRV 42-3	3/16"	3/16"
FRV 42-4	1/4"	1/4"
FRV 42-5	5/16"	5/16"
FRV 42R-64	3/8"	1/4"
FRV 42R-65	3/8"	5/16"
FRV 42-6	3/8"	3/8"
FRV 42R-86	1/2"	3/8"
FRV 42-8	1/2"	1/2"
FRV 42-10	5/8"	5/8"



Fairview Fittings - Brass 45° Flare

Connector - Tube to Female Pipe

Part #	Tube	Pipe
FRV 46-4A	1/4"	1/8"
FRV 46-4B	1/4"	1/4"
FRV 46-4C	1/4"	3/8"
FRV 46-4D	1/4"	1/2"
FRV 46-6A	3/8"	1/8"
FRV 46-6B	3/8"	1/4"
FRV 46-6C	3/8"	3/8"
FRV 46-6D	3/8"	1/2"
FRV 46-8C	1/2"	3/8"
FRV 46-8D	1/2"	1/2"
FRV 46-10D	5/8"	1/2"



Connector - Tube to Male Pipe

Part #	Tube	Pipe
FRV 48-3A	3/16"	1/8"
FRV 48-4A	1/4"	1/8"
FRV 48-4B	1/4"	1/4"
FRV 48-4C	1/4"	3/8"
FRV 48-5A	5/16"	1/8"
FRV 48-5B	5/16"	1/4"
FRV 48-5C	5/16"	3/8"
FRV 48-6A	3/8"	1/8"
FRV 48-6B	3/8"	1/4"
FRV 48-6C	3/8"	3/8"
FRV 48-6D	3/8"	1/2"
FRV 48-8B	1/2"	1/4"
FRV 48-8C	1/2"	3/8"
FRV 48-8D	1/2"	1/2"
FRV 48-8E	1/2"	3/4"
FRV 48-10C	5/8"	3/8"
FRV 48-10D	5/8"	1/2"
FRV 48-10E	5/8"	3/4"



90° Elbow - Tube to Female Pipe

Part #	Tube	Pipe
FRV 50-6A	3/8"	1/8"
FRV 50-6B	3/8"	1/4"
FRV 50-6C	3/8"	3/8"
FRV 50-6D	3/8"	1/2"
FRV 50-8C	1/2"	3/8"
FRV 50-8D	1/2"	1/2"
FRV 50-10D	5/8"	1/2"



► *Also See* Propane Sealing Tape pg 05-027

► *Also See* Teflon Tape pg 06-023

Fairview Fittings - Brass 45° Flare

90° Elbow - Tube to Male Pipe

Part #	Tube	Pipe
FRV 49-4A	1/4"	1/8"
FRV 49-4B	1/4"	1/4"
FRV 49-4C	1/4"	3/8"
FRV 49-5A	5/16"	1/8"
FRV 49-5B	5/16"	1/4"
FRV 49-6A	3/8"	1/8"
FRV 49-6B	3/8"	1/4"
FRV 49-6C	3/8"	3/8"
FRV 49-6D	3/8"	1/2"
FRV 49-8B	1/2"	1/4"
FRV 49-8C	1/2"	3/8"
FRV 49-8D	1/2"	1/2"
FRV 49-8E	1/2"	3/4"
FRV 49-10C	5/8"	3/8"
FRV 49-10D	5/8"	1/2"
FRV 49-12D	3/4"	1/2"
FRV 49-12E	3/4"	3/4"



45° Elbow - Tube to Male Pipe

Part #	Tube	Pipe
FRV 54-4B	1/4"	1/4"
FRV 54-8C	1/2"	3/8"



90° Elbow - Tube to Tube

Part #	Tube
FRV 55-4	1/4"
FRV 55-5	5/16"
FRV 55-6	3/8"
FRV 55-8	1/2"
FRV 55-10	5/8"



Tee - Tube Three Ends

Part #	Tube
FRV 44-4	1/4"
FRV 44-5	5/16"
FRV 44-6	3/8"
FRV 44-8	1/2"
FRV 44-10	5/8"



Tee - Tube Ends - Centre Pipe (Male)

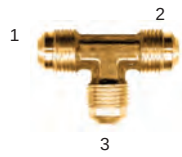
Part #	Tube	Tube	Pipe
FRV 45-4B	1/4"	1/4"	1/4"
FRV 45-6B	3/8"	3/8"	1/4"
FRV 45-8C	1/2"	1/2"	3/8"
FRV 45-8D	1/2"	1/2"	1/2"



Fairview Fittings - Brass 45° Flare

Reducing Tees

Part #	1	2	3
FRV 44R-86	1/2"	1/2"	3/8"
FRV 44R-106	5/8"	5/8"	3/8"
FRV 44R-108	5/8"	5/8"	1/2"
FRV 44R-866	1/2"	3/8"	3/8"



Tee Ends - Pipe Centre (Female)

Part #	Tube	Tube	Pipe
FRV 36-4B	1/4"	1/4"	1/4"
FRV 36-6B	3/8"	3/8"	1/4"



Cross - Tube Four Ends

Part #	Tube
FRV 52-6	3/8"
FRV 52-8	1/2"



Tee Ends - One Tube and One Pipe Centre - Tube

Part #	Pipe	Tube
FRV 51-6B	1/4"	3/8"
FRV 51-8C	3/8"	1/2"
FRV 51-8D	1/2"	1/2"



Sealing Cap Nut

Part #	Tube
FRV 56-4	1/4"
FRV 56-5	5/16"
FRV 56-6	3/8"
FRV 56-8	1/2"
FRV 56-10	5/8"



Sealing Cap Plug

Part #	Tube
FRV 58-4	1/4"
FRV 58-5	5/16"
FRV 58-6	3/8"
FRV 58-8	1/2"
FRV 58-10	5/8"



Fairview Fittings - Brass 45° Inverted Flare

Connector Inverted Flare To Male Pipe

Part #	Pipe	Tube
FRV 148-4B	1/4"	1/4"



Fairview Brass Compression Fittings

Standard Sleeve

Part #	Tube
FRV 60-4	1/4"
FRV 60-5	5/16"
FRV 60-6	3/8"
FRV 60-8	1/2"
FRV 60-10	5/8"



Brass Compression Fittings Standard Nut

Part #	Tube
FRV 61-4	1/4"
FRV 61-5	5/16"
FRV 61-6	3/8"



Brass Compression Fittings Union Coupling

Part #	Tube
FRV 62-4	1/4"
FRV 62-5	5/16"
FRV 62-6	3/8"
FRV 62-8	1/2"
FRV 62-10	5/8"



Brass Compression Fittings Connector - Tube to Female Pipe

Part #	Tube	Pipe
FRV 66-2A	1/8"	1/8"
FRV 66-5B	5/16"	1/4"
FRV 66-6B	3/8"	1/4"



Brass Compression Fittings Connector - Tube to Male Pipe

Part #	Tube	Pipe
FRV 68-2A	1/8"	1/8"
FRV 68-3B	3/16"	1/4"
FRV 68-4A	1/4"	1/8"
FRV 68-4B	1/4"	1/4"
FRV 68-6A	3/8"	1/8"
FRV 68-6B	3/8"	1/4"
FRV 68-6C	3/8"	3/8"
FRV 68-6D	3/8"	1/2"
FRV 68-8B	1/2"	1/4"
FRV 68-8D	1/2"	1/2"
FRV 68-10D	5/8"	1/2"



Brass Compression Fittings 45° Male Pipe Elbow

Part #	Tube O.D.	Pipe
FRV 74-6B	3/8"	1/4"



Fairview Brass Compression Fittings

90° Elbow - Tube to Male Pipe

Part #	Tube	Pipe
FRV 69-4A	1/4"	1/8"
FRV 69-4B	1/4"	1/4"
FRV 69-5B	5/16"	1/4"
FRV 69-6B	3/8"	1/4"
FRV 69-6C	3/8"	3/8"
FRV 69-8B	1/2"	1/4"



Brass Compression Fittings 90° Elbow - Tube to Tube

Part #	Tube	Tube
FRV 65-10	5/8"	5/8"



Brass Compression Fittings Tee - Tube Three Ends

Part #	Tube
FRV 64-4	1/4"
FRV 64-5	5/16"
FRV 64-6	3/8"



► *Also See* Propane Sealing Tape pg 05-027

► *Also See* Teflon Tape pg 06-023

Fairview Brass Hose Barb Fittings

Coupler - Hose Barb to Male

Part #	Hose I.D.	Tube O.D.
FRV 127-66	3/8"	3/8"



Swivel Coupler

Part #	Hose I.D.	Tube O.D.
FRV 128-44	1/4"	1/4"
FRV 128-55	5/16"	5/16"
FRV 128-56	5/16"	3/8"
FRV 128-66	3/8"	3/8"
FRV 128-88	1/2"	1/2"



Hose Barb Fittings Coupler Hose Barb to Male Pipe

Part #	Hose I.D.	Pipe
FRV 125-2B	1/8"	1/4"
FRV 125-3A	3/16"	1/8"
FRV 125-3B	3/16"	1/4"
FRV 125-4A	1/4"	1/8"
FRV 125-4B	1/4"	1/4"
FRV 125-4C	1/4"	3/8"
FRV 125-4D	1/4"	1/2"
FRV 125-5A	5/16"	1/8"
FRV 125-5B	5/16"	1/4"
FRV 125-5C	5/16"	3/8"
FRV 125-6A	3/8"	1/8"
FRV 125-6B	3/8"	1/4"
FRV 125-6C	3/8"	3/8"
FRV 125-6D	3/8"	1/2"
FRV 125-8B	1/2"	1/4"
FRV 125-8C	1/2"	3/8"
FRV 125-8D	1/2"	1/2"
FRV 125-8E	1/2"	3/4"
FRV 125-10C	5/8"	3/8"
FRV 125-10D	5/8"	1/2"
FRV 125-10E	5/8"	3/4"
FRV 125-12D	3/4"	1/2"
FRV 125-12E	3/4"	3/4"
FRV 125-16E	1"	3/4"
FRV 125-16H	1"	1"



Fairview Brass Hose Barb Fittings

Hose Coupler Hose Barb to Female Pipe

Part #	Hose I.D.	Pipe
FRV 126-2A	1/8"	1/8"
FRV 126-3B	3/16"	1/4"
FRV 126-4A	1/4"	1/8"
FRV 126-4B	1/4"	1/4"
FRV 126-4C	1/4"	3/8"
FRV 126-5A	5/16"	1/8"
FRV 126-5B	5/16"	1/4"
FRV 126-6A	3/8"	1/8"
FRV 126-6B	3/8"	1/4"
FRV 126-6C	3/8"	3/8"
FRV 126-6D	3/8"	1/2"
FRV 126-8B	1/2"	1/4"
FRV 126-8C	1/2"	3/8"
FRV 126-8D	1/2"	1/2"



90° Elbow Hose Barb to Male Pipe

Part #	Hose I.D.	Pipe
FRV 139-4A	1/4"	1/8"
FRV 139-4B	1/4"	1/4"
FRV 139-5A	5/16"	1/8"
FRV 139-5B	5/16"	1/4"
FRV 139-5C	5/16"	3/8"
FRV 139-6A	3/8"	1/8"
FRV 139-6B	3/8"	1/4"
FRV 139-6C	3/8"	3/8"
FRV 139-6D	3/8"	1/2"
FRV 139-8B	1/2"	1/4"
FRV 139-8C	1/2"	3/8"
FRV 139-8D	1/2"	1/2"
FRV 139-10C	5/8"	3/8"
FRV 139-10D	5/8"	1/2"
FRV 139-12D	3/4"	1/2"



45° Elbow - Hose Barb to Male Pipe

Part #	Hose I.D.	Pipe
FRV 140-4A	1/4"	1/8"
FRV 140-5A	5/16"	1/8"
FRV 140-6A	3/8"	1/8"
FRV 140-6B	3/8"	1/4"
FRV 140-6C	3/8"	3/8"



Fairview Grip-Tite Hose Fittings

Male Pipe- Grip Tite

Part #	Hose I.D.	Pipe
FRV 725-4A	1/4"	1/8"
FRV 725-4B	1/4"	1/4"
FRV 725-4C	1/4"	3/8"
FRV 725-6A	3/8"	1/8"
FRV 725-6B	3/8"	1/4"
FRV 725-6C	3/8"	3/8"
FRV 725-6D	3/8"	1/2"
FRV 725-8B	1/2"	1/4"
FRV 725-8C	1/2"	3/8"
FRV 725-8D	1/2"	1/2"
FRV 725-10C	5/8"	3/8"
FRV 725-10D	5/8"	1/2"
FRV 725-12D	3/4"	1/2"
FRV 725-12E	3/4"	3/4"



Grip-Tite Hose Fittings Hose Splicer

Part #	Hose I.D.
FRV 729-4	1/4"
FRV 729-5	5/16"
FRV 729-6	3/8"
FRV 729-8	1/2"
FRV 729-10	5/8"
FRV 729-12	3/4"



Grip-Tite Hose Fittings Rigid Female Pipe

Part #	Hose I.D.	Pipe
FRV 726-4B	1/4"	1/4"
FRV 726-6B	3/8"	1/4"
FRV 726-6C	3/8"	3/8"



Grip-Tite Fittings 45° SAE Female Flare Swivel

Part #	Hose I.D.	Tube
FRV 728-44	1/4"	1/4"
FRV 728-45	1/4"	5/16"
FRV 728-66	3/8"	3/8"
FRV 728-68	3/8"	1/2"
FRV 728-86	1/2"	3/8"
FRV 728-88	1/2"	1/2"
FRV 728-810	1/2"	5/8"
FRV 728-108	5/8"	1/2"
FRV 728-1010	5/8"	5/8"



Grip-Tite Fittings 45° SAE Male Inverted Flare Swivel

Part #	Hose I.D.	Tube
FRV 735-44	1/4"	1/4"
FRV 735-45	1/4"	5/16"



Fairview Grip-Tite Hose Fittings

Grip-Tite Fitting 37° J.I.C. Male Flare

Part #	Hose I.D.	Tube
FRV 737-66	3/8"	3/8"



Grip-Tite Fitting 45° SAE Male Flare

Part #	Hose I.D.	Pipe
FRV 727-66	3/8"	3/8"



Fairview Hose Barb Fittings

Splicer - hex shoulder

Part #	Hose I.D.
FRV 129-4	1/4"
FRV 129-5	5/16"
FRV 129-6	3/8"
FRV 129-8	1/2"



Fairview Hose Barb Fittings

Hose barb all ends - hex shoulder

Part #	Hose I.D.
FRV 123-5	5/16"
FRV 123-6	3/8"



Fairview Hose Poly Tube Fittings

Tee - tube three ends

Part #	Tube O.D.	Tube I.D.
FRV 964-6	3/8"	1/4"
FRV 964-8	1/2"	3/8"



Fairview Water Hose Fittings

▪ Coupling - male hose to male pipe

Part #	Pipe
FRV 196-D	1/2"
FRV 196-E	3/4"



Fairview Water Hose Fittings

▪ Coupling - male hose to female pipe

Part #	Pipe
FRV 197-D	1/2"
FRV 197-E	3/4"



Fairview Water Hose Fittings

▪ Coupling - female hose to female pipe

Part #	Pipe
FRV 198-D	1/2"
FRV 198-E	3/4"



▶ Also See Propane Sealing Tape pg 05-027

▶ Also See Teflon Tape pg 06-023

Fairview Water Hose Fittings

▪ Swivel coupling - female hose to female pipe

Part #	Pipe
FRV 199S-D	1/2"
FRV 199S-E	3/4"



Fairview Water Hose Fitting

▪ Coupling - female hose to female garden hose

FRV 203-W



Fairview Water Hose Fittings

▪ Connector - hose barb to male hose

Part #	Hose I.D.
FRV 193-6	3/8"
FRV 193-8	1/2"
FRV 193-10	5/5/8"
FRV 193-12	3/4"



Fairview Water Hose Fittings

▪ Connector - hose barb to female hose

Part #	Hose I.D.
FRV 195-8	1/2"
FRV 195-10	5/8"
FRV 195-12	3/4"



Fairview Water Hose Fitting

▪ Hex-knurl cap nut w/chain

FRV 200-HKC



EVM Aluminum 90° Barbed Elbows

▪ 6000 series aluminum

EVM BE-1438	1/4" NPT x 3/8" hose
EVM BE-3838	3/8" NPT x 3/8" hose
EVM BE-3858	3/8" NPT x 5/8" hose



EVM Aluminum Bulkhead Fitting

▪ 6000 series aluminum

EVM BH-3838	3/8" hose to hose



EVM Aluminum Hose Barbs

▪ 6000 series aluminum

▪ Short barb

EVM HB-1414	1/4" NPTF x 1/4" hose
EVM HB-1415	1/4" NPTF x 5/16" hose
EVM HB-1438	1/4" NPTF x 3/8" hose

▪ Long barb

EVM HBL-1212	1/2" NPTF x 1/2" hose
EVM HBL-1238	1/2" NPTF x 3/8" hose
EVM HBL-1258	1/2" NPTF x 5/8" hose
EVM HBL-1438	1/4" NPTF x 3/8" hose
EVM HBL-3838	3/8" NPTF x 3/8" hose
EVM HBL-3858	3/8" NPTF x 5/8" hose



FYI

NPT vs NPTF Taper Pipe Threads

NPT threads are for mechanical or low-pressure air or fluid applications and require the use of sealing compounds like Teflon tape, to provide the seal. When the application is more critical, and the sealing compound may fail due to high heat or pressure, NPTF Dryseal threads are used. This mechanical seal is produced by the mating and slight crushing of the threads when a wrench is applied to tighten the fittings.

Since NPT threaded parts require sealing compounds, it is acceptable to use an NPTF tap for NPT applications. However, NPT taps cannot be used for NPTF applications, as it will likely produce a thread that will leak.

EVM Aluminum Pipe Plugs

▪ 6000 series aluminum

EVM PP-1400	1/4" NPTF x 9/16" hex
EVM PP-3800	3/8" NPTF x 11/16" hex
EVM PP-1200	1/2" NPTF x 7/8" hex
EVM PP-3400	3/4" NPTF x 1-1/8" hex

EVM Steel Pipe Plug

EVM PP-3800-S ** 3/8" NPTF x 11/16" hex

** While Stock Lasts



EVM Stainless Steel Pipe Plugs

▪ Stainless steel

EVM PP-1400-SS	1/4" NPTF x 9/16" hex
EVM PP-3800-SS	3/8" NPTF x 11/16" hex

EVM Reducing Bushings

▪ 6000 series aluminum

EVM RB-3814	3/8" NPTF x 1/4"
EVM RB-1238	1/2" NPTF x 3/8"



EVM 90° Street Elbows

▪ 6000 series aluminum

EVM SE-3814	3/8" NPTF male x 1/4" female
EVM SE-1212	1/2" NPTF male x 1/2" female



EVM Tank Welding Bosses

▪ 6000 series aluminum

EVM TB-6838	3/8" NPTF x 1-1/8" dia.
EVM TB-6812	1/2" NPTF x 1-1/2" dia.
EVM TB-6834	3/4" NPTF x 1-1/2" dia.
EVM TB-6810	1" NPTF x 2" dia.
EVM TB-68112	1-1/2" NPT x 2-5/8" dia.



EVM Valves

▪ Fuel shut off valves

▪ Meet ABYC 2-1/2 min. fire test

▪ All aluminum construction

EVM SV-120-1438	1/4" NPTF x 3/8" hose barb
EVM SV-130-3838	3/8" NPTF x 3/8" hose barb



EVM Marine Fittings and Hardware

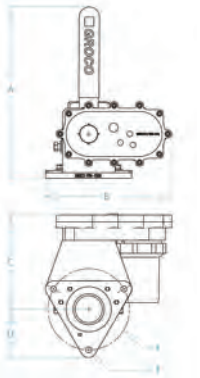
All EVM products are designed to conform to existing A.B.Y.C. and Coast Guard Standards and Regulations.

Groco E-Valve Seacocks



- Motorized valve operation for seacock sizes 3/4" to 3"
- Wireless control from helm; pushbutton control from engine room
- Touchpad control (shown) is standard. Optional LCD touchscreen provides wireless control from the helm
- LCD display operates all of your E-Valves and GROCO SSA flow monitor system
- Programmable set-up mode commands the generator seacock (or any other seacock) to open when you start and close when the generator stops. No more generator flooding
- Manual valve operation without backdriving the gear train and without disconnecting anything - just operate the valve as a standard manual seacock
- Minimal power draw
- Reversible gearbox mount enables selectable direction of handle rotation
- Same mount bolt pattern as GROCO FBV and BV, and most other brands
- Fully submersible
- UL listed bronze seacock
- NMEA2000 ready
- IP67 rated
- CP-712 compliant
- 24V models available

* Special Order Request Items



Part #	PIPE SIZE	A	B	C	D	E	F	WEIGHT
GRO FBVE-750-12V *	3/4"	6.1"	6.4"	4.5"	2.0"	3.12"	3" x 5/16"	4.4 lbs
GRO FBVE-1000-12V *	1"	7.3"	6.5"	4.8"	2.1"	3.38"	3" x 5/16"	5.0 lbs
GRO FBVE-1250-12V *	1-1/4"	7.1"	6.6"	5.0"	2.3"	3.62"	3" x 5/16"	5.8 lbs
GRO FBVE-1500-12V *	1-1/2"	9.5"	7.0"	5.2"	2.7"	4.50"	3" x 5/16"	7.1 lbs
GRO FBVE-2000-12V *	2"	10.1"	7.3"	5.5"	3.0"	5.00"	3" x 3/8"	9.7 lbs
GRO FBVE-2500-12V *	2-1/2"	12.4"	9.2"	6.7"	3.6"	5.88"	3" x 3/8"	22.0 lbs
GRO FBVE-3000-12V *	3"	14.8"	9.7"	6.7"	4.2"	7.00"	3" x 3/8"	31.0 lbs

* Special Order

Groco Seacock Backing Blocks



- Improves flanged seacock installations
- Each size fits multiple seacock sizes
- Rigid 1/2" thickness provides secure installation, while still flexible enough to conform to minor hull curvature
- Will not swell or absorb moisture
- Environmentally friendly PVC foam specially formulated for marine applications

Part #	Insert Threads	ID	OD	Fits Seacock
GRO BB-1	5/16"-18	3/4" - 1"	4.29"	750 & 1000
GRO BB-2	5/16"-18	1-1/4" - 1-1/2"	5.38"	1250 & 1500
GRO BB-3	3/8"-16	2" - 2-1/2"	7.13"	2000 & 2500

Groco Bronze Ball Valves



- Handle has square hole to accept standard ratchet to help access hard-to-reach valves and ease actuation of hard to operate valves
- 400 WOG rated
- Full pipe size flow
- Stainless steel handle and hardware.
- Chrome plated solid brass ball (not a hollow ball)
- Bonding attachment
- PTFE seats and seals
- Full flow
- UL Listed for fuel
- Fits IBVF for Seacock application

GRO IBV-500 1/2" NPT
GRO IBV-750 3/4" NPT
GRO IBV-1000 1" NPT
GRO IBV-1250 1-1/4" NPT
GRO IBV-1500 1-1/2" NPT
GRO IBV-2000 2" NPT

Groco Bronze Flange Adapters



- Eliminates common (and dangerous) thread mismatch when in-line valves are screwed onto thru hulls
- Accepts standard thru-hulls into the base and standard in-line valves or other components on top
- Provides a safe and sturdy assembly when in-line valves are used as seacocks
- Prevents valve damage during engine or generator installation - the valve can be installed later
- Make future valve replacement a simple job
- Bonding attachment
- BSPP to NPT

GRO IBVF-750 3/4" NPT
GRO IBVF-1000 1" NPT
GRO IBVF-1250 1-1/4" NPT
GRO IBVF-1500 1-1/2" NPT
GRO IBVF-2000 2" NPT

Groco Safety Seacock Conversion



Converts any seacock to a safety seacock. The quick-release plug feature allows the engines to act as high capacity bilge pumps in an emergency and simplifies routine maintenance and winterizing (using the supplied adapter). Simply screw into the top of any seacock. Allows normal seacock operation. All bronze castings.

GRO SSC-1500 * 1-1/2" ID Hose x 1-1/2" NPT

* Special Order

Marelon Right Angle Thru Hull Valves



- Full-flow seacock with mushroom head threaded thru-hull and 90° hose barb
- ABYC H-27 Compliant

Part #	Hose ID	Note	Thru-Hull OD
MPS 931153	3/4"	-	1-1/8"
MPS 931156K	1-1/2"	w/locking handle	2-1/8"

Marelon Thru Hull Kits



- Full-flow seacock with mushroom thru hull
- Includes both a 90 and straight hose barb
- ABYC H-27 Compliant

Part #	Hose ID	Thru Hull OD
MPS 904042ABYC	1/2"	1-1/8"
MPS 904043ABYC	3/4"	1-1/8"
MPS 904044ABYC	1"	1-1/2"
MPS 904045ABYC	1-1/4"	1-1/2"
MPS 904046ABYC	1-1/2"	2-1/8"
MPS 904048ABYC	2"	2-1/8"

Buck Algonquin Seacocks



- Low profile drain & grounding screw, full flow bronze body, hard chromed bronze ball, stainless steel handle
- UL labelled
- Rated 600 PSI

BUC ASC75LP	3/4" NPT
BUC ASC100LP	1" NPT
BUC ASC125LP	1-1/4" NPT
BUC ASC150LP	1-1/2" NPT
BUC ASC200LP	2" NPT
BUC ASC250LP	2-1/2" NPT

Marelon Flanged Seacocks



- Component style seacocks
- Molded in high-strength non-corrosive Marelon
- Their great strength, light weight, and complete freedom from corrosion and electrolysis make them the ideal valve for controlling inlet and outlet water requirements above and below the waterline
- Teflon seals are standard on all valves
- N.P.S.F. straight thread

Part #	Thread	Height	Base
MPS 904009	1/2"	3"	3"
MPS 904010	3/4"	3"	3"
MPS 904011	1-1/2"	5"	6"

Buck Algonquin Bronze Ball Valve



- Bronze body, hard chromed bronze ball
- Stainless steel handle
- Full flow
- Rated 600 PSI

BUC BBV-25FSS 1/4"

Buck Algonquin Bronze Ball Valves



- Bronze body, hard chromed bronze ball
- Stainless steel handle
- Full flow
- Rated 600 PSI
- Grounding screw

Part #	Size	Handle Kit †
BUC BBV-38LP	3/8"	BUC BBV-KIT38LP
BUC BBV-50LP	1/2"	-
BUC BBV-75LP	3/4"	BUC BBV-KIT75LP
BUC BBV-100LP	1"	-
BUC BBV-125LP	1-1/4"	BUC BBV-KIT125LP
BUC BBV-150LP	1-1/2"	BUC BBV-KIT150LP
BUC BBV-200LP	2"	BUC BBV-KIT200LP
BUC BBV-250LP	2-1/2"	-

† Includes handle and retaining nut

Parts:

BUC BBV-KIT300LP * Low profile replacement handle kit, 3"

* Special Order - may have stock

Fairview Forged Brass Ball Valve



- For natural and propane gas use
- C.S.A. certified to C.G.A
- Rated to 125 PSI
- 1/4" FNPT

FRV BV2103-B

Fairview Cast Brass Ball Valve



- 3/8" FNPT

FRV BV4103-C

Marelon Ball Valves



- Component style ball valves
- Molded in high-strength non-corrosive Marelon
- Their great strength, light weight, and complete freedom from corrosion and electrolysis make them the ideal valve for controlling inlet and outlet water requirements above and below the waterline
- Teflon seals are standard on all valves
- N.P.S.F. straight thread

Part #	Thread	Diameter	Length
MPS 905100	1/2"	1-7/8"	3"
MPS 905101	3/4"	1-7/8"	3"
MPS 905102	1"	2-3/4"	4-3/4"
MPS 905103	1-1/4"	2-3/4"	4-7/8"
MPS 905104	1-1/2"	3-1/2"	5"
MPS 905105	2"	4-1/4"	5-7/8"

► Also See Marelon Fittings pg 10-025 to 026

Sealand 1-1/2" PVC Ball Valve

- Ideal for use as an inline valve in a sanitation system
- Includes 1 x SLD 602 valve and 2 x SLD 341513 adapters

Requires gluing*



SLD 346087	Complete
SLD S-602	Valve only
SLD 341513	Hose adapters

Brass Full Port Ball Valves



- Chrome plated solid brass ball
- Teflon seats
- Full ports for min. pressure drop
- 400 PSI cold water, oil or gas
- 150 PSI steam
- Quarter turn operation
- Vinyl insulator on flat cadmium plated steel handle
- Part # indicates pipe thread size

VAL B3-1/4"
VAL B3-3/8"
VAL B3-1/2"
VAL B3-3/4"
VAL B3-1" DZR
VAL B3-1-1/4"
VAL B3-1-1/2"
VAL B3-2-1/2"
VAL B3-3"

Replacement Handles:
VAL 1/2"-3/4"
VAL 1"-1-1/4"
VAL 1-1/2"-2"

DZR model meets ANSI 61, ANSI 372

Stainless Steel Full Port Ball Valves

- Two piece body, full port stainless steel ball valves
- Adjustable packing nut
- Locking lever 304 stainless handle
- 1000 P.S.I. body and ball assembly is 316 stainless
- Part # indicates pipe thread size



VAL BV-1/4"S/S
VAL BV-3/8"S/S
VAL BV-1/2"S/S
VAL BV-3/4"S/S
VAL BV-1"S/S
VAL BV-1-1/4"S/S
VAL BV-1-1/2"S/S
VAL BV-2"S/S

Replacement Handles:

VAL 1T2LH	1"-1-1/4" (BV 1"S/S & 1-1/4"S/S)
VAL 2T2LH	1-1/2"-2" (BV 1-1/2"S/S & 2"S/S)
VAL 14T2LH	1/4"-1/2" (BV 1/4"S/S, 3/8"S/S & 1/2"S/S)

Brass Gate Valve



- F.I.P. threaded ends
- Non-rising stem
- 200 PSI cold water, oil or gas
- Solid wedge disc
- Part # indicates pipe thread size

VAL 150T-3"

Fairview Brass Spring Bottom Shut-Off Cocks



- Pipe - Female to Female

FRV 2103-A	1/8"
FRV 2103-B	1/4"
FRV 2103-C	3/8"



- Pipe - Female to Male

FRV 2120-B	1/4"

Fairview Brass Closed Bottom Shut-Off Cocks



- Pipe - Female to Female

FRV 5103-B	1/4"
FRV 5103-C	3/8"

Racor Brass Shut-Off Valve



- Open/close valve
- 1/4" NPT fittings

RAC RK-19492

Fairview Brass Angle Valves



Part #	Hose ID	Male Pipe
FRV 1139-10C	5/8"	3/8"
FRV 1139-10D	5/8"	1/2"

Fairview Brass Mini Ball Valve



- Pipe - 1/4" Female to 1/4" Male

FRV BV3120-B

Bronze 3-Way Ball Valves

- Large port, female internal pipe threads
- 400 PSI cold water, oil or gas; 100 PSI at 300°F
- Part # indicates pipe thread size



VAL KITZ-54 3/8"
VAL KITZ-54 1/2"
VAL KITZ-54 3/4"
VAL KITZ-54 1"
VAL KITZ-54 1-1/4"
VAL KITZ-54 1-1/2"
VAL KITZ-54 2"

Brass 3-Way Ball Valves

- Forged 2 piece construction with reduced L-Port & 2 seat design
- ANSI B1.20.1 NPT ends
- Blowout-proof stem, chrome plated ball, o-ring stem seals, and panel mounting holes
- Class 150, 400 WOG
- Part # indicates pipe thread size



VAL MAS-B-3L-3/8"
VAL MAS-B-3L-1/2"
VAL MAS-B-3L-3/4"
VAL MAS-B-3L-1"
VAL MAS-B-3L-1-1/4"
VAL MAS-B-3L-1-1/2"
VAL MAS-B-3L-2"

Fairview Brass Saddle Tank Valves w/Click



- Internal nylon plug provides long life, excellent seal and easy operation
- Click indicates fully open or closed
- Recommended for low pressure use in gasoline, oil, air, or water systems
- With mounting bracket
- All ports female pipe

Part #	Stem	FPT	
FRV 2101-B	1-3/8"	1/4"	3-Way
FRV 2101-C	1-3/8"	3/8"	3-Way
FRV 2102-C	1-3/8"	3/8"	4-Way

Groco 6 port Fuel Valve



- "L" flow pattern
- C84400 bronze construction
- Handle rotates 180°
- Main NPT: 1/2"
- Return NPT: 3/8"

GRO FV-65038

Moeller Brass Valves



- Click indicates fully open or closed
- With mounting bracket

MOE 033305-10 1/4" FNPT 3-way valve
MOE 033312-10 3/8" FNPT 3-way valve

Moeller Shut-Off Valve



- Contructed of brass
- Meets ABYC H-24 requirements
- Fits most shaft seal crossover fittings

MOE 033306-10 3/8" barb x 1/4" NPT

Fairview Brass Drain Cocks



- Back seating type

FRV 240-A 1/8"
FRV 240-B 1/4"
FRV 240-C 3/8"
FRV 240-D 1/2"

Fairview Brass Drain Cocks



- Needle seat one-piece plug and handle

FRV 242-A 1/8"
FRV 242-B 1/4"

Fairview Brass Shut-Off Needle Valves



- Flare - tube to tube. Up to 150 PSI

FRV 3042-6 3/8"

Jabsco 'Y' Waste Valve



- "Y" valve is designed for installation in waste discharge and bilge pump out systems
- Self cleaning, large, easy to turn handle locks if need be
- 1-1/2" curved discharge ports can be rotated 360° to accommodate many configurations
- Supplied with both 1-1/2" and 1" straight inlet port for easy attachment to toilets with 1" discharge hoses

JAB 45490-1000 "Y" valve
Parts:
JAB 45500-1000 Handle extension spacer kit
JAB 45488-0000 Gasket Kit
JAB 45493-0000 Replacement handle

Marelon 'Y' Valves



- High-strength non-corrosive Marelon
- Operated by a simple 120° movement
- Positive stops are provided between positions
- Base diameter: 3-1/2"

MPS 902017 3/4"
MPS 902001 1"
MPS 902000 1-1/2"
Parts:
MPS 902006 Repair kit, fits 3/4", 1", & 1-1/2" (handle, valve gate & o-ring)

Bosworth Sea-lect 'Y' Valves

- Redesigned for ease of turning and to resist valve "freeze-up"
- Corrosion resistant
- Full port opening; interior parts do not restrict flow
- Valve handle turns right or left to close off desired intake
- Removable travel stops convert from 2 to 3 way operation



94AB-3/4-CPH

M94AB-3/4-CPH

94-CPH



BM-95-CPH



M-95-CPH

BOS 94AB-3/4-CPH 3/4" hose barb, base mount
BOS M94AB-3/4-CPH 3/4" hose barb, flush mount
BOS 94-CPH 1" smooth, base mount
BOS BM95-CPH 1-1/2" hose barb, base mount
BOS M95-CPH 1-1/2" hose barb, flush mount
Parts:
BOS #4-HANDLE Replacement handle for 94/95
BOS #4M-HANDLE ** Replacement handle for M-95 & M94AB
** While Stock Lasts

Bosworth Check Valves



74AB Series



75 Series

- Simple inexpensive in-line valves
- Used for keeping pumps primed, etc.

BOS 74F4 Female 1/2" NPT x Female 1/2" NPT
BOS 74AB-1/2" 1/2" hose barb x 1/2" hose barb
BOS 74AB-3/4" 3/4" hose barb x 3/4" hose barb
BOS 74-6 3/4" hose
BOS 74-8 1" hose
BOS 74-9 1-1/8" hose
BOS 75-12 1-1/2" hose

Sealand 1-1/2" PVC Check Valves





- Smooth barbs allow for easy installation and removal
- Heavy duty unit will allow replacing of the check valve without removing the hose

SLD 238696 Standard unit
SLD 300011 Heavy duty unit

Shurflo In-Line Check Valve



- Allow flow in one direction only
- Safeguard against back surge to 100 PSI

SHR 340-001 1/2" hose barb

T-H Marine Check Valve



- Prevents backwash
- Chemical resistant materials
- Thermo-plastic flapper
- 1-1/8"

THM ILS-1200-DP

Whale Check Valves



LV1218

- Provide an easy way to maintain prime in a suction or discharge line
- Designed to fit in-line
- Suitable for use with manual or electric pumps
- Glass-filled Polypropylene, Valve: Nitrile



LV1215

WHA LV1218 25mm (1"), 28mm (1-1/8")
WHA LV1219 19mm (3/4"), 25mm (1")
WHA LV1215 25mm (1"), 38mm (1-1/2")

Fairview Coupling Style Check Valve



- 3/8" female pipe thread
- 250 PSI non-shock cold water
- Forged brass construction
- Can be installed horizontal or vertical
- Less than 1 PSI cracking pressure
- Intended for use with air and water only

FRV 103CV-C

Groco CV Series Check Valves



CV Series in-line check valve may be used in water systems or fuel systems to keep pumps primed and to prevent back-flow. The unique design reduces flow turbulence and restriction, thus improving pump performance.

- C83600 cast bronze construction
- NPT threaded ports
- Suitable for use with diesel fuel or gasoline

Part #	NPT	Dia	Length	PSI to open
GRO CV-50	1/2"	1.42"	2.45"	0.33
GRO CV-75	3/4"	1.65"	2.58"	0.16
GRO CV-100	1"	1.9"	3.3"	0.19
GRO CV-150	1-1/2"	2.93"	4.34"	0.1

Shurflo Pressure Regulator



- Hooks directly to 3/4" garden hose or city water faucet
- Reduces presure to 50 psi
- Includes 3/4" garden hose to 1/2" pipe adapter
- 3-1/2" x 2"

SHR 183-039-08

Jabsco Water Pressure Regulators



- Limits inlet water pressure to 45 PSI (3.1 bar)
- Maintains regulated pressure at various flow rates
- Swivel elbow output
- Manufactured of food-grade materials
- Removable strainer protects plumbing
- 1/2"-14 pipe connection
- Inlet: 3/4" FGHT
- D: 3-1/2" x H: 4-3/8" x W: 4-7/8"

JAB 44411-1045 White
JAB 44411-2045 Chrome

Gemlux Water Inlet



- 316 cast stainless steel
- Stainless steel ball chain and black plastic cap
- 2-3/4" OD
- For use with 3/4" hose

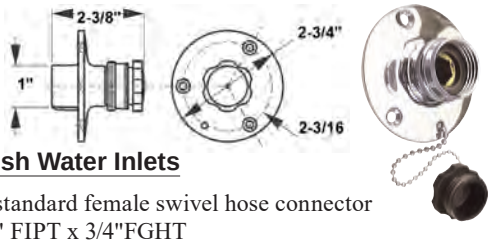
GEM 190-1

Perko Fresh Water Inlet



- Chrome plated bronze
- For water under pressure at dockside
- External portion has a swivel hose connector with watertight plug and stainless bead chain
- Pipe size: 1/2"
- Flange: 2-3/4 OD

PER 499-DP-CHR



Sea-Dog Fresh Water Inlets

- Comes with standard female swivel hose connector
- Pipe size 1/2" FIPT x 3/4"FGHT
- Use #8 F.H. fasteners

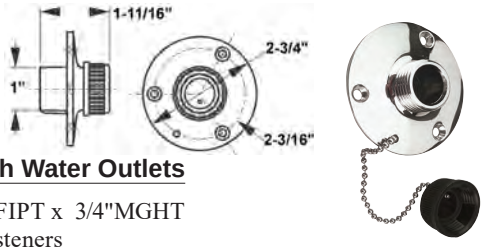
SED 512110-1 Brass chrome plated
SED 513110-1 Cast 316 stainless steel
Parts:
SED 512119-1 Replacement cap

Perko Water Outlet



- Chrome plated bronze
- Standard male hose connector for use with on-board washdown systems
- Watertight black plastic cap and stainless steel bead chain
- Pipe size: 1/2" IPT x flange: 2-3/4"OD

PER 504-DP-CHR
Parts:
PER 504-DP-99A Spare plug & chain



Sea-Dog Fresh Water Outlets

- Pipe size 1/2" FIPT x 3/4"MGHT
- Use #8 F.H. fasteners

SED 512120-1 Brass chrome plated
SED 513120-1 Cast 316 stainless steel

T-H Marine Water Outlet



- Injection molded nylon bulkhead mounted wash down fitting
- 2-1/4" diameter and mounts in a 1-1/4" diameter hole with 3 countersunk screws
- Barbed hose fitting connects 3/4" inside diameter tubing
- Standard hose threads with a protective cap which has a retaining strap is standard
- Comes with a shut-off valve in the spigot

THM WDV-1-DP

Jabsco Washdown Outlet Kit



- Flush mount 316 stainless steel 1/2" NPT female deckplate inlet fitting
- Comes with a 3/4" GHT hose adapter with a pre-installed check valve
- Quick, simple, twist connection
- 2-7/8" diameter top
- 1-3/8" hole cutout required

JAB 31911-0000

Parts:

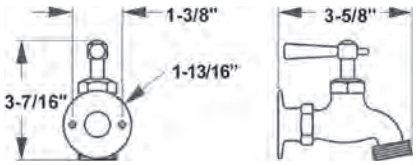
JAB 31911-0002 Hose adapter only
JAB 31911-0003 Service kit (for inlet)

Scandvik Washdown Spigot



- 316 stainless steel spigot
- 1/4 turn ceramic valve
- Standard 3/4" garden hose thread for hose attachment
- Includes interchangeable FRESH and RAW pendant
- Mounts easily with 3 x #6 screws to bulkhead
- Water connection: 1/2" NPT-F
- H: 3-3/4" x D: 3-3/4" x Flange: 2-3/8"

SCA 10175

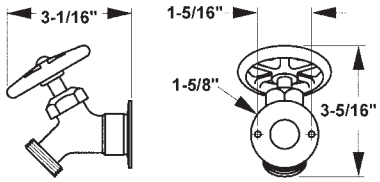




Sea-Dog Washdown Faucet

- Chrome plated brass
- Ideal for exterior fresh water washdown
- Allows for control of the water flow on the exterior surface

SED 512210-1 1/2" FIPT x 3/4" MGHT





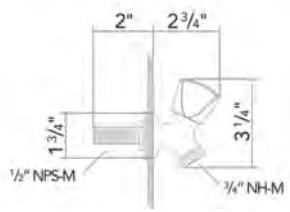
Sea-Dog Washdown Faucet

- Chrome plated brass
- Ideal for exterior fresh water washdown
- Allows for control of the water flow on the exterior surface

SED 512220-1 1/2" NPS-M x 3/4" NHM hose

Ambassador Washdown Spigot





- Trinidad series
- Stainless steel, compression valve

AMB 133-0216-SS

► Also See Faucets pg 11-021 to 022

Bosworth Vented Loops



- Corrosion resistant plastic construction

BOS 30-1-1/8" 1-1/8" vented loop
BOS 30-1-1/2" 1-1/2" vented loop

Parts:

BOS 31 Vacuum breaker

Buck Algonquin Bronze Vented Loop



- Used in discharge and intake lines when toilet is installed below the waterline
- Automatic air vent prevents back siphoning

Part #	Hose Size	Height	Width
BUC VL-150	1-1/2"	6-1/4"	7"

Parts:

BUC 60VL75CV Vent only VL-75
BUC 60VL150J Vent only VL-150

Marelon Vented Loops

- Precision molded in high-strength non-corrosive Marelon
- The one-way valve is designed to seal properly if particulate matter is present in fluids



MPS 903008 1/2"
MPS 903003 5/8"
MPS 903001 3/4"
MPS 903016 1"
MPS 903018 1-1/8"
MPS 903000 1-1/2"

Parts:

MPS 903002 Vent cap
MPS 903004 Vent barb

The MF-846 vent barb assembly option can be used in lieu of the standard MF-841 cap/duckbill. This option allows venting to the outside of the hull via a 1/4" hose.

Groco Vented Loops



- All bronze construction
- Includes mounting hardware
- The oversized vent valve is virtually clog free and can easily be removed without tools for inspection or cleaning
- Cap is threaded 1/2" NPT to allow overboard venting

GRO HVL-750 3/4" hose barb
GRO HVL-1000 1" hose barb
GRO HVL-1500 1-1/2" hose barb

Parts:

GRO VL-2023 High-temp vacuum breaker assembly

Mobile living made easy.

DOMETIC

CRUISE LONGER

With Dometic Sanitation







VacuFlush® Toilet Systems

Powerful vacuum flushing uses a fraction of the water required by other electric marine toilets. Remotely tucked away in the bilge is the quiet vacuum generator of the VacuFlush® system. After each flush, it creates a vacuum reserve so powerful that the bowl instantly clears of all effluent.

M65 Gravity Toilet

Fully enjoy a day on the water knowing that you can expect a comfortable, reliable experience when tending to your basic needs. With ample capacity, dependable flushing action, and easy-to-clean surfaces, the self contained M65 gravity toilet allows boaters the comfort and convenience of home.

Learn More at **dometic.com**

Sanitation Systems	Vacuflush / SeaLand / Portable Toilets	11-002 to 007
	Jabsco/Xylem Toilets	11-007 to 011
	Groco Toilet Parts	11-012
	Holding Tanks & Accessories	11-013 to 015
	Waste / Macerator Pumps	11-016
	Tank Monitors	11-016 to 018
	Sanitation Treatments / Maintenance	11-018 to 019
Shower, Galley Sinks, & Faucets	Sinks & Fittings	11-019 to 021
	Faucets	11-021 to 022
	Showers	11-022 to 025
Pumps & Parts	Water Tanks	11-025
	Galley Pumps	11-025 to 026
	Water System Pumps	11-026 to 029
	Headhunter Water Systems	11-030
	Accumulator Tanks	11-030 to 031
	Groco Water Systems	11-030
	Bilge Pumps / Filters	11-031 to 035
	Bilge Switches / Panel Switches	11-035 to 036
	Washdown & Livewell Pumps	11-036 to 039
	Shower Sumps	11-039 to 040
	Pump Adapters / Filters	11-040 to 041
	Rotary Vane Pumps	11-041
	Flexible Impeller Pumps	11-042 to 043
	Clutch / Centrifugal Pumps	11-044 to 046
	Engine Water Pumps	11-046 to 047
	Impellers / Impeller Pullers	11-047 to 050
	Manual Pumps / Foot Strainers	11-051 to 054
	Oil Pumps	11-054 to 056
	Fuel Pumps	11-056 to 057

VacuFlush 5000 Series - Full Size Comfort

Large household size bowl with shallow front-to-back footprint delivers installation ease and user comfort for all boat sizes.

- 1 pint per flush
- Foot-pedal flush
- Standard, medium and low-profile heights
- Above & below floor discharge options
- Slow close hinges (on all except 504701)

***The outlet direction is taken when facing the to**



5000 Series

5006 Models

- Low Profile design
- Discharge through floor, hose or pipe
- Seat height: 12-3/8" x W: 17-1/4" x D: 18-3/8"

VAC 500601 White
VAC 500603 * Bone

5009, 5047, 5048 Models

- Standard height
- Discharge through floor, hose or pipe
- Seat height: 16-1/2" x W: 14-7/8" x D: 18-3/8"

VAC 500901 White
VAC 500903 * Bone

5047 Models

- Standard height
- Discharge above the floor at right of base
- Seat height: 16-1/2" x W: 14-7/8" x D: 18-3/8"

VAC 504701 White
VAC 504703 * Bone

5048 Model

- Standard height
- Discharge above the floor at rear of base
- Seat height: 16-1/2" x W: 14-7/8" x D: 18-3/8"

VAC 504801 White

5147 Models

- Medium height
- Discharge above the floor at right of base
- Pedal lock for tank pump out
- Seat height: 15" x W: 14-7/8" x D: 18-3/8"

VAC 514701 White
VAC 514703 * Bone

5148 Model

- Medium height
- Discharge above the floor at rear of base
- Pedal lock for tank pump out
- Seat height: 15" x W: 14-7/8" x D: 18-3/8"

VAC 514801 White
* Special Order

Parts:
SLD 343829 Seat & cover, white
SLD 343831 Seat & cover, bone

VacuFlush is only sold by Factory Authorized Installing Dealers

VacuFlush 4800 Designer Series



Luxurious comfort in a compact fixture - featuring electronic remote switching (optional switch required), elongated seat and "plug-in base".

- All-ceramic construction
- Automatic flushing cycle
- Very low water consumption (1.5 pints/.7 litre per flush)
- Full-size seat with elongated opening
- New flush mechanism reduces noise
- Through or above the floor discharge
- Wall mounted push-button operation (switch required)

VAC 148481 Model 4848, White, standard height, above or through the floor discharge, D: 18-5/8" x W: 14-3/4"
VAC 148061 * Model 4806, White, low profile, through the floor discharge, D: x 16-1/4" x W: 14-3/4"
VAC 148091 * Model 4809, White, standard height, through the floor discharge, D: 18-5/8" x 14-3/4"

Options:

VAC 408010 Electronic backlit flush panel, Grey
Cutout H: 2" x 1.875"
Overall H: 3 x 3.45"



Parts:
SLD 311618 Slow-close seat, white
* Special Order

VacuFlush 4700 Designer Series



Same features as the 4800 Series above with deluxe styling and flat back design.

- Elongated opening wooden seat
- Service switch is easy to access
- Above or below the floor discharge
- Excellent fixture for larger yachts & houseboats

VAC 475251 * 12V
VAC 475281 * 24V
* Special Order

VacuFlush 140 Series For Smaller Boats

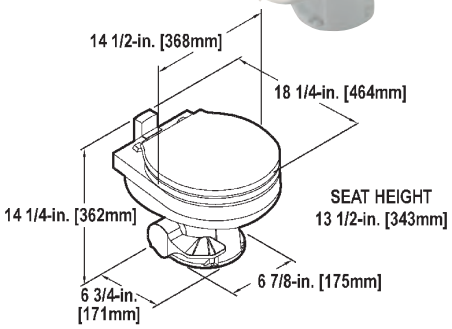


- 1 pint flush
- Above-the-floor discharge
- Foot pedal flush
- Pedal lock for tank pump out
- White

Right side discharge
VAC 014701

Rear discharge
VAC 014801

Left side discharge
VAC 014901 *
* Special Order



The outlet direction is taken when facing the toilet

Parts:
SLD 344436 Seat & cover, white
SLD 344437 Seat & cover, bone

VacuFlush VacuStat Indicator Panel



- Continuously monitors vacuum status
- Green light indicates that it is okay to flush
- Red light indicates that the vacuum pump is running or, if connected to a TankWatch 4 level indicator with shutdown relay, denotes that the holding tank is full
- 3.25" x 2"

VAC 535000 12/24V

VacuFlush Status Panels



Providing protection for the vacuum pump, this panel allows the owner to shut the system down during the night. It continuously monitors the status of the vacuum, and indicates loss of electrical power or system power off.

- 10 amp. circuit breaker
- 3.25" x 3.25"

VAC 530012 12V
VAC 530024 * 24V
* Special Order

VacuFlush J-Series Vacuum Generators

Installation Flexibility - Pump body and plumbing fittings easily rotate to accommodate diverse plumbing layouts. Inlet and outlet fittings are interchangeable.

- Pump Flow - Large 2" ID duckbill valves improve flow through pump
- Dimensions: 20-1/8" x 9-1/8" x 14"



VAC 780012 12V
VAC 780024 24V
Parts:
SLD 311208 Duck bills, 2/pkg
VAC 311216 Vacuum switch
VAC 311229 12V replacement pump

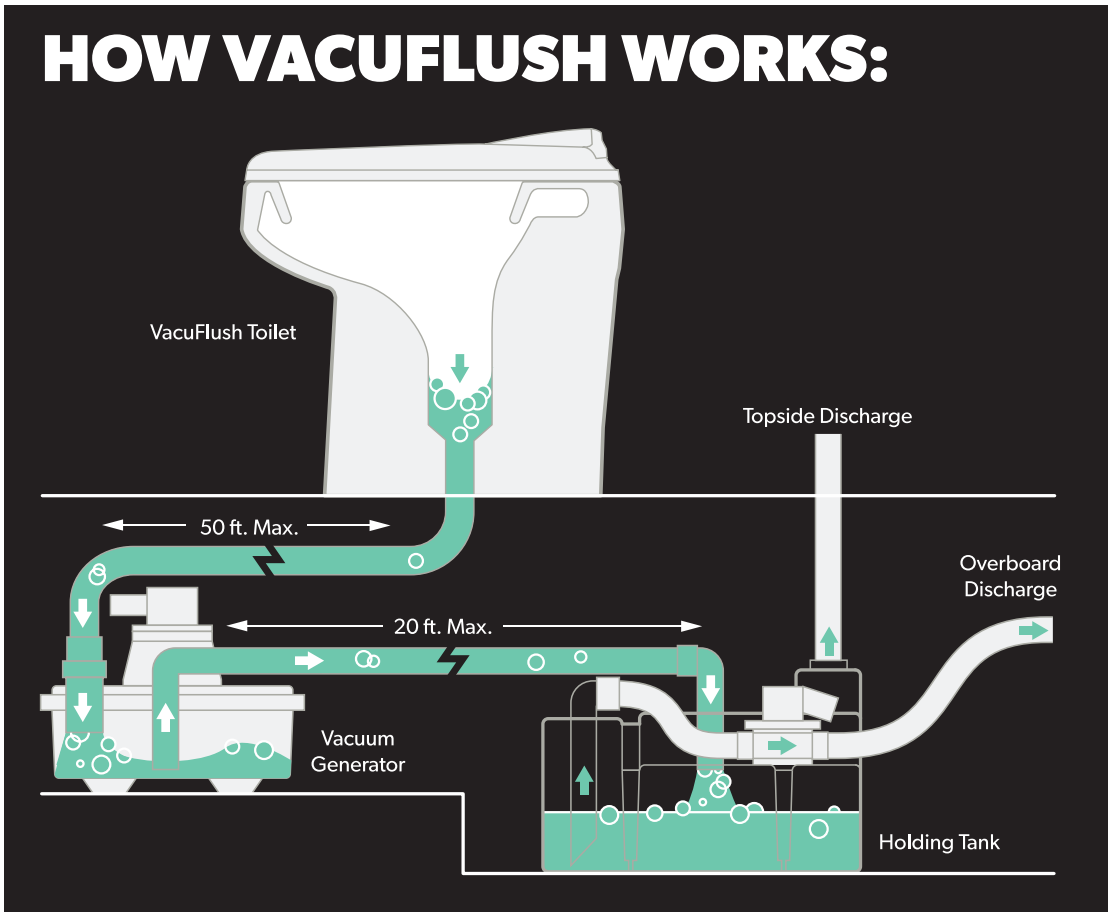
VacuFlush Low Profile Vacuum Generator

- Only 8" inches high allows this vacuum generator to be installed in shallow spaces
- Vacuum tank and pump can be mounted separately
- Clears bowl instantly
- 4-6 amp. draw per flush
- H: 8" x W: 10" x L: 29"



VAC 770012 12V
Parts:
SLD 310902 Pump repair kit
VAC 311436 Vacuum switch
SLD 310076 Duck Bill Valves (2)

VacuFlush is only sold by Factory Authorized Installing Dealers



VacuFlush S-Series Vacuum Pumps



- An electric, straight through, bellows type pump
- Manufactured of polypropylene
- Draws 2 to 6 amps at 12V
- Can be mounted up to 20' away from the vacuum tank
- Must be mounted right side up
- Bellows style allows it to be run dry without damage
- Weight: 8 lbs
- Inlet and outlet connections: 1-1/2" hose barb

Part #	Volts	Breaker/Fuse
VAC 201200	12V	12-14 ga - 10A
VAC 202400	24V	14-16 ga - 5A

Parts:

SLD 310902	Pump repair kit
SLD 311423	Whisper motor kit 12V
SLD 311424	Whisper motor kit 24V
SLD 310076	Duck bill valves (2)
SLD 310644	S/T pump eccentric kit

VacuFlush Vacuum Tank



- A differential switch is located in the tank that monitors the vacuum
- When a drop in vacuum is sensed, it signals the pump to activate
- If more than one toilet is installed in a system, each of the toilets must have a tank
- Inlet and outlet connectors: 1-1/2" hose barb
- H: 11-1/2" x W: 9-1/2" x L: 24-1/2"

VAC 729100 Complete system

Parts:

SLD 310017	Tank only
VAC 318032	Vacuum switch for vacuum tank

VacuFlush Holding Tank Systems with Built-in Vacuum Generators

Virtually any boat from 19 feet in length and longer can feature a complete VacuFlush toilet system. Many HTS-VG models include level indicators, vacuum relief valve, vent filter and discharge pump for added convenience and reliability.

- Tankwatch, TankSaver, 1 outlet

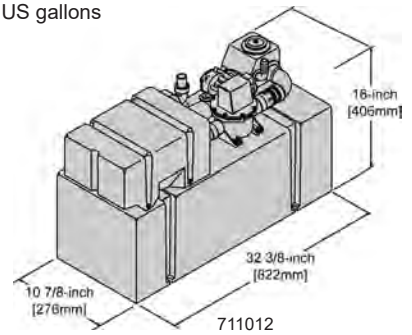
VAC 711012 10 US gallons

- Tankwatch, TankSaver, 2 outlets, discharge pump & vent filter

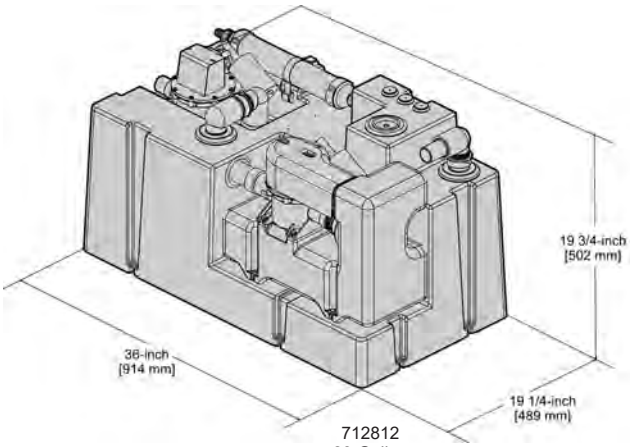
VAC 712812 28 US gallons

- Tankwatch, TankSaver, 2 outlets, discharge pump & vent filter

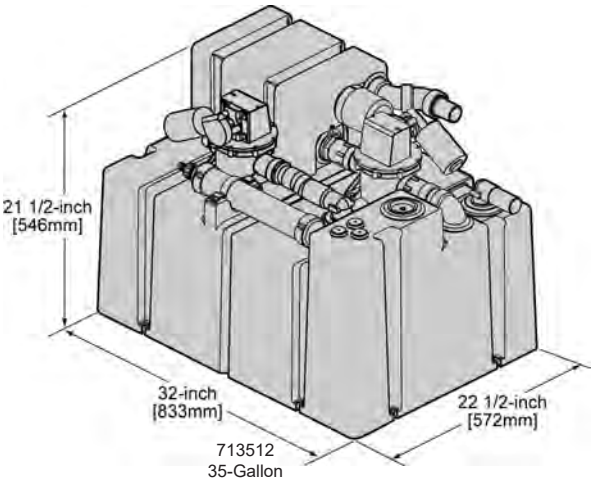
VAC 713512 35 US gallons



711012
10-Gallon



712812
28-Gallon



713512
35-Gallon

VacuFlush is only sold by Factory Authorized Installing Dealers

SeaLand/VacuFlush Common Spare Parts

SLD 310076	Duck bill kit (1-1/2") for "S & T" pumps 2/pk
SLD 311327	Duck bill kit Red Nitrile (1-1/2") 2/pkg
SLD 311462	Teflon & rubber vacuflush seal kit
SLD 314349	Water valve kit
SLD 318162	Ball shaft and cartridge kit
SLD 310954	Halfball/shaft/cartridge-ecovac
SLD 311208	Duck bills (2"), 2/pkg
SLD 311641	Water valve kit, for model 310
SLD 236096	Spring cartridge for toilet
SLD 310683	Spring cartridge - Ecovac

SeaLand/VacuFlush Spare Parts

SLD 230325	Vacuum breaker w/diverter valve
SLD 230335	Vacuum breaker assembly
SLD 230980	Bellows kit for "S & T" pumps
SLD 310063	Floor flange seal kit
SLD 310064	Floor flange mounting kit
SLD 310139	Universal mounting kit, white
SLD 310140	Universal mounting kit, bone
SLD 310578	Flush lever/cartridge kit
SLD 310682	Ecovac flush pedal/cartridge, white
SLD 310048	Ring & Half clamp kit
SLD 310151	"O" ring replacement for "S and T" pump 2/pkg
SLD 310228	Water valve, seal kit, 4 duckbill valves, tester & manual
SLD 311303	Linkage drive kit, 4300/4400
SLD 311009	Bowl seal, 4800
SLD 311581	Duckbill valve L/B/M pumps
SLD 311822	"M" pump diaphram
SLD 316140	Traveller bowl seal with overflow hole
SLD 316906	Vacuum breaker for "800" series
SLD 318065	Vacuum breaker for "500" series
SLD 310539	Dip tube assembly kit, VGII
VAC 310540	Switch kit VG3
SLD 311318	Tank mounting spindle kit
SLD 311545	Water valve 43/4400 12V
SLD 311579	12V relay
SLD 311580	24V relay
SLD 319053	Pump noise isolation kit
SLD 319054 *	Vacuum breaker w/hand spray
SLD 530002	Vacuum tester

* Special Order

► *Also See* Sanitation Hose pg 10-004 to 005

Sealand Toilet Rebuild Kits

NEW

Rebuild kits contain all expected wear components to extend the life of the applicable toilets.

SLD 4471014044	Full china, Gravity 4300, 4400, 4810, 4811, VacuFlush 4500, 4600, 4700, 4800
SLD 4471014045	Plastic pedal, Gravity 510H, 5010, VacuFlush 100, 5000
SLD 4471014046	Metal lever, Gravity 510PS, 500+, 5011, M65, VacuFlush 500, 700, 5006

VacuFlush Pump Rebuild Kits

NEW

Rebuild kits contain all expected wear components to extend the life of the applicable pumps.

VAC 4471014047	S pump
VAC 4471014048	J-pump



Maximum installation flexibility



SeaLand MasterFlush 7100 Series Orbit Toilets

- Home-like comfort and size in a basic marine head
- Full 360-degree bowl-to-base rotation allows virtually limitless positioning to accommodate small spaces and diverse plumbing layouts
- Large residential-style seat and deep bowl for premium comfort
- *Fresh water flush models have an integrated water valve*
- *Raw water flush models have an integrated water pump*
- Flushes on as little as 1/3-gallon (1.2 l) of fresh water
- Dual-stage impeller/macerator cutting wheel pulverizes waste for optimum discharge flow and most thorough waste tank pump-out
- Draws only 20 amps at 12VDC
- Includes standard dual function add water/flush switch on fresh water models, and pressure activated flush switch on raw water models
- H: 14-3/4" x W: 15" x D: 19"



- "Normal flush"
- Pressure activated: toilet flushes as long as switch is pressed

SLD 9610007270	Fresh water flush, 12V
SLD 712002 **	Fresh water flush, 24V
SLD 9610007274	Raw water flush, 12V

Parts:

SLD 311851	Water Valve Kit, 12V
SLD 311989	Water pump repair kit for 716001
SLD 311990	Water pump impeller replacement for 716001
SLD 311987	Motor mounting plate kit, 7000FW
SLD 311993	12V pump/motor kit 716001
SLD 312033	Kit, base gasket
SLD 312113	Slow-close seat, white

** While Stock Lasts



SeaLand MasterFlush 7200 Series Orbit Toilet

- Compact marine bowl
- Small footprint to fit in tight spaces
- *Fresh water flush model* has an integrated water valve
- Flushes on as little as 1/3-gallon (1.2 l) of fresh water
- Dual-stage impeller/macerator cutting wheel pulverizes waste for optimum discharge flow and most thorough waste tank pump-out
- Draws only 20 amps at 12VDC
- H: 13-1/4" x W: 14-1/2" x D: 18-3/4"



SLD 9610007277	w/Dual function switch

Parts:

SLD 311851	Water Valve Kit, 12V

SeaLand MasterFlush 8100 Series Macerator Toilets



Macerator toilets powered with MasterFlush technology. The contemporary shape features a compact footprint to fit in most any head compartment.

- Powerful macerator flush
- Small footprint - fits in most any head compartment
- Standard and low-profile heights
- Through-the-floor or through-the-wall discharge options
- "Normal" or "Dry Bowl" flush options with included switch
- Low profile H: 13-3/4" x W: 14-3/4" x D: 18-3/8"
- Standard H: 17" x W: 14-3/4" x D: 18-3/8"
- Colour: White

SLD 812020	12V, Low profile
SLD 812021	24V, Low profile
SLD 814020	12V, Standard profile
SLD 814022	24V, Standard profile



Parts:

SLD 311702	DFST switch panel
SLD 880068	Motor assembly, 12V
SLD 880069	Motor assembly, 24V
SLD 880074	Watervalve kit, 12V
SLD 880075	Watervalve kit, 24V

SeaLand Gravity Discharge Toilet

The gravity discharge toilet is designed to install directly above a holding tank.



- Airtight seal between head compartment and the odours of the holding tank
- Low water consumption: .39 l/flush
- Pedal flush
- Elongated enameled wood seat and residential-style deep bowl
- Anti-splash rim keeps water in bowl
- Integral vacuum breaker protects water supply
- White
- Wooden seat
- Note: 311719 adaptor is required when replacing a 4-bolt model

SLD 510001 H: 18-3/4" x D: 20-1/2" x W: 15-1/4"

Parts:

SLD 311719	4-bolt to 2-bolt white adaptor plate
SLD 345889	3" threaded floor flange
SLD 345892	3" socket floor flange

SeaLand M65-5000 Sanitation System



- Complete freshwater system with 6.5 gallon (24.6L) holding tank
- Deep ceramic bowl with elongated solid enameled wood seat and cover
- High-strength ABS tank offers reliable containment, with an easy-clean surface
- Low-flush water consumption; as low as one pint per flush
- Clip tube and vent rotate over 270° to provide easy connection to hoses
- Pedal flush
- Slow close hinges
- Requires dockside discharge fitting
- Connections: 1-1/2" discharge, 5/8" vent, 1/2" NPT water
- H: 19-3/4" x D: 19-3/4" x W: 18-3/4"

SLD 500001 White

SeaLand M65-700 Sanitation System



- Complete freshwater system with 6.5 gallon (24.6L) holding tank
- Ceramic bowl with standard size plastic seat and cover
- High-strength ABS tank
- Low-flush water consumption; as low as one pint per flush
- Clip tube and vent rotate over 270°
- Pedal flush
- 17.25" seat height
- Connections: 1-1/2" discharge, 5/8" vent, 1/2" NPT water
- H: 16-15/16" x D: 19-1/2" x W: 18-7/8"
- Includes bonus of (2) 4 oz bottles of MAX Control Natural holding tank treatment and (1) roll of ultra-soft 2-ply toilet tissue

SLD 070001 * White

* Special Order - may have stock

Camco Toilet Bucket Kit

The Camco toilet bucket is a simple and easy way to use the toilet for boating or camping.



- 5 gallon bucket comes with a seat and lid attachment that snaps securely onto the rim of the bucket
- Smooth bucket interior makes it easy to empty and clean
- Made of durable, UV-resistant polypropylene
- Attached carry handle
- Includes three (3) waste bags

CAM 41549

Accessories:

CAM 41548 Replacement waste bags (10)

Dockedge Passport Portable Toilet



- 2-section portable flush toilet
- Strong durable construction
- Bi-directional piston pump rinse
- Leak and odour proof seal
- Waste level indicator
- 8 litre fresh water capacity
- H: 11-3/4" x W: 13-1/2" x D: 14-1/2"
- 7.6 lbs

DOC F008002

SeaLand SaniPottie Portable Toilets


196506

Completely self-contained they operate on their own 2.6 gallon clean water supply with no hook up to water or power. Easy access top mounted water port provides convenient in-vessel refill.

- High density polyethylene construction, matte finish
- 2.5 or 5.0 gallon freshwater tanks; enough for about 30 to 60 uses
- MSD models can be installed for direct overboard, dockside pump-out, or remote tank discharge

SLD 096202 2.5 gal, Tan, H: 12" x W: 14-1/2" x D: 16-1/2"
SLD 096602 5.0 gal, Tan, H: 15-1/2" x W: 14-1/2" x D: 16-1/2"
SLD 196402 2.5 gal, Parchment MSD direct discharge
SLD 196406 2.5 gal, Grey MSD direct discharge
SLD 196506 5.0 gal, Grey MSD direct discharge

Parts:

SLD 310018 S/S hold down brackets for 2.8 gal
SLD 310239 S/S hold down brackets for 5 gal
SLD 312167 Parchment Parts Kit ♦
SLD 346401 ** Bottom "O" ring
SLD 250022 * Holding tank cap & "O" ring kit


096202

* Special Order
** While Stock Lasts
♦Includes: 310104 Bellow with cable, 310067 Latch 2 pack, 310050 Large cap, 310102 Small cap, 239064 slide valve with handle

SeaLand SaniPottie 970 Series Portable Toilets


097406

- Pressure flushing action provides powerful bowl rinsing
- Push-button operation is as convenient as a household toilet (no pumping after every flush)
- Material is high-impact ABS with a durable shiny surface
- Level indicator continuously shows tank level through last half of the total volume
- Swing-out discharge spout is extra long
- Two automatic lower tank vents greatly reduce possibility of splashing while emptying
- Manual lower tank vent is easier to use because it does not have to be continuously held open
- Self-contained freshwater 2.3 gallon tank
- 2-tone grey
- MSD models can be installed for direct overboard, dockside pump-out, or remote tank discharge

SLD 097406 2.6 gal, H: 12-1/2" x W: 13-1/8" x D: 15-1/4"
SLD 097506 5.0 gal, H: 15-1/4" x W: 13-1/8" x D: 15-1/4"
SLD 197406 2.6 gal, MSD w/fittings for direct discharge
SLD 197506 5.0 gal, MSD w/fittings for direct discharge

Parts:

SLD 311529 Seat & cover
SLD 320005 Hold down bracket

Jabsco Lite Flush Toilets


58500-0012

An electric toilet designed to instantly retro-fit your existing manual toilet. Offers both low power and water consumption with an integral rinse and waste pump system.

- Compact size, rotatable seat
- Virtually silent operation
- Choice of leaving bowl wet or dry after use
- Non-clogging large bore flush pump
- Uses less than 1.0 amp/hour per day
- ISO 8846 MARINE - Ignition Protection
- 24 lbs
- W: 13-1/2" (15-3/4" w/foot pad) x H: 14-3/4" x D: 15-3/4"


58500-1012

Flush Pump - Internally mounted, high speed, non-clogging, centrifugal, waste macerating pump driven by powerful 240 watt, 12 or 24VDC, permanent magnet motor with ball bearings and robust ceramic seal, discharges up to 5ft (1.5m) above the base of the toilet.

Rinse Pump - Self-priming up to 3m (10ft), dry running, diaphragm water pump driven by 12VDC, permanent magnet, ball bearing motor.

Foot Switch - Integral one touch 'Press and Release' switch pad, sealed for life.

Control Panel - One Touch 'Press and Release' switch pad, sealed for life, with 10ft (3m) link cable, fitted quick connector, and heat shrink seal.



- Complies with ISO8846 MARINE CE
- Raw Water Rinse pump inlet - 3/4" (19mm) hose tails Flush pump discharge: 1-1/2" (38mm) hose tail

JAB 58500-0012 w/Foot switch
JAB 58500-1012 w/Control panel

Jabsco Deluxe Flush Electric Toilets



Install the Deluxe Flush electrically operated marine toilets in power and sailing craft, above or below the waterline.

- Regular household size soft close seat
- Virtually silent operation for undisturbed sleep



- User selectable choice of "one touch" flush cycles for minimal water usage - a 'Quick Flush' uses less than 1 quart (1 litre)
- Selectable choice of bowl wet or dry after use
- Non-clogging large bore flush pump macerates waste
- Uses less than 1.0 amp/hour per day
- Includes solenoid valve and syphon breaker assembly for connection to existing pressurized systems
- ISO 8846 MARINE - Ignition Protection
- Crevice free contours for added cleanliness and hygiene
- All plumbing and wiring easily concealed
- Angled or Vertical back vitreous china bowls
- 12V, 25 amp fuse



JAB 58080-3012 14" Vertical back
- H: 14-3/8" x W: 14-3/4" x D: 17-11/16" 55 lbs

JAB 58020-3012 * 17" Angled back
- H: 17-1/2" x W: 14-3/4" x D: 17-11/16", 62 lbs

JAB 58040-3012 17" Vertical back
- H: 17-1/2" x W: 14-3/4" x D: 18-11/16", 64 lbs

* Special Order

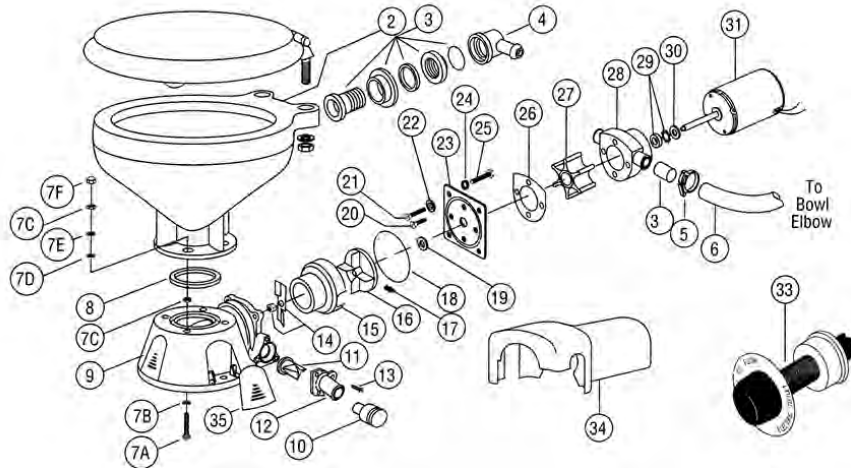
Jabsco Electric Marine Toilets

This electric toilet is equipped with a dual function pump which eliminates hand pumps and dry bowl valves. With the simple push of a button, the self-priming flush pump rinses the bowl as the macerator and high capacity scavenger pump grinds up waste and pumps it out. It can be used with either a holding tank or a flow-through treatment device. The base assembly can be rotated for most convenient plumbing connections. Inlet: 3/4". Outlet: 1".

Part #	Style	Volts	Amp Draw	Fuse	D x W x H
JAB 37010-3092	Compact	12	18	25 amp	17-5/8" x 13-7/8" x 14"
JAB 37010-4092	Regular	12	18	25 amp	18-1/2" x 14-3/4" x 14-5/8"



37010-3092





37041



37040

Key	Description	#	Part #
	Service Kit		**JAB 37040-0000**
	Pump assembly 12V		**JAB 37041-0010**
	Pump assembly 24V		**JAB 37041-0011**
1	Seat, lid, hinge kit: Compact		**JAB 29097-1000**
1	Seat, lid, hinge kit: Regular		**JAB 29127-1000**
2	Bowl, Compact	1	-
3	Household	1	-
4	Spud, Intake Elbow & O-ring	1	**JAB 58107-1000**
7	Bowl Install Hardware	1	**JAB 18753-0637 ***
7A	Phillips Screws ♦♦	4	-
7B	Starlock Washer ♦♦	4	-
7C	Hex Nuts ♦♦	4	-
7D	Washer Plastic ♦♦	4	-
7E	S/S Washers ♦♦	8	-
7F	Nut Cap ♦♦	4	-
8	O-ring Bowl Seal	1	**JAB 44101-1000**
9	Base Assembly ♦♦	1	**JAB 37004-1000**
10	1-1/2" Adapter Discharge Port	1	**MEP 8870**
11	Joker Valve ♦ ♦♦	1	**JAB 44106-1000**
12	1" Discharge Port ♦♦	1	**JAB 44107-1000**
14	Chopper Plate	1	**JAB 37056-2000**

Continued at right

Key	Description	#	Part#
15	Macerator Housing	1	**JAB 37014-0000**
16	Centrifugal Impeller	1	**JAB 37006-0000**
17	Set Screw	1	-
18	O-ring ♦	1	**JAB 43990-0066**
20	Screw	2	-
21	Screw	2	**JAB 91010-0130 ***
23	Wear Plate	1	**JAB 37018-0000**
24	#10 Lock Washer	4	-
25	Screw	4	**JAB 91027-0011**
26	Gasket ♦	1	**JAB 12558-0000**
27	Flexible Impeller ♦	1	**JAB 6303-0003-P**
28	Body	1	**JAB 12554-0000 ***
29	Seal & Retainer ♦	1	**JAB 1040-0000**
30	Slinger	1	**JAB 6342-0000**
31	Motor 12 Volt	1	**JAB 37064-0000**
31	Motor 24 Volt	1	**JAB 37065-0000 ***
33	Switch & Plate	1	**JAB 37020-0000 ***
34	Motor Cover	1	**JAB 43990-0051 ***

* Special Order - may have stock

♦ Parts supplied with Service Kit JAB 37040-0000
♦♦ Parts included with base JAB 37004-1000

► Note *Where 37010 series electric toilets are installed below the water line it is highly recommended that a vented loop be installed on the water supply inlet side.*

► Also See Sanitation Hose pg 10-004 to 005

Jabsco Vented Loop Solenoid Valve

The suction generated by electric toilets will open the valve in vented loops. To ensure maximum electric toilet performance and prime-ability with a vented loop installed, it is recommended that a vented loop solenoid valve is connected to the loops vent air inlet. Fuctions directly from the toilets on-off switch.



JAB 37068-2000 Solenoid

Accessories:

MPS 903001 3/4" vented loop

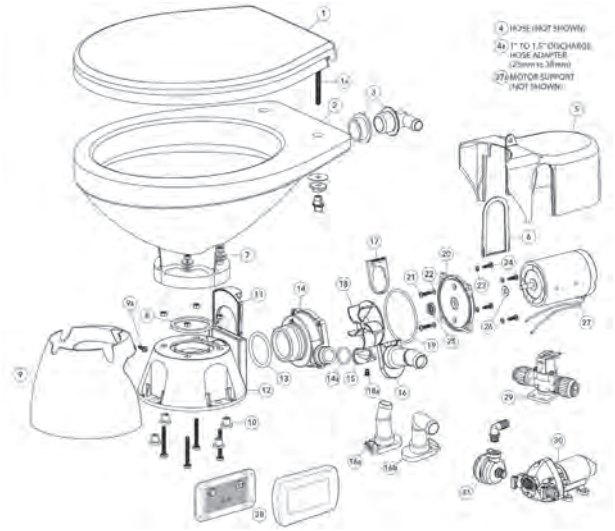
Jabsco Quiet Flush E2 Marine Toilet

The Quiet Flush E2 has been designed to provide a simplified installation and ease of serviceability, with a sleek touch sensor control.

- Rotating base allows installation with discharge to the left, right, or rear
- Discharge pump can be rotated 180° to suit base orientation
- Quick-release system provides easy access to the macerator pump and discharge hose without tools
- Touch panel is designed for wet room installations, and comes with three settings: full flush, empty, and eco flush (uses only 1 quart per flush)
- Straight or 90° discharge port
- Easy to clean shroud
- 12V, 25A



Part #	Bowl	Seat	Flush Option	D x W x H
JAB 38045-3092	Compact	Wood, Standard close	Fresh water w/ Solenoid valve	16.3" x 13.9" x 14"
JAB 38245-3092	Compact	Wood, Standard close	Raw water w/ Rinse pump	16.3" x 13.9" x 14"
JAB 38045-4192	Regular	Composite, Slow close	Fresh water w/ Solenoid valve	18.9" x 14.8" x 14.4"
JAB 38245-4192	Regular	Composite, Slow close	Raw water w/ Rinse pump	18.9" x 14.8" x 14.4"





Sea/Lake/River Flush Freshwater Flush

Key	Description	#	Part #
1	Seat & cover (compact)	1	**JAB 29097-1000**
1	Seat & cover (regular)	1	**58104-2000 ***
1a	Hinge kit, regular	1	**58105-3000 ***
2a	Compact bowl	1	**29096-0001 ***
2b	Regular bowl	1	**29126-0001 ***
3	Intake elbow and seal	1	**JAB 58107-1000**
4	Hose inlet, white 6', 3/4"	1	**JAB 29035-1031 ***
4a	1" - 1.5" hose adapter	1	**MEP 8870**
5	Motor cover	1	**38509-1000 ***
6	Motor slide cover	1	**38010-1000 ***
7a	Toilet base screw M6 x 50LG	4	see kit C
7b	Shakeproof washer	4	see kit C
7c	Hex head nut M6	8	see kit C
7d	Washer - plastic	8	see kit C
7e	Washer - stainless steel	4	see kit C
8	Base O-ring	1	**JAB 44101-1000**
9	Base cover	1	**JAB 38508-1000 ***
9a	Base cover screw	1	**91045-0441 ***
10	Base mounting feet	4	**38510-1000 ***
11	Discharge pump clip	1	**38504-1000 ***
12	Toilet base	1	see kit C
13	O-ring	1	see kit A, B
14	Waste pump housing	1	**38500-1000 ***

Key	Description	#	Part #
14a	O-ring	1	see kit A,B,D, E
15	Joker valve	1	**JAB 44106-1000**
16a	Discharge port - straight	1	see kit D
16b	Discharge port - 90°	1	see kit E
17	Discharge port clip	1	see kit D, E
18	18 & 18a impeller & set screw	1	**38502-1000 ***
19	O-ring	1	see kit A, B
20	Motor adapter	1	**38501-1000 ***
21	Screw 10-32x3/4 PHPN	2	see kit B
22	Washer seal	2	see kit A, B
23	Lock washer	4	see kit B
24	SS screw	4	see kit B
25	Shaft seal	1	see kit A, B
26	Slinger	1	see kit A, B
27	Motor, 12V	1	see kit B
27	Motor, 24V	1	see kit B
27c	Motor support	1	**38511-1000 ***
28	Control panel & control box	1	**JAB 38580-1000 ***
29	Solenoid valve, 12V	1	**JAB 37038-2012**
29	Solenoid valve, 24V	1	**JAB 37038-2024**
30	Rinse pump, 12V	1	**JAB 31331-0092 ***
30	Rinse pump, 24V	1	**31331-0094 ***
31	Rinse pump strainer	1	**JAB 46400-9500**
A	Service kit	-	**JAB 38595-1000 ***
B	Pump assembly kit, 12V Pump assembly kit, 24V	-	**38572-0092 *** **38572-0094 ***
C	Base assembly		**JAB 38503-1000 ***
D	Discharge port kit, straight		**JAB 38505-1000 ***
E	Discharge port kit, 90°		**JAB 38506-1000 ***

* Special Order

Jabsco Manual Marine Toilets

The manual marine toilet features smooth contoured lines. In addition, all black rubber gasket edges on the toilet have been concealed from view. These improvements make it easier to clean than ever. Plastic components are made from polypropylene making them both strong and resistant to most chemicals and cleaning supplies. Pump and base can be assembled for left hand operation.

- Inlet size: 3/4". Outlet size: 1-1/2"



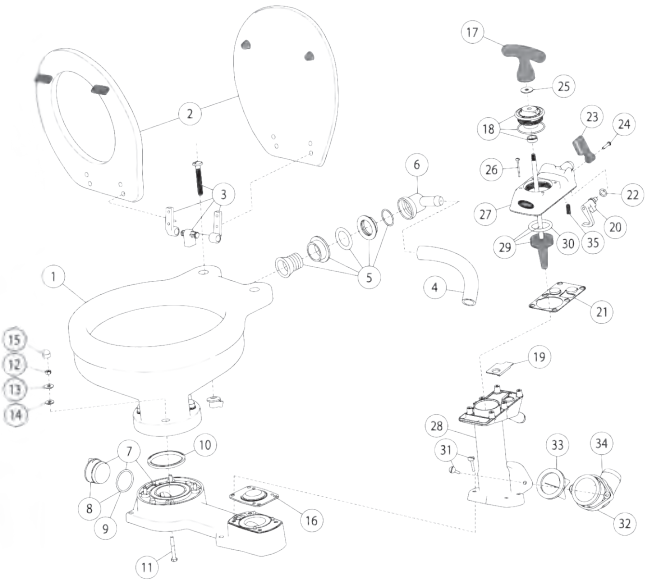
29090-5000

JAB 29090-5000 Compact
- D: 16"-3/4 x W: 17-3/4" x H: 13-1/4"

JAB 29120-5000 Regular
- D: 19-1/4" x W: 18-1/2" x H: 13-3/4"

Jabsco 29090 Service Parts

JAB 29097-1000	Seat, lid, and hinge kit, compact
JAB 29127-1000	Seat, lid, and hinge kit, regular
JAB 58105-1000	Hinge set, regular (post 2018)
JAB 58107-1000	Intake seal & elbow
JAB 29041-1000	Base, plug, and O-ring
JAB 29043-0000	Base valve gasket (incl. in Kit A & B)
JAB 29044-0000	Seal assembly, pre-1997 (incl. in Kits A, B, C)
JAB 29044-2000	Seal assembly, 1998-2007 (incl. in Kits A, B, C)
JAB 29044-3000	Seal assembly, 2008+ (incl. in Kits A, B, C)
JAB 29042-0000	Top valve gasket (incl. in Kits A, B)
JAB 29046-3000	Piston, rod, & O-ring assembly (incl. in Kit B)
JAB 29017-1000	O-ring & piston (incl. in Kit A)
JAB 29091-1000	Discharge flange (incl. in Kits B & D)
JAB 29092-1000	Joker valve (incl. in Kits A, B, & D)
JAB 29029-1000	Discharge elbow (incl. in Kits B & D)



Jabsco 29090 Service Kits

JAB 29045-0000 †	Major service kit, 29090-0000, Pre-1997
JAB 29045-2000 †	Major service kit, 29090-2000, 1998-2007
JAB 29045-3000	Kit A, Major service kit, 29090-3000, 2008+
JAB 29040-3000	Kit B, Pump assembly
JAB 29094-3000	Kit C, Valve cover and handle assembly
JAB 29051-2000	Kit D, Pump cylinder assembly
JAB 29047-0000	Kit E, Bowl installation kit

† **Parts listed above for Major Service Kits are for model 29090-3000 only.**

Jabsco 37045 Quiet Flush Toilet Service Parts

JAB 29097-1000	Seat, lid, hinge kit
JAB 29035-1031 *	Hose, 6'
JAB 37042-1000 *	Motor cover
JAB 18753-0637 *	Bowl installation hardware
JAB 44101-1000	Bowl O-ring seal
JAB 37004-1000	Base assembly
JAB 44106-1000	Joker Valve ♦ ♦♦
JAB 44107-1000	1" discharge port ♦♦
JAB 37056-2000	Chopper plate w/lock nut
JAB 37014-0000	Macerator housing
JAB 37006-0000	Centrifugal Impeller
JAB 43990-0066	O-ring ♦
JAB 1040-0000	Seal ♦
JAB 37043-1000	Seal housing
JAB 91027-0011	Screw
JAB 6342-0000	Slinger
JAB 18753-0554	Motor, 12V
JAB 37047-2000	Switch panel
JAB 90197-0000 *	Service kit
JAB 31631-0092	Rinse pump
JAB 37072-0092	12V motor & waste pump assembly

♦ Parts supplied with Service Kit JAB 90197-0000
♦♦ Parts included with base JAB 37004-1000
* Special Order

Jabsco Quiet-Flush Toilet Conversion Kit

Convert nearly any manual or electric marine toilet to the Jabsco Quiet-Flush System with dual function flush control. The control panel has a simple push-button flush actuator plus a dual action rocker switch that allows the user to vary the bowl water level to suit personal preference. Converts the Raritan PH or Compact; Wilcox Crittenden Head Mate; Groco HC and SeaLand (Mansfield) 750 through 752 Series china bowls. Also fits PAR or Brydon 59128-Series, Jabsco 29090 and 29120-Series and other marine toilets with a 3-3/4" (95mm) bowl/base mounting circle with 4-hole pattern and rear of bowl water inlet. Includes all hardware necessary to fit the china bowl to the conversion base and a white pump cover to dress up the installation.

- 3/4" Inlet, 1" discharge
- L: 13-1/4" x W: 8-3/8" x H: 3-1/4"



37255 Includes a dedicated PAR-MAX-4 water pump that is mounted remotely from the toilet to provide either sea or lake water to rinse the bowl. The PAR-MAX is an in-demand pump and does not create a pressurized system. It comes complete with an intake strainer to protect the pump from debris.

JAB 37255-0092

Jabsco Quiet-Flush Solenoid & Valve



- Inline, normally closed solenoid valve
- Double check valve protects against contamination
- Internal inlet filter
- Mountable in any orientation
- Supplied with 1/2" JG speed fit connections, 1/2" hose barb inlet, 3/4" hose barb outlet

JAB 37038-2012 12V
JAB 37038-2024 24V

Jabsco Electric Conversion Kit

Converts nearly any manual marine toilet to an electric unit. Converts the Raritan PH or Compact; Wilcox Crittenden Head Mate; Groco HC and SeaLand (Mansfield) 750 through 752 Series china bowls. Also fits PAR or Brydon 59128-Series, Jabsco 29090 and 29120-Series and other marine toilets with a 3-3/4" (95mm) bowl/base mounting circle with 4-hole pattern and rear of bowl water inlet. Includes all hardware necessary to fit the china bowl to the conversion base and a white pump cover to dress up the installation. The self-priming flexible flush pump rinses the bowl while the powerful macerator scavenger pump grinds up and pumps out waste. A built-in back flow preventer is included in the discharge. A heavy duty push-button switch and 1" to 1-1/2" hose adapter for the discharge port plus all clamps and fasteners to complete the conversion are included.



- L: 13-1/4" x W: 8-1/4" x H: 3-1/4"

JAB 37010-0092 12V, 18 amps
Parts:
JAB 37040-0000 Service kit, seal & gasket

Jabsco Electric Flush Pump Conversion Kit



Complete for 29090/29120 Series, compact and regular bowl, left or right hand manual toilets and adaptors replace the conversions standard macerator housing to allow attachment to a variety of manufacturers' manual toilets. Simple rotary control knob offers choice of "Flush and Discharge" or "Discharge Only".

- Low power consumption
- 5 GPM (20 LPM) flush rate for rapid flushing
- Two powerful self-priming pumps for above or below waterline installation
- Automatic inlet water check valve
- H: 10-1/2" x W: 4" x D: 7-3/4"

JAB 29200-0120
Parts:
JAB 29101-0000 29200 Service kit, seals & gaskets

Groco EB and HF Toilet Parts

Part #	Description	Qty	EB	HF
GRO HT-52-A	Gasket	1	◘	
GRO H-27 *	Joker Valve	1	◘	†
GRO HT-26-A	Flap/Gasket & Spacer Ring	1	◘	†
GRO HT-84-A	Spring Assembly	1	◘	†
GRO HT-56 *	Check Ball	1	◘	†
GRO HT-3554-A *	Diaphragm Assembly	1		†
GRO HT-3557A *	Plastic Separator	1	◘	†
GRO HT-3557	Inlet Gasket	1	◘	†
GRO HT-3563-A *	Plastic Bearing	3	◘	†
GRO HT-3564 *	Rubber Seal	2	◘	†
GRO HT-6566-1/2"	Pump Shaft & Key	1		
	Washer Set	4		†
GRO EB-MASTER *	Kit includes all marked ◘	1		
GRO HF-MASTER	Kit includes all marked †			

* Special Order - may have stock



Groco K Toilet Parts

Part #	Description	Qty	K Kit
GRO HT-52-A	Gasket	1	◘
GRO HT-26-A	Gasket Assembly	1	◘
GRO HT-84-A	Spring Assembly	1	◘
GRO K-32 *	Piston Assy. w/Crank	1	
GRO HT-56 *	Check Ball	1	◘
GRO HT-3557A *	Gasket	1	◘
GRO HT-3557	Gasket	1	◘
GRO HT-6566K-5/8" *	Pump Shaft & Key	1	
GRO WS-2422 *	Seal	1	◘
GRO HT-3564 *	Seal	1	◘
GRO H-27-A	Joker Valve	1	◘
GRO K-7-A *	Gasket	1	◘
GRO K-3-R *	Piston Rings Only	2	◘
GRO 2-041	O-ring After 05/89	1	◘
GRO K-REGULAR	Kit includes all marked ◘	1	◘

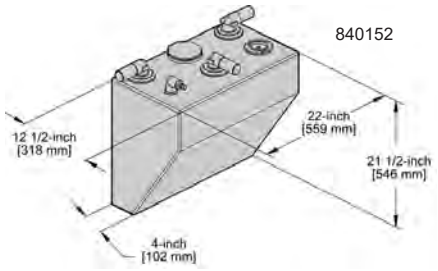
* Special Order

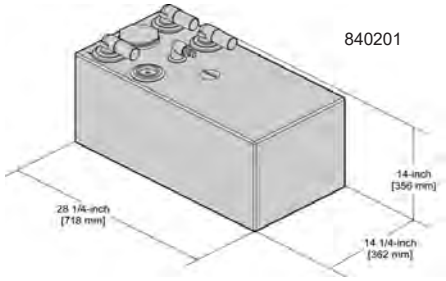


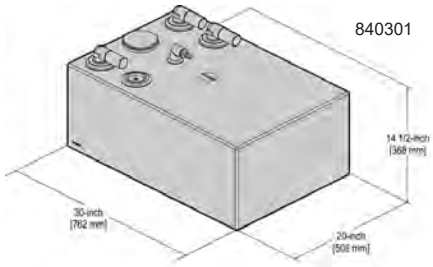
SeaLand Holding Tanks

- Leak-proof Design - Top-mounted hose connections eliminate standing liquid in discharge hose
- Odour-free-100% virgin polyethylene resin with heavy walls prevents odour permeation and resists corrosion
- Implosion Protected - TankSaver vacuum relief valve prevents damage from dockside pumps high levels of vacuum
- ISO/USCG Compliant - SeaLand holding tanks fully comply with the ISO 8099:2000(E) standard

SLD 840152	15 HTS-Vertical	15 gallon
SLD 840201	20 HTS-Horizontal	18 gallon
SLD 840301	30 HTS-HRZ	28 gallon

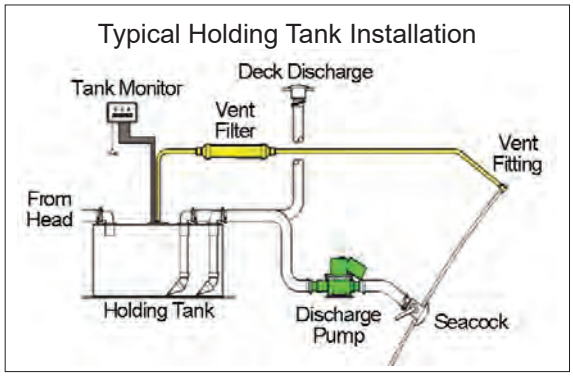


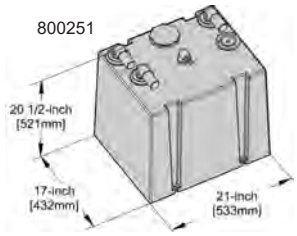


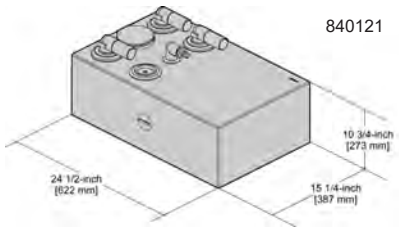


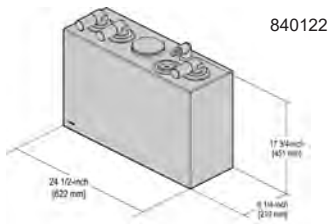
SLD 800251 *	25 HTS-HRZ	25 gallon
SLD 840121	12 HTS-HRZ	11 gallon
SLD 840122 *	12 HTS-VRT	11 gallon
SLD 840151 *	15 HTS-HRZ	15 gallon
SLD 840202	20 HTS-VRT	18 gallon
SLD 840401	40 HTS-HRZ	34 gallon
SLD 840551 *	55 HTS-HRZ	55 gallon

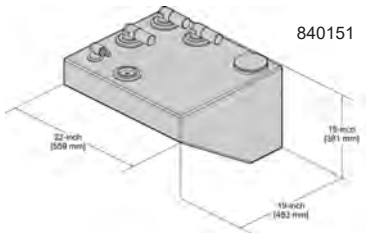
* Special Order

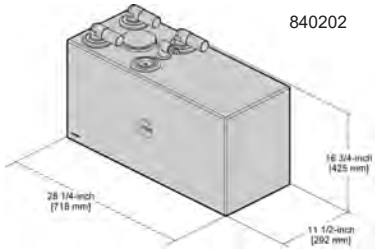


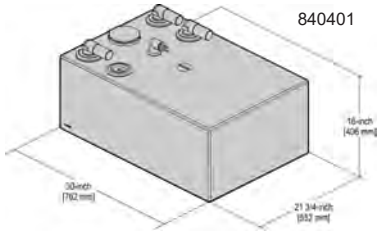


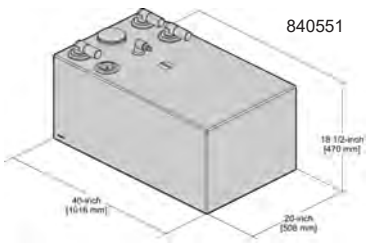












► Note	*Additional sizes are available. Ask for a SeaLand Tank catalogue*



Jabsco
Waste Management System

Rugged Polyethylene Holding Tank

- 10 US gallons (38 litres) capacity
- Evacuation pick-up for included waste pump
- Includes dock-side pump-out pick-up
- Convenient mounting points
- 1-1/2" (38mm) x 90° barbed inlet port
- 1-1/2" (38mm) x NPT outlet port
- 3/4" (19mm) x 90° barbed vent port
- 3" (76mm) clean-out access cover
- L: 18.5" x W: 14" x H: 12" (Including fittings)

Self-priming 12VDC Macerator Evacuation Pump

- 12 GPM flow rate
- Integral run-dry protection device
- 1" (25mm) outlet port



Waste Management Control Panel

- Level indication in 1/8 increments
- Tank Full flashing indication
- One Touch empty button with automatic shut off when tank is empty
- Complete system weight: 24lb (11kg)

JAB 38110-0092

SeaLand
Holding Tank Systems

- Combines a level indicator, relief valve, discharge pump and holding tank
- Designed to simplify installation
- Has integral mounting feet
- Separate dockside and overboard connections
- The TankSaver relief valve protects the holding tank from excessive suction and satisfies pending ISO regulations
- This system exceeds proposed ISO standards because of it's 95% tank contents removal performance
- 3/8" wall thickness

721012





Part #	Gal	Volts	Dimensions L x W x H	Vent Filter
SLD 721012	10	12V	23-3/8" x 19-1/2" x 13-1/4"	no
SLD 012812	28	12V	30" x 19" x 19-1/2"	Yes
SLD 012824	28	24V	30" x 19" x 19-1/2"	Yes
SLD 014012	40	12V	35" x 21" x 20"	Yes
SLD 014024 *	40	24V	35" x 21" x 20"	Yes

* Special Order

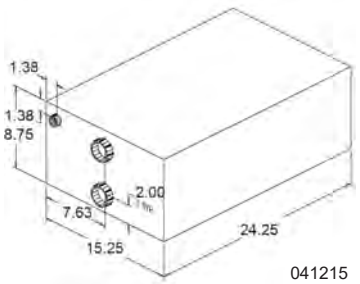
Moeller Waste Tanks

- Polyethylene construction (0.3")
- Threaded ports (1 x 1/2" & 2 x 1-1/2")
- Includes 1 x 1-1/2" MNPT x 1/2" FNPT reducer
- Tanks meet the material and pressure specifications for sanitation tanks as called out in federal regulations
- Tanks will not emit waste odours

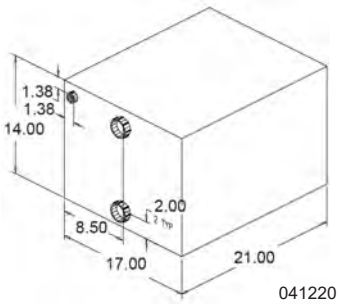
MOE 041215	12 gallon
MOE 041220	20 gallon
MOE 041225	25 gallon
MOE 041230	30 gallon
MOE 041239	39 gallon
MOE 041245	45 gallon



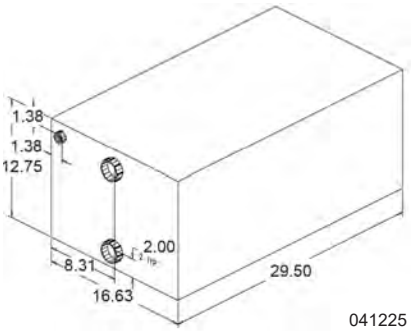
041215



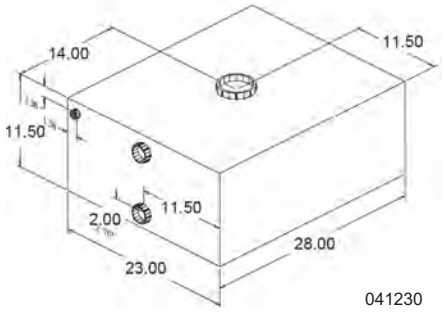
041215



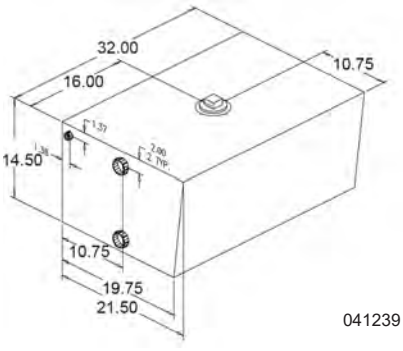
041220



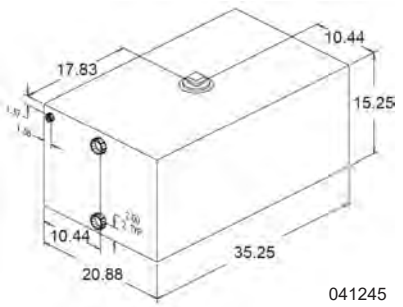
041225



041230



041239



041245

Whale Grey Water Tank



- Multi-port polypropylene grey waste tank
- Integrated sensor for automatic pump control
- Unique 'triple seal' lid isolates electronics from the harsh grey waste environment for advanced durability
- Reliably handles typical shower & galley sink waste up to 195°F even in complex multiple outlet systems
- Solid state switches - no moving parts prone to blockages
- Glass filled polypropylene sensor housing
- 2.1 gallon capacity
- Inlet connections: 3/4" x 2, 1" x 3, 1-1/2" x 3
- Outlet connections: 3/4" x 1, 1" x 1
- 13.8" x 10.3" x 7.1"

WHA GT0810B

Moeller Waste/Water Tank Adapter Kit



1 x 1-1/2" MNPT x 1/2" FNPT reducer
2 x 1-1/2" NPT x 1-1/2" 90 degree barb
2 x 1/2" NPT x 1/2" 90 degree barb
1 x roll thread sealing tape

MOE 041390

Moeller Waste/Water Tank Adapter Kit



1 x 1-1/2" MNPT x 1/2" FNPT reducer
2 x 1-1/2" NPT x 1-1/2" barb
2 x 1/2" NPT x 1/2" barb
1 x roll thread sealing tape

MOE 041311

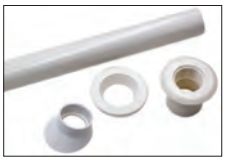
SeaLand Inlet Elbow With Uni-Seal



- Inlet elbow with uniseal
- Can also be used as a discharge dip tube by gluing 1-1/2" PVC pipe into the bottom
- Requires a 3" hole

SLD 311608

SeaLand Holding Tank Dip Tube Kit



- Reduces chances of hose failure
- Allows waste to be removed from the top of the tank
- Eliminates stagnant sewage from sitting in discharge lines
- Fits tanks up to 30" deep with a 3" hole required
- Includes Uni-seal & threaded deck filling

SLD 310660

SeaLand Universal Clean-Out Kit



- Installs easily on any rigid tank material
- Includes 3-in. (76 mm) inspection port and cap, O-ring, gasket and stainless steel hardware
- 4" cutout

SLD 238685

► Also See Water Tanks pg 11-025

SeaLand Uni-Seals



- For the installation of a PVC pump out or inlet pipe into the top of a holding tank

Part #	Pipe Size	Cut Out
SLD 311110	2"	3"
SLD 311111	1-1/2"	2-1/2"
SLD 311164	1/2"	1-1/8"

SeaLand Tank Saver Relief Valve



- Protects holding tanks from excessive dockside pump suction
- Provides excellent odour seal
- Reduces pump out time
- Meets ISO standards for 1-1/2" venting
- Requires 3" opening to install

SLD 255247

SeaLand Noz-All Pump Out Adapters



- Made of heavy duty nylon
- Provides airtight seal between deck fitting & dockside pump
- Allows pump to prime without waste
- Works with both rubber nozzles and cam operated type suction hose fitting

To determine which Noz All adapter will fit your deck fitting:
1 Measure the outside diameter of the cap threads.
2 Count the number of threads per 1/4" of thread length.

Part #	Size	Thread Pitch	Deck Fitting
SLD 343502	1-1/2"	11.5 TPI	1-7/8"
SLD 343503	1-1/4"	11.5 TPI	1-5/8"
SLD 343504	1-1/4"	16.0 TPI	1-5/8"

Edson Quick Clamp Pump Out Nozzle



- Attaches to the suction end of the pump out hose using a quick clamp adapter (QC)
- Tapered rubber shape insures an airtight connection
- Splash guard ensures a clean and dry pump out
- Will fit waste deck fittings from 1-1/4" to 2-1/4"
- For 1-1/2" quick clamp (camlock) adapter

EDS 272QC-150-SG

SeaLand T-Series Discharge Pumps



- Self-priming to 10 feet
- Handles solids to 1/2" dia. and can be run dry
- Included are 1-1/2" to 1" adapters to permit direct replacement of other macerator pumps
- H: 7-3/4" x W: 13-3/4" x D: 6-3/4"
- Weight: 10 lbs

Part #	VDC	GPH	Amps	Fuse
SLD 301200	12	300	6	10
SLD 302400	24	300	3	5

Parts:
SLD 310902 Service kit (O-ring & bushing)
SLD 310076 Duck bill valves (2)
Accessories:
SLD 231505 * S/S bulkhead mounting bracket
SLD 640335 T-Pump 1-1/2" LH thread to 1-1/2" pipe adaptor
* Special Order

Whale Gulper Waste Pump Mk2

All Gulpers incorporate a series of valves through which the waste passes. No filters to clog, and no risk of motor burn out. The Gulper Toilet Pump is designed to manage unmacerated toilet waste, and is ideal for holding tanks.

- Less current draw, quieter, and more durable than previously
- Gear set upgraded to include Delrin gear wheel
- Reduced current draw also reduces fuse requirement (8A 12V, 4A 24V)
- Runs dry without damage
- Up to 18 litres per minute
- Virtually unblockable
- Rotatable inlet and outlet- allows you to install in awkward locations
- Self priming up to 3 m (9.8 ft), mount the pump in the most convenient part of boat
- Pumps a mixture of air and waste
- Easy to maintain
- Large single diaphragm
- Hose connectors: 1-1/2"
- Weight: 4.8 lb



WHA BP2652B 12V
WHA BP2654B * 24V
Parts:
WHA AK1557 Service kit
WHA AS1562 Clamp ring kit
* Special Order

Whale Miscellaneous Pump Parts

WHA AK0618 Galley pump repair kit (MK5/6)
WHA AK9011 Service kit, Urchin NIT
WHA AK3051 Service kit, Gusher 30
WHA AK3528 Service kit, Gusher 25
WHA SK8813 Service kit, Gusher 8

Jabsco Waste Pump



- Flexible installation
- Self-priming to 3m (10ft)
- Extensive dry running capability
- Connections for 38mm (1-1/2") ports
- Up to 19 lpm (5 gpm US) flow
- ISO 8846 MARINE and USCG Regulations for Ignition Protection
- Length: 10" x H: 4-1/2" x D: 5"

JAB 50890-1000 12 volt, 8 amp

SeaLand DTD Tank Discharge Control - DTD 01



Where overboard discharge of a waste holding tank is permitted. A key-operated switch allows the user to activate the discharge pump, or set the DTD panel for semi-automatic operation.

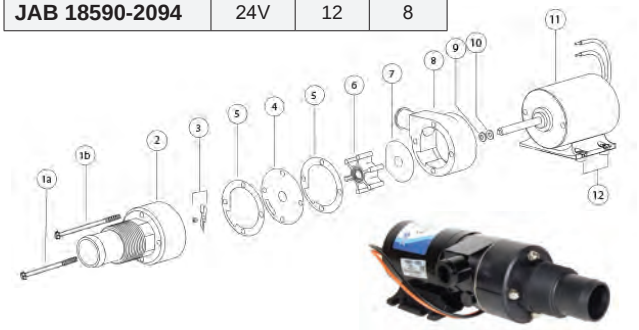
- Manually activates pump to discharge holding tank contents directly overboard in unrestricted waters
- Green light indicates when discharge pump is running; reminds operator to shut off pump to prevent burn-out
- Keyed switch provides U.S. Coast Guard-approved security when key is removed; no padlocks or other mechanical fasteners are required
- When integrated with DTM04 tank monitor system, discharge pump automatically shuts off when tank is empty

SLD 814101

Jabsco DC Macerator Pumps

- NEW stainless steel cutter reduces particle size to 1/8"(3mm) maximum
- New 4 blade design
- Fully sealed motor and a 4 bladed chopper
- Electronics prevent pump from running dry
- Self-priming to 4' vertical lift
- Discharge port: 1" ID hose
- Intake Port: 1-1/2" NPT / 1-1/2" hose barb (can be screwed directly into holding tank)
- Empties a 30 gallon holding tank in less than 3 minutes
- L: 11-9/16" x W: 4-3/4" x H: 3-5/8"
- Weight: 5 lbs
- Complies with USCG 183.410 and ISO 8846 MARINE

Part #	VDC	GPM	Amps
JAB 18590-2092	12V	12	15
JAB 18590-2094	24V	12	8



Part #	Description	Qty	Key
JAB 17288-0010	Bolt, short (see bolt kit)	2	1a
JAB 17288-0000	Bolt, long (see bolt kit)	2	1b
JAB 18594-1000 *	Macerator housing	1	2
JAB 37056-2000	Cutter plate	1	3
JAB 18597-1000	Wear plate, large	1	4
JAB 18596-1000	Gaskets (see service kit)	2	5
JAB 6303-0003-P	Impeller (see service kit)	1	6
JAB 12316-1002 *	Wearplate, small	1	7
JAB 18593-1000 *	Body (see service kit)	1	8
JAB 1040-0000	Seal (see service kit)	1	9
JAB 6342-0000	Slinger	1	10
-	Motor, 12V	1	11
JAB 18598-1000	Service kit (includes 5, 6, 8, & 9)	1	
JAB 17288-1000 *	Bolt kit (includes 1a & 1b)	1	
* Special Order			

SeaLand Tankwatch



- No more overfilling your holding tank
- Micro float switch activates a red warning light when tank is full
- No electrical components come in contact with waste - no messy probes to clean
- Operates on 12V
- Includes micro float switch, panel and gasket
- Panel: 2" x 3-1/4"

SLD 002311 Complete kit
Parts:
SLD 230278 Float switch only

SeaLand Tank Monitors



DTM systems feature a four-level LED indicator for waste, water or grey water tanks as well as a compact design

- Highly reliable micro-float switches
- Easy-to-read panel
- Complete packages include 22" tank probe cap(s), micro-float switches, lighted indicator panel
- 12 or 24VDC operation



SLD 604001	Single tank, DTM04, with vent
SLD 604002	Single tank, DTM04, no vent
SLD 614002	Single tank, DTM04F, no vent FW
SLD 608002	Two tank, DTM08, no vent
Parts:	
SLD 000350 *	22" probe cap, with vent
SLD 000355	22" probe cap, no vent
SLD 230268	Float / stem kit
SLD 230930	22" probe
SLD 310684	45" probe kit
SLD 604401	DTM04 tank monitor panel only, black
Accessories:	
SLD 230272	3" universal mounting kit

* Special Order

Gobius C Tank Sensors

- Plug and play installation, no disassembly of the tank is needed
- Measures from the top, outside of the tank
- Stepless measurement with 2-3 mm accuracy
- Suitable for all types of liquids, including gas and diesel, and various tank styles and materials (fibreglass tanks with greater than 10mm wall thickness or metal tanks require adapter, not included)
- Built-in temperature sensor, accelerometer, micro radar sensor, tank calculator, and wave motion reduction
- Max tank depth is 2 m high (minimum measurement distance 5 cm from sensor to fluid surface)
- Free Gobius app will allow Bluetooth monitoring via your smartphone, and also provides BT communication with Victron Cerbo GX and Ekrano GX
- Free tank calculator via the app takes into account the geometry of the tank to be able to specify the exact level in the tank (percentage and volume)
- Power consumption 25 mA
- Includes sensor, cable, and 3M cleaning wipe and an extra sensor tape
- IP66
- 12/24V



- Connects to regular analog instruments
- Two individual on/off alarm outputs for signal when tank is empty and full

GOB 970530 Basic



- Connects to external systems or analog instruments
- 4-20 mA current loop and 0-5V integration
- Two individual on/off alarm outputs for signal when tank is empty and full

GOB 970526 Analog



- Connects directly to NMEA 2000 network
- LED sensor displays active/measuring status

GOB 970534 N2K

Gobius Pro Tank Monitor



- Tank monitor system with 3 sensors provides 4 levels
- Free app for iPhone and Android allows you to make settings and see results on your smart phone
- Can be used for all liquids and tank materials (steel, stainless, aluminum, polyethylene, and fibreglass)
- Choose water, fuel, waste, or other fluids
- Max 9 sensors per tank
- Recommend a minimum current of 500 mA
- 12/24V

GOB 970480-3

Gobius 4 Monitoring System



Complete tank monitor system for grey, black, and waste tanks.

- Works with steel, stainless, aluminum, polyethylene, and fibreglass tanks
- 4 colour LEDs show 4 levels: Empty, 1/4, 1/2, and 3/4-full
- 3 sensors mount with 3M adhesive tape to outside of tank, no drilling or disassembly required
- Includes: 1 LED display panel, 1 control unit, 3 sensors, one each DC and panel cable, 3M surface cleaner, one extra sensor 3M VHB tape, one Velcro band, and instructions
- Recommended minimum current of 500 mA
- 12V

GOB 970442

Gobius Hub Connect



Connect up to 5 sensors to the hub and display level on an analog gauge that can read 10-180 ohm or 240-33 ohm. Hub can also give signals to the Gobius NMEA 2000 converter and to other BUS systems.

GOB 970435

Gobius NMEA 2000 Converter



- Converts tank data from Gobius, Gobius Pro, and Gobius C to NMEA 2000 networks
- Can connect up to 4 channels (tanks)
- Input signals: 0-190 ohm, 243-33 ohm, or self-defined (0-999 ohm)
- Power consumption: <50 mA
- Male micro-C pinout connector
- 1 m cable length
- IP67
- 12V
- 3.54" x 1.57" x .98"

GOB 970242

Gobius Accessories

GOB 79060	SAE adapter
GOB 970607	Tanksensor, 1m cable
GOB 970607-5	Tanksensor, 5m cable
GOB 970607-10	Tanksensor, 10m cable
GOB 970613	Panel cable, 5m
GOB 970608-E	Panel cable, 10m
GOB 970630	Upgrade control panel for Gobius 1&4 waste tanks to ver 5.0

BEP TSI Ultrasonic Tank Sender



- Can be used on fuel, fresh water, grey water or black water tanks
- Programmable for the following outputs, 240-33ohm, 10-180ohm and 0-5V
- Low profile and standard SAE 5 hole mounting pattern, allow it to be retro fitted to most other sender brands
- Programmable for tank dimensions via a computer utilizing BEP Marines proprietary TSI software, avoiding experimental tank filling on site
- The TSI is configured to a 0-5V output and will connect straight into the BEP 600-TLMN digital tank monitor
- When configured to a 240-33ohm or 10-180ohm output the TSI can be connected to Teleflex, Faria, VDO and many other popular instrument brands. When connected to nonadjustable gauges the TS1 must be pre-calibrated
- Standard off the shelf TS1 sender is set for 0-2M depth, for most fluids, apart from petrol, output 0-5V

BEP TS-1 Sensor

Accessories:

BEP TS1-PK Programming kit

TS1-PK For applications other than the standard settings, re-programming is necessary. Programming is a simple process and can be carried out by purchasing a programming kit, part no. TS1-PK and following the detailed instructions supplied. If you are not confident -in carrying out your own programming, your supplier offers this service at an additional charge.

SeaLand Indicator Kit



- Adjustable Level Indicator Kit with 24" probe

SLD 311254

SeaLand ECO Holding Tank Vent Filter Kit



- Improved malodorous gas filtration
- Uses 55% less plastic than previous vent filter cartridge
- Earth-friendly, recyclable plastic components
- Fits in the same space and brackets as previous filters
- Includes fittings for 5/8", 3/4", 1", and 1-1/2" hose ID
- One replacement cartridge fits all SeaLand ECO filter sizes

SLD 311004

Camco Marine Holding Tank Vent Filter Kit



- Features granular activated carbon for maximum odour control
- Filter will last an entire boating season or more, depending on usage
- Installs easily to the boat's vent hose
- Includes filter, mounting bracket, and 3/4" and 5/8" barbed hose connections
- Mounting bracket: L: 12-1/8" x Dia: 2-3/4"

CAM 50190

Aqua-Tek Seal Guard Sub-Aqua

NEW



- Environmentally friendly 3-in-1 lubricant and treatment for all submerged seals and surfaces in RV and marine sanitation systems
- Water-based formula evenly coats, seals, and lubricates
- Safe on rubber, plastic, and metal surfaces
- Septic-friendly, and not affected by chemical or biological tank treatments, antifreeze, or salt water

AQU 51090 625 ml

SeaLand "MAX Control" Natural Holding Tank Deodorant



- Enzyme/bacteria formula starts working fast, and is environmentally safe
- Beneficial bacteria will continue to work and benefit downstream systems
- No formaldehyde or bronopol
- 4 oz (or one pod) treats 40 gallons

SLD 9620000729 4 oz liquid x 6 bottle/pkg
SLD 9620000728 946 ml liquid, bottle
SLD 9620000722 1 gal liquid, bottle
SLD 9620000730 Dry pods, 12/pkg

Aqua-Tek Stink-Tek



- Eliminates holding tank odours quickly, while liquefying solid waste and reducing sludge formation
- Gently cleans holding tanks and sensors, lubricates tank seals, and reduces lingering odours
- Does not harm beneficial bacteria and micro-organisms for digestion when holding tank is emptied into a septic system
- Will not stain

AQU 53300 120 ml

Aqua-Tek Super ENZO Sewage Treatment



- A mixture of multi bacterial strains allowing the decomposition of organic materials
- Optional micro-organisms ensure performance in a rich or low oxygen environment
- Free enzymes ensure faster digestion
- A minimum shelf life of 24 months
- Non-toxic and biodegradable
- Non-pathogenic
- Pleasant apple scent
- More than 33 applications with only one 1L bottle

AQU 53019 625 ml
AQU 53022 2L

Aqua-Tek Sludge Hammer



- Unique blend of bacteria, enzymes, and surfactants immediately starts breaking down and digesting common causes of build up in grey and black water tanks
- Cleans sensors
- Safe for all septic system types, and will not harm sensors, tank walls, plumbing, and tank seals
- Not affected by hard water

AQU 53023 650 ml

Ecomar Liquid Head-O-Matic



- Contains no formaldehyde
- One ounce treats one gallon of waste
- Contains lubricant to protect shafts and seals

ECO 4020 900 ml

Ecomar Holding Tank Shock Treat



- Instant treatment
- Add to clean the holding tank at beginning and end of season
- Also for use mid season if unpleasant odours are present
- Pour one bottle into the toilet and flush

ECO 4025 900 ml

Zaal NOFLEX Sewage Treatment

Best Seller



- Reacts with anaerobic sludge to neutralize odours, liquefying solids and facilitating easy pump-outs; the spent residue from the reaction is sodium carbonate (baking soda)
- Contains no perfumes, solvents, biocides, formaldehyde or bacterial additives
- Environmentally safe
- Holding tanks: 1/4 oz per person per every 2 days flushed or added into system
- Available 12/case - includes counter display

ZAA FI-ZAA-005 475 gr (16.8 oz)

Zaal Toilet Bowl Cleaner



- Septic friendly, non-foaming formula
- Lubricates working toilet parts
- Removes rust, scale, and stains

ZAA FI-ZAA-070 709 ml (24 oz)

Camco Biodegradable Toilet Tissue



- Designed and approved for use in marine sanitation systems
- Toilet tissue is flushable, clog-resistant, fast dissolving
- Biodegradable and septic tank safe
- Does not contain dyes or perfumes
- Four rolls per package

CAM 40276 Single ply, 280 sheet
CAM 40274 2-Ply, 500 sheet

SSI Covered Toilet Paper Holder



- A fitted lid keeps toilet paper dry
- Molded to hold roll securely
- Flat back is pre-drilled for mounting
- White ABS plastic

SSI 31000000 White

Ambassador Stainless Steel Sinks



S24-1408-UM-R
S24-6400-UM-R



S64-6530-UM-R



S44-1711-BR-R
S44-1831-UM-R



S54-1823-UM-R

Made from the highest grade 304 stainless steel available, these sinks have a surface quality that is unmatched in the industry. An exclusive SoundKOTE Noise Reduction Technology reduces the unpleasant clanging sound so often associated with stainless steel sinks. All models can be over- or under-counter mounted. Drain kit sold separately.

Part #	Style	Drain	Dimensions	Finish
AMB S24-1408-UM-R	Round	1-1/2"	Cutout: 8" - Diameter: 9-1/2" x Depth: 4-3/4"	Mirror
AMB S24-6400-UM-R	Round	1-1/2"	Cutout: 10-1/4" - Diameter: 11-1/2" x Depth: 4-7/8"	Mirror
AMB S64-6530-UM-R	Oval	1-1/2"	Cutout: 11-1/4" x 8-1/2" - L:13-1/4" x 10-1/2" x Depth: 5-1/4"	Mirror
AMB S44-1711-BR-R	Rectangular, Single	2"	Cutout: 11-3/4" x 9" - L: 13-1/4" x W: 10-1/2" x Depth: 7-1/8"	Brushed
AMB S44-1831-UM-R	Rectangular, Single	2"	Cutout: 12-1/2" x 11-3/4" - L: 14" x W: 13-1/4" x Depth:8-1/8"	Mirror
AMB S54-1823-UM-R	Rectangular, Double	2"	Cutout: 21-3/4" x 11-3/4" - L: 23-1/4" x W: 13-1/4" x Depth:8-1/8"	Mirror

Ambassador 1-1/2" Drain Kits



- Plastic construction, stainless steel flange
- Rubber stopper w/stainless chain
- Low profile, fits standard 1-1/2" sink drain hole

AMB S01-0101-UP-R 95° elbow drain kit, 1" barb
AMB S01-0104-UP-R Straight drain kit, 1-1/4" thread

Ambassador 2" Drain Kits



- Plastic construction, stainless steel flange
- Ulta-Mirror finish stopper w/stainless chain
- Low profile

AMB S00-0101-UP-R 95° elbow drain kit, 1" barb
AMB S00-0104-UP-R Straight drain kit, 1-1/4" thread



S00-0044-SS S00-0110-UP-R S01-0110-PS-R S00-1010-SS-R

Ambassador Sink Accessories

AMB S00-0044-SS-R Under-mount sink mounting bracket
AMB S00-0110-UP-R Ultra mirror chain stopper, 2"
AMB S01-0110-PS-R Rubber/stainless chain stopper, 1-1/2"
AMB S00-1010-SS-R S/S lift-out strainer basket, 2" drains

Ambassador Trap Drain Body



- 1-1/4" female thread to 1-1/4" male thread
- Body height: 4-5/8" x diameter: 2"
- Easy trap access
- Plastic construction

AMB S00-0016-PL-R

Ambassador Trap Sink Drain



- Plastic construction with stainless steel flange
- Ultra-mirror finish chain stopper
- Fits 2" (2 1/16") drain hole
- Easy trap access
- No overflow intake
- Connection: 3/4" & 1" hose barb
- H: 5-3/4" x Dia: 2-3/4"

AMB S00-0108-UP-R

Ambassador Hose Barbs



- Plastic construction
- Overall length: 3"

AMB S00-0020-PL-R 1-1/4" thread to 3/4 & 1" hose
AMB S00-0021-PL-R 1-1/4" thread to 1-1/4" & 1-1/2" hose

Ambassador 90° Elbow Hose Barb



- Plastic construction

AMB S00-0022-PL-R 1-1/4" thread to 3/4 & 1" hose

Marine East Drains



- 100° angled elbow lessens likelihood of clogging
- Flush head fits most standard showers
- Fits marine sanitation hose
- Flush head allows complete drainage
- White cap

MEP 3999 3/4" drain w/hose barb
MEP 4060 1" drain w/hose barb
MEP 4140 1-1/2" drain w/hose barb

ITC Pivot Flip Drain Assembly



- Eliminates the need for a pop up drain assembly
- 2.375" flange fits sink holes 1.5" to 2"
- Solid brass
- Drain pipe option for 3/4" or 1" plumbing
- 2.362" overall depth for restricted space
- No overflow hole
- Three seal rings & a solid brass retaining nut for watertight, secure installation
- Comes complete with straight (metal) and 90° (plastic) tubes

ITC 98120-CH

Marelon Sink Fittings

Marelon sink drains are designed for 1" and 3/4" ID hoses and are available in straight and 90° configurations. Model SW-3, SW-4 and SW-6 components are bright chrome plated, non-corrosive plastic.

Part #	Model Part #	Tail	Flange	Cut-Out
MPS 907000	SW-1	Straight 1" hose	1-3/4"	1-5/16"
MPS 907014	SW-2	90° 1" hose	1-3/4"	1-5/16"
MPS 907015	SW-3	Straight 1-1/2" screw	2-7/8"	2"
MPS 907017	SW-4	90° 1" hose	2-7/8"	2"
MPS 907013	SW-5	Straight 3/4" hose	1-3/4"	1-5/16"
MPS 907022	SW-6	Straight 1" hose	2-7/8"	2"
MPS 907027	SW-7	Straight 3/4" hose	2-7/8"	2"
MPS 907028	D-1	Straight 1" screw	N/A	N/A

Parts:
MPS 907016 Spare stopper, fits SW-3, 4, 6 & 7



907000



907015



907013
907028



907014



907022
907027



907017



907016

► *Also See* Hose pg 10-005 to 006

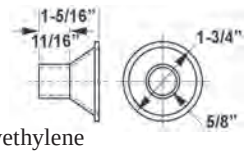
Sea-Dog Sink Drains



- Zinc/stainless/nylon construction
- Includes strainer
- 2" diameter

SED 517526-1 5/8" hose barb
SED 517525-1 Straight 2"

Sea-Dog Sink Funnel Drain





- Injection molded polyethylene

SED 517336

Sea-Dog Sink Drains



- Injection molded delrin
- 1-7/8" flange
- 1" cutout
- Fits 1" hose

SED 517310 Straight barb
SED 517315 90° barb
SED 517390 Sink stopper w/chain

Camco Mini Dish Rack

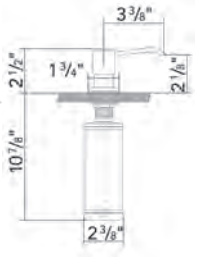


- Fits smaller sinks, and is sized just right for limited counter space
- Sloped drainer tray keeps counters dry
- Drain tray snaps on top of rack for handy storage
- 9.25" x 11.5"

CAM 43511 White

Ambassador Built-In Soap Dispenser





- Polished chrome
- Heavy duty for thicker soaps and lotions
- Fits decks up to 2" thick
- All brass nozzle
- Lift-out nozzle and pump allows for easy refilling from the top side of your sink

AMB 130-0011-CP

Ambassador Deck Tap



- Trinidad series
- Polished chrome
- Ceramic disc valve
- Connections: 1/2" NPS-M
- H: 2-7/8" x D: 4-1/2"

AMB 133-0211-CP

Ambassador Folding Faucet



- Trinidad series
- Polished chrome w/compression valve
- Spout rotates 180° front/back
- Connections: 1/2" NPS-M
- H: 7-1/4" x W: 3-3/4"

AMB 133-0208-CP

Ambassador Elite Folding Single Faucet



- Trinidad series
- Polished chrome w/ceramic disc valve
- Spout with 180° front/back rotation and side/side swivel
- Connections: 1/2" NPS-M
- H: 7-5/8" x W: 4-1/4"

AMB 133-0209-CP

Ambassador Elite Folding Faucet



- Trinidad series
- Polished chrome w/ceramic disc valves
- Spout with 180° front/back rotation and side/side swivel
- Connections: 1/2" NPS-M
- H: 7-5/8" x W: 7-1/4"

AMB 133-0210-CP

Ambassador Galley Mixer w/Sprayer

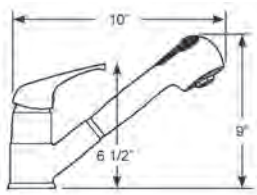


- Pacifica series
- Chrome
- Spray and aerated stream settings with lock-on spray mode
- Swivel spout with a 4' (1.2 m) stainless steel pull-out hose
- Ceramic disc valve
- Connections: 1/2" NPS-M
- H: 7-3/4" x D: 9-1/2"

AMB 132-0003-CP

Scandvik Swivel Galley Mixer w/Sprayer

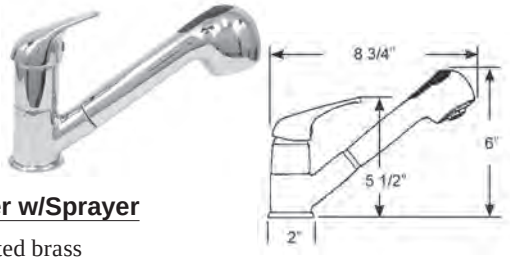




- Single lever swivel spout galley mixer with pull-out sprayer
- Push-button spray pattern adjustment located on spray handle
- 5' chrome-flex hose
- Flexible supply lines with 1/2" NPS-F fittings
- Chrome plated brass body; chrome ABS plastic handle
- Mounting Hole: 1-1/2"

SCA 10871
Parts:
SCA 14023 Replacement sprayer handle only





Scandvik Galley Mixer w/Sprayer

- Chrome plated brass
- Flexible supply lines with 1/2" NPS-F fittings
- Basin mixer with a pull out sprayer
- Push button spray pattern adjustment (faucet flow or shower spray) located on sprayer handle

SCA 10880

Parts:

SCA 14023 Replacement sprayer handle only

Scandvik J-Spout Faucet



- Swivel spout with single lever control
- Chrome plated brass
- 1-1/2" mounting hole
- Faucet overall height: 12"
- Faucet depth: 7.5"
- Flexible supply lines have 1/2" NPS-F fittings

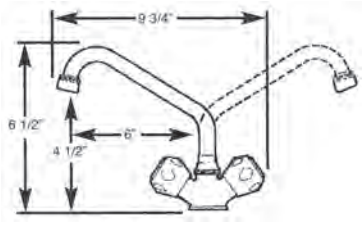
SCA 70104

Sea-Dog Swivelling Telescopic Faucet



- Ideal for use with foot pumps
- Outlet swivels through 360° and can be pushed down when not in use
- 5" extension
- Constructed of aluminum and plastic
- Telescopic height: 1-5/8" - 4-9/16"
- Faucet depth: 5"
- Hose size: 3/8" - 1/2"

SED 517080



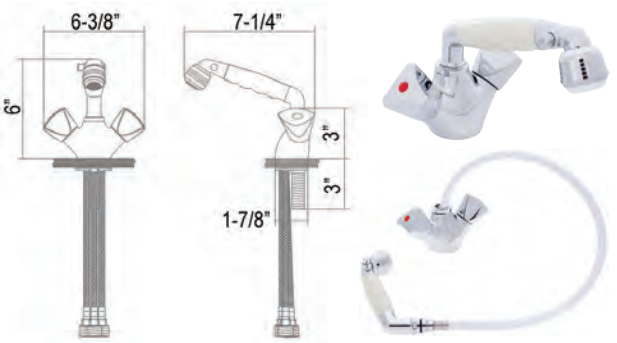


Scandvik One Hole Galley Mixer

Heavy chrome plated brass one hole sink mixer with swivel tube spout.

- 1/2" MPT fittings

SCA 10422



Ambassador Trinidad Head/Shower Combo Faucet

- Trinidad series
- Cast brass body with chrome and warm white finish
- Ceramic disc valve
- 6' white rubber hose and flexible stainless steel braided supply line hoses
- Connections: 1/2" NPS-M

AMB 135-0204-CW Complete

Note: Stand-By" mode will allow a small amount of water to continue to trickle out of the sprayer.

Accessories:

AMB 131-0212-CP Bulkhead sprayer holder



Ambassador Stasis Single Lever Shower Mixer



Stasis series

- All brass valve body with metal handle and polished chrome finish
- Ceramic disc valve
- Flexible stainless steel braided hoses
- Connections: 1/2" NPS-M
- 4" diameter flange

AMB 134-0132-CP-R

Ambassador Shut-Off Valve

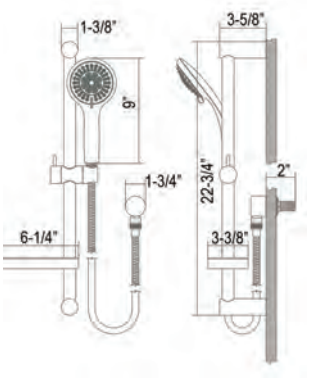


- All brass with chrome finish
- 1/2" NPS-male & 1/2" NPS-female

AMB 131-0013-CP

Note: Not a complete shut-off. "Stand-By" mode will allow a small amount of water to continue to trickle out of the sprayer.





Ambassador Chrome Shower & Slide Bar

Polished chrome with 6 function hand-held sprayer, 90° solid brass elbow, 6' stainless steel hose, 1" diameter metal slide bar and posts, extra deep plastic soap tray, and stainless steel mounting hardware.

- Connections: 1/2" NPS-M

AMB 135-0000-CP

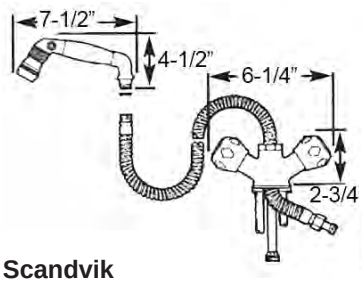
► *Also See* Hose pg 10-005 to 006

Camco Shower Head Kit



- Handy on/off switch allows you to pause water flow
- Five spray patterns from drenching rain to gentle massage
- Kink-resistant flex hose features built-in connectors for standard 1/2" shower arm
- Complete kit includes 60" shower hose, shower head, wall mount, washers, and hardware
- Head Dia: 4"; Total Length: 9"

CAM 43713





Scandvik Head/Shower Combo Faucet

This fixture is perfect for compact bathrooms as they act as a basin faucet and a shower in one. Adjustable spray aerator lets you choose between faucet flow or shower spray. Handle with a built-in water conservation valve will help reduce water usage.

- Flexible supply lines with 1/2" NPS-F fittings
- Chrome plated brass faucet body and knobs, white sprayer handle, white nylon hose
- Mounting hole: 1-1/4"

SCA 46011
Parts:

SCA 10271	5' flexible hose

Scandvik Recessed Shower

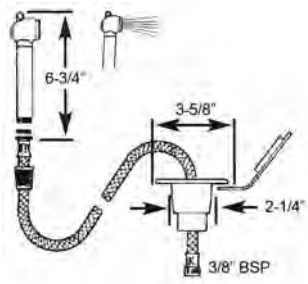


- White plastic Euro sprayer, recessed shower with 6' chrome flex hose and S/S cap
- Use in vertical or horizontal installations
- Mounting Hole: 2-3/4"

SCA 12150	White

Parts:

SCA 14004	Euro shower handle only





Scandvik Recessed Shower

- Plastic and chromed brass sprayer with 10' nylon hose
- Mounting hole: 2-1/4"
- Soft caps snug fit provides a water tight seal

SCA 10275	White

Parts:

SCA 10014	Replacement cup and cap
SCA 10283	Replacement handle

Scandvik Double Recessed Shower



- ABS and chrome plated brass spray handle
- Cap is manufactured from 316 pacified stainless steel
- Chrome plated brass mixers
- Friction lock holds the cap open
- Push-button spray handle
- Flexible supply lines with 1/2" NPS-F fittings
- 6' chrome spiral hose and white composite cups
- Mesh bag below the deck to contain hose
- Mounting holes: 2 x 2-3/4" (3" on centre)

SCA 12166
Parts:

SCA 10283	Handle only

Scandvik Double Recessed Shower



- White Euro sprayer transom shower with mixing valve
- Cap is manufactured from 316 pacified stainless steel
- Friction lock hinge holds the cap open
- On/off trigger locks in the on position for continuous flow
- Flexible supply lines with 1/2" NPS-F fittings
- 6' white nylon hose and white composite cups
- Mounting holes: 2 x 2-3/4" (Cutout: 5-1/2" x 3-5/8")

SCA 12142
Parts:

SCA 14004	Euro shower handle only
SCA 14005	Euro chrome shower handle only



Scandvik Bulkhead Swivel Shower Holder



- Chrome plated brass
- Fits elbow shower handles
- Single screw installation

SCA 10650

Scandvik Chrome Flexible Hose



- 5' reinforced chrome flex with a chrome spiral wrap
- 3/8" BSP-female to 15/1 Metric-male

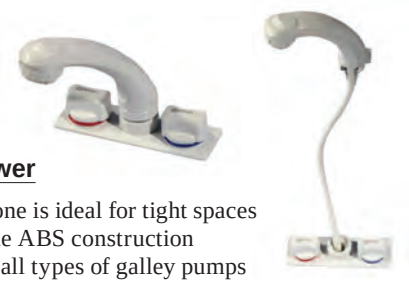
SCA 10271

Scandvik Adapter



Brass adapter converts male 3/8" BSP to male 1/2" NPT.

SCA 10002



Whale Combo Faucet/Shower

- Faucet and shower in one is ideal for tight spaces
- Lighweight and durable ABS construction
- Designed for use with all types of galley pumps
- Connects to 3/8", or 1/2" hose connections, or to Whale Quick Connect 15mm pipework
- Shower head can be set in three positions: faucet flow (over sink), shower flow (over shower tray, or for rinsing sink), and temporary shut-off for water conservation
- 5'6" flexible hose and wall-mount shower bracket included
- Base plate: 6-3/4"x 2-7/16"
- Suitable for pressurized water systems up to 45 psi
- Water connection: 1/2" threaded/Whale Quick Connect 15mm

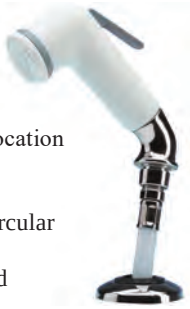
WHA RT2498 White

Parts:

WHA AK5030 Parts kit

WHA AS5133 Handset only

Whale Shower Faucet



- Press trigger to only use the water you need
- Crisp and clean - chrome and white finish
- 6' hose allows you to fit in most convenient location on deck
- Highest quality finish - stabilized PVC cover
- Simple installation - standard size (3-1/8") circular holes to drill
- Comes with a 1/2" female adapter as standard

WHA TB4172



Whale Transom Shower

- Designed for easy rinse down after swimming
- Fit in convenient locations on deck - extra long 2.1 m (7 ft) hose
- Save water on board - On/off control on shower handset allows you to set temperature and only use the water you need
- Neat hinged cover with latch to close
- Blends in on deck - White high shine finish matches the gel coat
- Straight forward installation - simple connection to either Quick connect 15mm pipework or 1/2" hose connection
- 6-1/2" x 11-1/2" x 3-1/2"

WHA RT2658

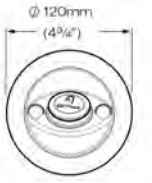
Parts:

WHA AK5030 Parts kit

WHA AS5133 Handset only

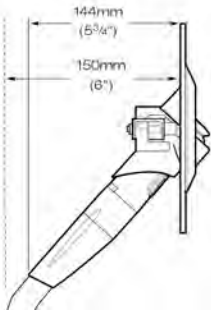






Whale Transom Twist Deck Showers

- Easy wrist twist temperature (hot/cold models only), and flow control
- Streamlined, ergonomic design using high quality UV resistant ASA materials
- Light, flexible, mark resistant hose
- Includes chrome straight housing and colour matched angled housing options
- 6.9' hose (D hose on MK2 model)
- End cap creates a splash proof seal
- 3/8" BSP female/15 mm quick connect male hose connection on Original model
- 1/2" threaded connection on MK2 model



WHA DS0005 Original, Cold only

WHA DS0006 ** Original, Hot/Cold

WHA DS2122 MK2, Hot/Cold

** While Stock Lasts



Heater Craft Surface Mount Shower System

Remote temperature, complete shower package is ideal for boats of all sizes.

Larger boat owners like the ability to be able to install the Surface Mount Shower System in a remote site, out of the way location. The positive shut-off provided by the quick release fitting, allows the valves to be preset at your desired temperature level.

101 SC Complete Kit Includes:

- 10 position spray head with button
- 3.0 GPM, 12V pump
- All necessary hardware for installation
- One year warranty

HCM 101SC

Parts:

HCM S-106 6' cold water hose with fitting

HCM S-107 6' hot water hose with fitting

HCM S-108 15' pump hose with fittings

HCM S109 15' spray hose

HCM S-308 Shower pump end fitting (5-6094)

Heater Craft Shower



- Flush mount showers
- Can be plumbed into the on-board water system or the engine's raw water open cooling system
- Spray head with water conservation button
- Comes with a 3/8" x 10' hose and a wing nut swivel 1/2-14 NPT x 3/8" barb fitting. (pump not included)
- 2 year warranty
- H: 6.25" x W: 10.25" x D: 4"

HCM 303SB White-enclosure/chrome spray head, no power switch

Parts:

HCM S-218 Shower head only



ITC Exterior Shower



- Clean, arctic white components
- Latching door
- Impact & temperature resistant
- Paintable & UV stable housing
- 5' CSA approved hose
- Stainless steel hinge pin
- Anti-siphon vacuum breaker
- W: 10.375" x H: 5.875" x D: 3.25"

ITC 97022-A-5



Vetus Flexible Water Tanks

- These flexible tanks adapt its shape to its surroundings so they easily fit in places which are normally difficult to reach
- The tanks consist of 3 layers (a wear resistant, reinforcement and a layer for contact with drinking water)
- Each flexible drinking water tank has two right angle nipples as standard supply: one inlet fitting (1-1/2") and one outlet fitting (5/8"). The inlet fitting is installed in the center of the tank and the outlet is supplied loose for easy installation in any desired position
- Additional connectors are available

Part #	Gallons	L x W x H (full)
VTS TANKW55	14.5	26-49/64" x 30-45/64" x 10"
VTS TANKW70	18.45	30-45/64" x 30-45/64" x 11"
VTS TANKW100	26.42	31-7/64" x 39-3/8" x 11"
VTS TANKW1003	26.42	29-9/64" x 80-5/16" x 10"

Vetus Hose Connectors



- Angled synthetic fitting for flexible water tanks
- Required hole size for flexible tanks is 1-5/8"

VTS FT16B 5/8" hose

VTS FT38B 1-1/2" hose

Moeller Water Tank



- The resin used in each water tank meets FDA specs for polymers used in contact with food, which ensures safe, odour-free water
- Nominal wall thickness of 0.20"
- 20 gallon capacity
- L: 21" x W: 17" x H: 14"

MOE 040220

► *Also See* Tank Adapter Kits pg 11-015

Sea-Dog Galley Foot Pump



- Leaves both hands free while you pump
- 3 GPM output
- Constructed of molded delrin
- Hose size: 1/2"

SED 517060-3 Pump complete

Parts:

SED 517065-1 Repair kit

Whale Baby Galley Foot Pump



- Simple foot operated solution for pumping water in the galley
- Smooth and easy operation
- Comfortable to use - angled top section
- Compact for installing in confined spaces
- Ideal as a priming pump for use with Whale in-line impeller electric pumps
- The ideal foot pump for a simple freshwater system
- 1/2" hose connectors
- 3-15/16" x 5-1/2" x 2-3/4"
- NOTE: Not for use in pressurized systems

WHA GP4618

Whale Gusher Galley Foot Pump



- Easily operated foot pump
- Smooth double action
- Self-priming up to 7', and operates dry without damage
- Multi-directional inlet and outlet hose connections
- Suitable for fresh or saltwater
- 4 GPM
- 1/2" port size
- W: 7-3/4" (overall) x H: 3-5/8" x D: 5"
- NOTE: Not for use in pressurized systems

WHA GP0550 Right-side lever
WHA GP0551 Left-side lever
Parts:
WHA AK0553 Service kit
WHA AS0556 Piston/spring assembly

Whale Flipper Galley Pump



- Self priming lever operated hand pump.
- Ideal for installing between two sinks - swivelling outlet
- Fine flow control
- Easy operation: light back & forth pump action
- Suitable for fresh water and saltwater
- 7 litres capacity (1.85 US gals) per minute
- 1/2" hose connection
- 2" cutout
- Above counter: 7-1/8", below: 4-1/2" x overal width: 8-3/8"
- NOTE: Not for use in pressurized systems

WHA GP0418

Jabsco Par-Max Series Water System Pumps

Par-Max 3



Par-Max HD4



Updated and improved lineup of freshwater supply pumps. The standard models available from 1-3 GPM provide good performance in an economical footprint, with a plastic housing that protects the motors from corrosion. The HD (heavy duty) models available up to 6 GPM and 60 PSI deliver exceptional performance, and include a wider diameter motor with a powder coated shell, cast aluminum endbells, and lower housing to improve pressure capability and life.

- Co-molded diaphragm technology for long life and durability
- HD models feature heavy duty motors and cast aluminum lower housings, which allow for long life, even at high pressures
- Efficient and quiet operation
- Integrated, sealed pressure switch for on-demand operation
- Self-priming
- Can run dry without damage
- Quick connect ports for ease of installation, servicing, and maintenance
- Vibration dampening mounting feet
- Integrated bypass module to reduce cycling and provide smoother flow

Model	Part #	VDC	Max Amps	GPM	PSI	Fuse Size	Fittings	Strainer	Dimensions
Par-Max 1	**JAB 42630-3512-3C**	12	3.5	1	35	5	2 X 3/8" straight hosebarb**	None	L: 6.5" x H: 4" x W: 2.7"
Par-Max 2	**JAB 31295-3512-3A**	12	6	2	35	10	2 x 1/2" straight hosebarb	Inline	L: 9.1" x H: 4.2" x W: 4.2"
Par-Max 3	**JAB 31395-4012-3A**	12	6.2	3	40	10		Inline	L: 9.1" x H: 4.2" x W: 4.2"
Par-Max HD3	**JAB Q301J-115S-3A**	12	8	3	40	15		Inline	L: 8.6" x H: 4.1" x W: 3.8"
Par-Max HD3	**JAB Q301J-118S-3A**	12	8.7	3	60	15		Inline	
Par-Max HD4	**JAB Q401J-115S-3A**	12	10	4	40	15		Inline	L: 9.4" x H: 4.1" x W: 3.8"
Par-Max HD4	**JAB Q402J-115S-3A**	24	5	4	40	10		Inline	
Par-Max HD4	**JAB Q401J-118S-3A**	12	12	4	60	20		Inline	
Par-Max HD4	**JAB Q402J-118S-3A**	24	6	4	60	10		Inline	
Par-Max HD5	**JAB P501J-115S-3A**	12	12	5	40	20	2 x 1/2" stright hosebarb 2 x 3/4" straight hosebarb	90°	L: 9.6" x H: 5" x W: 4.7"
Par-Max HD5	**JAB P501J-118S-3A**	12	13	5	60	20		90°	
Par-Max HD6	**JAB P601J-215S-3A**	12	15	6	40	25	2 x 3/4" straight hosebarb	90°	L: 10.2" x H: 5.1" x W: 4.7"
Par-Max HD6	**JAB P601J-218S-3A**	12	18	6	60	25		90°	
Par-Max HD6	**JAB P602J-215S-3A**	24	7	6	40	15		90°	
Par-Max HD6	**JAB P602J-218S-3A**	24	8	6	60	15		90°	

**also includes 2 x 3/8" to 1/2" adapter

► *Also See* Washdown Pumps pg 11-036 to 037

Jabsco Sensor-Max II Freshwater Pump



The Sensor-Max II is Jabsco's most sophisticated freshwater delivery pump featuring variable speed technology.

- 5 GPM
- Automatically adjusts the motor speed to deliver consistent pressure and smooth, steady flow
- High flow capacity supplies up to five outlets
- Quiet operation with no water hammer
- No need for an accumulator tank
- Conserves power by adjusting motor speed as needed
- Co-molded diaphragm and cast aluminum lower housing
- Includes 90° 40 mesh strainer and snap-fit port fittings
- Fuse size: 15A
- 12V, 12A
- 40 PSI
- L: 9.13" x H: 5.48" x W: 6.10"

JAB V50AJ-115N-3A

Jabsco Hose Barb Fittings

1 GPM

JAB 1877K-1122S 3/8" Straight hose barb, 2/pk

2-5 GPM

JAB 1877K-2242S 1/2"-14 Straight NPS, 2/pk
JAB 1877K-2222S 1/2" Straight hose barb, 2/pk
JAB 1877K-3222S 3/4" Straight hose barb, 2/pk
JAB 1877K-3211S 3/4" Straight garden hose thread, single
JAB 1877K-2242E 1/2"-14 Elbow NPS, 2/pk
JAB 1877K-2222E 1/2" Elbow hose barb, 2/pk
JAB 1877K-3222E 3/4" Elbow hose barb, 2/pk

6 GPM

- "Large Format" fit only Flojet and Jabsco motor driven diaphragm pumps 6 GPM and larger with 1" OD ports

JAB 1877K-3322S 3/4" Straight hose barb, 2/pk
JAB 1877K-3322E 3/4" Elbow hose barb, 2/pk
JAB 1877K-2342S 1/2"-14 Straight NPS, 2/pk
JAB 1877K-2342E 1/2"-14 Elbow NPS, 2/ pk
JAB 1877K-3311S 3/4" Straight garden hose thread, single

Jabsco Old Pump Parts

JAB 18916-0050 Pressure switch kit, 50 PSI, 31605-0092
JAB 18916-1040 Pressure switch kit, 40 PSI, 31395-0392
JAB 18916-1050 Pressure switch kit, 50 PSI, 31395-0092
JAB 18916-1070 Pressure switch kit, 70 PSI, 82405-0092
JAB 18753-5032 * Pressure switch, 60 PSI, 52600-0092
JAB 30647-1000 Port side clips (2/pkg), for snap-in ports: Parmax 1.9, 2.9, 3-4 gpm triangular head and 4-5gpm round head
JAB 30653-1000 Snap-in ports, 3/4" hose (2/pkg)
JAB 30200-0000 Motor, 12V, 36800 / 36950 series
JAB 37121-0010 Pressure switch, 36800 / 36950 series
JAB 37176-0000 Ports (set), 36800 / 36950 series

* Special Order



Jabsco Ultra Max Automatic Multi-Outlet Water System

This "all-in-one" system features a Par-Max 3 pump, inlet strainer and pre-pressurized accumulator tank, all neatly assembled with snap-in port fittings on a corrosion proof base.

- Serves 3 or more 1/2" outlets
- Self-priming to 5' (1.5 m) with run dry ability
- Thermal overload protection
- Port adapter for 1/2" ID hose barb and 1/2"-14 pipe thread fittings
- Accumulator tank is pre-pressurized to 20 PSI
- L: 15-1/2" x W: 15-3/4" x H: 5-1/2"
- 3 year warranty

Part #	VDC	GPM	PSI On/Off
JAB 59451-1012	12	3.4	20 - 40

Parts:

JAB 18916-0040 Pressure switch
JAB 30573-0000 Accumulator tank

Marco Water Pumps



- Self-priming automatic electric pumps
- Integrated check valve and electronic pressure sensor with a microprocessor control
- Nickel-plated brass body, helical PTFE gears and stainless steel shaft
- Variable speed means no need for an accumulator tank
- Green/Red LED signals pump functions
- Integrated RJ11cable for PCS connection
- 12/24VDC

Part #	PSI	Flow GPM	Ports NPT	Fuse	Dimensions L x W x H
MAR 164-660-15	29	3.2	3/8"	15A	4.625" x 3.25" x 6.5"
MAR 164-602-15	36	4	3/8"	15A	7.375" x 4" x 7.375"
MAR 164-622-15	36	6.9	1/2"	20A	8.75" x 4.375" x 9.125"
MAR 164-681-15	36	9.5	1/2"	25A	8.75" x 4.5" x 10.125"
MAR 164-690-15	36	12.2	3/4"	30A	8.875" x 4.625" x 10.375"

Marco Pump Parts

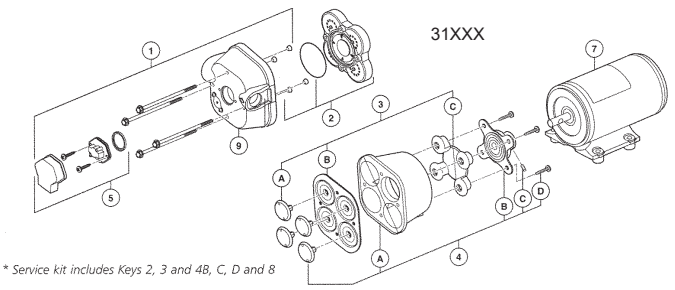
MAR 64-000-59	R-kit 12/24V
MAR 64-000-83	R-kit 12/24V
MAR 64-000-82	R-kit 40 mm PTFE gears
MAR 64-000-88	R-kit 34 mm PEEK gears
MAR 64-000-93	R-kit 9 mm lip seal and ball bearing
MAR 64-000-94	R-kit 10 mm lip seal & ball bearing
MAR 64-001-03	R-kit 1/2" BSP - 1/2" NPT fittings
MAR 64-001-05	R-kit 3/4" barb fittings + nipple
MAR 68-000-54	R-kit BSP thread - 3/4" hose barb

Flojet Parts and Accessories

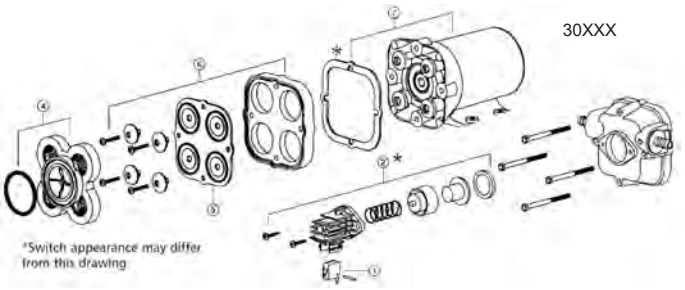
FLJ 20381-002 **	1/2" hose barb ports, (JAB 1877K-2222S), 2/pk
FLJ 2090-104	Micro switch for #4405-143A & 4305-5004
FLJ 2090-118	Micro switch for #4325-143

** While Stock Lasts

Jabsco Par-Max Pump Parts



* Service kit includes Keys 2, 3 and 4B, C, D and 8



PAR-MAX 31XXX Series Parts List						
Key	**Description**	**Qty**	**31595 Series**	**31600 Series**	**31620 Series**	**31630 Series**
2	Valve Kit	1	**JAB 18911-7030 ***	**JAB 18911-7030 ***	**JAB 18911-7030 ***	**JAB 18911-7030 ***
3	Diaphragm Kit	1	**JAB 18912-3040**	**JAB 18912-3040**	**JAB 18912-3040**	**JAB 18912-3040**
5	Pressure Switch 0092	1	**JAB 37121-0010**	**JAB 37121-0010**	**JAB 37121-0010**	**JAB 37121-0010**
5	Pressure Switch 0094	1	**JAB 37121-0010**	**JAB 37121-0010**	**JAB 37121-0010**	**JAB 37121-0010**

PAR-MAX 30XXX Series Parts List (Discontinued Models)						
Key	**Description**	**Qty**	**30600 Series**	**30620 Series**	**30710 Series**	**30720 Series**
1	Micro Switch	1	**JAB 18753-0141**	**JAB 18753-0141**	**JAB 18753-0141**	**JAB 18753-0141**
2	Pressure Switch	1	**JAB 37121-0010**	**-**	**-**	**-**
4	Valve Kit	1	**JAB 30613-1001 ***	**JAB 30613-1001 ***	**JAB 30613-1001 ***	**JAB 30613-1001 ***
5	Diaphragm Kit	1	**JAB 30617-1000**	**JAB 30617-1000**	**JAB 30617-1000**	**JAB 30617-1000**

* Special Order

Marco Control Panel for Electronic Pumps



- Remote interaction and monitoring of Marco electronic pumps
- Visual confirmation when the pump is on, and if there is still liquid to be transferred
- Warning can be reset and the system restarted without having to remove the power supply
- Turn pump on or off with push button control
- Can be surface mounted or recessed in a circular hole with a diameter of 2-3/4"
- 12/24VDC
- 3-1/8" x 3-1/8" x 1-7/8"

MAR 165-203-15

Shurflo SLV Fresh Water Pump



This compact automatic demand pump offers durability and dependability making it ideal for low volume, intermittent duty applications.

- Single-fixture, 12VDC
- Self-priming to 2.5', run dry capability
- Ports: 3/8" barb
- 6.8" x 3.9" x 2.5"

Part #	Flow GPM	Amp Draw	Shut Off
SHR 105-013	1	2.5	30 PSI

Shurflo Aqua King II Water Pump



- Built-in mechanical bypass enables on demand flow rates without an accumulator tank
- Electro coated seamless shell motor
- Self-priming up to 6'
- Multi-fixture application
- 2 x 1/2" hose barbs included
- 12VDC
- 8.2" x 4.9" x 4.1"

Part #	Flow GPM	Amp Draw	Shut Off
SHR 4138-111-E65	3	6.5	55 PSI

Shurflo Aqua King II Water Pumps



- Built-in mechanical bypass enables on demand flow rates without an accumulator tank
- Electro coated seamless shell motor
- Intermittent duty
- Multi-fixture application
- 2 x 1/2" hose barbs and inlet strainer included
- 55 PSI
- 10" x 5" x 4.75"

Part #	Flow GPM	Volts	Amp Draw
SHR 4148-153-E75	4	12	10
SHR 4158-153-E75	5	12	13
SHR 4158-163-E75	5	24	7

Shurflo Nylon Pump Fittings



Straight Wing Nut Swivel Fittings

SHR 244-2926	1/2"-14 NPT (F) x 1/2" barb
SHR 244-2936	1/2"-14 NPT (F) x 5/8" barb
SHR 244-2946	1/2"-14 NPT (F) x 3/4" barb



Elbow Wing Nut Swivel Fittings

SHR 244-3926	1/2"-14 NPT (F) x 1/2" barb
SHR 244-3946	1/2"-14 NPT (F) x 3/4" barb

Shurflo Pump Parts

Parts 2088 Series

SHR 94-236-14	Pump repair kit
SHR 94-238-03	Lower housing
SHR 94-238-04	Lower housing repair kit
SHR 94-232-06	Valve assembly
SHR 94-237-00	Check valve
SHR 94-231-10	Switch & upper housing

*Pump repair kit includes Lower Housing, Drive Assembly & Diaphragm

Parts 3200 Series Macerator

SHR 94-571-00	Impeller kit

Parts 3900 Series

SHR 94-120-00	Impeller kit for series

Parts 5900 Series

SHR 94-069-00 **	Switch

** While Stock Lasts

Whale Watermaster Auto Pressure Pump



- Automatic pressure pump with 4 chamber design delivers smooth, consistent flow
- 8 L (2 US Gal) per minute
- Will run dry without damage
- Self-priming up to 3m (10')
- Fully sealed, IP65 rated protective motor housing
- Integrated protected pressure switch
- Includes inlet filter, 2x 1/2" threaded connectors, and 2x 1/2" barbed connectors
- Quiet operation – anti-vibration feet reduce noise
- Plug 'n' Play installation
- Can be used with salt or fresh water
- Weight: 3.3 lb
- L: 8-1/4" x W: 7" x H: 5"

WHA FW0814 12V

Headhunter Mach 5 Water Pressure Systems



An integrated control system provides instant dry run protection, and allows the pump to be used with or without a pressure accumulator tank. The Mach 5 incorporates a multi-stage impeller system driven by a super-efficient water-cooled motor to generate up to 20 gallons per minute, instantaneously, on demand, and in virtual silence. An easy to read control panel on top of the pump provides instant visible status information as well as reset capability. Constructed of corrosion proof UL94 HB glass reinforced polypropylene.

- Suction/discharge ports: 1" MPT
- Weight: 23 lbs. (10.4 kg)
- Maximum shutoff: 67 PSI
- Maximum suction lift: 20'
- W: 8-5/8" x H: 13-1/4" x L: 18"

Part #	Voltage	Amps	Discharge PSI 30 40 50 Flow in GPM		
HED M5-115/60	115V/60hz	8	16	12	8
HED M5-230/60	230V/60hz	4	16	12	8

Parts:

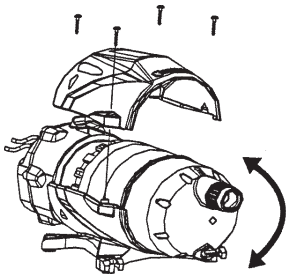
HED M5-25-100ICVMPT 1" MPT inlet with check valve

Headhunter XCaliber Water Pressure System



DC motor and control technology with a self-priming centrifugal pump. A built in microprocessor interfaced with a ceramic temperature and pressure sensor provides variable speed operation, prevents dry running damage and ensures complete electrical protection.

- 316 stainless steel components
- Adjustable power setting
- Adjustable cut in pressure
- Over voltage protection
- Anti-flooding protection
- Dry run protection
- Under voltage protection
- Over current protection
- Soft start/stop
- Variable speed
- Weight: 16 lbs



Part #	Volts	Open Flow	PSI	On
HED XRS-124	12/24	10 GPM	67	40 PSI

Innovative Rotating Bracket:
Loosen the top bracket and rotate the cylindrical pump body within the mounting bracket the to the horizontal, vertical, or even angled planes while maintaining inlet and discharge piping alignment. A unique interlocking mechanism within the mounting bracket secures the pump body to prevent any movement within the two halves of the bracket.

Shurflo Stainless Steel Accumulator Tank



- Made from stainless steel
- Pre-charged to 20 PSI, (Max. 100 PSI)
- Female 1/2" NPT port
- 2 gallon capacity
- L: 12" x W: 10-75" x H: 9.5"

SHR 3400-002

Headhunter Stingray Water Pressure System



- Reinforced polymer construction
- Designed specifically for continuous duty
- For saltwater toilet flushing, live bait wells, aquaculture, and anywhere else high flow/pressure salt or fresh water is needed
- Featuring a multi-stage impeller system driven by a quiet totally enclosed fan motor
- Turns off when the pump reaches a no flow condition, allowing the pump to operate with or without a pressure accumulator tank as well as providing dry-run protection
- An easy to view control panel with L.E.D. diagnostics
- Dry run visual alarm
- Maximum suction lift: 20'
- 9 amp draw
- H: 12-7/8" x W: 8-1/2" x L: 16-15/16"
- Weight: 24 lbs

Part #	Volts	Open Flow	PSI	On
HED SR115/60	115	20 GPM	67	40 PSI

Groco Paragon Pressure Storage Tanks

- A pneumatic pressure charge is matched to the pumps cut on pressure
- Prevents water logging by separating the air charge from system water pressure with a rubber bladder
- Tanks may be mounted in any position, and anywhere in the cold water plumbing after the pump
- For fresh or salt water
- Mount hardware is included
- 3/4" NPT inlet

PST-1 & 2



PST-3A, 4 & 5



Part #	Dia	Length	Total Volume	Drawdown Volume	Mount
GRO PST-1	8"	13"	2 gal	1 gal	Strap
GRO PST-2	11"	15"	4.4 gal	2.5 gal	Strap
GRO PST-3A	15"	19"	10.3 gal	5.5 gal	Stand
GRO PST-4	15"	24"	14 gal	7 gal	Stand
GRO PST-5	15"	32"	20 gal	10 gal	Stand

Groco Paragon Automatic Water Pressure System Parts



Paragon JR

GRO PJR-REG	Service kit for the Groco Junior series pump
GRO 2-010	O-Ring (2), (after 1/85)
GRO 2-041	O-Ring, (before 1/86)
GRO 2-042	O-Ring, (after 1/86)
GRO P-8003 *	Drive belt
GRO P-9021-A	Check valve

Paragon SR

GRO PSR-REG	Service kit for the Groco Senior series pump
GRO 2-041	O-Ring, before 851201
GRO 2-042	O-Ring, after 851201
GRO P-7005	Coupling set
GRO P-9015	Shaft seal
GRO P-9022-B	Mount feet (4)

* Special Order

Shurflo Accumulator Tank



- Nylon housing
- Butyl rubber diaphragm
- 24 oz nylon tank
- 1/2" ports
- Reduces pump cycling
- Smooths water faucet pulses
- Pre-pressurized to 20 PSI with built-in diaphragm
- Fittings are included
- 9.1" x 4.8" x 3.8"
- 1 year warranty

SHR 182-200

Jabsco Mini Accumulator Tank



- The mini accumulator tank smooths water flow
- Compact design for smaller systems
- Quick-connect fittings included (1/2")
- Capacity of 21.5 oz.
- Pre-charged to 10 PSI (0.7 bar)
- System pressure up to 125 PSI (8.6 bar)
- D: 4-3/8" x W: 4-3/4" x H: 7"

JAB 30573-0003

Jabsco Accumulator Tank



- Eliminates pulsations and water hammer and it also increases pump life
- Factory-pressurized to 20 PSI, can be fine-tuned to each system (A standard tire valve is mounted at the top of the tank for adjusting pressure)
- It also mounts easily in any position
- Includes 1/2" snap-in barbed hose fittings
- Working volume: 1 quart
- Maximum working pressure: 125 PSI
- Dia: 4-3/4" x H: 13-1/4"

JAB 30573-0000

Attwood Sahara Mk2 Auto Bilge Pumps



- Patented X-Air Impeller prevents air-lock
- 90° rotatable elbow outlet allows installation in full 360° rotation
- Single-hand cartridge release makes it easier to access a pump located in hard-to-reach areas
- External mounting feet and integrated outlet
- Universal backwards compatible design with a 7-pump mounting hole pattern
- SteadySwitch buoyancy control reduces cycling
- No pipe or hose removal required
- Improved motor cooling/heat dissipation
- 40% better protection against water ingress and electrolysis vs the MK1
- Retrofits footprint of current offering

Part #	VDC	GPH	Amps	Hose
ATT 5505-7	12	500	1.2	3/4" & 1"
ATT 5508-7	12	800	2.5	3/4" & 1"
ATT 5512-7	12	1200	3.4	1" & 1-1/8"
ATT 5513-7	24	1200	3.4	1" & 1-1/8"

Parts:

ATT AK5505-7 Service kit for 5505-7 & 5508-7

ATT AK5512-7 Service kit for 5512-7 & 5513-7

Kit Includes:1 ea 90° outlet, straight outlet, washer, non-return check valve

Attwood Tsunami Mk2 Heavy Duty Manual Submersible Bilge Pumps



- Patented X-Air impeller ejects trapped air in the pump and pipework
- External mounting feet and integrated 90° rotatable elbow outlet reduce time and effort
- Single-hand pump cartridge release
- 40% better protection against water ingress and electrolysis vs Mk1
- Ignition protected
- Meets or exceeds ABYC H-22, ISO 8849, ISO 15083, ISO 8846 Marine, ABYC E-11, ISO 10133
- Approvals: NMMA; CE; RCM: UKCA
- 3 year warranty

Part #	GPH	Amps	Outlet	H x Dia
ATT 5606-7	510	3	3/4" & 1"	3-13/16" x 3-19/32"
ATT 5608-7	747	4	3/4" & 1"	4-1/2" x 4"
ATT 5612-7	903	5	1" & 1-1/8"	4-1/2" x 4"

Attwood Heavy Duty Manual Submersible Bilge Pump

- Pump all employs an exclusive shaft and motor compartment, reducing wear and significantly extending pump life
- Advanced resin compositions incorporated in exterior to resist chemicals such as engine oil, aggressive detergents and hose plasticizers
- 2000 GPH at open flow
- 1-1/8" hose
- 6.6 amp draw @ 12V
- 36" wire lead
- H: 5.97" x Dia: 3.83"



ATT 4760-4

Attwood WaterBuster Cordless Pump



- Excellent for use as a portable pump-out
- Convenient and safe, because it needs no electrical cord
- Runs up to 5 hours on three alkaline D batteries (not included)
- Pumps up to 200 gallons per hour.
- 42" hose with garden-hose adapter
- Lifts water to height of 40"
- H: 6-3/8" x Dia: 5-1/4"

Note: Not to be used as a permanent bilge pump

ATT 4140-4

Jabsco Shower Drain/Bilge Pumps



- Flexible installation
- No filter required
- Compact and simple design
- Self-priming to 3m (10ft)
- Dry running capability
- Connections for 19mm (3/4") ports
- Up to 19 lpm (5 gpm) flow
- ISO 8846 MARINE and USCG Regulations for Ignition Protection

JAB 50880-1000 12V, 8 amps

JAB 50880-1100 24V, 2.5 amps

Parts:

JAB SK880 Service kit

Rule Submersible Bilge Pumps


20DA

Rigorous engineering and testing helped generate the new series of bilge pumps. Our pumps are tested to the highest standard, achieving rated performance at 12V vs 13.6V, resulting in higher flow with better efficiency for the toughest applications.

- High Flow - optimized impeller to provide greater flow at the same amperage
- Built-in Thermal Cut-Off (TCO) - provides added protection for pump and vessel
- Back Flow Prevention - reduces the amount of water left over in the bilge, reducing odor and helping keep your bilge cleaner
- Hidden Air Vents in the Body - helps prevent air locking in challenging plumbing installations and helps with the check valve
- Threaded Discharge - easier installation, easier maintenance
- 360/500 GPH; H: 3.9" x D: 2.9"
- 800/1100 GPH; H:4.4" x D: 2.9"

3/4" Hose Barb

RUL 24DA 360 GPH, 12 volt, 2.1 amps
RUL 25DA 500 GPH, 12 volt, 1.6 amps
RUL 25DA-24 500 GPH, 24 volt, 0.8 amps
RUL 20DA ** 800 GPH, 12 volt, 3.4 amps

1" & 1-1/8" Hose Barbs



RUL 27DA 1100 GPH, 12 volt, 3.7 amps

Parts:
RUL 66A Mounting bracket
RUL 1231R Strainer base for 360 & 500 GPH

** While Stock Lasts

Rule Submersible 1500 GPH Bilge Pumps


02

- High pumping capacity and reliability
- Outlet for 1-1/8" ID hose
- H: 6" x W: 4-1/2"

Part #	Volts	GPH	Amps	Fuse
RUL 02	12	1500	4.8@12V	9 amp
RUL 03	24	1500	2.3@24V	4 amp

Parts:
RUL 278 Replacement strainer base

Rule Submersible 2000 GPH Pumps


10

- Engineered to commercial standards
- Ignition protected
- Double insulated motor
- Teflon seals
- Anti-airlock feature
- Outlet for 1-1/8" ID hose
- 5/16" stainless steel shaft
- No burn out when run dry
- H: 6" x W: 4-1/4"

Part #	Volts	GPH	Amps	
RUL 09	12	2000	12	5 year warranty
RUL 10	12	2000	12	1 year warranty
RUL 12	24	2000	6	1 year warranty

Parts:
RUL 278 Replacement strainer base

Rule Submersible 3700 GPH Pumps


14-A

- Ball bearing, double insulated motor
- Ignition protected
- 5/16" stainless steel shaft
- Snap-on-snap-off strainer base
- Outlet for 1-1/2" I.D
- H: 7-1/4" x W: 4-7/8"

Part #	Volts	Amps	Fuse
RUL 14-A	12	20@12V	25 amp
RUL 16-A	24	10.0@27.2V	15 amp

Parts:
RUL 279 Replacement strainer base

Rule Submersible 4000 GPH Pump



- Designed for tougher applications
- Outlet for 2" ID hose
- H: 7-1/4" x W: 4-7/8"

Part #	Volts	Amps
RUL 56-D	12	20

Rule Bilge Pump/Switch Combos



- Come with a #35A float switch
- Completely submersible
- 12VDC
- Ignition protected
- Mercury-free switch
- Stainless steel shaft
- High abrasion, tin coated silicone blocked wire
- Includes back flow preventer
- 3-Year warranty

RUL 24DA-35A 360 GPH
RUL 25DA-35A 500 GPH

Rule Transom or Bulkhead Bracket


Pump not included

- Suitable for the Rule 360, 500 and 1100 GPH pumps

RUL 66

Rule Low Profile Bilge Pump



- Fits into hard to reach areas
- Fully rotating discharge body
- 900 GPH @ 13.6V
- 12VDC, amp draw: 4
- Backflow preventer valve
- Includes one 3/4" ninety degree fitting and one each straight fittings for 3/4", 1" and 1-1/8" hose
- H: 2.3" x L: 7.6"

RUL LP900D

► *Also See* Bilge Hose pg 10-004

Rule
Rule-Mate Automatic Bilge Pumps



- Higher Flow - optimized impeller to provide greater flow at the same amperage
- Auto Sense Intelligence - Integral water level sensor controls the pump automatically
- Smaller footprint - New RuleMate is 2/3 the size of existing model
- Built-in Thermal Cut-Off (TCO) - provides added protection for pump and vessel
- Back Flow Prevention - reduces the amount of water left over in the bilge, reducing odor and helping keep your bilge cleaner
- Hidden Air Vents in the Body - helps prevent air locking in challenging plumbing installations and helps with the check valve
- Threaded Discharge - easier installation, easier maintenance
- H: 4.4" x W: 3.5" x D: 2.9"

Part #	GPH	Amp Draw	Outlet
RUL RM-500B	500	1.8@12VDC	3/4" hose, 1" NPSM
RUL RM-800B	800	3.0@12VDC	
RUL RM-1100B	1100	3.8@12VDC	1" Hose, 1" NPSM 1-1/8" hose
RUL RM-1100B-24	1100	1.7@24VDC	

Parts:

RUL 1000864-26 Replacement strainer base, post-2009 models
RUL 285 Replacement strainer base, Pre-2009 Rule-Mate 500-1100

Rule-Mate Automatic Bilge Pumps



RM-2000A

- 12V pump and non-mercury float switch are in a single compact housing
- Float switch activates the pump when the water passes the 2-1/8" mark
- 1-1/8" outlet
- H: 6" x W: 7-1/4" x D: 4-1/4"

Part #	GPH	Amp Draw	Fuse
RUL RM-1500A	1500	7.0@12.0V	9.0 amps
RUL RM-2000A	2000	12.0@12.0V	15.0 amps
RUL RM-2000A-24	2000	6.0@24.0V	7.5 amps

Rule Dry Bilge Pump





- Pumps down to 1/8"
- Filter-free design
- Self-priming to 9.5'
- Able to run dry without damaging the pump
- Back flow prevention
- Rotating pump head and ports
- 4 GPM
- 3/4" Ports
- 12V, 8 Amp
- Pump: H: 6.2" x L: 11.6" x W: 5.2"
- Panel switch (included): H: 2.0" x L: 2.25" x W: .03"

RUL DB412 3/4" plastic 90° thru-hull fitting included

Parts:

JAB SK880 Service kit

Rule Automatic Bilge Pumps

Computerized operation on the principle of impeller resistance. Float switches are not required. The pump will turn on every 2-1/2 minutes for about one second to sense for water. If water is present, the pump will sense resistance and continue to run until all water is removed. Minimal power use in the checking mode.



Part #	Volts	GPH	Amps@12V	H x W x Port	Outlet	Power Cord
RUL A-53-S	110VAC	1800	100W	7-3/4" x 4-7/8"	1-1/8"	8'
RUL A-53-S-24	110VAC	1800	100W	7-3/4" x 4-7/8"	1-1/8"	24'
RUL 53-S	12	2000	8.4	7-3/4" x 4-7/8"	1-1/8"	-
RUL 55-S	12	3700	15.5	8-1/4" x 4-7/8"	1-1/2"	-
RUL 275	Replacement strainer base for 25S & 27S GPH pumps					
RUL 278	Replacement strainer base for A53S & 53S GPH pumps					
RUL 279	Replacement strainer base for 2800-3700 GPH pumps					

Rule Automatic
Electronic Sensing Bilge Pumps



- No float switch needed
- High flow with port and check valve
- True gph when the boat is docked or moored, 12 volts, not 13.6
- Check valve included with hidden air vent to prevent airlocking
- True electromagnetic suppression (EMC)
- Built-in thermal cell that protects the pump and the vessel when things get too hot
- Submersible and ignition protected
- High efficiency, low amp motor
- Stainless-steel shaft

RUL 25SA 500 gph, 3/4" port
RUL 27SA 1100 gph, 1" & 1-1/8" ports

Rule Automatic
Low Profile Bilge Pump



- Fits into hard to reach areas
- Fully rotating discharge body
- 900 GPH @ 13.6V
- 12VDC, Amp draw: 4
- Electronic automatic mode
- High or low water sensing mode
- Backflow preventer valve
- Includes one 3/4" ninety degree fitting and one each straight fittings for 3/4", 1" and 1-1/8" hose
- H: 2.3" x L: 9.3"

RUL LP900S

Rule In-Line Submersible 12V Pumps


IL-200P IL-280/500P


IL-500PK

- Centrifugal submersible in-line pump
- Easy conversion for in-line pumping applications
- Strainer removes for easy cleaning
- Water systems to 80 ºC
- Pump up to 32' of head
- Pumps fresh/sea water/anti-freeze & diesel

Part #	GPH	Outlet	Pressure	L x Dia	Cable	Rating
RUL IL-200P	200	3/8" & 1/2"	11 PSI	5.6" x 1.4"	3'	Intermittent
RUL IL-280P	280	1/2"	14 PSI	6.5" x 1.5"	13' w/battery clips	Continuous
RUL IL-500P	500	3/4"	14 PSI	6.5" x 1.5"	13' w/battery clips	Continuous
RUL IL-500PK †	500	3/4"	14 PSI	6.5" x 1.5"	13' w/battery clips	Continuous

† Includes a spray nozzle and a 12' lay flat hose

Rule 110 VAC Submersible Pump



- Non-automatic pump
- Totally submersible 110 VAC
- Heavy duty construction
- Pump motor is permanently lubricated for extended life
- Snap off strainer for easy cleaning
- 1800 GPH
- 100 watts
- 1-1/8" outlet
- H: 7-1/4" x Dia: 4-3/4"

RUL A-53-D

Rule Adapters


67

- Hose adapter for converting the 1-1/2" pump outlet to 1-1/8" hose

RUL 67


68

- Garden hose adapter for 1-1/8" outlet to standard male garden hose thread

RUL 68


69

- Hose adapter for converting 1-1/8" outlet to 3/4" or 5/8" ID hose

RUL 69


58

- 90º elbow adapters for Rule bilge, sump and utility pumps
- Allows pumps to be attached to rigid piping systems
- Snaps onto discharge port

Part #	Outlet Size	N.P.T.
RUL 57	1-1/8"	1"
RUL 58	1-1/2"	1-1/4"


57

Whale Supersub Smart 650 Low Profile Bilge Pump



- No separate bilge switch required
- Automatically controlled electric field sensor detects water level, with included manual override ability
- Low profile design ideal for narrow bilge
- 650 GPH @ 13.6V
- 12V, Amp draw: 3.4
- Built in non-return valve, integrated bleed ball, and easy clean strainer
- Waterproof electronics
- Unaffected by wave motion
- Solid state switching
- Suitable for use with fresh or salt water
- 3/4" and 1" connections
- H: 3" x L: 8.25"

WHA SS5212

Centek Bilge Kleen Filter



Installed on your bilge pump discharge line, this filter removes 100% of oil, gas, diesel and other petroleum products from your bilge water without restricting bilge pump performance.

- 10" filter system
- 25 GPM
- 3/4" NPT ports
- Includes bracket, 1/2", 3/4", and 1" hose barbs, and Smartpad (used in the sump area to scavenge oil and gas residues)
- Dia: 4.5" x H: 12.5"

CEN 8-BK-1

Parts:

CEN 8-BF-1-1R Replacement filter

Vetus Bilge Water/Oil Separator



- Absorbs and retains up to 95% of oils, fats, and emulsions
- Transparent cover allows inspection of the filter element without opening the separator
- Capacity: 6.6 GPM
- Hose connection: 3/4"
- L: 5-3/4" x W: 5-7/8" x H: 6-3/8"

VTS BISEP19 *

Parts:

VTS BISEP19F2 Filter discs, 15/pkg

* Special Order

Aqualarm "Smart" Bilge Pump Switches



When water is detected the switch will activate a pump and run almost dry and then go another 15 seconds. Activates light on warning panel if pump runs longer than two minutes.

- Cased in a solid block of epoxy
- Push-on connectors and a screw hole for bulkhead mounting
- Switches pumps to 20 amps
- Completely waterproof
- Includes the Aqualarm 208A Bilge Water Level switch
- 2" x 3" x 1-1/2"

AAL 20035 12V
AAL 20036 24V

Attwood Float Switches



4201-7

- Can mounted on any surface from horizontal to 35° angle
- Integral cover dampens bilge sloshing to reduce pump cycling and prevents debris interference
- Switch mechanism is completely isolated and sealed and contains no harmful mercury or flexing wires
- Rated @ 12 amps, max 12 - 24V

ATT 4201-7 Switch with cover
ATT 4202-7 Switch only

Rule Eco Switch



- Automatic bilge pump switch that features a non mercury design
- Operates with simple air pressure therefore there are no moving parts to wear out
- All wiring is out of the water and there are no submerged electrical connections
- For pumps drawing up to 20 amps

RUL 39 12V

Rule Super Float Switches



- Large float provides more buoyancy, less on/off cycling
- Five year warranty
- Rated @ 20 amps, max 12 - 24 - 32V
- Mercury FREE

RUL 37-A
RUL 37-FA With in-line fuse holder (fuse not included)

Rule-A-Matic Float Switches



- For automatic on/off bilge pump control
- Switch design prevents rapid on/off cycling
- Maximum current: 14 amps

RUL 35-A
RUL 35-FA With fuse holder (fuse not included)

Rule-A-Matic Plus Float Switches



- Impact-resistant cover to guard against debris
- Abrasion resistant wires exit the top keeping them out of the water
- Manual testing feature allows operation checks
- Rated @ 20 amps, max 12 - 24 - 32V
- Mercury FREE

RUL 40-A Float switch
RUL 40-FA Float switch with fuse

Rule Bilge Alarm



The high water bilge alarm consists of a float switch and a black in-dash gauge that features both a visual and audible alarm. Additional areas of the vessel can be monitored by adding model 40-A float switches.

RUL 33-ALA 12V

Whale Electronic Float Switch



- Electric field sensor automatically senses water levels and switches on the bilge pump
- Nylon material - withstands high temperatures
- Automatically switches on when 51mm (2") of water is sensed and turns off when water drops below 13mm (1/2")
- 12/24 VDC
- 3.6" x 2.8"

WHA BE9003

Water Witch Switches



- No moving parts to jam or fail
- Environmentally sensitive, will not pump oil or gas
- No pump stutter to cause false cycling
- No electrolysis-ignition protected
- No pump burnout from jammed switches
- Waterproof and impermeable to all bilge substances
- Self-test feature
- Full 7 year warranty
- 2-5/8" x 1-5/8" x 1-5/8"

WIT 230 * 12V
WIT 230-24 * 24V



Same as the above but with a secondary upper activation switch for an alarm, second pump or warning device.

- 2-1/8" x 3-1/8" x 1-5/8"

WIT 257 * 12V



Same features as the 230 above but

- Delay on 6-8 seconds
- Delay off 14-16 seconds
- 2" x 1.335" x 1"

WIT 101-12 * 12V

* Special Order - may have stock

Ultra Automatic Bilge Pump Switches



Declared by *Practical Sailor Magazine* as "The best bilge pump switch you can buy". Impervious to all materials in the bilge. Uses an enclosed float and a magnetic switch to turn pump on when 2-1/2" of water is detected and off at 1" of water.

- Handles up to a 15A pump, and operates pumps to 32V
- Includes heat shrink connectors and mounting clamps
- U.L. listed
- Warranty: Junior - 5 year, Senior & Mini - lifetime
- Senior has a high water alarm sensor at 3-1/2"
- Senior & Junior: H: 6-1/2" x Dia: 2-1/2"
- Mini: H: 4" x Dia: 1-3/4"

USS PS-02-12V	Junior, 15 amps @ 12V
USS PS-02-24V	Junior, 10 amps @ 24V
USS PS-06-12V	Mini, 15 amps @ 12V
USS PS-06-24V	Mini, 10 amps @ 24/32V
USS UPS-01-12V	Senior, 15 amps @ 12V
USS UPS-01-24/32V	Senior, 10 amps @ 24/32V

Rule Deluxe 3-Way Panel Switches



- Controls any pump equipped with an automatic switch
- Three position toggle switch with spring return to "off" from manual
- Red indicator light with pre-wired fuse holder
- Black stainless steel panel
- 3-1/4" x 2"

RUL 41	12V
RUL 42	24/32V

Rule Standard 3-Way Panel Switch



- Controls any pump equipped with an automatic switch
- Three position toggle switch with spring return to "off" from manual
- Good for all voltages
- 2-1/4" x 2"

RUL 45

Rule 3-Way Rocker Panel Switches



- Black plastic panel, built in fuse holder
- Internally lighted rocker switch with three positions
- Spring returns the switch to "off" from the "manual" position.
- W: 2-7/8" x H: 2-3/8"

RUL 43	12V, 20 amp max.
RUL 44	24/32V, 10 amp max.

Rule On-Off Panel Switch



- For any manually operated system
- Provides "manual" control for Rule automatic submersible pumps
- Good for all voltages
- 2-1/2" x 2"

RUL 49

Rule Personal Watercraft Pump On/Off Switch



- Water resistant and designed to offer on-demand use of Personal Watercraft Pumps
- Features a water resistant toggle mechanism and a stainless steel face plate

RUL 49PWC

Sea-Dog Bilge Pump Switch w/Breaker



- Injection molded ABS
- Three way switch allows automatic and manual switching
- LED light activated when panel in Auto or Manual mode
- Back lit for night viewing.
- 20 amp rated
- Uses #6 fasteners
- W: 3" x H: 2-3/16"

SED 423040-1

Marco Washdown Pump Kit



- 4 GPM, 87 PSI (6 bar)
- Self-priming (to 9') electric pump with electronic control
- Equipped with helical PTFE gears, in-line filter, nickel plated brass body and check valve
- 50' retractable coil hose, jet gun, quick-click connection, stop-jet, check valve and trigger with jet regulation
- Suitable for salt or fresh water operation
- Ports: 3/8" BSP
- 12/24VDC



MAR 164-841-15

Rule General Purpose Washdown Pumps

Designed for use as washdown pump or to circulate water to your livewell tank. Because it is a centrifugal pump it must be located below the source of water to ensure prime.

- Outlet: 1-1/2 ID hose
- 5-1/4" H x 8-1/2" W



Part #	Volts	GPH	Amps
RUL 17-A	12	3800	20
RUL 18-A *	24	3700	10

* Special Order

Scanstrut Ventura Series Cold Water Outlet w/ Washdown Kit

NEW

- Marine grade 316 stainless steel components and rigorously tested for UV resistance and waterproofing
- IP68 & IP69K (with lid closed)
- Includes 10', .35" diameter coiled hose and multi-pattern stainless steel shower/sprayer head with two spray patterns - jet or shower
- Locking flow switch, self-sealing valve, spring loaded lid, and 90° holding bump feature
- 1/2" BSP water supply thread size
- Max Water Pressure: 115 PSI
- Cutout: 1.5"
- Outlet W: 4.34" x H: 2.73"
- Sprayer L: 4.49"



SCA SC-V-W1

Jabsco HotShot Series Washdown Pumps

Updated and improved lineup of washdown pumps and kits. The standard models provide exceptional performance in an economical footprint, with a plastic housing that protects the motors from corrosion. The HD (heavy duty) models include a wider diameter motor with a powder coated shell, cast aluminum endbells, and lower housing to improve pressure capability and life.

- Co-molded diaphragm technology for long life and durability
- HD models feature heavy duty motors and cast aluminum lower housings, which allow for long life, even at high pressures
- Efficient and quiet operation
- Integrated, sealed pressure switch for on-demand operation
- Self-priming
- Can run dry without damage
- Quick connect ports for ease of installation, servicing, and maintenance
- Vibration dampening mounting feet
- Dimensions HotShot 3 - L: 9.1" x W: 4.2" x H: 4.2"
- Dimensions HotShot HD4 - L: 9.4" x W: 4.1" x H: 3.8"
- Dimensions HotShot HD5 - L: 9.6" x W: 5.0" x H: 4.7"
- Dimensions HotShot HD6 - L: 10.2" x W: 5.1" x H: 4.7"

HotShot 3



HotShot HD4





Standard nozzle



Nozzle included with HD6 series only

Model	Part #	VDC	Amp Draw	GPM	PSI	Fuse Size	Fittings	Strainer	Trigger Nozzle	Hose
HotShot 3 ♦	**JAB 32305-5012-3A**	12	7.5	3	50	15	2 x 1/2" Straight Hosebarb	Inline	Standard	No
HotShot HD4 †	**JAB Q401J-118N-3A**	12	11	4	60	20		90°	Standard	No
HotShot HD4 †	**JAB Q401J-118N-4A**	12	11	4	60	20	2 x 3/4" Straight Hosebarb	90°	Standard	25' coil
HotShot HD4 †	**JAB Q402J-118N-3A**	24	6	4	60	10		90°	Standard	No
HotShot HD5 †	**JAB P501J-119N-3A**	12	16	5	70	25	1 x 3/4" GHT Adapter	90°	Standard	No
HotShot HD6 ‡	**JAB P601J-219N-3A**	12	19	6	70	25	2 x 3/4" Straight Hosebarb	90°	Deluxe	No
HotShot HD6 ‡	**JAB P601J-219N-4A**	12	19	6	70	25		90°	Deluxe	25' coil
HotShot HD6 ‡	**JAB P602J-219N-3A**	24	9.4	6	70	15	1 x 3/4" GHT Adapter	90°	Deluxe	No

Parts:

JAB 46400-0030 ♦ Pump guard, QEST port inlet/quad outlet, 1/2" H, 40 mesh, compact
JAB 46400-9500 † Pump guard, 90°, 1/2"H, quad port, 40 mesh
JAB 46400-0711 * ‡ Pump guard, 90°, 3/4"H, quad port, 40 mesh
* Special Order

Shurflo 'Blaster' II Washdown Pump

- Electro-coated motor w/o-ring seals and sealed wire entries
- Can be run dry
- 2 x 3/4" hose barbs, 1 x 3/4" GHT (M) fitting and pistol grip plastic spray nozzle
- Ignition protected
- 2 year warranty
- 9.0" x 4.9" x 4.1"



Part #	Flow	Volts	Draw	Shut Off
SHR 4238-121-E07	3.5 GPM	12	7.5 amp	45 PSI

Shurflo 'Pro-Blaster' II Washdown Pumps

- Electro-coated motor w/o-ring seals and sealed wire entries
- Can be run dry
- Strainer, 2 x 3/4" hose barbs, 1 x 3/4" GHT (M) fitting and pistol grip plastic spray nozzle
- Ignition protected
- Shut Off: 60 PSI
- 2 year warranty
- 10" x 5.0" x 4.75"



Part #	Flow	Volts	Draw	Shut Off
SHR 4248-153-E09	4 GPM	12	10 amp	60 PSI
SHR 4258-163-E09	5 GPM	24	7 amp	60 PSI



Whale Washdown 12V Pump Kits

- Adjustable trigger handset with ergonomic handle & deck protect nozzle
- 25' (7.6m) coil hose, storage bag and quick release hose connection
- Deck fitting with switch, fuse and sliding cover
- Strainer
- 2 x 1/2" barbed connections
- 7.7 lbs
- Housing size: W: 4.1" x H: 4.9" x D: 6.1"

- 3.5 GPM, 60 PSI pump
- Pump dimensions: W: 7.7 (w/filter) x H: 5" x L: 8.9"

WHA WD3517E

- 4.5 GPM, 70 PSI pump
- Pump dimensions: W: 8.3 (w/filter) x H: 5.3" x L: 9"

WHA WD4517E

Jabsco Ballast Puppy Bronze DC Pumps

- Wakeboard and ski boat ballast pump
- Flow rate: 9 US GPM
- Self-priming up to 3'
- Run-dry protection device
- Adds approximately 80 pounds of ballast water per minute
- Reversible to both fill and empty tanks (includes switch 18220-1127 only)
- Complies with USCG 183.410 and ISO 8846 Marine (Ignition Protected)
- 1" (25mm) hose barb or 1/2" NPT internal
- 12VDC, 11 amp draw
- 3-5/8" x 7-1/8" x 4-3/4"
- 6 lbs



JAB 18220-1127 With switch
JAB 18670-9127 Pump only
Parts:
JAB 6303-0007-P Impeller

Jabsco Ballast King Bronze DC Pumps

- Wakeboard and ski boat ballast pump
- Flow rate: 15 US GPM
- Run-dry protection device
- Adds approximately 125 pounds of ballast water per minute
- Reversible pump (switch not included)
- Self-priming to 4 ft.
- 1" (25mm) hose barb or 1/2" NPT internal
- 12VDC, 19 amp draw
- 25 amp fuse
- Weight: 6.6 lbs
- L: 8" x W: 4-3/4" x H: 3-5/8"



JAB 22610-9007 Pump only
JAB 22610-9427 With Deutsch connector
Parts:
JAB 23095-0007-P Impeller kit

Shurflo Piranha Aerator/Ballast Pump

- Removable cartridge for easy cleaning
- Anti-airlock feature allows the pump to clear trapped air
- Dual port fitting
- Ignition protected, ISO 8846
- Tinned 6' wire assembly
- Dimensions : 6.5" x 3.75"
- Port Size Inlet/Outlet : 3/4" NPT-M inlet x 3/4" barb outlet
- Flow Rate : 800 GPH
- Amps (Max) : 4.5
- 2 Year warranty



SHR 357-113-10
Parts:
SHR 94-620-00 Replacement pump cartridge

Whale Gulper Grouper Pump

- Non-choke electric valve technology – no impellers or filters
- Up to 22 L (5.8 US Gal) per minute
- 360° head rotation and choice of 1" or 1-1/2" hose connections
- Will run dry without damage
- Easy to maintain and clean
- IP45
- Low power consumption (dry running current 5A)
- Weight: 3.5 lb
- L: 11-4/18" x W: 11-5/16" x H: 4-5/8"



WHA BP4572 12V

Shurflo 'Pro Baitmaster' II Livewell Pump

- Seamless motor shell and sealed switch
- Can be run dry
- 1/2" hose barbs and strainer included
- Ignition & thermally protected
- For tanks under 35 gallons
- 2 year warranty
- 10" x 5.0" x 4.75"



Part #	Flow	Volts	Draw	Shut Off
SHR 4648-153-E07	4 GPM	12	8 amp	45 PSI

Rule Livewell Pump

- Withstands the pressures of high-speed water intake scoops
- High efficiency pump design
- Simple one hand 'twist and click' motor cartridge removal/replacement
- Inlets for straight thru-hull, angled thru-hull, and seacock installations
- Secondary inlet port for washdown pump connecection
- Advanced anti-airlock protection
- Flow Rate: 500 GPH
- Discharge: 3/4"
- 12V
- 3A draw
- Fuse size: 5A



RUL 601FC

T-H Marine Baitwell Overflow Filter

Install on standard 1-1/2" through hulls. The filter base installs under the through hull flange, the AFD-118 filter cap then screws on and off for easy cleaning.



THM AFD-118-DP

Attwood Mk2 Tsunami Aerator Pump

- The new Mk2 provides faster, easier service and installation, greater durability, and consistent performance
- 360° outlet requires no sealant
- Single-handed serviceable cartridge with improved grip
- Mk2 cartridges are backwards compatible
- Ignition protected
- IP68



Part #	GPH	Amps	Outlet	H x Dia
ATT 5650-4	793	4	3/4"	7-13/32" x 3-23/32"

Rule Aeration Head

The spray head streams water back into the live-well tank enriching water with oxygen.

- Use with 3/4" hose



RUL 78

Rule Variable Flow Control Valve



Allows increases and decreases of flow from the pump with no damage at all to the pump.
Range includes fully open flow to totally off.
- For use with 3/4" hose

RUL 75

Attwood Aerator Head



- Single valve aerator head
- For side mounting
- Plastic construction
- For 3/4" ID hose
- For livewell systems with built-in overflow or re-circulating systems

ATT 4125-7

T-H Marine Drain Tube



- Bait tank overflow drain tube

THM ODT-190-DP Drain tube
Parts:
THM ODTS-1-DP Filter screen for drain tube

T-H Marine Aerator Screen



- Formed stainless steel wire mesh cloth molded into a PVC base with internal threads
- Simply screws onto threaded pump intake
- Thread: 3/4"-14

THM AS-1-DP

T-H Marine Aerator Filter



- Plastic construction
- Externally installed
- Screws on over any 3/4" pump intake fitting

THM AF-1-DP

T-H Marine Bait Tank Timer



Adjustable off times for varying conditions. Simply connect wiring according to instructions provided. Front panel is 3-1/4" x 3-1/4" and requires only 3" behind panel.
- Turns pumps on & off automatically
- Solid state aerator timer - fully adjustable
- 10 amp fully waterproof circuitry
- Handles high capacity pump current draw
- Requires a 3" round or 2-1/2" square hole
- Auto spray (on) time - approximately 45 seconds
- Auto delay (off) time - 1 minute to approx. 10 minutes (max)

THM AAC-1-DP



Whale Gulper 220 Grey Water Pump

Gulper valve technology handles shower waste such as hair and gel. No clog, no filter waste pump.
- Up to 14 ltrs (3.7 US gals) per minute
- Run dry without damage and pump a mixture of air and water
- Large single diaphragm
- Virtually non-choke valves
- No filter required
- Self-priming up to 3 m (10 ft)
- Double outlet valve ensuring continuous flow
- Multi directional head
- Can be mounted almost anywhere
- Low power consumption
- Weight: 3.4 lbs (1.5 kg)
- Hose connection: 3/4" (19 mm)
- L: 10-3/4" x W: 6-13/16" x H: 4-5/8"

WHA BP1552 12V
WHA BP1554 24V
Parts:
WHA AK2050 Replacement pump head
WHA AS1562 Clamping ring kit



Whale Gulper 320 Shower/Galley Waste and Bilge Pump

The Gulper 320 pump is an easy-access, remote mount pump designed to be located high, dry, and protected.
- No clog, no filter waste pump
- Ideal where space is limited
- Head rotates 360° to suit installation
- Self-priming up to 10'; can be run dry without damage
- Ignition protected; meets requirements for primary bilge pump for boats up to 39.4'
- Installs easily even on uneven surfaces, horizontal or vertical mount
- Secure fit, new wrap-around feature has only 3 screws to secure
- Easy maintenance, simply twist and screw to lock pump head in desired position
- 5 GPM
- 3/4" and 1" port sizes
- Current draw: 7.5A @ 12VDC
- In-line fuse assembly included
- L: 11" x W: 7-3/4" x H: 4-3/4"

WHA BP2052
Parts:
WHA AK2050 Replacement pump head

► *Also See* Hose pg 10-004 to 005

Attwood Shower Sump Pump Systems Mk2

- Fast water flow into and out of sump
- Clear lid snaps in to allow quick installation and removal for cleaning
- Includes gasket to seal sump box against overflow
- Air vent prevents air lock
- Provides three inlet sizes for hooking up multiple drains
- 3/4", 3/4" or 1", and 1-1/8" or 1-1/2" ID hose, and an outlet for 3/4" ID hose
- 800 GPH
- Meets ABYC and USCG standards
- H: 4-7/16" x W: 7-23/64" x L: 13"



ATT 5143-4 12V, 5A
ATT 5144-1 24V, 2A

Rule Shower Drain Systems



- Polycarbonate snap lid cover
- Gasketed cover helps prevent water from spilling over
- Several mounting options including rear mounting flange; install the flange and anchor any of three sides
- Cut guides and drill points make installation easier
- Friction fit pump and switch
- Threaded port fittings improve installation by offering several combinations of port fittings including 3/4", 1", 1 1/8", straight and 90º elbow fittings plus 3/4" and 1" straight and elbow Flow-Rite fittings
- Easy clean scoop strainer
- Larger joker valve allows full flow through the plumbing which means more flow at higher head heights

Part #	Amps	GPH	Discharge	Size
RUL 98B	2.9@12VDC	800	3/4"	9.5" x 9" x 5"
RUL 98B-24	1.5@24VDC			
RUL 99B	3.7@12VDC	1100	1-1/8"	
RUL 99B-24	1.8@24VDC			

► *Also See* Grey Water Tanks pg 11-015

Flojet Inlet Strainers



- For fresh water use
- Stainless #40 mesh screen
- Threaded bowl for easy one handed removal
- Fits Jabsco pumps
- 7.0cm x 12.1cm x 5.7cm

FLJ 1740-012A ** 1/2" barb to quad
** While Stock Lasts

Groco Inlet Strainers



- For any size water system
- The body is nylon and the impact resistant, clear plastic sight glass easily unscrews for screen cleaning
- Use WSB (#304 40 mesh SS basket) for fresh-water filtration
- Use WSB-P (Non-metallic basket) for salt-water filtration or continuous duty AC or genset

GRO WSB-500-P 1/2" IPT, 5" x 2.9"
GRO WSB-750 3/4" IPT, 5" x 2.9"
GRO WSB-1000 1" IPT, 6.25" x 4.0"
Parts:
GRO WSA-751 S/S filter basket #750
GRO WSA-752 Gasket for #750
GRO WSA-753 Sight glass for 500/750
GRO WSA-1001 S/S filter basket #1000
GRO WSA-1002 Gasket for #1000
GRO WSA-1251 * S/S filter basket for #1250
* Special Order

Jabsco Pump Guard Filters



46200-0000

- Transparent housing allows instant inspection
- Quick in-place cleaning of the mesh stainless steel screen
- L: 4-3/4" x W: 2-3/4" x H: 2-1/2"

JAB 46200-0000 3/4" to 3/4" hose, #20 mesh screen
JAB 46200-0002 * 1/2" to 1/2" hose, #20 mesh screen

JAB 46400-0000 3/4" to 3/4" hose, #40 mesh screen
JAB 46400-0002 1/2" to 1/2" hose, #40 mesh screen
JAB 46400-0004 1/2"-1/4 pipe threaded, #40 mesh screen
* Special Order
Parts:
JAB 36403-0000 'O' Ring

Jabsco Pump Guard Filters



46400-9500

- Install in-line between bilge pick up and pump
- Transparent housing allows instant inspection
- Quick in-place cleaning of the mesh stainless steel screen
- #40 mesh screen
- L: 4-3/4" x W: 2-3/4" x H: 2-1/2"

JAB 46400-0010 3/4" hose to quad
JAB 46400-0012 1/2" hose to quad
JAB 46400-0014 1/2"-14 NPS to quad
JAB 46400-9500 Snap-in 90° quad to quad
Parts:
JAB 36403-0000 'O' Ring

Jabsco Pump Guard Filter



- Install in-line between bilge pick up and pump
- Transparent housing allows instant inspection
- Quick in-place cleaning of the mesh stainless steel screen
- #20 mesh screen
- L: 4" x W: 3" x H: 3-1/2"

JAB 36200-1000 5/8" to 5/8" hose
Parts:
JAB 44070-0000 Replacement cover bowl

Jabsco Pump Guard Filter



- For 3-5gpm Parmax pumps, Triplex pumps
- Compact design
- 1/2" QEST port male inlet, quad port male outlet
- Clip-off top allows quick in-place cleaning and removal of debris
- 40 mesh stainless steel filter screen
- L: 4-3/4" x W: 2-3/4" x H: 2-1/2"

JAB 46400-0030

Shurflo Guardian Raw Water Strainers



- Can be opened with one hand
- Clear cover with O-ring for easy inspection
- Includes hose barbs
- FNPT inlet/outlet ports

SHR 253-220-01 3/4" ports, 4-1/8" x 5-3/4"
SHR 253-320-01 1" ports, 4-1/8" x 5-3/4"

253-220-01

Shurflo Pump Strainers



255-323

- In-line potable water strainers
- Transparent design for easy visual checking
- Twist-on design
- 1/2" hose barbs or threads for connection to 1/2" NPS
- 3.5" x 2.4"

Part #	Description	Connection
SHR 255-323	Twist-On Strainer	1/2" hose barb 1/2"-14 NPS*
SHR 255-313	Twist -On Strainer	1/2"-14 NPS* 1/2"-14 NPS*

*NPS National Pipe Strait Thread

Groco Vane Pumps



- Delrin rotor and vanes - not affected by diesel fuel or oil
- Self priming to 24"
- Ports are threaded for both garden hose and 1/2" NPT (internal)
- H: 4.6" x W: 4.45" x L: 8.74"

Part #	Volts	Water	Oil
GRO SPO-60-N-12V	12	7 GPM @ 7 amps	4.5 GPM @ 17 amps
GRO SPO-60-R-12V	As above with reversing switch		

Parts:

GRO P-1 Service Kit - Shaft seal, seal snap ring, cover seal
GRO SP-95 * Motor slinger
GRO SP-98 Blade set, WSC (set of 8)
GRO SP-99 Blade set for SP-94 (set of 4)
GRO SP-99-A Rotor 8-slot
* Special Order

FYI
Rotary Vane Pumps

The rotary vane pump is constructed of materials selected for their compatibility with diesel fuel and lightweight oil, and are specifically designed for pumping these liquids. These pumps are not recommended for pumping liquids containing solids or debris.

Groco Rotary Vane Pump



The self lubricating mechanism features twin oscillating Teflon impellers which can be run dry without damage and the twin chambers deliver a smooth, pulsation free flow. The pump requires an external drive. Use a belt and pulley system or an electric motor with a P-7005 direct drive coupling set.

- Inlet and outlet: 3/4" NPT (internal)
- Water, diesel and oil capable
- Self priming to 10'
- Reversible, continuous duty
- Bronze body
- 1/2" stainless steel shaft
- Carbon-graphite bearings
- H: 5.5" x L: 6.8"

Part #	GPM	PSI	RPM
GRO P-9000 *	11.5	60	1750

Parts:

GRO P-9014-SET Impeller set
GRO P-9005 Seal, for units pre 1985
* Special Order

Jabsco Reversing Vane Puppy



- Fitted with reversing switch
- Body: Bronze
- Rotor: plastic - liquid crystal polymer
- Vanes: plastic - polyphenylene sulfide
- Seal: Lip Type, Nitrile
- Permanent magnet motor, intermittent duty, fully enclosed, stainless steel shaft
- Ports: 1/2" NPT internal pipe threads 1" (25mm) external hose barb
- Self priming up to 3' vertical lift
- 22°F to 100°F operating temperature range
- Duty cycle: 30 minutes at 10' (3 metres)
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection)
- H: 3-1/4" x L: 8" x W: 4-3/4"

Part #	VDC	GPM
JAB 18680-1000	12	5@10'

Jabsco Continuous Duty Vane Pump



- Continuously rated heavy duty diesel refuelling pump
- Self priming up to 16' (5m)
- Connections for 1" (25mm) ID hose
- Switch and circuit breaker fitted as standard
- Cast iron bodies, brass rotors and bronze or steel vanes
- Pumps 14 gallons per minute
- H: 5-3/4" x W: 5" x L: 8-1/2"

Part #	VDC	Amps	GPM
JAB VR050-1022 **	12	12	14

** While Stock Lasts

Note: This pump is recommended for transferring diesel fuel only. Pumping other liquids can damage pump.

FYI

Flexible Impeller Pumps

The flexible impeller design make these pumps self-priming so they can be mounted above and away from the bilge area. Ideal for bilge pumping, deck wash down or general purpose applications. Dry lifts to 10 feet, up to 25 feet when wetted. Flexible impellers are lubricated by the liquid being pumped.
Do Not Run Dry.
Do Not Use For Gasoline Transfer.

Jabsco Bronze AC Flexible Impeller Pump



For dockside general purpose pumping and some onboard applications.

- Oil transfer
- Body & Pump head: Bronze
- Impeller: Nitrile compound
- Motor has replaceable brushes, stainless steel shaft and a 6' cord
- Ports: 3/8" Internal pipe thread and adaptors for 3/4" garden hose thread
- Weight: 5 lb (2.3 kg) (approx.)
- H: 3-5/8" x W: 4" x L: 6-7/8"

Part #	Volts	GPM@10'	PSI
JAB 12210-0003	115	3.4	4.3

Parts:

JAB 1414-0003-P Nitrile replacement impeller

Jabsco Commercial Duty Water Puppy



Bilge debris presents no problem to this bronze bodied, flexible impeller pump. Good for bait tank circulation, livewell aerator, anchor washdown and windshield wash.

- Impeller: Nitrile compound
- Seal: Lip type
- Ports: 1/2" internal pipe threads
- Motor: Permanent magnet type, fully enclosed, stainless steel shaft, ball type shaft bearing
- Self-priming up to 8' (2.4m) vertical
- Oil transfer
- Includes 1" external hose barb adaptors for 3/4" garden hose thread
- H: 3-1/2" x L: 7-1/8" x W: 4-3/4"
- Weight: 6 lb (2.7 kg)

Part #	VDC	GPM@10'	Amp Draw	Fuse
JAB 18670-0123	12	6.5	11.5	15
JAB 18670-0943	24	6.5	5	10

Parts:

JAB 6303-0003-P Nitrile replacement impeller

Jabsco Water Puppy



- Bronze body with removable end cover
- Ports: 1" hose barbs and 1/2" NPT (internal)
- Plastic adapters for garden hose thread
- Self priming to 4'
- Non reversible
- H: 3-3/8" x W: 4-3/4" x L: 6-3/8"

Part #	VDC	GPM	Amp Draw
JAB 18660-0121	12	5.3	7.5

Parts:

JAB 6303-0001-P Neoprene replacement impeller

Jabsco Bronze AC Flexible Impeller Pump



Ideal for dockside general purpose pumping and some onboard applications.

- Body: Bronze construction, bronze pump head
- Impeller: Nitrile compounds
- Ports: 3/4" Garden hose and 1/2" NPT internal
- Motor: 1/3 HP, 115V, 1725 RPM, ODP motor
- Handle and 8' cord with 3 prong grounded plug
- 9.5 GPM (36 LPM) output at 10' (3 m) total head
- Continuous duty motor with thermal over-load protection
- 8 foot power cord with grounded plug
- Convenient carrying handle
- Oil transfer
- L: 10-1/2" x W: 5-23/32" x H:7-3/4"

Part #	Volts	GPM	Weight
JAB 11810-0003	115	9.5	20 lbs

Parts:

JAB 5929-0003-P Nitrile replacement impeller
JAB 11830-0000 End cover
JAB 92700-0420 Seal (J)
JAB 490-0001 Cam (brass)

Jabsco Flexible Impeller Pump



Bronze AC motor pump unit is ideal for holding tank pump outs, general purpose dockside pumping and some on-board applications as well as large de-watering or washdown applications.

- Motor: 3/4 hp ODP
- 8' power cord, 3 prong grounded plug
- Thermal overload protected
- Oil transfer
- Self priming
- Dry lift: 10', Primed lift: 22'
- W: 8-19/32" x L: 13" x H: x 8-5/8"

Part #	Volts	GPM	Ports	Weight
JAB 6050-0003	115 or 230	23	1" NPT	35 lbs

Parts:

JAB 6056-0003-P Nitrile replacement impeller
JAB 11831-0000 End cover
JAB 890-0000 Gasket
JAB 92700-0080 Lip seal
JAB 934-0000 Cam

Jabsco

Flexible Impeller Pulley Driven Pedestal Pumps

Jabsco flexible impeller pedestal mount corrosion resistant bronze pumps are ideal for engine cooling, washdown, circulation, and many general purpose on-board or dockside applications. The bronze or stainless steel shaft is installed with permanently lubricated ball bearings for long life and heavy duty service. Self-priming with the ability to operate in either direction at variable speeds and can pass small solids without jamming. Removable end cover allows for easy impeller service in just minutes without disconnecting drive or port connections.The standard impeller for these model pumps is neoprene which offers the best performance for pumping of water in engine cooling, washdown or circulation applications.

Jabsco 11.3 GPM Pump



- A moderate sized pedestal mount flexible impeller utility pump
- Flow rate of 11.3 US GPM at 10' total head @ 1750 rpm
- Horizontally oriented ports
- L: 4-7/16" x W: 4-1/8" x H: 3-13/16"
- Fitting: 1/2" NPT

JAB 1673-1001

Stocked Parts	Description	Uses
JAB 1210-0001-P	Neoprene impeller	1
JAB 1210-0003-P	Nitrile impeller	1
JAB 490-0001	Full Cam	1
JAB 92600-0120	Bearing	2
JAB 92700-0060	Seal	1
JAB 18753-0133	"O" Ring set	1
JAB 1835-0000	End cover gasket	1

Jabsco 26 GPM Pump



- A mid-size sized pedestal mount flexible impeller utility pump
- Flow rate of 26 US GPM at 10' total head @ 1750 rpm
- Horizontally oriented ports
- L: 6-5/16" x W: 4-3/4" x H: 3-9/16"
- Fitting: 1" NPT

JAB 777-9001

Stocked Parts	Description	Uses
JAB 890-0000	Gasket	1
JAB 934-0000	Cam (Brass)	1
JAB 3181-0000	Slinger	1
JAB 4156-0000	Wear plate	1
JAB 11831-0000	End gasket	1
JAB 17937-0001-P	Impeller	1
JAB 18713-0000	Retaining ring (shaft)	1
JAB 18724-0000	Retaining ring (body)	1
JAB 91003-0010	Screw (end cover)	6
JAB 91004-0090	Screw (cam)	1
JAB 96080-0080	Seal (face)	1

Jabsco 5.8 GPM Pump



A moderate sized pedestal mount flexible impeller utility pump

- Flow rate of 5.8 US GPM at 10' total head @ 1750 rpm
- 45° oriented ports.
- L: 5-15/16" x W: 3-1/2 x H: 3-5/18"
- Fitting: 3/8" NPT

JAB 2620-1101

Parts:

JAB 18673-0001-P	Neoprene impeller
JAB 92700-0050	Seal
JAB 2995-0000	Gasket kit

Jabsco 62 GPM Pump



- A mid-size sized pedestal mount flexible impeller utility pump
- Flow rate of 62 US GPM at 10' total head @ 1750 rpm
- Horizontally oriented ports
- L: 8-1/16" x W: 5-7/8" x H: 4-7/8"
- Fitting: 1-1/4" NPT

JAB 6400-0004

Stocked Parts	Description	Uses
JAB 816-0000	Gasket (for full cam)	1
JAB 817-0000	Bearing Seal (inner)	1
JAB 818-0000	Bearing Seal (outer)	1
JAB 834-0001	Cam (full)	1
JAB 836-0003-P	Impeller Nitrile	1
JAB 3181-0000	Slinger	1
JAB 2574-0000	Wear plate	1
JAB 6407-0010	Seal Assembly	1
JAB 12062-0000	End Cover	1
JAB 17935-0001-P	Impeller Neoprene	1
JAB 18711-0000	Retaining Ring (3/pkg)	1
JAB 91005-0040	Screw End Cover	5
JAB 92600-0040	Ball Bearing	1

Jabsco 83 GPM Pump



- The largest of the pedestal mount flexible impeller utility type pumps
- Flow rate of 83 US GPM at 10' total head @ 1750 rpm
- Horizontally oriented ports
- L: 8-1/16" x W: 4-3/4" x H: 3-9/16"
- Fitting: 2" NPT

JAB 18370-0000

Stocked Parts	Description	Uses
JAB 816-0000	Gasket	1
JAB 818-0000	Outer Bearing Seal	1
JAB 2574-0000	Wearplate	1
JAB 6988-0000	Cam	1
JAB 12062-0000	End Cover	1
JAB 17936-0001-P	Neoprene Impeller	1
JAB 91005-0040	Screw (end cover)	6

Jabsco
78 GPM Electromagnetic Clutch and Pump

Electrically activated clutch pump offers all the benefits of flexible impeller pumps with horizontally oriented ports.



- Body: Bronze construction
- Impeller: Nitrile compounds
- Ports: 2" NPT internal
- 78 GPM (314 LPM) output at 10' (3m) total head @1750 RPM.
- Self-priming to 15'
- Double A groove pulley
- L: 12-7/16" x W: 5-15/16" x H: 5-3/4"

JAB 18330-0000 12V

Stocked Parts	Description	Required
JAB 816-0000	Gasket O-ring	1
JAB 2574-0000	Wear plate	1
JAB 6760-0003-P	Impeller nitrile	1
JAB 12062-0000	End cover	1
JAB 91005-0040	End cover screws	5
JAB 92300-0030	Clutch (12v-2-A Grooves)	1



Jabsco
62 GPM Electromagnetic Clutch and Pump

Electrically activated clutch pump offers all the benefits of flexible impeller pumps with horizontally oriented ports.

- Body:Bronze construction
- Impeller: Nitrile compounds
- Ports:1-1/4" NPT internal
- 62 GPM (235 LPM) output at 10' (3m) total head @1750 RPM
- Self-priming to 15'
- 7" double pulley
- L: 8-3/16" x W: 5-7/8" x H: 5-1/2"

JAB 11870-0005 12V
JAB 11870-0006 * 24V

Stocked Parts	Description	Required
JAB 816-0000	Gasket O-ring	1
JAB 834-0001	Cam	1
JAB 836-0003-P	Impeller nitrile	1
JAB 817-0000	End seal	1
JAB 2574-0000	Wear plate	1
JAB 6407-0010	Water seal	1
JAB 12062-0000	End cover	1
JAB 91005-0040	Cover screws	5
JAB 92300-0030	Clutch (12v-2-A Grooves)	1

* Special Order - may have stock

Jabsco
26 GPM Electromagnetic Clutch and Pump

Electrically activated clutch pump offers all the benefits of flexible impeller pumps with horizontally oriented ports.



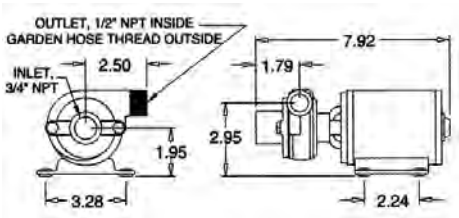
- Body: Bronze construction
- Impeller: Nitrile compounds
- Ports:1" NPT internal
- 26 GPM (98 LPM) output at 10' (3m) total head @1750 RPM
- Self-priming to 15'
- 7" double pulley
- L: 6-3/16" x W: 4-3/4" x H: 3-3/4"

JAB 11860-0005 12V

Stocked Parts	Description	Required
JAB 890-0000	Gasket O-ring	1
JAB 913-0000	Oil seal	1
JAB 920-0003-P	Impeller nitrile	1
JAB 934-0000	Cam	1
JAB 4156-0000	Wear plate	1
JAB 11831-0000	End cover	1
JAB 91003-0010	Cover screws	5
JAB 91004-0090	Cam screw	1
JAB 92300-0030	Clutch (12v-2-A Grooves)	1
JAB 96080-0080	Water seal	1

FYI
Centrifugal Pumps

Centrifugal pumps, such as the Jabsco Centri-Puppy and the Groco Circulating Pump, operate quietly which makes them ideal for general circulation and liquid transfer, when silence is a requirement. Because of design characteristics, centrifugal pumps allow discharge flow rates to be regulated or restricted without causing damage. As centrifugal pumps are not self-priming, they should be located below the liquid source to provide a gravity feed to the pump inlet.



Groco Circulating Pump



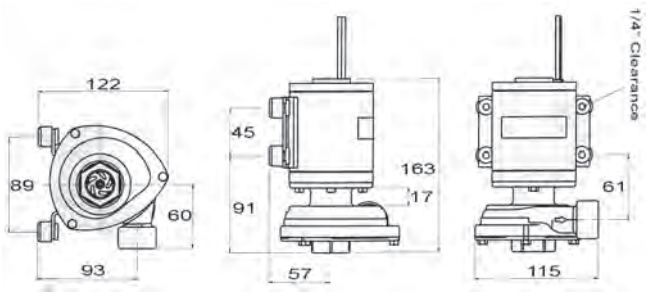
- Rated for continuous duty
- Rotary shaft seal
- Ideal for hot or cold water circulation
- Fuse/breaker required

Part #	VDC	GPM	Port: In/Out
GRO CP-20-12V	12	17@3'	3/4" / 1/2"

Parts:

GRO 12V-B *	Spare motor 12V
GRO CP-55	Impeller
GRO CP-56	Gasket for CP-20
GRO P-2	Repair kit†

* Special Order
† Includes seal assembly, gasket, seal, seal snap ring



Jabsco Cyclone Centri-Puppy



For circulation applications such as hot water systems, livewell or bait tank installations.

- Stainless steel construction
- One tool servicing (3/8" spanner)
- Silent running centrifugal pump
- Long-life DC motor
- Rotatable head 90° segments
- Anti-clogging impeller design
- Long-life mechanical seal
- Weight: 6.3 lbs
- L: 6" x W: 6-1/2" x H: 5"

Part #	VDC	GPM	Ports	Fuse
JAB 50840-0012	12	29	3/4" NPT	10 amp

Parts:

JAB 50835-0000 * Seal kit

* Special Order



Jabsco Magnetic Drive Centrifugal Pumps

For applications requiring safe, leak-free, continuous flow of aggressive chemicals, acids, alkalis, pure and chilled fluids.

- Manufactured in chemical resistant thermo plastics - entirely non-metallic
- Magnetic couplings provide an energy efficient thermal shield, minimising heat transfer to the pumped fluid
- IPX5 standard motor housing
- Deep groove ball bearing
- 110 VAC

Part #	GPM	Ports	Fuse	Weight	H x W x D
JAB 436977	10.5	1/2" NPT	1.0 amp	5.95 lbs	5.62" x 8.4" x 4.0"
JAB 436981	21	3/4" NPT	1.5 amp	6.83 lbs	5.62" x 8.6" x 4.0"

March Pump 809-PL-C & 809-PL-HS-C Centrifugal Magnetic Drive Pumps

Seal-less pump for circulation applications such as hot water systems and solar heating.

- Polysulfone front housing and stainless steel rear housing and shaft
- Inlets: 3/8" FPT & 3/4" MPT
- Outlet: 1/2" MPT
- Max internal pressure 50 PSI
- Max liquid temp 121°C
- L: 7.83" (7.85" on 24V 809-PL-C) x W: 4.5" x H: 4.56"

809-PL-C

NEW



- Max flow 6 GPM, Max head 7.1'

MRP 0809-0190-0100 12V
MRP 0809-0190-0300 24V

809-PL-HS-C

- Max flow 8 GPM, Max head 15.5'

MRP 0809-0180-0300 12V
MRP 0809-0180-0400 24V

March Pump LC-2M-MD Submersible Centrifugal Magnetic Drive Pump

Seal-less pump for either submersible or open air use.

- Polypropylene front housing, nylon rear housing, and stainless steel shaft
- Max flow 5 GPM, Max head 13' @ 60 Hz
- Max flow 4.9 GPM, Max head 8.9' @ 50Hz
- Inlets: 3/8" FPT & 3/4" MPT
- Outlet: 1/4" MPT
- Max internal pressure 25 PSI
- Max liquid temp 54°C
- IP67
- Ignition protected
- L: 6.11" x W: 5.56" x H: 4.67"

NEW



MRP 0125-0141-0100 115V

Accessories:

MRP 0125-0144-0100 Wet end kit

March Pump LC-3M-MD Submersible Centrifugal Magnetic Drive Pumps

Seal-less pump for either submersible or open air use.

- Polypropylene front and rear housing, and ceramic shaft
- Max flow 8.5 GPM, Max head 19' @ 60Hz
- Max flow 8.2 GPM, Max head 14.1' @ 50Hz
- Inlet: 3/4" FPT
- Outlet: 1/2" MPT
- Max internal pressure 25 PSI
- Max liquid temp 54°C
- IP67
- Ignition protected
- L: 7.38" x W: 5.56" x H: 5.55"

NEW



MRP 0130-0177-0100 115V
MRP 0130-0178-0100 230V

Accessories:

MRP 0130-0186-0100 Wet end kit

March Pump LC-5C-MD
Submersible Centrifugal Magnetic Drive Pumps

Seal-less pump commonly used for marine air conditioning in both submersible or open air use.

- Polypropylene front and rear housing, and ceramic shaft
- Fresh and salt water pump
- Max flow 14.5 GPM, Max head 27' @ 60Hz
- Max flow 14.5 GPM, Max head 19.6' @ 50Hz
- Inlet: 1" FPT
- Outlet: 1/2" MPT
- Max internal pressure 25 PSI
- Max liquid temp 54°C
- L: 9.85" x W: 5.63" x H: 7.14"

NEW



MRP 0150-0004-0500 115V
MRP 0150-0004-0600 230V

March Pump AC-5M-MD
Centrifugal Magnetic Drive Pumps

Seal-less pump ideal for applications such as chemical recirculation, chemical transfer, and scrubber systems.

- Noryl front housing, polypropylene rear housing, and ceramic shaft
- Max flow 17 GPM, Max head 27' @ 60Hz
- Max flow 15.9 GPM, Max head 19.7' @ 50Hz
- Inlet: 1" FPT
- Outlet: 1/2" MPT
- Max internal pressure 50 PSI
- Max liquid temp 87°C
- L: 9.27" x W: 4.38" x H: 6.34"

NEW



MRP 0150-0251-0100 115V
MRP 0150-0252-0100 230V

Accessories:

MRP 0150-0277-0100 Wet end kit

Jabsco Sherwood Type Engine Cooling Pump

These engine cooling pumps directly replace Sherwood models. They are constructed with an all bronze body, bearing housing and stainless steel shaft in order to withstand harsh marine environments. Typical flow in average engine cooling application at 2000 RPM is 20 GPM (75.7 l/min.)

- Port size: 1-1/4" ID hose



Part #	Sherwood #	Application	Drive
JAB 18930-0000 **	G-45-1	Chris Craft	Pulley adapter

Parts:

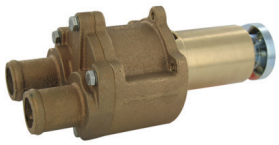
JAB 96080-0080 Seal assembly
JAB 18753-0005 "O"-ring

** While Stock Lasts

Jabsco
Mercruiser Type Engine Cooling Pump

Replaces Mercruiser #46-72774-A32, has replaceable cam and wear plate.

- Body: Bronze, one-piece, bronze end plate
- Impeller: Neoprene
- Shaft: Stainless steel
- Ports: 1-1/4" Hose barb
- Seal: Lip type
- Bearings: Sealed ball type
- Left or right hand rotation



JAB 43210-0001

Parts:

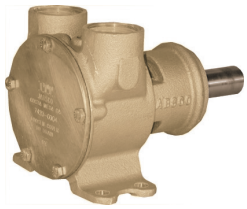
JAB 17954-0001-P Neoprene impeller
JAB 18753-0328 * Water Seal

* Special Order

Jabsco Caterpillar Engine Cooling Pump

Semi positive displacement design that has superior priming ability, is compact with simple mechanical characteristics that will ensure trouble free running and long life. 1-1/4" universal pump with neoprene impeller, half cam and mechanical seal, and short shaft for caterpillar engines.

- L: 8-1/16" x W: 5-1/8" x H: 5-1/16"



JAB 7420-1001

Parts:

JAB 17935-0001-P Neoprene impeller
JAB 21849 Water Seal

Jabsco Engine Cooling Pump

- Raw water pump for PCM/Crusader (Serpentine Belt Driven) Engines
- OEM #: RA057032
- Fits: PCM 6.0L



JAB 50460-1201

Jabsco Crusader Type Engine Cooling Pump

A direct replacement for the stock Crusader pump Part #97179. It fits most pre-1993 Crusader engine models, accepts Crusader drive pulley and bolts directly to the stock mounting bracket. It has a replaceable wearplate and the seal can generally be replaced without even removing the pump shaft. The impeller will fit either the stock Crusader pump or the upgraded Jabsco model.

- Fittings: 1" NPT internal
- L: 4-15/16" x W: 4-7/8" x H: 4-1/4"



JAB 42730-0000

Parts:

JAB 4156-0000 Wear plate
JAB 18948-0001-P Neoprene impeller
JAB 96080-0080 Water seal



EMP Water Circulating Pump

Part #	Description
EMP 95-03599	For small block engines Replaces: Chrysler MW02 for GM V8 Crusader 20318 V8 Indmar S551045 V8 Mercury 8M0113734 - Fits MerCruiser 6-cyl 140-200 HP GM & MIE engines OMC 3853850 - Fits OMC 4-cyl 100-140 HP, 6-cyl 165 HP, V6 150-165 HP, V8 170-350 GM engines Pleasurecraft RA0057018 V8 Volvo 21124846 - Fits GM V6 & V8 with stamped or composite timing covers Sierra 18-3599-2

Sierra Water Pumps



Mercruiser: Replaces: Mercruiser 71683A1, 883885 Mercruiser 215 to 255 & 888 For: Ford small block V-8 engines.
OMC/Cobra Replaces: 982517, 3853796, 982515
Volvo Penta Replaces: 3853796

SIE 18-3584-1



Volvo: Replaces: 841640-6
Replaces: Johnson Pump 10-24228-1
Replaces: Indmar 685011
Pleasurecraft Replaces: RA057019
▪ Crank shaft mounted

SIE 18-3586-1
Parts:
SIE 18-3081 Impeller kit



Replaces: Johnson Pump 10-24232-1
Replaces: Indmar 685001
Pleasurecraft Replaces: RA057004
▪ Crank shaft mounted

SIE 18-3587-1
Parts:
SIE 18-3089 Water pump kit



Replaces: Mercury #46-879194401
For: V6 MCM SN: 1A063240 (2007) - Current

SIE 18-3506-1



Mercruiser: Replaces: 884727
For Late Model 4 cyl GM engines requiring hose fitting

SIE 18-3593



46-00091

EMP Water Pump Kits - Inboard

Part #	Description
EMP 46-00090	Mercury 96148Q8 / Sierra 18-3517 Fits Mercury/Mariner V6, 135-225 HP outboards
EMP 46-00091	Mercury 89984Q5 / Sierra 18-3217 Fits MerCruiser MC-1 & R water pumps, serial numbers 2763442-6854392
EMP 46-03638	OMC 984461 / Sierra 18-3348 Fits Cobra 3.0L 4-cyl 120-130 HP, 4.3L V6 160-165 HP, 5.0-7.5L V8 185-440 HP water pumps
EMP 46-13159	Mercury 807151A14 / sierra 18-3150 Fits MerCruiser V8, 200-575 HP Alpha One, Alpha Gen II, Bravo, SSM & Dry Six drive water pumps



EMP Water Pump Kits - Outboard

Part #	Description
EMP 46-01811	Honda 19021-ZW1-0003 / Mercury 43026 / Force 8M0100526 / Sierra 18-3265
EMP 46-07300	Johnson/Evinrude 5001595 / Sierra 18-3315-2 V4 90-140 HP, V6 150-225 HP, V8 250-300 HP outboard water pumps with housings that DO not contain a bleed/ relief hole
EMP 46-46245	Yamaha 61A-W0078-A1-00, 6N6-W0078-02-00/ Sierra 18-3396-1, 18-3313-1, 18-9079 Fits Yamaha 2-stroke 115-300 HP (1993 & up); 4-stroke 115-225 HP (2002 & up)



EMP Water Pump Impeller Kit

Part #	Description
EMP 47-07205K	Jabsco 13554-0001 / Johnson Pump 09-812B / Sierra 18-3306 Fits Johnson Pump & Jabsco water pumps. Neoprene, includes o-ring and gasket, spline hub, ID 14.29mm, OD 57mm, W 48.2mm, 12 blade



Sierra Water Pump Kits - Mercruiser I/O's

Part #	Description
SIE 18-3016-1	With gasket - Replaces: 47-862232A2 For: Late-model Bravo & High Performance. Includes 350 Mag., 4.3L., 496 Mag., 5.0L., 8.1S and MX 6.2L
SIE 18-3147	Replaces: 817275T4 For: Gen II-Lower s/n D469859 and Up
SIE 18-3150	Replaces: 46-807151A14 For: Bravo
SIE 18-3214	Replaces: 47-43026T6, T8, T11 For Alpha I - Generation II S/N D494569 & Above Mercruiser Vazer
SIE 18-3217	For #1 Units thru S/N D494568 (Similar to #46-96148A5 without base or housing)
SIE 18-3237	For: Bravo I, II, III (1988 & up) B664190 & up Fits Bravo drives with 1 piece housing
SIE 18-3317	For: #1/R Units without flush S/N 2763442-6854392
SIE 18-3320	For: MR/Alpha I Units S/N 6854393-OD469858
SIE 18-3517	No Base - Replaces: 46-96148A5,46-60367A1, 46-96148A8



Sierra
Water Pump Impeller Kits - Volvo/Penta I/O's

Part #	Description
SIE 18-3038	NITRILE Replaces: 877061-2, 3841697 For: AQ 30, 31, 40, 41 AQD 19, 27, 29, 32, KAD/KAMD 42A, B, P, MD, 19, 27, 29, 32, TAMD 60A, B, C
SIE 18-3047	Replaces: 835874 Sherwood 10615K, Jabsco 18948-0001 12 FINS
SIE 18-3060	Replaces: 835512, 3854286 Sherwood 9959, Jabsco 18838-0001 Oberdorfer 132-0317 OMC 3854286 Neoprene, 12 FINS
SIE 18-3061	Replaces: 835874, Sherwood 0615K, Jabsco 18948-0001 Neoprene 12 FINS For: GM engines with V-Belt
SIE 18-3046	Replaces: 3854286
SIE 18-3075	Replaces: 875575, Jabsco 2877-0001, 4568-0001, Johnson 09-801B, Oberdorfer B6620 12 FINS Neoprene
SIE 18-3076	Replaces: 875583, 833995 Jabsco 22405-0001 Johnson Pump 09-45589, 09-808B 6 FINS, Neoprene
SIE 18-3077	NEOPRENE Replaces: 877061-2, 3841697 For: AQ 30, 31, 40, 41 AQD 19, 27, 29, 32, KAD/KAMD 42A, B, P, MD, 19, 27, 29, 32, TAMD 60A, B, C
SIE 18-3078 **	NEOPRENE Replaces: 875736, 875660, 2430184 Jabsco 836-0003, Johnson Pump 09-1029B-9 For:AQ, AD 40 A, B, TAMD 40 A, B, TAMD 61-62 A, 71-72A
SIE 18-3079	Replaces: 875807-0, 3586498 Johnson Pump 09-806B Sherwood 9979K 6 FINS Neoprene Jabsco 4528-0001 Side Width 3/4" Dia. 1 9/16"
SIE 18-3081	Replaces: 875811-2, 3858256, 3862281 OMC 3858256 Johnson Pump 09-1027B Neoprene 12 SPLINES 12 FINS Jabsco 1210-0001
SIE 18-3089	Replaces: 09-45825 Johnson Pump For 18-3587 Pump
SIE 18-3275	Volvo 877066 Fits: TAMD74A, A-A, A-B (2000-2005); TAMD74C-A, C-B (2000- 2005); TAMD74L-A, B (1999-2005); TAMD74P-A, P-B (1998-2005); TAMD75P-A (1998-2005); TAMD71B (1989-2000); TAMD73P-A (1997-1998); TAMD73WJ-A (1997-1999).
SIE 18-3276-1	Replaces: 3862567, 21213660 Fits: Volvo (1999 and Later)
SIE 18-3277	Replaces: 3862281, Yanmar 192470-42530, 192470-42532 Fits: Volvo (19 98 and Earlier), Johnson Pump 09-102 BB
SIE 18-3287	Replaces: 876120 Fits:431A, BB231A, 570A, 571A, 572A, 740A, 740B, AQ200D, AQ205A, AQ225D, AQ255B, AQ260A, AQ260B, AQ271A, AQ271B, AQ271C, AQ271D, AQ280A, AQ290A, AQ311A, AQ311B, BB225A, BB225AV, BB225B, BB260A, BB260AV, BB261A
SIE 18-30778	Replaces: 21213664 Fits: Gas GM engines 2005 & Up

** While Stock Lasts

For a complete list of all available items Ask for a Sierra Catalogue



Sierra
Water Pump Impeller Kit - OMC Sterndrive/Cobra

Part #	Description
SIE 18-3286	1964-86 EXCEPT COBRA

Sierra
Water Pump Impeller Kits - Outboards

Part #	Description
SIE 18-3306	**Johnson/Evinrude Outboards** Replaces: Jabsco 13554-0001, Yanmar 119773-42600-00 DIA 2 1/4" SIDE WIDTH 1 15/16", (Neoprene)
SIE 18-3265	**Mercury 47-43026Q06** For:135/150/175 4-Stroke Verado (S/N 1B227000 & Up),200/225 4-Stroke Verado (S/N OT980000 & Up), 250/275 4-Stroke Verado (S/N OT801000 & Up)



Sierra
Impeller Kit - Jabsco Pumps

Part #	Description
SIE 18-3306	Replaces: Jabsco 13554-0001, Yanmar 119773-42600-00 DIA 2 1/4" SIDE WIDTH 1 15/16", (Neoprene)

Jabsco Impeller Pullers



- Simple three stage operation easily removes the impeller
- Removes the risk of expensive damage to the pump
- Manufactured from corrosion resistant cast aluminum and stainless steel

JAB 50070-0200 Impellers from 2-9/16" to 4-5/8"
JAB 50070-0040 Impellers from 1-3/16" to 2-9/16"

Sea-Dog Impeller Pullers



- Allows easier removal of flexible impellers from pumps
- Corrosion resistant investment cast 316 stainless steel
- Thread pitch: 12mm - 1.75

SED 660040 Small, for 2-1/4" to 2-9/16" impellers
SED 660020 Large, for 3-1/16" to 5" impellers

Part Number	No of Blades	Drive Type	Impeller Diameter Inch (mm)	Impeller Width Inch (mm)	Shaft Diameter Inch (mm)	Material	Insert Material
JAB 1414-0003-P	6	4	1-1/4" (32)	15/32" (12)	5/16" (8)	Nitrile	Brass
JAB 4528-0001-P	6	1 or 2	1-9/16" (40)	3/4" (19)	3/8" (10)	Neoprene	Brass
JAB 4528-0003-P	6	1 or 2	1-9/16" (40)	3/4" (19)	3/8" (10)	Nitrile	Brass
JAB 22405-0001-P	6	1	1-9/16" (40)	3/4" (19)	15/32" (12)	Neoprene	Brass
JAB 17255-0003-P *	6	-	1-9/16" (40)	3/4" (19)	1/4" (6)	Nitrile	- †
JAB 653-0001-P *	6	1	2" (51)	7/8" (22)	15/32" (12)	Neoprene	Brass
JAB 7273-0001-P	6	4	2" (51)	7/8" (22)	5/16" (8)	Neoprene	Plastic
JAB 7273-0003-P	6	4	2" (51)	7/8" (22)	5/16" (8)	Nitrile	Plastic
JAB 6303-0001-P	6	4	2" (51)	7/8" (22)	5/16" (8)	Neoprene	Plastic
JAB 6303-0003-P	6	4	2" (51)	7/8" (22)	5/16" (8)	Nitrile	Plastic
JAB 6303-0007-P	6	4	2" (51)	7/8" (22)	5/16" (8)	Polyurethane	Plastic
JAB 5616-0001-P	6	6	2" (51)	7/8" (22)	1/2" (13)	Neoprene	Brass
JAB 14750-0003-P	8	4	1-1/4" (32)	15/32" (12)	5/16" (8)	Nitrile	Brass
JAB 920-0001-P	8	7	2-9/16" (65)	2" (51)	5/8" (16)	Neoprene	Brass
JAB 920-0003-P	8	7	2-9/16" (65)	2" (51)	5/8" (16)	Nitrile	Brass
JAB 4598-0001-P	8	3	2-9/16" (65)	2" (51)	5/8" (16)	Neoprene	Brass
JAB 4598-0003-P	8	3	2-9/16" (65)	2" (51)	5/8" (16)	Nitrile	Brass ♦
JAB 6056-0003-P	8	6	2-9/16" (65)	2" (51)	5/8" (16)	Nitrile	Brass ♦
JAB 11979-0001-P	8	7	2-9/16" (65)	1-7/16" (37)	5/8" (16)	Neoprene	Brass
JAB 17018-0001-P	8	7	2-9/16" (65)	3" (76)	5/8" (16)	Neoprene	Brass ‡
JAB 836-0001-P	9	7	3-3/4" (95)	2-1/2" (63)	1" (25)	Neoprene	Brass
JAB 836-0003-P	9	7	3-3/4" (95)	2-1/2" (63)	1" (25)	Nitrile	Brass
JAB 6760-0003-P	9	7	3-3/4" (95)	3-1/2" (89)	1" (25)	Nitrile	Brass
JAB 31130-0061-P	10	7	2-19/32" (66)	2-11/16" (68)	5/8" (16)	Neoprene	Brass ‡‡
JAB 9200-0001 *	10	4	1-19/32" (41)	3/4" (19)	5/16" (8)	Neoprene	Plastic
JAB 9200-0023-P	10	4	1-19/32" (41)	3/4" (19)	5/16" (8)	Nitrile	Brass
JAB 18777-0001-P	10	7	2-1/4" (57)	2" (51)	5/8" (16)	Neoprene	Brass
JAB 18653-0001-P	10	1	2" (51)	7/8" (22)	15/32" (12)	Neoprene	Brass
JAB 18673-0001-P	10	1 or 2	2" (51)	7/8" (22)	1/2" (13)	Neoprene	Brass
JAB 18673-0003-P	10	1 or 2	2" (51)	7/8" (22)	1/2" (13)	Nitrile	Brass
JAB 3085-0001-P	10	7	2-1/4" (57)	1-1/4" (32)	1/2" (13)	Neoprene	Brass
JAB 17954-0001-P	10	4	2-9/16" (65)	2" (51)	3/4" (19)	Neoprene	Brass ‡‡
JAB 17956-0001-P *	10	6	2-9/16" (65)	2" (51)	5/8" (16)	Neoprene	Brass
JAB 17937-0001-P	10	7	2-9/16" (65)	2" (51)	5/8" (16)	Neoprene	Brass
JAB 18327-0001-P *	10	3	2-9/16" (65)	2" (51)	5/8" (16)	Neoprene	Brass ††
JAB 18958-0001-P	12	3	3-1/4" (83)	2-57/64" (73)	25/32" (21)	Neoprene	Brass ††
JAB 1210-0001-P	12	7	2-1/4" (57)	1-1/4" (32)	5/8" (16)	Neoprene	Brass
JAB 1210-0003-P	12	7	2-1/4" (57)	1-1/4" (32)	5/8" (16)	Nitrile	Brass
JAB 4568-0001-P	12	3	2-1/4" (57)	1-1/4" (32)	5/8" (16)	Neoprene	Brass
JAB 5929-0001-P *	12	6	2-1/4" (57)	1-1/4" (32)	1/2" (13)	Neoprene	Brass
JAB 5929-0003-P	12	6	2-1/4" (57)	1-1/4" (32)	1/2" (13)	Nitrile	Brass
JAB 13554-0001-P	12	7	2-1/4" (57)	1-29/32" (48)	5/8" (16)	Neoprene	Brass
JAB 17370-0001-P	12	5	3-3/4" (95)	3-1/2" (89)	1" (25)	Neoprene	Plastic
JAB 17935-0001-P	12	7	3-3/4" (95)	2-1/2" (63)	1" (25)	Neoprene	Brass
JAB 17936-0001-P	12	7	3-3/4" (95)	3-1/2" (89)	1" (25)	Neoprene	Brass
JAB 18838-0001-P	12	3	2-7/16" (62)	1-1/4" (32)	5/8" (16)	Neoprene	Brass ††
JAB 18948-0001-P	12	3	2-9/16" (65)	1-5/8" (41)	5/8" (16)	Neoprene	Brass ††
JAB 30919-0001 *	12	5	3-1/16" (77)	3" (76)	13/16" (20)	Neoprene	Brass

Drive Types:

1. Slotted shaft pin drive
2. Through hole pin drive
3. Key drive
4. Single flat drive
5. Double flat drive
6. Ding drive keyway
7. Spline drive

* Special Order

♦ Extended Drive sleeves
‡ For low temperature to 27°F (120°F max)
† Impeller molded on shaft
‡‡ Mercruiser replacement
†† Sherwood replacement impeller

Jabsco	Volvo	Yanmar	Yamaha	Johnson	Sherwood	Vetus	Mercruiser	Crusader	Ancor	CEF	Oberdorfer	Onan	Perkins USA
JAB 653-0001-P *				09-810B		IMP00801				500101			
JAB 836-0001-P				09-1029B		IMP00901			J050005	500105			0460027
JAB 836-0003-P	875736-1			09-1029B 09-1029B-9					J050405	500205			
JAB 920-0001-P	801277 825941 877061-2			09-1028B						500106			0460024 24880178
JAB 920-0003-P										500206			
JAB 1210-0001-P	860203 3856039-7 875811-2	129470-42530		09-1027B		IMP00201			J050007	500107		132-0162	0460038
JAB 1210-0003-P				09-1027B-9					J050407	500207			
JAB 3085-0001-P													24880190
JAB 4528-0001-P	803729 875807-0 876554-7	104211-42070		09-806B	9979	IMP00501			J050010	500100		132-0859	24990272
JAB 4568-0001-P	831182 875575-3	124310-46090		09-801B						500108			
JAB 4598-0001-P										500102	6603		
JAB 4598-0003-P										500202			
JAB 6303-0001-P										500110	6617		
JAB 6303-0003-P				09-824P					J050011	500210			
JAB 6760-0003-P				09-802B						500245			
JAB 13554-0001-P				09-812B									
JAB 17935-0001-P	875660 875736-1 825942 807904			09-819B					J050035	500135	J050035	500135	7054
JAB 17936-0001-P	875814-6 875697 845796 844683 842857			09-814B		IMP00801			J050045	500145			0460027
JAB 17937-0001-P	801277 825941 877061-2	127610-42200		09-1028B	18200	IMP00301			J050009	500114	7441		0460024 24880031
JAB 17954-0001-P							47-59362			500214			
JAB 18673-0001-P													24880194
JAB 18838-0001-P	835512-5		YSC-10103-01-0C		9959			1003026	J050003	500103	132-0317	132-0117 24880178	NA900010
JAB 18948-0001-P	835874-9		6TA-12457-00		10615			20300	J050020	500120	8922	132-0348	NA900012
JAB 18958-0001-P					17000								
JAB 22405-0001-P	875583-7 833995			09-808B		IMP00601			J050021	500121			
JAB 31130-0061-P							47-831311350						

* Special Order

Selecting your Jabsco Replacement Impeller

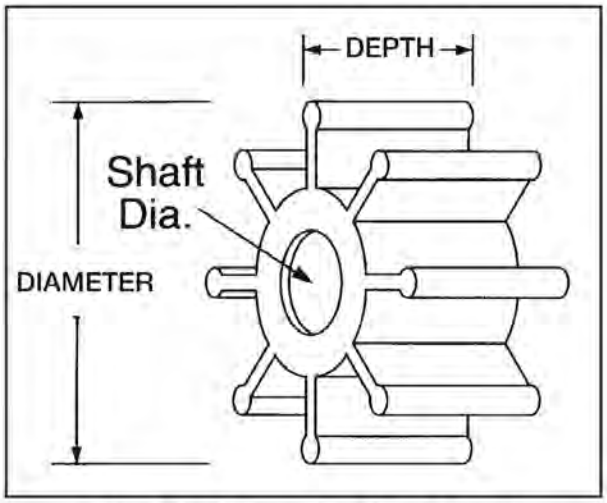


Chart A - Measuring Your Impeller

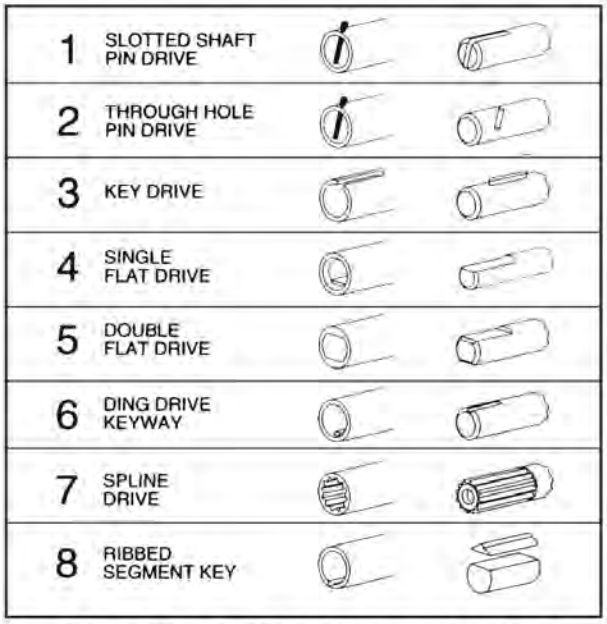


Chart B - Identifing the Impeller Drive

FYI

Impeller Replacement - The Basics

Use Neoprene Impellers for engine cooling, and for fresh or salt water transfer duties. Neoprene is the most commonly used material and is suitable for use where only small amounts of oil or diesel fuel are present. Use Nitrile Impellers for bilge pumping, and for transfer duties where the water is heavily contaminated, for example by oil or diesel. For diesel transfer duties, go to pages 45-46 and select a Jabsco Sliding Vane pump. Replace all impellers at least once every year, or sooner, depending on the engine duty. When the installation is correct an impeller may last for several years, but it is always advisable to stick to a schedule of preventative, rather than corrective, maintenance. Replacing impellers is easy. By removing the end cover screws, it is possible to remove the impeller by using either a Jabsco Impeller Removal Tool, or channel lock pliers, to grip the hub of the impeller. Don't use screwdrivers as they may damage the face of the pump body, causing leaks, and they can be dangerous in confined spaces. Always carry spare impellers on board in case of emergency. The impeller is one of the most vital components of the engine cooling system and should always be treated as such. Always grease new impellers. Firstly, it makes it easier to install the impeller into the pump bore, and secondly it gives added protection to the impeller during initial prime. After replacing the gasket and end cover the pump is ready to use.

Whale Gusher Titan Pumps

- Tough, lightweight, proven design
- High flow rate
- Easy maintenance; clamping ring is easily removed for pump head rotation
- Typical uses include bilge or holding tank pump-out, or toilet flush
- Self-priming to 13'
- Spring assisted outlet valve
- Suitable as a primary pump for boats 40' and greater
- 1-1/2" hose connection
- 28 GPM (70 strokes/min @ 3' lift)


BP4402

Part #	Mount	L x W x H
WHA BP4402	On Deck	17-1/4" x 9-1/4" x 15-5/16"
WHA BP4410	Thru Deck	11-1/2" x 9-1/4" x 18-15/16" (overall)

Parts:

WHA AK4400	Service kit, neoprene
WHA AK4419	Service kit, nitrile
WHA AS3725	Gaiter kit for deckplates

Whale Gusher Urchin Pumps


BP9013

- Smooth pump action
- Easy maintenance; clamping ring is easily removed for pump head rotation
- Dual size ports for 1" or 1-1/2" hose
- Tricuspid outlet valve
- Suitable as a primary pump for boats up to 40' using 1" hose connection, and for boats 40' and greater using 1-1/2" hose connection
- Self priming to 13'
- 14.5 GPM (70 strokes/min @ 3' lift and 1-1/2" hose)

Part #	Mount	L x W x H
WHA BP9013	Thru Deck	9-1/2" x 9-3/4" x 13-5/8" (overall)
WHA BP9021	On Deck	13-15/16" x 9-3/4" x 9-1/2"

Parts:

WHA AK9003	Service kit, neoprene
WHA AK9011	Service kit, nitrile

Whale Gusher 10 Pumps


BP3708

- Diecast alloy pump
- Robust design stands up to the toughest marine conditions
- Large high flow non-choke valves
- Self-priming to 13'
- Ideal for workboats, cruisers, offshore racing
- Typical uses include bilge and holding tank pump outs
- Suitable for diesel transfer with nitrile diaphgragm (not included)
- 1-1/2" hose connections
- Suitable as a primary bilge pump on boats 80' and greater
- 17 GPM (70 strokes/min @ 3' lift)

Part #	Mount	L x W x H
WHA BP3708	On Deck	17-1/4" x 8" x 11-3/4"
WHA BP3740	Thru Deck	11-3/4" x 8" x 19-3/8" (overall)

Parts:

WHA AK3706	Service kit, neoprene
WHA AK3714	Service kit, nitrile
WHA AS3725	Gaiter kit for deckplates
WHA DP3804	Deck plate cover



Bosworth Guzzler Series Pumps

- Manual diaphragm pumps
- Constructed from Delrin, with aluminum handles and thru-bolted with 18-8 stainless fasteners
- Pressure: 15 PSI
- Self priming, with a 12' suction lift and a 30' delivery head

Part #	GPM	Hose	L" x W" x H" (Base)	Style
BOS 400-H	10	1"	10-1/4 x 4-5/16 x 4-5/16	Horizontal
BOS 400-V	10	1"	10-1/4 x 4-5/16 x 4-5/16	Vertical
BOS 400-S	6	1"	10-1/4 x 5-1/2 x 4-7/16	Foot
BOS 450-V	10	1"	8-1/2 x 4-5/16 x 4	Vertical
BOS 500-H	12	1-1/2"	10-7/8 x 4-5/16 x 4-1/4	Horizontal
BOS 500-V	12	1-1/2"	10-7/8 x 4-5/16 x 4-1/4	Vertical

Parts #	Description	Fits
BOS #2-5 **	Outlet Flange	500
BOS #3-BUTTON	Button	400/500
BOS #4-CLEVIS	Clevis	400/500
BOS #6-CLAMPRING	Clamp Ring	400/500
BOS #6A-MNTG-RING	M Series	400/500
BOS #7A-TRIM-RING	M Series	400/500
BOS #8-HANDLE	Vertical Handle	400/500
BOS #9-HANDLE	Horiz. Hdl. w/Actuator	400/500
BOS #17-4KIT	Diaphragm Service Kit	400
BOS #17-5KIT	Diaphragm Service Kit	500

** While Stock Lasts



Bosworth Thru-Deck Mounting Kit

Convenient kit for use with Bosworth 400 and 500 series pumps requiring below-deck installation. Consists of deck plate, cover, boot and stand-offs.

BOS 34 Kit, S/S screws, aluminum stand-offs

► *Also See* Bilge Hose pg 10-004

Jabsco Amazon Thrudeck Pump



Thru deck pump with detachable handle and through deck kit. 16 port variations relative to the body and with 4 mounting positions relative to the pump. 13 GPM (50 LPM) output, self-priming up to 16' (5m). Loosening one screw lets you clear blockages or position the body anywhere through 360° relative to the handle. Excellent solids handling ability for use with holding tanks. Stainless steel handle supplied with mounting clips and provision for safety lanyard.

- Base: W: 4.3" x L: 9.9" x H: 6"
- 1" hose

JAB 29250-0000

Jabsco Amazon Universal Pump



Detachable handle and one push-fit elbow. Safety feature allows operation from both inside and outside the cabin (with optional Through Deck Kit).

- Flow rate of up to 25 GPM (100 LPM)
- Self-priming up to 10' (3m)
- Push-fit inlet and outlet elbows swivel through 360° for installation flexibility
- Quick release clamp ring for access to blockage
- Stainless steel handle supplied with mounting clips and provision for safety lanyard
- Base: 9.5" W x 9.6" L x 6" H (not including handle)
- 1-1/2" hose

JAB 29270-0000

Parts:

JAB 29276-1000 Major service kit
JAB 29266-1000 Additional push-fit elbow
JAB 29275-1000 Ports kit

Through Deck Kit

Includes inlet & outlet valve, diaphragm, screws, nut, ring clip and washer.

JAB 29279-0000

Jabsco Amazon Warrior Pump



Alloy constructed pump is designed for mounting on deck or through deck (with optional through deck kit and bracket). Alloy body is particularly well suited to work boat and safety applications. The double diaphragm design gives maximum efficiency and added safety. Solid 18" detachable handle assists sustained high outputs of up to 35 GPM. and is self priming up to 17.5' (5.5m). Excellent solids handling ability allowing for use with holding tanks.

- 1-1/2" hose
- Base: W: 14" x L: 9.5" x H: 8"

JAB 29280-0000

Through Deck Kit

Includes inlet & outlet valve, diaphragm, screws, and washer

JAB 29279-0000

Jabsco Amazon Bulkhead Pump



Re-positionable ports and body offer 96 assembly variations.

- 12 GPM (45 LPM) output
- Self-priming up to 13' (4m)
- Corrosion resistant materials throughout
- Stainless steel handle supplied with mounting clips and provision for safety lanyard
- Base: W: 7" x L: 8" x H: 4-3/4"
- 1" hose

JAB 29240-0000

Perko Bilge Pump Foot Strainers



709



721



722

A series of cast bronze body foot strainers with bronze screen held in position by lugs doubling as feet.

Part #	Pipe	Hose	Length	Width
PER 709-DP-PLB	-	5/8"	3-5/8"	1-3/4"
PER 721-000-PLB	1-1/4"	-	5"	2-3/4"
PER 722-000-PLB	1-1/4"	-	4-3/4"	2-3/4"

Jabsco Bilge Strainers



Bilge strainers protect the pump from debris, and include an in-line check valve that prevents water backflow.

JAB 29290-1000 1" hose
JAB 29290-1010 1-1/2" hose

Jabsco Inlet Non-Return Valves



Non-return valves fit in a pumps suction hose to aid priming and prevent backflow into the bilge.

JAB 29295-1000 1" hose
JAB 29295-1010 1-1/2" hose

Bosworth Bilge Pump Foot Strainers



- Plastic construction

BOS 84 1" hose
BOS 85 1-1/2" hose

Whale Top Entry Bilge Strainer



- Top entry for deeper bilges
- Fitted with a non-return valve to prevent drainback
- Removable straining plate for easy cleaning
- Suitable for 1" and 1-1/2" hose

WHA SB5865

Beckson Thirsty-Mate Pumps

These self priming pumps will not rust or corrode and are very easy to clean.



118 PF
124 PF
230 PF

- Gal/min: 10 Strokes = 6 US
- Pump: L: 18" x Dia: 1-1/4"

BEC 118PF With 18" hose

- Gal/min: 6 strokes = 10 US
- Pump: L: 24" x Dia: 1-3/4"

BEC 124PF With 24" hose

- Gal/min: 4 strokes = 13 US
- Pump: L: 36" x Dia: 1-3/4"

BEC 136PF With 36" hose

- Gal/min: 6 strokes = 10 US
- Pump: L: 30" x Dia: 1-1/2"

BEC 230PF With 32" hose



318 P

Kayak Pump

- Gal/min: 8 strokes = 8 US
- L: 18" x Dia: 1-3/4"

BEC 318P No hose

Beckson Pontoon Pump



- Angled top sleeve
- Contoured red tee handle
- Self-priming plunger valve
- Polyvinyl grey body and shaft
- Flexible foot that will accept 1-1/4" reinforced hose extended pump reach
- Dia: 1-3/4"

BEC 324FPX 24" body

Beckson Handy Mate Pumps



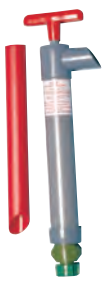
216PC

Pump water out of bilges, sump tanks and from one tank to another, or pump oil from inboard or stern drive or engine crankcases.
A tube is provided to insert into the dipstick hole and the oil is quickly pumped out. The versatile 216PC pump come with a kit of tubes, hoses, reducing foot and adapter.

- Pump body dia: 1-1/2"

Part #	Length	Tubes
BEC 212PC	12-3/4"	Intake: 1/4" x 30" Intake: 1/2" x 20" Discharge: 1" x 10" (oil)
BEC 216PC	16"	Intake: 1/2" x 36" Intake: 1/4" x 36" Flex discharge: 1-1/4" x 24" (water) Discharge: 1" x 10" (oil)

Beckson Handy-Mate Crank Case Oil Pump



Adapted to pump crank case oil from engines equipped with a threaded fitting on the top of the dipstick tube. Threaded adapter fits standard male garden hose coupler. Attaches quickly and securely to the dipstick tube.

- Self priming for almost instant pumping action
- L: 12-3/4" x Dia: 1-1/2"
- Comes with 10" long, 1" ID tube

BEC 212PGA

Beckson Siphon-Mate Pump



Combination displacement lift pump and siphon pump with valves suitable for transferring fuel Fully extending the handle will allow siphoning, provided that the source is higher in elevation than the receptacle.

- Hose 1/2" x 96"
- L: 11-1/2" x Dia: 1-1/4"

BEC 109PC

Jabsco Marine Engine Oil Drain Pump



Connects to current marine engine oil dipstick tube on OMC, Mercruiser and other marine engines with a male hose fitting on the engine dipstick tube (3/4" GHT male thread). Oil and corrosion resistant brass neoprene construction. Design allows one hand pumping.

- 1/2" x 2' drain hose
- L: 12" x Dia: 1-1/4"

JAB 34060-0130

Jabsco "Little Pal" Hand Pump



Compact multipurpose 1 GPM hand pump does many draining and liquid transfer jobs yet is small enough to fit in a tool or tackle box. Includes 2' hose and draw tube for draining crankcase through dipstick.

- L: 10-1/4" x Dia: 1-1/4"

JAB 34060-0010

Jabsco "Handy Boy" Hand Pump



Used for bilge pumping, oil draining, diesel fuel transfer, and many other liquid transfer applications. Oil and corrosion resistant brass neoprene construction. Up to 1-1/2 GPM (6 LPM) output. Kit includes two 1/2" x 3' hoses. Two dipstick probes 1/4" x 40" and 5/16" x 40", neoprene intake adaptor and tube connector.

- Pump; L: 10-1/4" x Dia: 1-1/4"

JAB 33799-0000

Scotty Hand Pumps



- Stainless steel rod for strength and durability
- Easily disassembled for cleaning or repairs
- 1-1/2" barrel diameter
- Includes 24" of 1-1/8" black bilge flex hose
- Lifetime warranty

SCO 544	13-1/2"	13 strokes per gallon
SCO 545	21"	7-1/2 strokes per gallon
SCO 548	36"	3.5 strokes per gallon

Scotty Kayak Hand Pumps



- Stainless steel rod for strength and durability
- 1-1/2" barrel diameter means quick pump-outs
- Includes float
- Lifetime warranty

SCO 544K	13.5"
SCO 545K	21"

Jabsco Self Priming Drill Pumps



- Pumps up to 3.4 GPM (13 LPM)
- Self-priming to 3' (1m)
- 1/4" (6.5mm) diameter shaft
- Pump with garden hose ports
- 1/4" x 40" probe & 3' of 1/2" hose

JAB 17215-0000	Kit
JAB 17250-0003	Pump only

Sierra Oil Drain Kit



GM, Chrysler, & most Ford oil pans with 1/2"-20 threads. Includes a 42" hose with hanger, universal oil pan replacement plug & end cap.

SIE 18-7891

Jabsco Oil Drain Kit



For permanent installation. Includes drain plug fitting, oil drain hose, cap and hose hanger clamp. Drain plug fitting size is 1/2"-20. May be coupled to drill pump or "Little Pal" hand pump.

- Hose: 3/8" ID x 48"
- Draw fitting: 1/2"-20

JAB 18080-0000

Panther Oil Extractors



- 15 litre capacity
- Check valve for easy release of displaced air
- See-through container for quick visual reference
- Foot board for added stability while in operation
- Pour spout for no-mess fluid disposal
- Suitable for engine oil, gear lube, brake fluid, coolant or water
- Extra long 48" hoses
- Kit includes: 3 piece hose kit & valve

Manual Only

PAN 75-6015

Pneumatic / Manual



- Attaches to a pneumatic compressor or can be operated manually
- Complete with air inlet control valve, negative pressure quick exhaust valve and fluid draining pressure balancer
- 1/4" Air inlet; 40-170psi working range

PAN 75-6015P

Pela Oil Extractors



- Requires just 10 to 20 strokes to create a powerful vacuum
- See-through container
- Calibrated walls allow easy measurement of the oil extracted
- Pour spout is included to help emptying
- Pump is removable for easy storage
- Tube probe OD: 3/16", L: 43"
- Clear section OD: 3/8", L: 39"

PEL PL-2000 2.5 litre, H: 17.5" x Dia: 7"
PEL PL-6000 6.0 litre, H: 21.5" x Dia: 9"
Parts:
PEL PL-6000TU Replacement tube kit

Pela Oil Extractor



- Requires just 4 to 15 strokes to create a powerful vacuum
- Integrated container (6.5 litres) then neatly captures the oil preventing messy spills
- Calibrated walls allow easy measurement of the oil extracted
- Built-in float switch automatically stops extraction as soon as capacity is reached
- Pour spout facilitates emptying
- H: 25", cylindrical dia: 6.25"
- Tubes: 3/16" & 1/4" OD, L: 47" each
- Extension tube: L: 39"

PEL PL-650 6.5 litre
Parts:
PEL PL-6503TU Replacement tube kit
Accessories:
PEL PL-DRP-TU Drip tube

Pela Heavy Duty Oil Extractor



- 14 litre capacity oil vacuum oil extractor
- The pump unit is housed inside the container
- Just pump 20 to 25 times in a row to create a powerful vacuum and then watch the oil drain into the see-through, calibrated container
- An internal float switch shuts off extraction automatically when full
- Capacity: 14.0 litres (14.8 qts)
- H: 25.5" x Dia: 8.35"
- Tubes: 3/16" & 1/4" OD, L: 61" each
- Extension tube: 61"

PEL PL-14K
Accessories:
PEL PL-DRP-TU Drip tube

Shurflo Oil Change System



Suitable for engine oil, transmission fluids, anti-freeze and low viscosity gear lube

- 12V, thermal protected, diaphram pump
- Rated: 1.5 GPM
- 3.5 gal (13L) plastic container
- 8' battery leads with alligator clips
- 8' of 1/4" tubing
- H: 15-1/2" x D: 13"

SHR 8050-305-426

Jabsco Flat Tank Oil Changer



This self-contained unit has a self-priming diaphragm pump with an easy pour spout for emptying. Comes with a dipstick suction tube, battery clamp leads and an on-off switch.

- 3-1/2 gallon (13 litre) sealed container
- Easy to carry handle
- Self priming, 3-piston, run dry pump design
- Empties oil @ rate of 0.5 GPM at temperature
- H: 19" x W: 12" x D: 6.5"

JAB 17860-2012

Jabsco "Porta-Quick" Oil Changer



- Reversible pump
- Pump body & head: Bronze construction
- Impeller: Nitrile (oil resistant)
- Container: Plastic with 14 quart capacity
- Power cord: 8' with alligator clips
- Non-collapsible thick wall suction hose, 4' of neoprene hose with 40" Teflon dipstick probe
- Weight: 9 lb (4.1 kg)
- Garden hose thread adapter included
- Dia: 13-1/2" x H: 15-5/8"

JAB 17800-2000
Parts:
JAB 6342-0000 Slinger
JAB 9200-0023-P Neoprene impeller
JAB 91004-0090 Screw kit (3)

Groco Oil Change Systems



G-6A

- Powerful gear pump delivers nearly twice the flow as competitive models
- Touch pad controls
- Bronze manifold system
- Resettable overcurrent and dry run protection
- Cover conceals pump and circuitry
- Max 3 GPM
- Self priming
- 1/2" NPT and hose barbs



G-3A

GRO G-3A-12V L: 11.1" x H: 5.9" x D: 9.3"
GRO G-6A-12V L: 16.4" x H: 4.3" x D: 9.3"

Marco Oil Change System



- Easy to use system for fixed installations that eliminates leaks
- Electronic control adjusts speed of pump according to oil viscosity/temperature, and increases its speed during priming
- Automatically shuts off in case of empty tank, short circuit, and after 30 minutes of operation
- 29 PSI; 2.6 GPM
- Self priming to 4.9'
- 1/2" NPT ports
- 12/24V
- L: 8-1/2" x H: 4-1/2" x D: 10-3/8"

MAR 164-924-15

Shurflo Oil Change Pump



- Self priming
- Buna-N valves
- Thermal overload protection
- Ignition protected
- Includes hose kit & adapters
- 6" x 4" x 3.25"

Part #	VDC	Amps	Port
SHR 8050-305-526	12	4.4	3/8" NPT

Reverso 2-Valve Block Assembly



- Allows multiple hoses to be connected to one pump
- Mount in any direction
- Mounting holes are pre-drilled for easy installation

REV VA-2 * *FOR OIL ONLY*

* Special Order - may have stock

Reverso Oil Change Pump Parts

REV 38-2314 * Diesel/Oil impeller for OP-4 and OP-6

* Special Order

Marco Oil Transfer Pumps



- Self-priming electric pumps
- Helical bronze gears
- Pump body in nickel plated brass
- Stainless steel shaft
- Main applications: transfer of lubricating oils and viscous liquids
- Integrated On/Off 3 position reversing switch
- 29 PSI, 1.5 GPM, 3/8" NPT ports
- L: 4-1/4" x W: 3-1/2" x H: 7-1/8"

MAR 164-022-12 12V
MAR 164-022-13 24V

Marco Diesel Transfer Pumps



- Professional self-priming electric pumps
- Bronze gears
- Pump body in nickel plated brass
- Stainless steel shaft
- Main applications: transfer of diesel fuel, light weight oils, and antifreeze
- 29 PSI
- Self priming 4.9'

Part #	Flow GPM	Ports NPT	Fuse	Dimensions L x W x H
MAR 164-000-12	4	3/8"	10A	6.5" x 4" x 6.375"
MAR 164-000-13	4	3/8"	5A	6.5" x 4" x 6.375"
MAR 164-060-12	6.9	1/2"	15A	7.75" x 4.375" x 8.125"
MAR 164-060-13	6.9	1/2"	7.5A	7.75" x 4.375" x 8.125"

► *Also See* Fuel Hose pg 10-008 to 009

Moeller Siphon Hose Pump



- Size: 1/2" x 6'
- Self-priming brass shake pump
- No more gas in the mouth
- Anti-static

MOE 042907

Tera Battery Powered Pump



- For gasoline, diesel, kerosene, light oils and water
- Battery operated; uses only two D batteries (not included)
- Portable and lightweight
- Easy to hold pump style handle alleviates spills and messy clean-up
- Flow lever allows quick start and stop pumping
- Locking nozzle for continuous flow
- 2.4 gallons per minute
- Discharge hose length: 39.4" + 12.4" nozzle

TER TREP01-T Intake tube length 15" - 20"

Tera Battery Powered Pump



- For use with: diesel, gasoline, kerosene
- Pumps 2.5 gpm
- Requiress 2AA batteries (not included)
- Overall length 21" x diameter 1.3"
- 24" discharge hose

TER TRHA01

Tera Battery Powered Pump



- Battery operated fuel transfer system (4 AA)
- Advanced auto-stop & leak protection
- 18" flexible intake hose
- 39" discharge hose
- 3 adapter sizes fit most North American fuel cans
- Simple power button operation
- Pumps 3 GPM

TER TRFA01

Tera Battery Powered Pump



- Battery operated fuel transfer system (4 AA)
- Advanced auto-stop & leak protection
- 24" flexible intake hose, 51" flexible output hose
- Utility can adapter plus, 3 fuel can adapters
- Simple power button operation
- Pumps 2.5 GPM

TER TRFA01-XL

Tera Manual Powered Pump



- Affordable fuel hand pump
- 16.5" flexible intake hose
- 25.6" discharge hose
- 3 adapter sizes fit most North American fuel cans
- Up & down flexible spring type bellows
- Pumps 3.2 GPM

TER TRM20

Walbro Fuel Pumps

Standard Features - All Models

- Reverse polarity protected up to 60 minutes
- Self priming
- Compatible with all commercially available pump grade gasoline, gasohol, diesel or bio-diesel
- Operating temperature: -40 ~ +70C (-40 ~ +155F)
- Dichromate finish
- Transient voltage protected to 100V
- 5 amp fuse recommended
- 12VDC
- U.S. Coast Guard 16623-1 and 16623-2 approved

FRA Series Fuel Pump

GOOD





- Continuous duty life: 5,000 hours
- Flow to 76 LPH (20 GPH)
- Maximum current requirement: 2.0 amps
- Dry lift to 24" (61 cm)
- Dry run: To (2) hours
- Maximum current requirements 2.3 amps
- Pump cycles continuously when power is on
- 70 micron filter
- Comes with installation fittings (3/8" hose barbs included)
- Inlet/Outlet: 1/8-27 NPSF
- Weight: 1.56 lbs (0.71 kg)

WAL FRA-1-1 4-7 PSI

Recommended for fuel lift or transfer applications as well as carbureted engine supply.

FRD Series Fuel Pump

BETTER





- Continuous duty life (diesel fuel): 10,000 hours
- Flow to 210 LPH (55 GPH)
- Maximum current requirements 2.3 amps
- Self priming of more than 48" (120cm)
- Dry lift to 120" (305 cm)
- Dry run: To (4) hours
- Pump cycles on fuel demand
- 70 micron filter
- Comes with installation fittings (3/8" hose barbs included)
- Inlet/Outlet: 1/8-27 NPSF
- Weight: 1.56 lbs (0.71 kg)
- Recommended for stoves

WAL FRD-2-1-12V 2-4 PSI

Recommended for heater or stove applications. FRD pumps will slow their cycling rate to deliver only the fuel required by the stove carburettor. FRD pumps can also fill day tanks for units without carburetors.

FRB Series Fuel Pump

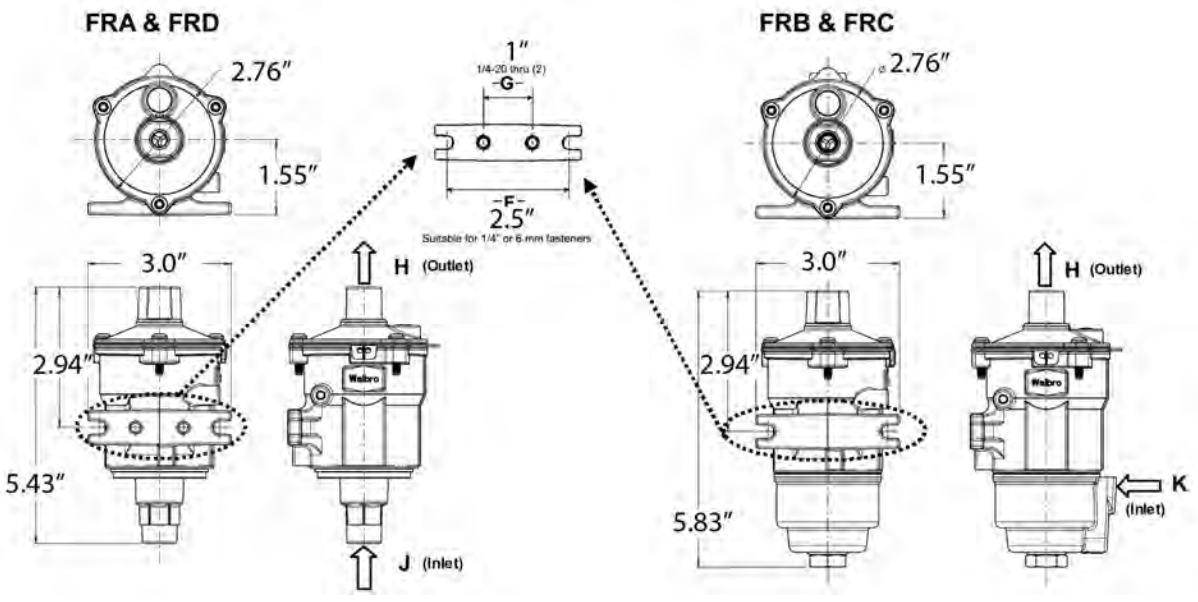
BEST



- Continuous duty life: 18,000 hours
- Self priming to 48" (120 cm)
- Dry lift to 120" (305 cm)
- Maximum current requirements 2.3 amps
- Dry run: To (4) hours
- Pump cycles on fuel demand
- Replaceable 70 micron filter
- Magnetic trap
- Inlet/Outlet: 1/4-18 NPSF
- Weight: 1.78 lbs (0.81 kg)

WAL FRB-13-2 162 LPH, 6-8 PSI, 12V
WAL FRB-20-2 125 LPH, 2-4 PSI, 12V
WAL FRB-23-2 162 LPH, 8-11 PSI, 24V

Recommended for fuel lift or transfer applications as well as carbureted engine supply.



FirstWatch®

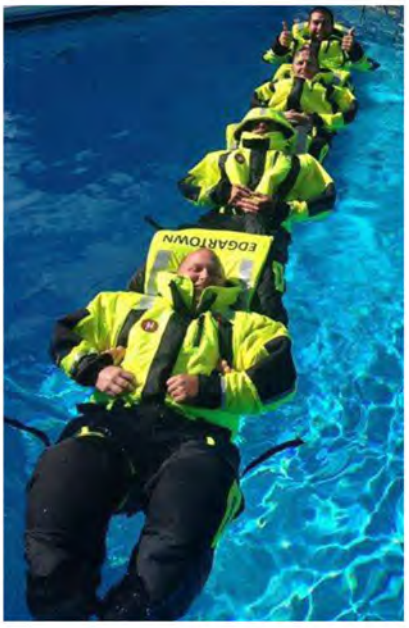
Flotation You Can Live In

Transport Canada Approved













CANADIAN NAVY

Selects FIRSTWATCH FLOTATION COAT Design

The Royal Canadian Navy (RCN) has selected the FirstWatch Flotation Coat design for protection of its crews.

Canada's Navy operates in an extreme range of climates around the world.

This Transport Canada approved Life Jacket has innovative fire resistant technology.

The 3500 coats are being built in Canada—by FirstWatch's manufacturing partner International Custom Products of Toronto.

Alarms & Accessories	Fume & Heat Detectors	12-002 to 005
	Alarms / Accessories	12-005 to 006
Fire Safety Equipment	Fire Extinguishers	12-007 to 008
	Fire Safety Equipment	12-009
	Life Saving Equipment	12-009 to 012
Signaling Devices	Flares	12-012 to 013
	Lights / Strobes	12-013 to 015
	PLBs / EPIRBs / SARTs / MOB Alarms	12-016 to 019
	Radar Reflectors	12-020
	Sounding Devices	12-021 to 024
First Aid Kits	First Aid Kits / Cases	12-025 to 027
Flotation	Spinlock Deckware	12-028 to 035
	Jackets / Suits / Vests	12-036 to 041
	Inflatable PFDs / Vests / Rearm Kits	12-041 to 046
Compasses	Compasses	12-047 to 049
Navigation & Books	Binoculars / Navigation Tools	12-049 to 051
	Chart Cases	12-051

Fireboy/Xintex Propane Fume Detector



- Two-channel propane fume detector with solenoid valve and 2 sensors
- Monitor propane fumes in a compartment or leaking fuel systems and control the flow of CNG/LPG to your appliances
- Central display unit that notifies you of the state of the system
- 3 LEDs on the display unit for each channel on the system and a LED for the solenoid valve status
- Operating Voltage: 9-30 VDC
- Min-Max Current Draw: 95mA @ 12V DC- 780mA @ 9 VDC
- Operating Temperature: -40 to 85 degrees C
- Alarm Horn: 68dB

FBY P-2BS-R Includes solenoid valve

- All the features as above but no solenoid supplied (wire to exisiting solenoid valve)

FBY P-2BNV-R

Fireboy/Xintex Propane Fume Detector



There are three (3) LED's on the display unit, a Green LED, indicates that system is operational, the Yellow LED, indicates if there is a fault in the system (This is to notify the user to check the connections and wire runs of the Sensor) and a Red LED, indicating a fume buildup of 20% of the Lower Explosive Limit (LEL) which is considered an alarm. The 68 dB Alarm Horn will sound when the Red LED is illuminated.

- Single Channel: Maximum of one sensor
- Operating Voltage: 9-30 VDC
- Min-Max Current Draw: 55mA - 95mA @ 12 VDC
- Operating Temperature: -40 to 85 degrees C
- Alarm Horn: 68dB

FBY P-1B-R



- All the features as above and includes an automatic gas supply shut off feature (solenoid valve not included).

FBY P-1BNV-R

Fireboy/Xintex Relay Control Module



The Relay Control Module allows you to automatically deactivate devices based on the status of the connected Xintex detection device. The RCM5 uses a signal provided by the connected Xintex device to activate the internal relay. This allows you to shutdown generators or other devices automatically.

- Operating Voltage: 9-32V DC
- Min-Max Current Draw: 15mA @ 12V DC - 40mA @ 9V DC
- Maximum Relay Voltage: 30V DC
- Maximum Relay Switching Current: 1 A
- Operating/Storage Temperature: -40°C to 70°C
- Dimensions: 3.1" x 2.1" x 1.83"
- Housing Material: Flame Retardant ABS

FBY RCM-5 **

** While Stock Lasts

Fireboy/Xintex Gasoline Sensor & Alarm



System uses a single sensor, located in a place of interest, and a central single channel black round display unit that notifies you to the state of the system.
There are three (3) LED's on the display unit, a Green LED, indicates that system is operational, the Yellow LED, indicates if there is a fault in the system (This is to notify the user to check the connections and wire runs of the Sensor) and a Red LED, indicating a fume buildup of 20% of the Lower Explosive Limit (LEL) which is considered an alarm. The 68 dB Alarm Horn will sound when the Red LED is illuminated.

- Single Channel: Maximum of one sensor
- Operating Voltage: 9-30V DC
- Min-Max Current Draw: 55mA @ 12V DC - 95mA @ 9V DC
- Reverse Polarity Protected: Yes
- Operating Temperature: -40 to 85° C
- Alarm Horn: 68 dB
- 2-1/16" (52mm) cutout required

Kit contains:

- Xintex Gasoline Detector G1BR-N01D
- Plastic Fuel Sensor FS-T01-S
- 20' Quick connect cable FS-X01 CABLE 20' and Manual

FBY G-1B-R

Fireboy/Xintex Gas & Propane Sensors



- Replacement plastic sensor for Xintex G-1, G-2, P-1, P-2 gasoline and propane detection systems
- Simple plug-in installation
- Reverse polarity protected
- 9-30 VDC

FBY FS-T01-R	Sensor with 20' cable
FBY FS-T01-S-R	Sensor only
FBY FS-X01-CABLE-20'	Cable only

Why Do I Need A Propane Monitor?

Propane has become the fuel of choice for cooking and heating on boats. It has the highest BTU output for efficiency. It offers ready availability of tanks and refills. And, it has that awful smell to warn you of leaks and thus create a false sense of security. The problem is, it is also heavier than air, so it can settle below decks and into bilges where it may hide from your nose and be waiting to give you a nasty surprise when you fire up the engine or create an electric spark of any kind.

As propane becomes more and more a part of boating and RV's, so should the common sense protective measures that can be taken against its potential power to spoil the fun under the wrong conditions. The same is true of Compressed Natural Gas (CNG).

► *Also See* Trident Propane Detector pg 05-029



Marine Technologies
Gasoline, Fire & Bilge Water Detector

Thermal Sensor monitors for high heat and heat from fire. Flood Sensor monitors bilge for high water. Also provides protection against accidents caused by Gas spills or leaks. Remote sensor monitors bilge/engine compartment during and after fueling.

- Sight and Sound Alarm Indicator: Dual signaling sounds an alarm and activates warning light
- Smart Sensor: Detects the build up of explosive gases
- On/Off/Test: For one touch analysis of detector performance
- Fumes Detected: Gasoline
- Other gases detected: alcohol, acetone, hydrogen and most other hydrocarbon gases
- Alarm Trigger: 20% or less of the lower explosive limit of gas
- Power 12 VDC, operational range +/- 15%
- 200 milliamp (.2 amp.) current draw
- Includes: Display panel, fume sensor, bilge water sensor, thermal heat sensor and 20' connection cable
- W: 3.25" x H: 2.75" x D: .75"

MTI MGD-10XL



MGD-1

MGD-1-XL

Marine Technologies
Gasoline/Propane Fume Detectors

Provides protection against accidents caused by Gas/Propane spills or leaks. Install sensor in galley or LP tank locker to protect against propane leaks.

- Sight and Sound Alarm Indicator: Dual signaling sounds an alarm and activates warning light
- Exclusively designed for the harsh marine environment
- Smart Sensor: Detects the build up of explosive gases
- On/Off/Test: For one touch analysis of detector performance
- Fumes Detected: Gasoline and propane
- Other gases detected: alcohol, acetone, hydrogen and other flammable hydrocarbon gases
- Alarm Trigger: 20% or less of the lower explosive limit of gasoline, propane and CNG
- Power 12 VDC, operational range +/- 15%
- 200 milliamp (.2 amp.) current draw
- Includes: Display panel, fume sensor and 20' connection cable
- MGD-1: fits standard 2.125" dia. in dash panel blank

MTI MGD-1

- MGD-1XL: Surface mount, W: 3.25" x H: 2.75" x D: .75"

MTI MGD-1-XL



Marine Technologies
Fume Sensor

- Detects, gasoline, hydrogen, propane, alcohol, acetone, methane and other explosive vapours
- Sensor assembly, splitter, and a 20' plug-in cable

MTI MWD-MGD-SB



Marine Technologies
RV Dual Propane / CO Alarms

- Dual alarm detects both propane leaks and carbon monoxide gas, and will also detect compressed natural gas/methane
- Alarm mute button silences alarm while area is ventilated
- Rapid recovery sensor resets when silenced, or reactivates alarm if dangerous levels remain
- 12V
- Low current draw: 1.6A with solenoid valve
- Includes trim ring
- Listed to UL 2034
- Dim w/trim ring: W: 7" x H: 4" x D: 1.25"

MTI 25-742-WT-TR-KIT Flush mount, includes relay
MTI 25-742-WT-TR Flush mount, no relay

Marine Technologies
RV Dual Propane / CO Alarm



- Dual alarm detects both propane leaks and carbon monoxide
- Alarm mute button silences alarm while area is ventilated
- Rapid recovery sensor resets when silenced, or reactivates alarm if dangerous levels remain
- 12V
- Listed to UL 1484 and CSA 6.19
- Dim w/trim ring: W: 7" x H: 4" x D: 1.25"

MTI 85-741-WT-TR Surface mount

Marine Technologies
RV Dual Propane/CO Alarms



Flush Mount

- Circuitry system designed to conserve battery power
- Low voltage warning at 7 volts
- Certified to CSA STD 6.19-01
- Power Supply and Current Draw: 108mA @ 12 VDC

MTI 35-741-WT Surface mount, W: 6" x H: 1.875" x D: 1.25"
MTI 35-742-WT Flush mount, W: 6.3" x H: 2.8" x D: 1.25"

Marine Technologies
Carbon Monoxide Alarm



- Works in extreme temperatures - only marine CO alarm listed to operational temperatures of -40°F to 158°F
- Alarm mute with auto reset
- Low voltage power warning at 7V
- Listed to UL 2034 Marine Use and CSA 6.19-01
- Micro current circuit saves battery power
- Power supply and current draw: 37mA @ 13.8VDC
- Case size: W: 3.5" x H: 2.5" x D: 1.25"

MTI 62-541-WT-MARINE Surface Mount

First Alert
Carbon Monoxide Alarm



- Advanced electrochemical CO sensor detects elevated carbon monoxide levels
- 9V battery operated
- Loud 85-decibel alarm
- Low-battery light and alarm alert you when battery power is running low, and and end-of-life warning lets you know when the detector should be replaced
- Single test/silence button for simple operation
- L: 3.4" x W: 1.5" x H: 5"

FIR 1039934

Marine Technologies Carbon Monoxide Alarm

Shown without trim ring



- Works in extreme temperatures from -40°F to 158°F
- Two level alarm: Low and High - Low notifies you of moderate levels, helping to protect high risk groups
- Alarm mute button silences alarm while area is ventilated
- Rapid recovery sensor resets when silenced, or reactivates alarm if dangerous levels remain
- Memory Scan features retains the CO level that activated alarm
- Low voltage power warning
- 12V
- Low current draw: 37 mA
- Includes trim ring
- Listed to UL 2034
- Dim w/trim ring: W: 7" x H: 4" x D: 1.25"



With trim ring

MTI 62-542-WT-MARINE-TR Flush Mount, White
MTI 62-542-BL-MARINE-TR Flush Mount, Black

Fireboy/Xintex Carbon Monoxide Detectors



- Microprocessor controlled
- Conformal coated circuit board for added protection
- Time-weighted average CO measurement process constantly monitors all CO levels
- Highly resistant to most chemicals, solvents and cleaners
- New sensor technology - Electrochemical sensor - immediate and stable sensing reduces false alarms
- Ultra-low current draw - 4 mA
- Multiple location warning - All connected CMD6-MxR Alarms sound together
- Compact design for inconspicuous protection
- Multiple location warning: All connected I (interconnect) series alarms sound together when linked
- Long sensor life - Approx. 7 year End of Life (EOL)
- 12/24 VDC units have lithium battery backup
- L: 3.5" x W: 3.5" x D: 1.21"

FBY CMD6-MD-BR Black, 12/24V
FBY CMD6-MD White, 12/24V
FBY CMD6-MDR-BR Black, 12/24V, interconnect
FBY CMD6-MDR-R White, 12/24V, interconnect
FBY CMD6-MB-BR Black, battery powered
FBY CMD6-MB White, battery powered

Note: Marinue use only, not approved for RV use.

Marine Technologies Carbon Monoxide Alarm



- NMMA Listed Component
- 5 year lifespan from date of installation
- 12 V hardwired
- No false alarms
- Alarm mute with auto reset
- Alarm will reactivate if it still senses dangerous levels of CO
- Loud 85 dB alarm
- W: 2.5" x H: 3.5" x D:1.25

MTI FX-4-MARINE

Aqualarm Remote Fire Detector



- 135°F that is a combination of fixed and rate of rise
- Normally open contacts
- UL Listed
- Complies with Transport Canada , 10.3 Fire Detection and Alarm regulations
- Compatible with any Aqualarm fire panel
- Diameter: 5.25" x Height: 2"

AAL 20512

Edwards Heat Detectors



- Low profile with wide base
- On site testing of rate-of-rise feature
- Rate of rise rating: 15°F/minute

Heat detectors offer a combination rate-of-rise and fixed temperature feature. Comes with a white plastic reversible mounting plate. The plastic plate can be used for either flush or surface mounting.

- Dia: 4-1/2" x 1-3/4"

WES 5601A 135° F, rate of rise & fixed
WES 5602A 197° F, rate of rise & fixed
WES 5604A 194° F, fixed

Sierra Engine Warning System



- Audible warning system for engine temperature and pressure
- Loud warning buzzer alerts operator of dangerously high engine temperatures or low engine oil pressure
- Kit includes, 6 PSI oil pressure switch and 200° temperature switch

SIE MP41400 12V

Aqualarm Exhaust Overheat Alarm

- Red light and buzzer activate when temperature reaches 93°C (200°F), green light indicates alarm has power and is monitoring
- Band adjusts from 2" - 8"
- Panel size: 3" x 1-3/4"



AAL 20245 12V

Aqualarm Cooling Water Flow Detectors


10231

- Monitors marine engine raw water flow to prevent engine damage due to overheating
- Activates a visual or audible device (sold separately) immediately whenever raw water flow is stopped or impeded
- It is a two wire, non- polarity switch that is normally closed
- 12-32V

AAL 10231 2" female pipe thread, opens at 8 to 10 gpm
AAL 10271 1-1/2" female pipe thread, opens at 6 to 8 gpm
AAL 10233 1" female pipe thread, opens at 3 to 4 gpm
AAL 13110 * 2" male pipe thread, opens when water flows

Replacement Parts:
AAL 30033 Switch Assembly for 10271
AAL 30011 Switch Assembly for 10231

* Special Order

20020

3-1/2" x 4-9/16"

20030


4-5/8" x 3-1/2"

20031


5" x 4"

Aqualarm Monitor Panels and Control Boards

- Visual advisory panels for the aqualarm system indicate which detector is activated
- Separate printed circuit control board can be mounted in a remote location
- Easy-to-read lighted panels are designed for single and twin engine installations
- Two printed circuit control boards are required for twin engine installations

AAL 20020 12 Volt P.C. control board
AAL 20022 32 Volt P.C. control board
AAL 20030 Single engine monitor panel
AAL 20031 Twin engine monitor panel
AAL 20007 12V Single engine monitor w/1 control board
AAL 20009 32V Single engine monitor w/1 control board
AAL 20008 12V Twin engine monitor w/2 control boards

Aqualarm Last Watch II System

Skippering while tired is a hazard to your passengers, to other boaters and to yourself. It works much like an alarm clock: Set the clock up to 99 minutes ahead of time, and if the reset button is not pushed before the time is up, a loud buzzer will sound. If the buzzer is not stopped after 30 seconds, a second alert is sent to a remote audible alarm.



- 12V
- 95 dB @ 12VDC
- W: 4.75" x H: 3.25" x D: 2"

AAL 20011

Aqualarm Systems Monitor Kit

Deluxe 12 VDC systems monitor with bell alarm for single inboard engines. Panel warning lights pinpoint trouble instantly.
Kit includes:



- Low oil pressure detector
- High engine temp. detector
- Fire detector
- Bilge water level detector
- 1" cooling water flow detector
- Silver bell alarm
- Visual indicator panel
- Interconnecting cable
- 90 dB @ 12VDC

AAL 20001

Aqualarm Automatic Alarm Systems



- Protects against fire, bilge flooding, engine overheating, low oil pressure and cooling water flow interference
- The basic unit consists of a red bell and a bilge flooding detector
- Add on other detectors to customize to your needs
- 90 dB @ 12VDC

AAL 20131 12V bell and bilge detector
AAL 20133 32V bell and bilge detector
AAL 20100 12V bell only
AAL 20101 24V bell only
AAL 20102 32V bell only

Aqualarm Automatic Alarm Systems

Overheat Detectors


20118

AAL 20118 200ºF rating, 1/2" pipe thread
AAL 20116 200ºF rating, surface mount

Extra Bilge Detector



- Works with 12V, 24V, 32V
- A two lead, non polarity, normally open detector that closes when water rises and activates a visual and/or audible device
- Not intended to switch a bilge pump
- H: 4-1/4", W: 3", Cable 18'

AAL 20120

Alarm Horn



- "Beeper" style alarm horn 85dB
- Multi-voltage, works with 12V, 24V, 32V

AAL 20106 1-5/8" dia

Low Oil Pressure Detector



- Multi-voltage, works with 12V, 24V, 32V
- Normally closed switch opens at 10psi oil pressure and closes below 10psi oil pressure
- Activates a visual and/or audible warning device
- 1/8" MPT
- Rated at a maximum pressure of 1500 psi

AAL 20111

Blue Sea Systems Alarm Bell



- Floyd bell turbo series alarm
- Rotating bezel adjusts alarm volume
- Threaded attachment ring, fits 1" round aperture
- Nominal Voltage: 12/24VDC
- Operating Voltage: 5-30V DC
- Operating Current: 25mA @ 30V DC, 5mA @ 5V DC
- Operating Frequency: 2900 ± 250 Hz, 3 ± 25% Beeps/second

BSS 1070

Cole Hersee Dual Alarm



- Buzzer and LED light operate simultaneously
- Terminals can be connected with either polarity
- 12 VDC non-ground

COH 4112-RC

Fireboy/Xintex Diesel Engine Automatic Shutdown System



Compressed gas suppressant will not shutdown a diesel engine. If fire breaks out aboard a diesel-powered vessel, the engine must be shut down immediately. Continued operation may remove the agent creating the possibility of re-ignition. Fireboy engine shutdown systems respond automatically when a Fireboy system discharges. All systems are solid state for greater reliability. The display unit comes with an integrated alarm horn, charged / discharged lights and an override switch for restart or control of auto-shutdown.
*Additional wire harnesses are available for a second station.

FBY ES-3000-01 3 x 10 amp circuits 12V

Fireboy/Xintex Deluxe Discharge Alarm Panel



- 2-3/16" round black bezel
- 68 dBA horn sounds at low pressure or extinguisher discharge
- Reverse polarity protected
- 9-30 VDC, 3-wire connection

FBY DU-RBH-01-R

Fireboy/Xintex Charged/Discharged Panel



- 2-1/2" round plate has adhesive back for easy panel mounting
- Green warning lamp provides constant monitoring of the system
- One comes in each CG and MA systems

FBY 90107

Marine Technologies Bilge Alarm



- Visual and Audible Alarm Indicator: Dual signaling before maximum bilge water conditions exist, sounds an alarm & activates warning light
- Exclusively designed for the harsh marine environment
- Float Sensor: Monitors bilge for high water. Will not false alarm from morning dew, high humidity, splashes, hose over spray or buildup of oil or contamination
- Microprocessor controlled: Eliminates false alarms from rough seas, chop and vibration
- Test/Mute button: Tests alarm with a push of a button. Mutes alarm while boater investigates the problem
- Easy installation: Install at the helm or in the cabin
- Compliant with ABYC Standard H-22
- Meets ABYC H-22 section 22.7.3 effective 7/31/2006
- Power 12VDC, operational range +/- 15%
- 10 mA (.01 amp.) current draw allows 'always on' operation
- Alarm triggers before maximum bilge water level is reached
- Display Panel Size: W: 3.7" x H: 2.85" x D: .75"

MTI SA-1000XL

Nortek Alarm Panel



- Combination smoke, fire, and bilge alarms
- 12 or 24 VDC operation
- Provisional for dual power sources
- Monitored lines
- Monitored power supply
- Dimmable display
- Audible and visual alarm display
- Latched alarm conditions
- Test button provides the checking of lamp driver circuits, audible indicator and the panel fail/watchdog circuit
- 8" x 4"

NTK ALP504

Propane Solenoid Valve



- AUL listed, 12 volt solenoid with automatic fail-safe feature
- Power requirements: 6 watts, current: .6 amps
- Maximum pressure: 312 psi
- Mount on tank side of LPG regulator
- In-line 1/4" IPT ports
- Normally closed

PRP SV-S121

Sea-Dog Bilge Water Alarm



- Panel provides both audible and visual warning for bilge level
- Control switch selects between automatic and manual (momentary on) function of bilge pump
- 20A fuse holder
- Constructed of injection molded ABS
- Installs with gasket and 4 RH fasteners (included)
- H: 4-11/16" x W: 2-3/8"

SED 423037-3

Fireboy Fire Protection

Extinguishant: ... FK-5-1-12 clean extinguishing agent, approved for marine use worldwide (EPA SNAP, European)
Actuation: ..... CG2 systems, direct heat only.
..... MA2 systems, direct heat and/or mechanical pull cable for manual discharge.
Limitations: ..... DO NOT install a Fireboy rated for less than the total volume of your engine compartment. You may NOT
..... combine the rated volume of two systems to equal the total volume of your engine compartment.
Refillability: ..... All extinguishers are currently manufactured in refillable cylinders; systems used in a fire are not refillable.
Warranty: ..... Three-Year Limited

Fireboy Automatic CG-0 Clean Agent Systems

International system approvals (FM, USCG, CE, RINA, BV) for Class B fires in engine compartments, machinery spaces, and similar industrial applications. Total flooding of the engine compartment in less than 10 seconds, with no harmful residue to clean up. Each system includes a heavy-duty powder coated steel shelf bracket system, and helm display. Helm display has an LED "charged/discharged" status indicator panel, and there is also an easy to read, colour coded pressure gauge on cylinder to indicate whether the unit is charged or discharged. Automatic, heat-activated discharge. Three year limited warranty. Vertical system.

Part #	Max. Volume Protected	Actuation Temp.	Diameter	Height	Weight
FBY CG0-075-NVC-F	75 cu ft	175ºF	4.3"	17"	14 lbs
FBY CG0-200-NVC-F	200 cu ft	175ºF	6.3"	18.7"	28 lbs
FBY CG0-500-NVC-F	500 cu ft	175ºF	7.1"	28.8"	60 lbs

D.G.



Fireboy Manual MA-0 System

All the same features of the CG-0 systems with the addition of providing optional, manual activation by means of a mechanical pull cable. Cable kits are packaged and sold separately and available in lengths of 6 to 30 feet, in two foot increments. (Longer cable kits available on special order). Primary, heat activation is still automatic. The manual feature is a back up for those who prefer this extra measure of control, or for inspected vessels who are required by USCG regulation. Three year limited warranty. Vertical system.

Part #	Max. Volume Protected	Actuation Temp.	Dia.	Height	Weight
FBY MA0-175-NVC-F	175 cu ft	175ºF	6.3"	20.2"	26 lbs
FBY MA0-200-NVC-F	200 cu ft	175ºF	6.3"	20.2"	28 lbs
FBY MA0-325-NVC-F	325 cu ft	175ºF	7.1"	22.3"	43 lbs

D.G.

Parts:

FBY E-4209-06	6' cable assembly
FBY E-4209-16	16' cable assembly
FBY E-4209-20	20' cable assembly

First Alert Dry Chemical Fire Extinguishers

- Durable metal head - designed to meet demanding needs
- Metal gauge resists corrosion - easy-to-read colour coded gauge provides accurate measurement
- Metal pull pin with safety seal prevents accidental discharging - helps discourage tampering
- Plastic bracket and strap are included for secure placement of extinguisher - easy instructions
- Chemical resistant & water proof label with 4-step instructions won't deteriorate under marine conditions

Part #	Nominal Capacity lbs	U/L Rating	Colour	Dia x Length	Weight
FIR FE1A10GO/WA	2.5	1A-10-B:C	White	3.6" x 14"	4.7 lbs
FIR FE1A10GOA	2.5	1A-10-B:C	Red	3.6" x 14"	4.7 lbs
FIR FE5GO-MNA **	2.5	5-B:C	White	3.6" x 12"	4.2 lbs
FIR FE3A40A †	5	3A-40-B:C	Red	6" x 17.4"	9.8 lbs
FIR BRACKET-2	Small metal mounting bracket W: 2" X H: 7.8"				
FIR BRACKET-5	Large metal mounting bracket W: 2.5" x H: 8.3"				



FE3A40A

D.G.

** While Stock Lasts

†**NOTE** The FIR FE3A40A comes with a mounting clip, which is not Coast Guard approved. For certification each fire extinguisher must have the appropriate mounting bracket FIR BRACKET-5 added. (Ordered separately)

Fire Extinguishers			
Class A	Class B	Class C	Class D
Solid Fuel Fires	Liquid Fuel Fires	Energized Electrical Fires	Combustible Fires
Wood	Petroleum products	Electric motors	Magnesium
Plastic	Alcohols	Transformers	Titanium
Cloth	Solvents	Appliances	Zirconium
Paper	Paint Product	Distribution panels	Lithium
Rubber			Potassium
Extinguishing Agents			
Water			
Dry chemical	Dry chemical	Dry chemical	Specialized dry powder
Halogen agents	Halogen agents	Halogen agents	
HFC-227ea	HFC-227ea	HFC-227ea	
	Carbon Dioxide (CO2)	Carbon Dioxide (CO2)	

First Alert Fire Spray

This product's portable size makes it ideal for a galley. It's easier to use and discharges four times longer than a regular fire extinguisher, making it effective against common fires. The biodegradable formula is easy to clean up, so you don't have to worry about making a mess indoors.

- Size: 8.2" L x 2.5" W x 9.5" H
- Effective on paper, wood, fabric, cooking oils and electrical fires
- Warranty: 3 years

FIR 1043283



D.G.

UL rated type 1-A:10-B:C
Effective against the most common household fires: wood, paper, fabric, flammable liquid fires and live electrical equipment fires
UL rated class 10-B:C
Effective against flammable liquid fires and live electrical equipment fires
UL rated type 5-B:C
Effective against flammable liquid fires and live electrical equipment fires
UL rated class 3-A:40-B:C
Effective against the most common household fires: wood, paper, fabric, flammable liquid fires and live electrical equipment fires

First Alert Dry Chemical Fire Extinguisher

- Durable composite head
- Bracket and strap included
- Chemical resistant & water proof label with 3-step instructions
- UL rated type 5-B:C, effective against flammable liquid fires and live electrical equipment fires



D.G.

Part #	Nominal Capacity	Colour	Dia x L (overall)	Weight
FIR FE5R-PWCNA	2.5 lbs	White	2-7/8" x 12-1/2"	3.5 lbs

Davis Super Quick Fist



- Ideal for transporting fire extinquishers
- Mounts with three #10 bolt or screw
- Hold objects from 2-1/2" to 7-1/2" diameter
- Approximate capacity is 50 lbs each
- Mounting base: 7/8" x 6"

DIN 544

Scotty Nozzle



- Fog/stream nozzle with a 70 GPH flow rate
- Twist shut-off.
- High impact nylon
- 1-1/2" threaded attachment.

SCO 4038HF

Tuff-Lite Thermoplastic Fog Nozzles



- Plastic fire hose nozzles are adjustable from straight stream to fog
- Designed for use up to 100 PSI
- Nozzle has a black rubber bumper

TLF FNB75GHT	3/4" garden hose
TLF FNB150S	1-1/2" pipe

Marine East Fire Ports



6800

Allows you to visually inspect an engine compartment without opening it and adding oxygen to the fire
Concentrates extinguishing chemical
Cut Out: 1-7/8", OD: 2-3/4"

MEP 6800	White port flap, engine box
MEP 6960	Clear port flap
MEP 6990	Clear port flap, with sticker

Fire Axes



- Red axe with spike
- 36" hardwood handle

TOO 61FM412B36	4-1/2 lb head
TOO 61FM6B36	6 lb head

Lifeboat Hatchet

- 14" hardwood handle

TOO 2015	1-1/4 lb

Perko Axe Bracket



- Polished stainless steel
- Set consists of one blade socket and one handle bracket
- For blades to 6" width

PER 325-000-STS

Fire Bucket



- Electro-galvanized metal
- Round bottom pail
- Red-painted and marked

"FOR FIRE ONLY"

PAL FW-FRPL-01

MRT Thru-Hull Plugs

- Tapered, thru-hull plugs for stopping disabled connectors
- Part # number denotes length
- Sold each

Part #	Taper
DEC 4"-RED-CEDAR	7/16" - 1"
DEC 6"-RED-CEDAR	5/8" - 1-5/8"
DEC 8"-RED-CEDAR	3/4" - 2"
DEC 10"-RED-CEDAR	1" - 2-1/2"
DEC 11"-RED-CEDAR	1-5/8" - 3-1/2"



Forespar
Sta-Plug Emergency Plugs

- Soft foam fits irregular shaped leaks and holes
- Can easily be cut with a knife to fit smaller holes
- Ridged edges help hold plug in place
- Fits into hard to reach areas

NOT INTENDED FOR FUEL LEAKS



- Base: 4-3/4" x Height: 8-3/4"

FRS 150110 Each

Sta-Plug Mini Emergency Plugs



- Includes lanyard hole
- Base 2" x Height: 4"

FRS 150112 Pair

Cal-June Trolling Sea Anchors



- Vinyl coated nylon
- 1" webbing shroud lines
- Easily collapsible for storage
- Will not rot or mildew
- 929: USCG approved for storm sea anchor

Part #	Dia.	Boats
CAL 926	18"	up to 25'
CAL 927	24"	26' - 46'
CAL 928	30"	47' - 66'

Canada Cordage Sea Anchor Line



33' of 5/16" 3-strand nylon with a 5/16" galvanized thimble spliced into one end.

CCI SAL-5/16"N

Fitzwright Lifebuoy Light



- Automatically activates after release
- 5 year lithium battery
- TC and SOLAS approved

FIT FW-61010A

Life Rings

55-143F / 141F



- U.S. Coast Guard, Canadian Coast Guard and DOT approval
- Rigorously tested and monitored by the Underwriters Laboratories of the United States and Canada
- Ring bodies are warranted for seven years under all climatic conditions and are resistant to fire, oil and gas
- The hard shell prevents tearing and ripping and is virtually vandal proof
- Design allows for easy rope replacement
- Roto-molded for strength with a polyethylene shell and filled with closed celluar foam



56-103-F

LIF 55-143-F 24" Orange, ring only
LIF 55-141-F 24" White, ring only
LIF 56-103-F 30" Orange, ring only, SOLAS approved

Accessories:

LIF 3/8"X50HBY-LINE 3/8" x 50' Yellow hollow braid line
LIF 3/8"X100HBY-LINE 3/8" x 100' Yellow hollow braid line

Sea-Dog Ring Buoy Bracket Rail Mount



- Powder coated stamped aluminum with nylon rail fitting
- Fits 7/8" - 1" tubing or can be mounted directly to a flat surface
- Inside diameter: 3-7/8"
- Stainless steel fasteners

SED 327130-1

Sea-Dog Ring Buoy Bracket Rail Mount



- Powder coated stamped aluminum with nylon rail fitting
- Fits 7/8" - 1" tubing or can be mounted directly to a flat surface
- Inside diameter: 4-1/4"
- Stainless steel fasteners

SED 327135-1

Sea-Dog Ring Buoy Bracket



- Polished stainless steel
- Hook I.D. 4"

SED 491240-1

Perko Ring Buoy Holders



- W: 3", Overall height: 4-1/2"

PER 1017-000-PLB ** Brass
PER 1017-DP-CHR Chromed brass
** While Stock Lasts

Fitzwright SOLAS Reflective Tape



Type 2 SOLAS indoor/outdoor usage tape for life saving appliances, such as life jackets, life rafts, or life boats.

- Encapsulated lens sheet with flexible and fully transparent plastic foil
- Specifically designed for the marine/offshore industry with a long life span, high clarity, and anti-elamination
- High reflectivity over a wide range of entrance angles
- USCG compliant
- 2", 150' roll is sold by the foot

FIT TM3150A White

3M High Intensity Prismatic Reflective Tape



A non-metalized, microprismatic-lens reflective sheet material designed for wide-angle retroreflectivity at any orientation. This especially excels at maintaining brightness, even in low light conditions.

- Durable, UV-resistant top film resists wear and tear
- Pressure-sensitive adhesive backing aids in fast and efficient application
- Ideal for aluminum sheets and extrusions
- Apply to clean, smooth, flat, rigid, dimensionally-stable, weather-resistant, non-porous, high surface energy surfaces
- 2" x 50 yds

THR 3930 White
THR 3931 Yellow

First Aid Thermal Survival Blanket



- 52" x 84"
- Wind & water resistant

CFK FSFBLANKET

Airhead Rescue Throw Bag



- 50 foot rescue line
- Integrated strap with side release buckle
- Easy to understand and implement graphics are printed on the outside of the bright orange nylon bag

AIR LL-1

Fox 40 Rescue Throw Bag

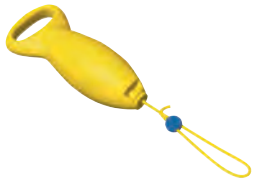


- Waterproof throw bag contains a length of premium braided polypropylene floating rope with 900 lb breaking strength
- Easy to use and handle

7907-0102

FOX 7907-0102 50' Red bag
FOX 7909-0302 90' Orange bag

Fox 40 Watercraft Safety Throw



- Body of the water safety throw has an integrated handle, clearly visible and easy to grasp
- Quick-release plug prevents rope from deploying inadvertently
- 50 ft (15 m) length of polypropylene braided floating rope has 900lbs breaking strength
- Superior alternative to fabric throw bags

FOX 7901-0201

Scotty Rescue Throw Bag



- 50' x 9/32" 660 lb test
- Braided MFP polypropylene floating rope
- Bright orange nylon and polyester self-draining bag c/w adjustable strap
- 3M reflective safety band

SCO 793

Fox 40 Heaving Line



- Floating rope made from extra-fine polypropylene filaments woven into a high-density braid
- Softer and easier to handle than conventional coarsely-braided rope
- 50' length
- Float is made of expanded polyvinyl chloride

FOX 7905-0000 50'

Canada Cordage Polypropylene Heaving Lines



Incorporating a float, spliced to one end, these highly visible, buoyant polypropylene heaving lines exceed pleasure craft needs and meet commercial requirements.

CCI HL-3/8"X100'	3/8" x 100'
CCI HL-5/16"X50'	5/16" x 50'
CCI HL-5/16"X90'	5/16" x 90'

Wesmar Float



- Polyfoam construction
- Approx 3-1/2" diameter by 5-7/8" long
- Maximum 3/4" line

WES NYE-6W

Airhead Floats



- Ultrasonically welded plastic
- L: 5" x Dia: 3" with a 1/2" centre hole

AIR F-5Y	Yellow
AIR F-5R	Red

Airhead Lifeline Boat Safety Kit

This boat safety kit contains 4 items required by the Canadian Coast Guard for boats up to 8 metres (26 ft.) long.



- 15 metre (50') buoyant heaving line
- Bailer (watertight container)
- Sound signalling device (pea-less whistle)
- Watertight flashlight
- Requires 2 AA batteries (not included)

AIR LL-2

Scotty Small Vessel Safety Kit



For vessels up to 8 metres

- 15 m buoyant heaving line (attach to bailer for maximum heaving distance)
- Bailer. (watertight container)
- Sound signalling device (whistle)
- Watertight flashlight
- Requires 2 AA batteries (not included)
- Meets CCG minimum standards

SCO 779

Fox 40 Boat Safety Kit

Innovative design makes the bailer easy to grab in an emergency. Includes all minimum safety requirements for your personal watercraft - no need to buy everything separately.



- Pealess safety whistle
- 50' (15 m) water safety rope
- Bailer capped with mirrored lid
- Watertight LED flashlight
- Uses 2 AA batteries (included)

FOX 7903-0201

Fox 40 Boat Essentials Kit

Basic waterproof kit designed to help bring your Boat, Canoe or Kayak up to regulations. Container also acts as bailer bucket.



- Watertight flashlight (w/"AA"batteries)
- Pearl pealess safety whistle
- 50 ft (15 m) braided rope & float
- Requires 2 AA batteries (not included)

FOX 7910-0200

Fox 40 Deluxe Boat Safety Kit



- Components fit in black and red snap-lid case, with room left for other items to be added if needed
- Case: W: 15.5" x H: 7" x D: 9.5"

Deluxe Kit includes:

- Waterproof marine incandescent flashlight (includes 2x AA batteries)
- Pealess safety whistle
- 50 ft (15 m) braided rope & float
- 2.0 lb 1A5BC fire extinguisher
- 1.5 kg anchor
- 50 ft (15 m) anchor line with carabiner clip
- 2L bailer with inner mirrored lid

D.G.

FOX 7911-0002

Fox 40 Stand Up Paddleboard Safety Kit



- Kit has a zippered main compartment and waterproof resealable + removable inner pouch; includes hideaway water bottle holder with stabilizing carabiner
- 210D polyurethane-coated waterproof diamond ripstop polyester
- Includes polyurethane-coated waterproof zipper and 2 D-loops
- Extra-fine polypropylene double braid rope; lab tested to 900 lb breaking strength
- XP LED light (with batteries) has an ABS plastic body
- Micro whistle (110dB)
- Waterproof Level: IPX4

FOX 7928-1300

Fox 40 Paddlers Safety Pack



The Paddlers Safety Pack includes compact items for all rescue and first aid needs

- Dry bag
- 50 ft (15 m) woven polypropylene rope
- Bilge sponge
- Clear waterproof screw-top container/bailer
- 2 glow sticks
- Compass
- Xplorer LED light
- Micro pealess safety whistle (110 dB)
- Micro first aid kit

FOX 7928-0200

Scotty Watertight Emergency Equipment Container



Rugged plastic container in international orange for dry storage of flares, first aid equipment, emergency rations, matches, etc. Net buoyancy: 1 kg (2.2 lbs)

SCO 774

BoatMates Safety Gear Bag



- Commercial weight ventilated bag
- Holds 4 adult and 2 children PFDs in main body, plus separate storage area in lid holds first-aid supplies, safety flares, distress flag, air horn, etc
- Large mesh pocket in front
- Heavy web carrying handles, non-skid feet on bottom, and grommet openings for drainage
- Nylon self-repairing zippers on bag and lid
- D-rings on each end allow bag to be secured to deck on boat or dinghy

BOT 3118-6

Comet Sea Distress Signals and Devices

Manufactured by Comet GmbH in Germany to the highest standard. Sold worldwide in more than 40 countries. Comet distress signals have been granted approvals in nearly all ocean going nations. Reliable, high performance signals and devices for commercial shipping and the pleasure boat market.

Type-A

Comet Parachute Rocket - Red



Distress signal for ships (bridge), lifeboats, and life rafts according to SOLAS regulations. Self contained. Hand operated. Negligible recoil. Altitude 300 metres. Burning time 40 seconds. Light intensity 40,000 cd. DOT approval #32-42. Also USCG approved.

D.G.

COM 1631 Each

Type-B

Hard case



Carded



Comet 12 Gauge Twin Star Signal Kits

D.G.

Kit includes:
(1) signal gun
(6) twin star flares
Available in a hard shell plastic case or carded

COM 1774KIT Hard case
COM 1774KIT1 Carded

Accessories:

COM 1774-CASE Hard case only
COM 1775 * 12-gauge pistol only

* Special Order - may have stock

Type-B

Comet 12 Gauge Twin Star Flares



- Twin red star flare in a self-contained intrinsic cartridge
- Luminous intensity: more than 10,000 cd
- Burning time: more than 5.5 sec.
- Altitude: 61 metres
- Transport Canada Approved

D.G.

COM 1774 Each

Type-B

Comet Skylite Distress Flares - Red



- Type B dual star signal in a self-contained intrinsic cartridge
- Approved for use on pleasure craft and uninspected vessels only
- DOT approval #32-59
- Altitude 60 metres
- Burning time 5.5 seconds
- Light intensity 10,000 cd

D.G.

COM 1228-6 6/pkg*
COM 1228-3 3/pkg*
COM 1228EA Each

* Flares are packed in heat sealed poly bags

Type-C

Comet Hand Flares - Red



Hand distress signal for life-boats and life rafts according to SOLAS regulations as well as for small commercial and pleasure vessels. DOT approval #32-39. Burning time 60 seconds. Light intensity 15,000 cd. drip proof while burning.

D.G.

COM 1520 6/pkg*
COM 1628 Each

* Flares are packed in heat sealed poly bags

Type-B & C

Comet Combination "F" Pack



This convenient flare package contains:
(4) type B 1228 flares and
(2) type C 1628 flares
This combination gives you day/night and alert and locate - range signalling ability.

D.G.

COM F-PACK 6/pkg*

* Flares are packed in heat sealed poly bags

Type-D

Comet Smoke Signal - Orange



For use in day distress signal situations and to mark the position during a rescue operation, according to SOLAS regulations. Safe on oil and gasoline covered water. Smoke duration 4 minutes.
DOT approval #32-49.

D.G.

COM 1920 Each

Comet Watertight Container



Large enough to hold 12 parachute rockets
- Heavy duty plastic
- H: 15.7" x Dia: 8.6"

COM 1280

Comet Line Throwing Device



Self-contained line throwing appliance. Plastic launcher with 250m of 4mm dia line. Needs to be fitted with 1127 rocket prior to use. Typically 4 units required to be carried on SOLAS vessels. Replace container along with every third set of rockets i.e. after 9 years. Non-hazardous for transport without rocket fitted. Safe and easy to handle, this ergonomic and compact design weighs 4.3 kgs.

D.G.

COM 1605 Line throwing unit, no rocket
COM 1127 Spare rocket

Comet Man Overboard Light/Smoke/Signal LED



- Produces a light signal and smoke signal in man overboard cases according to SOLAS regulations
- Dense orange smoke produced for 15 minute duration
- The signal is safe on oil or petrol covered water
- Lithium primary cell battery will last the lifetime of the signal
- Constructed of aluminum and plastic
- Bracket mounted
- Burn time: 2 hours
- LED light: 2 candela
- Smoke: 15 minutes
- H: 14.76" x Dia: 7.2"
- Weight 3.3 kg

D.G.

COM 1816

Sirius Signal SOS Electronic Distress Signal LED



- Two-colour electronic Visual Distress Signal Device (eVDSD)
- The only product on the market that meets the new standard for a light to replace flares on recreational vessels in Canada*
- Meets the new RTCM (Radio Technical Commission for Maritime Services) 13200.0 eVDSD
- Five times brighter with 13 LEDs
- Bluetooth enabled with enhanced connectivity
- Includes the Sirius Signal App for iOS & Android cell phones
- Requires (8) CR123 batteries - included
- H: 8-1/2” x D: 5"

*** Must also carry a single daylight smoke signal to be legal, such as the Comet 1920. SEE: TP 13585 E: Tier I - Policies @ tc.canada.ca**



SIR C-1002
Accessories:
SIR CSM-1000 Mount

ACR Firefly 3



- Manually activated rescue strobe
- 360° high intensity xenon strobe, visible up to 1.9 km
- Large sliding switch
- Waterproof
- Uses either (2) alkaline or lithium AA batteries (not included)
- SOLAS approved when used with lithium batteries only
- 4.72" x 2.24" x 1.1"

ACR 3995.4 ** bulk

** Whjle Stock Lasts

ACR FireFly Pro Waterbug



- A SOLAS-approved strobe light with a built-in water activation feature that will automatically activate once submerged
- 4 activation functions, toggle between the armed mode for automatic water activation, ultra-bright strobe light or the SOS strobe to visually alert Search and Rescue of your location, then toggle to the Steady-On feature for close up recovery operations.
- Cool white colour LEDs produce a 360° beam of light that is over 41 candelas bright allowing for visibility of over 3.5 miles
- Energy efficient microprocessor and redesigned electronics, with a single set of AA lithium batteries, the Firefly PRO will continuously strobe for over 56 hours or use the Steady-On feature for 28 hours
- 4.4" x 2.2" x 1.2", 2.39 oz (68 g) (without batteries)
- SOLAS, USCG, MED, IMO LSA, CE

ACR 3971.3

ACR FireFly Pro - SOLAS



- Three activation functions, toggle between the ultra-bright strobe or the SOS strobe to visually alert Search and Rescue of your location, then toggle to the Steady-On feature for close-up recovery operations.
- New wide light emission LEDs produce a 360° beam of light (41 candela) allowing for visibility of over 3 miles.
- Cool white light
- Two lashing loops and included Velcro strap
- 4.4" x 2.2" x 1.2", 2.39 oz (68 g) (without batteries)
- SOLAS, USCG, MED, IMO LSA, CE

ACR 3970.3

ACR HemiLight3 LED



The choice of cruise lines worldwide, the ACR Auto HemiLight3 flashing survival light attaches to almost any style life jacket to safely meet USCG, MED and SOLAS requirements.
The high-intensity flashing LED light automatically activates for 20+ hours when it comes in contact with salt or fresh water, and can be deactivated simply by pushing the red button.

- Size: 2.44 x 1.19 x 1.13" (6.19 x 3.02 x 2.87 cm)
- Weight: 0.98 oz (28 g)

ACR 3764 Bulk

ACR C-Light LED



- Easy twist On/Off activation
- Exceedingly bright 20 Lumen White LED
- Extensive continuous operating life of greater than 30 hours
- Waterproof - Tested for 24 hrs at 3.3 ft. (1m)
- Included Velcro strap used in conjunction with integral lashing loops for mounting flexibility
- Included PFD clip for easy attachment to oral inflation tube
- 5.06" x 1.38" x 1.2" (12.85 x 3.5 x 3.0 cm)
- Weight: 1.2 oz (33 g) without batteries
- Battery: 2 AA batteries (sold separately)
- USCG/SOLAS, CE, Transport Canada

ACR 3963.1

ACR C-Light H2O LED



The C-Light H2O model includes two activation methods; the light can easily be activated with a simple push of the On/Off button or when in the armed position, can be activated automatically when immersed in water.

- For location assistance during low-light emergencies
- Exceedingly bright 20 Lumen White LED
- Extensive continuous operating life of greater than 30 hours
- Waterproof - Tested for 24 hrs at 3.3 ft. (1m)
- Uses two "AA" 1.5V batteries (not included)
- Included Velcro strap used in conjunction with integral lashing loops for mounting flexibility
- Included PFD clip for easy attachment to oral inflation tube
- 5.56" x 1.38" x 1.2"
- Weight: 1.4 oz without batteries
- USCG/SOLAS, CE, Transport Canada

ACR 3962.1

ACR C-Strobe H2O LED



The C-Strobe H2O model includes two activation methods; the light can easily be activated with a simple push of the On/Off button or when in the armed position, can be activated automatically when immersed in water.

- For location assistance during low-light emergencies
- 3 Modes - Strobe, Steady-On, and SOS
- Exceedingly bright 45 Lumen White LED
- Extensive continuous operating life of greater than 120 hours (strobe mode)
- Waterproof - Tested for 24 hrs at 3.3 ft. (1m)
- Uses two "AA" 1.5V batteries (not included)
- Included Velcro strap used in conjunction with integral lashing loops for mounting flexibility
- Included PFD clip for easy attachment to oral inflation tube
- 5.56" x 1.38" x 1.2"
- Weight: 1.4 oz without batteries
- USCG/SOLAS, CE, Transport Canada

ACR 3964.1

ACR C-Strobe LED



- Easy twist On/Off activation
- Exceedingly bright 45 Lumen
- White LED Extensive continuous operating life of greater than 120 hours
- Waterproof - Tested for 24 hrs at 3.3 ft. (1m)
- Impact resistant case
- Uses two "AA" 1.5V batteries (not included)
- Included Velcro strap (with carded version) used in conjunction with integral lashing loops for mounting flexibility
- Included PFD clip (with carded version) for easy attachment to oral inflation tube
- 5.06" x 1.38" x 1.2" (12.85 x 3.5 x 3.0 cm)
- Weight: 1.2 oz (33 g) without batteries
- Battery: 2 "AA" batteries (sold separately)
- USCG/SOLAS Approved

ACR 3965.1

Forespar Water Light LED



This rugged water light produces brilliant LED strobe flashes automatically when thrown overboard and is visible for miles at sea. When used with a 6 volt alkaline lantern battery (not included) it will flash at the USCG required rate for over 1000 hours.

- Stainless steel mounting bracket included
- Meets USCG requirements (46 CFR-161.010)
- H: 11-1/2" x Dia: 4"

FRS 205102

Ocean Signal rescueME EDF1 - Electronic Distress Flare LED

The rescueME EDF1 electronic distress flare offers users a safe and long-lasting solution to visual signalling in an emergency.



- Compact, rugged design
- Light output is a beam of over 30° throughout the full 360° azimuth
- Excellent visibility for aircraft and helicopter SAR
- Up to 6 hours battery use, with constant brightness maintained throughout the life of the battery
- Four modes of operation plus SOS signalling
- Easy change replaceable battery
- Range up to 7 miles
- Waterproof to 10 meters
- Battery test function
- 7.36" x 1.65"
- Weight: 155g (5.5oz)

OCE 750S-01710

Personal Signaling Light Specifications

Model Product #	Size Weight	Water Resistance	Activation	Flash Rate	Lamp	Battery Type	Certification	Operational Life
Hemilight 3 ACR 3764	2.44" x 1.19" 28 g	To 10 ft	Water (Deactivate via manual off button)	Strobe	LED	Non-hazardous lithium. Meets DOT and IATA rules for safe transport. 5 year life - not replaceable	USCG, MED, SOLAS	exceeds 8 hours, typically 20+ hr
C-Light H_2O ACR 3962.1	5.56" x 1.38" 40 g	Tested 24 hrs @ 3.3 ft (1m)	Water or Manual	Steady On	20 Lumen White LED	2 AA batteries (sold separately)	USCG, SOLAS, CE, Transport Canada	>30 hr at 30°C (>20 hr at -1°C)
C-Light ACR 3963.1	5.06" x 1.38" 33 g	Tested 24 hrs @ 3.3 ft (1m)	Manual	Steady On	20 Lumen White LED	2 AA batteries (sold separately)	USCG, SOLAS CE, Transport Canada	>30 hr at 30°C (>20 hr at -1°C)
C-Strobe H_2O ACR 3964.1	5.56" x 1.38" 40 g	Tested 24 hrs @ 3.3 ft (1m)	Water or Manual	Strobe Steady-On SOS	45 Lumen White LED	2 AA batteries (sold separately)	USCG, SOLAS, CE, Transport Canada	>120 hr at 30°C (>100 hr at -1°C)
C-Strobe ACR 3965.1	5.06" x 1.38" 33 g	Tested 24 hrs @ 3.3 ft (1m)	Manual	Strobe	45 Lumen White LED	2 AA batteries (sold separately)	USCG, SOLAS, CE, Transport Canada	>120 hr at 30°C (>100 hr at -1°C)
Firefly PRO SOLAS ACR 3970.3	4.4" x 2.2" 68 g	Factory tested to 33 ft. (10 m)	Manual ON/OFF switch	41 cd (Strobe) 60 P/M +/-	LED Cool white	2 AA lithium batteries (sold separately)	SOLAS, USCG, MED, IMO LSA, CE	56 hours
Firefly PRO WATERBUG ACR 3971.3	4.4" x 2.2" 68 g	Factory tested to 33 ft. (10 m)	Manual ON/OFF switch and Water	41 cd (Strobe) 60 P/M +/-	LED Cool white	2 AA lithium batteries (sold separately)	SOLAS, USCG, MED, IMO LSA, CE	56 hours
Pylon Lifejacket Light SPI DW-PY/L1	23 cm antenna 37 g	N/A	Manual ON/OFF switch and Water	50 - 70 P/M	LED	Lithium Ion Cell	SOLAS, USCG, MED, IMO LSA	0.75 cd for 10+ hours
rescueME EDF1 Electronic Distress Flare OCE 750S-01710	7.36" X 1.65" 155 g	Waterproof to 10 meters	Manual	Four modes plus SOS	LED	Lithium Manganese Dioxide (LiMnO2) replaceable	-	Up to 6 hours battery use

Ocean Signal
rescueME PLB1 - Personal Locator Beacon

The rescueMe PLB1 can be operated with a single hand in even the most challenging situations, transmitting your position and your ID to a Rescue Coordination Centre via satellite link.

- No subscription required
- Global 24/7/365 Cospas-Sarsat rescue coverage
- 30% smaller by volume; easily fits in lifejacke
- 121.5 MHz SAR homing beacon, and 406 MHz distress signal with 66 channel GPSt
- Retractable antenna
- 7 year battery life; 24+ hour operational once activated
- High brightness strobe light >1 candela
- Unique mounting clip
- Waterproof to 49 feet; optional flotation pouch (sold separately)
- 3.03" x 2"
- Weight: 116g
- Limited Warranty: 5 years



OCE 730S-01261

Accessories:

OCE 731S-04078 Flotation pouch

Note: Will not float in an operating position in the pouch - please ensure PLB is firmly attached to the pouch with the provided lanyard, using suitable self locking knots

Ocean Signal
rescueME PLB3 - Personal Locator Beacon

The rescueME PLB3 includes AIS functionality, RLS technology, and NFC capabilities in one personal locator beacon.

- No subscription required
- Global 24/7/365 Cospas-Sarsat rescue coverage
- 406 MHz distress signal and 121.5 MHz local homing signal
- Simple life jacket integration
- AIS locating signal and Return Link Service compatible
- GPS, Galileo, and GLONASS
- Smartphone connectivity via Near Field Communication (NFC)
- Battery life: 6 years from manufacture, or 5 years after beacon is placed into service, with 24+ hour operational life
- Strobe and infrared strobe light
- Waterproof
- Standards: Cospas-Sarsat, FCC, Canada
- H: 7.87" x W: 1.41" x D: 1.81"
- Weight: 190 g
- Limited Warranty: 5 years



OCE 732S-03668

Accessories:

OCE 733S-03674 Belt clip

ACR ResQLink PLB 400



Small but resilient, the ResQLink 400 has been professionally engineered and tested to ensure it can withstand even the harshest elements. This buoyant Personal Locator Beacon requires no subscription for use and can be utilized to enhance your safety in a wide variety of environments.



- No subscription required
- GPS and Galileo GNSS
- Built-in buoyancy
- Strobe and infrared strobe
- Global coverage
- MEOSAR compatible
- Small and lightweight
- 5-Year battery life
- 24+ Hours operational life
- Multi-function clip system included
- L: 4.52" x W: 2.03" x D: 1.49"
- Weight: 0.33 lbs
- Limited Warranty: 5 years

ACR 2921.63

ACR ResQLink View PLB with Digital Display



Small but resilient, the ResQLink View has been professionally engineered and tested to ensure it can withstand even the harshest elements. This buoyant Personal Locator Beacon requires no subscription for use and includes a digital display providing live status and GPS coordinates.



- No subscription required
- GPS and Galileo GNSS
- Built-in buoyancy
- Strobe and infrared strobe
- Global coverage
- MEOSAR compatible
- Small and lightweight
- 5-Year battery life
- 28 hours Operational Life
- Multi-function clip system included
- Exclusive ACR Skins included with purchase (customize your beacon and tailor it to your lifestyle and preferred activities)
- L: 4.52" x W: 2.03" x D: 1.49"
- Weight: 0.33 lbs
- Limited Warranty: 5 years

ACR 2922.63

ACR ResQLink AIS PLB-450 LED



Combines the global response of the Cospas-Sarsat Satellite rescue services with the transmission of AIS location signals. The ResQLink AIS is designed to install within a life jacket; activates upon inflation (semi-automatic), or can be attached to belt or webbing via included webbing clip.

- No subscription fees
- GPS, Galileo, and Glonass
- AIS MOB signal
- Return Link Service (RLS) feedback
- 406 MHz and 121.5 MHz signals
- Built-in LED and IR strobe array
- Manual or semi-automatic when fitted to compatible life jacket
- Waterproof
- 5 year battery life, with 24 hour typical operation
- Approvals: Cospas-Sarsat, FCC, Canada, RED, AMSA
- L: 7.87" x W: 1.41" x D: 1.81"; Weight 0.42 lbs
- Limited Warranty: 5 years

ACR 2933.63

Ocean Signal EPIRB1



This compact EPIRB can be easily retained within its quick release bracket or placed in an emergency grab-bag or life raft. For longer offshore or ocean passages, the EPIRB 1 Pro offers automatic release housing (ARH is mandatory for vessels approved under SOLAS regulations).

- 30% smaller compared to other products with approved standards
- 406 MHz satellite transmission
- 121.5 MHz homing signal
- 10 year battery life, with 48+ hours of operational life
- Fast accurate positioning with 66 channel GPS
- Two high brightness strobes
- Secure lanyard
- LED strobe
- Retractable antenna is easily deployed with a gentle pull
- Size: 7" x 3.5" (3.94" over lanyard tab) (EPIRB1 only)
- Weight: 422g
- Approvals: Cospas-Sarsat, FCC, USCG, Canada
- Limited Warranty: 5 years

rescueME EPIRB1 Category II

- Quick release bracket

OCE 702S-01540 Manual

SafeSea EPIRB1 Pro Category I



Category I shown installed in Automatic Release Housing

- Float free Automatic Release Housing (ARH) with Hydrostatic Release Unit (HRU)
- Antenna folds into housing unit
- Adapter bracket and mounting screws

OCE 702S-03401 Automatic

Parts:

OCE 701S-00608 Replacement HRU

OCE 701S-00616 Auto release housing arm

Ocean Signal EPIRB3



The Ocean Signal EPIRB3 packs a host of features into a compact, modern design which includes AIS technology. For longer offshore or ocean passages, the EPIRB 3 Pro offers automatic release housing (ARH is mandatory for vessels approved under SOLAS regulations).

- AIS locating signal
- 406 MHz satellite transmission
- 121.5 MHz homing signal
- MEOSAR compatible
- Multi GNSS
- 10 year battery life, with 48+ hours of operational life
- Return Link Service confirmation direct to beacon
- Smartphone connectivity via Near Field Communication (NFC)
- Fast accurate positioning with 72 channel GPS
- Visible light and IR strobe
- Secure lanyard
- Protective tab over operating keys prevents accidental activation
- Retractable antenna is easily deployed with a gentle pull
- Size: 6.8" x 3.6" x 3.1"
- Weight: 422g
- Limited Warranty: 5 years



Quick release bracket

rescueME EPIRB3 Category II

- Quick release bracket

OCE 702S-03932 Manual

SafeSea EPIRB3 Pro Category I



Category I shown installed in Automatic Release Housing

- Float free Automatic Release Housing (ARH) with Hydrostatic Release Unit (HRU)
- Antenna folds into housing unit

OCE 702S-03933 Automatic

ACR GlobalFIX V5 EPIRB w/RLS and AIS



The ACR GlobalFix V5 EPIRB combines 406 MHz satellite connectivity with AIS functionality, and additionally provides RLS, a 121.5 MHz homing signal, visible and infrared strobe lights, and NFC.

- 121.5 MHz homing signal
- Return Link Service (RLS) confirms that the distress message has been received
- NFC (Near Field Communication) allows monitoring of the EPIRB's functions via a smartphone app - such as battery life, detailed information on GNSS tests, and amount of time the EPIRB has been activated
- Visible and IR strobe array
- 406 MHz
- Multi-GNSS compatible
- Waterproof with built-in buoyancy
- 10 year battery life (user replaceable)
- 48+ hours operational life
- L: 18.5" x W: 4.29" x D: 4.33" (extended)
- Weight: 1.78 lbs
- Approvals: Cospas-Sarsat, FCC, MED, MER

ACR 2851.63 Category I, automatic

ACR 2852.63 Category II, manual

ACR GlobalFIX V6 EPIRB with RLS



The ACR GlobalFix V6 EPIRB uses 406 MHz satellite connectivity to transmit emergency signals to the global Cospas Sarsat rescue system. Return Link Service (RLS) technology also provides visual confirmation to the user that their distress message has been received.

- 121.5 MHz homing signal
- NFC (Near Field Communication) allows monitoring of the EPIRB's functions via a smartphone app - such as battery life, detailed information on GNSS tests, and amount of time the EPIRB has been activated
- Visible and IR strobe array
- 406 MHz
- Multi-GNSS compatible
- Waterproof with built-in buoyancy
- 10 year battery life (user replaceable)
- L: 18.5" x W: 2.19" x D: 4.33" (extended)
- Weight: 1.78 lbs
- Approvals: Cospas-Sarsat, FCC, RED

ACR 2853.63 Category I, automatic
ACR 2854.63 Category II, manual

ACR Replacement Antennas



Fits: RCL-36 - GlobalFix iPro, RLB-37 - GlobalFix Pro, RLB-38 - Satellite 3, RLB-39 - RescueMate G, RLB-40 - RescueMate

ACR 9376

Replacement for RapidFix (2776, 2777), Sat II (2774, 2775), and GlobalFix

ACR 9368

ACR Hydrostatic Release Kit

When submerged in water between 5-13 ft. (1.5 - 4 m), the HydroFix will disengage the rod allowing the Category 1 bracket to release the EPIRB. ACR's HydroFix is now part of the standard replacement kit for the following EPIRBs* and brackets:



Satellite 406 RLB-27 2754/2756/ 2772
(Closed and Open Face Brackets)

Satellite2 406	RLB-32	2774
RapidFix 406	RLB-33	2776
GlobalFix 406	RLB-35	2742
Sea Shelter		9327
Sea Shelter2		9435/9455

- Expiry: 2 years from install or 3 years from date of manufacture

ACR 9490.1
*Not for use with RLB-23 406 EPIRB

Ocean Signal S100 SART

The SafeSea S100 Search and Rescue Transponder (SART) is a dedicated radar transponder which complies with IMO SOLAS regulations. When switched on, the SART remains in a standby mode until automatically activated by an X Band Radar sweep from any vessel in the vicinity. The SafeSea S100 transmits a series of pulses which are displayed on the ships Radar as a line of dots, providing a bearing to the survival craft



- Frequency range: 9.2-9.5 GHz
- Includes storage bracket
- Compact 8.94" x 2.56" unit easily packs into life raft
- Waterproof to 33 ft
- User replaceable, nonhazardous lithium battery (5-year replacement life) operates for over 96 hours in standby mode plus an additional 12 operational hours
- Worldwide certifications; complies with IMO, MED, FCC and IEC standards

OCE 710S-00607

ACR Pathfinder PRO SART

The Pathfinder Pro is a fully approved Search and Rescue Transponder (SART) that complies with IMO SOLAS regulations. When interrogated by radar, the Pathfinder Pro returns 12 intense blips back to the vessels radar screen, greatly enhancing search and rescue efforts.



- Unit transmits through 9.2-9.5 GHz band marine radar
- Includes vessel mounting bracket
- Compact 8.94" x 2.56" unit easily packs into life raft
- Waterproof to 33 ft
- Nonhazardous lithium battery (5-year replacement life) operates for over 96 hours in standby mode plus an additional 12 operational hours
- Worldwide certifications; complies with IMO, MED, FCC and IEC standards

ACR 2914

Ocean Signal AIS Alarm Box

The AIS alarm box is designed to ensure that the moment any AIS MOB or AIS SART signal is received an audible alarm is sounded ensuring everyone on the vessel is alerted to a possible MOB or a crew in need of rescue. Its simple design, compact nature and use of NMEA 0183 means that integrating the AIS Alarm Box into your AIS receiver and existing network is straight forward.
The Ocean Signal AIS Alarm has the ability to be programmed by the user with up to 30 individual MMSI numbers, multiple tones to identify the source of the AIS signal (MOB or SART) as well as being waterproof to allow for external mounting.



- Panel or bracket mount
- Detects AIS MOB and AIS SART devices
- Waterproof (for external mounting)
- Multiple tones to identify source
- Programmable with up to 30 individual device MMSI numbers
- Alarms on all received or specific targets
- NMEA0183-HS (38400baud) input
- NMEA through-port for easy integration
- Supplied with power and USB cables
- Power Supply: 10.8 - 15.6 Volts DC
- Waterproof: I metre depth
- Dimensions: 90mm x 72mm x 72mm
- 5 year warranty

OCE 741S-02037

Ocean Signal
rescueME MOB1 - AIS Man Overboard Device

In an emergency rescueME MOB1 provides 2 methods of rapidly communicating your position, accurate to a few metres, back to the vessel, plus providing visual indication via its built in strobe light. Once activated your MOB1 will transmit an alert to all AIS receivers and AIS enabled plotters in the vicinity. The integrated GPS ensures precise location is sent to your vessel and any others that may be assisting.

- The MOB1 is compatible with even the most compact inflatable life-jackets
- Integrated DSC transmitter
- Integrated high-intensity strobe light ensures maximum visibility in low light conditions.
- Integrated DSC transmitter (digital selective calling)
- 30% smaller than competitors
- Automatic activation
- Simple lifejacket integration
- 7 year battery life, with 24+ hours operational life
- Fast accurate positioning
- 5.28" x 1.5"
- Weight: 92g
- 5 year warranty



OCE 740S-01551
Accessories:
OCE 741S-01830 Belt clip

Fell Marine MOB+ Accessories

xFOB

- The xFOB is the heart of the MOB+ wireless cut-off switch
- Universal fit design; fits inside Fell Marine's xTAG, xBAND, or in your pocket
- Weighs in at only 10 grams, and only 1.74" long



FEL 72-380-209 ** xFOB

xBAND

- Silicone wristband allows you unrestricted movement while holding the xFOB securely inside the band



FEL 72-380-302 ** xBAND Black
** While Stock Lasts

Lunasea LED
Water Safety Device

This innovative water safety device is designed for child and pet safety. The small multi-function distress light and signaling device is waterproof. It works independently or in combination with a waterproof, rechargeable pocket-size alarm receiver that increases your ability to keep track of your loved ones at all times.

- Device's ambient blue light changes to ultra-bright white distress strobe when activated by water
- Pulsating monitor light
- IP67 water activated strobe
- RF version transmits to Alarm Receiver up to 250'; pair up to 25 transmitters to alarm receiver
- 2 hrs monitor and min 8 hrs strobe per charge
- Locking wrist strap for children
- Velcro strap for pets
- Portable receiver sounds a loud audible alarm, and flashes a bright strobe; IP65 waterproof
- Both device and receiver are equipped with rechargeable lithium batteries, and work with standard Qi wireless charging pads
- Strobe light devices come with two changeable labels



70BB-F0-00



70SL-01-00





Alarm Receiver



70RB-E0-00



LUN LLB-70BB-F0-00 ** Blue case strobe light only, H2O activated
LUN LLB-70RB-E0-00 ** Red case strobe light only, H2O activated
LUN LLB-63BB-F0-01 Blue case strobe light with RF transmitter
LUN LLB-63RB-E0-01 Red case strobe light with RF transmitter
LUN LLB-63BB-F0-K2 Blue case with RF transmitter and alarm receiver
LUN LLB-63RB-E0-K1 Red case with RF transmitter and alarm receiver
Accessories:
LUN LLB-70SL-01-00 Wrist band, blue
LUN LLB-70SL-02-00 Wrist band, red
** While Stock Lasts

Mobri Sailboat Radar Reflectors



- 40 pieces of aluminium arranged at 90° and staggered at 45°
- Radar cross section of 2 square metres
- Noiseless, light weight, low windage with less chance of chafe to the sails and rigging
- 2" x 23"

MOB S-2-B Black
MOB S-2-W White

Mobri Sailboat Radar Reflector



- Compact lightweight design
- 28 pieces of aluminium arranged at 90° and staggered at 22.5°
- Radar cross section of 4 square metres
- Noiseless, light weight, low windage and less chance of chafe to the sails and rigging
- 4" x 23"

MOB S-4-B Black

Mobri Powerboat Radar Reflector



- Comes with a tilting mounting bracket
- 40 pieces of aluminium arranged at 90° and staggered at 45°
- Radar cross section of 2 square metres
- 2" x 23"

MOB M-2-B Black
MOB M-2-W White
Parts:
MOB MBRKT-M2B Mounting bracket, Black

Mobri Powerboat Radar Reflectors

The Mobri M-3 and M4 are designed with a mounting bracket and are most suitable for use with power boats. The radar reflector is easy to remove when not in use, just twist out and stow.



- M-3 Radar cross section of 3 square metres
- M-4 Radar cross section of 4 square metres

MOB M-3-B 4" x 15", Black
MOB M-3-W 4" x 15", White
MOB M-4-B 4" x 20", Black
MOB M-4-W 4" x 20", White
Parts:
MOB BASE-M3/4-W ** White, base only
** While Stock Lasts

Davis Emergency Radar Reflector



- Made of special plastic-metal foil laminate
- Resists corrosion or peeling
- Compact, lightweight, folding
- Diameter: 11.5"

DIN 151

Davis "Echomaster" Radar Reflector



- 12.5" diameter, 1.3 mm aluminum
- Circular reflector provide 12 square metres maximum effective radar cross section
- Quickly and easily assembled and mounted
- Stows flat
- Instructions provided

DIN 152

Sea-Dog Radar Reflector



- All aluminum construction
- Built in quick corner brackets
- 10-3/4" x 10-3/4"

SED 583422

Daylight Signals for Fishing Vessels



- Black 24" folding signal shapes for N.U.C. signal
- Contructed of a nylon mesh over steel ribbing
- Chromed clasp and D-ring, with hanging eyes top and bottom

FIT SA-BALL
FIT SA-CONE
FIT SA-DIAMOND



Fox 40 Mini Electronic Whistle

- Utilizes a push button, which offers a hygienic solution for multiple operators
- Provides a loud, clear and consistent sound every time
- Includes an LED light for optimal use
- Ultra slim body design
- Lanyard has button-style spring-loaded adjustable cord lock with small release buckle and mobile device-style loop attachment
- Includes metal ring, clip, lanyard and batteries (4 x L1154F)

FOX 8616-1918 Black

Fox 40 Classic Whistles



- Sound: 115 dB, Can be heard at up to 1 mile
- Pealess whistle
- Coast Guard Approved
- Comes with or without lanyard

FOX 9902-0100 Red
FOX 9902-0200 Yellow
FOX 9902-0300 Orange
FOX 9902-0400 Pink

FOX 9905-0118 Red, w/lanyard
FOX 9905-0218 Yellow, w/lanyard
FOX 9905-0318 Orange, w/lanyard
FOX 9905-1318 Neon, w/lanyard

Fox 40 Micro Whistles



- Sound: 110 dB
- No metal parts to rust or corrode
- Comes with lanyard

FOX 9511-2608 Red, 2/pkg
FOX 9505-1308 Neon

Fox 40 Sonik Blast CMG Whistles



- Sound: 120 dB
- The cushioned mouth grip (CMG)'s thermoplastic material provides superior grip
- Pealess whistle
- Sound will be heard up to a mile away

FOX 9203-0308 Orange
FOX 9203-1308 Neon Yellow

Fox 40 XPLORER Light & Whistle LED



Xplorer LED Light Features:
- 4 modes: On / 50% On / SOS Mode (flashing) / Off
- IPX4 waterproof rating
- Omni-directional and directional light
- Each LED light can reach up to 13000 MCD
- Batteries included; operated with 2 CR2032 button cells
- Sound: 110 dB
- Pealess whistle

FOX 7918-1400

Fox 40 Sharx Whistles



- Sound: 120 dB
- Comes with lanyard & stainless steel ring
- Pealess

FOX 8703-2208 Yellow
FOX 8703-2308 Neon

Scotty Lifesaver #1 Whistle



- Sound: 118 dB
- Includes locking safety clip
- Large tooth-grip for hands free use
- Waffled textured plastic for improved holding grip

SCO 780

ACR WW3 Whistle



- Sound: 100 dB
- Loud, shrill, dual tone
- Unique flat design prevents holding water
- Required by SOLAS 83
- Meets USCG/SOLAS requirements
- Complete with 18" (45.5 cm) of lanyard

ACR 2228

Sea-Dog Whistle



- Sound: 95 dB
- Injection molded polypropylene with a 36" lanyard
- Duo-tone whistle has no moving parts that jam or corrode
- Handy clip secures whistle until needed

SED 571260-1

Sea-Dog Whistle



- Sound: 95 dB
- Injection molded polypropylene with a 36" lanyard

SED 571252-1

Sea-Dog Ship's Bell



Meets Coast Guard, ABYC and NMMA requirements with a minimum of 200 cm mouth opening and striker mass no less than 3% of mass of the bell.
- 8" diameter
- Cast polished brass
- Mounting bracket included
- Use #8 fasteners
- 3 lbs

SED 455880-3

Perko Fog Horn



- Enamelled aluminum with a nylon mouthpiece
- Length: 12-1/2"

PER 162-DP-WHT

Emzone Signal Horns

These high-performance signal air horns are ideal for personal and professional safety when boating.



Mini
- Ideal for situations requiring a small, portable device

D.G.

EMZ 46500 28g / 1oz horn



Medium
- Portable, easy to carry format

D.G.

EMZ 46600 100g / 3.5 oz



Large
- High-performance horn produces loud blasts
- Sound 120 dB
- Audible horn can be heard over 1.6 km (1 mile)

D.G.

EMZ 46400 156g / 5.5 oz horn
EMZ 46410 156g / 5.5 oz refill

Emzone Non-Flammable Signal Horns

Non-Flammable signal air horns are ideal for marine applications where a non-flammable propellent is required.



Mini
- Produces powerful sound blasts
- Easy to pack and carry, ideal size for personal safety

D.G.

EMZ 46800 ** 28g / 1oz horn
** While Stock Lasts



Large
- Sound 120 dB
- Audible horn can be heard over 1.6 km (1 mile)

D.G.

EMZ 46710 141g / 5 oz refill

Falcon Sonic Blast Horn



- Sound: 120 dB
- Provides up to 56 blasts per can
- Sonic Bast Horns are a great option for uses where flammability is a concern

FAL FSB5 Push button horn
FAL FSB5R 5 oz refill

Falcon Signal Horn



- Sound: 112 dB
- Provides up to 12 blasts per can
- An ideal option for uses where flammability isn't a major concern

D.G.

FAL FSH1 1 oz

Marinco Mini Compact Horn



- Sound: 106 dB
- Frequency: 430Hz
- 18.8 stainless steel cover, diaphragm, and mounting bracket
- Vibration dampening pad included
- 12V, 2A
- L: 3" x W: 3-1/4" x H: 1-3/4"

MAR 10035

Marinco Mini Twin Compact Horn



- Sound: 108 dB
- Frequency: 425Hz
- 18.8 stainless steel cover, diaphragm pad included
- 12V, 5A
- L: 3" x W: 8" x H: 1-3/4"

MAR 10001

Sea-Dog Mini Horn

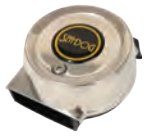


- 108 dB
- Frequency: 440±20Hz
- Stamped 304 stainless cover
- 12V, 3A
- Meets ABYC standard A-23, for use on vessels under 39'
- 3-5/16" x 3-5/8"

SED 431110-1

Sea-Dog Maxblast Mini Horn

NEW



- 108 dB; 440±20Hz
- Injection molded housing under stamped 304 stainless steel cover
- 12V, 3A
- Meets ABYC standard A-23, for use on vessels under 39'
- 3-5/16" x 3-5/8"

SED 431115-1

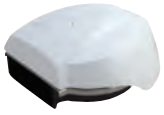
Sea-Dog Mini Twin Horn



- 111 dB
- Frequency: 490/440±20Hz
- Stamped 304 stainless cover
- 12V, 6A
- Meets ABYC standard A-23, for use on vessels under 39'
- 8" x 3-5/16"

SED 431120-1

Sea-Dog Sonic Mini Compact Horn



- 108 dB
- Frequency: 440±20Hz
- ASA plastic cover
- 12V, 3A
- Meets ABYC standard A-23, for use on vessels under 39'
- 3-3/8" x 4-3/8"

SED 431152-1

Sea-Dog
Mini Compact Horn w/Bracket



- 107 dB
- Frequency: 440±20Hz
- 12V, 3A
- Meets ABYC standard A-23
- For use on vessels under 39'
- Powder coated steel
- Dia: 3-5/16" x Depth: 3-5/8"

SED 431410

Sea-Dog
Drop-In Hidden Horn V.2 w/Grills



- 108 dB
- Frequency: 370±20Hz
- Powder coated steel/injection molded nylon
- 12V, 3A
- Includes chrome and white grills
- Meets ABYC standard A-23, for use on vessels under 39'
- 4-7/8" x 2-3/4" x 3-3/8" deep

SED 431230-1

Sea-Dog
Drop-In Hidden Horn V.3 w/Grills



- 111 dB
- Frequency: 370±20Hz
- Powder coated steel/injection molded nylon
- 12V, 4A
- Includes chrome and white grills
- Meets ABYC standard A-23, for use on vessels under 39'
- 5-1/4" x 3-3/8" x 1-1/2" deep

SED 431250-1

Marinco Mini Hidden Horn



- 105 dB
- Frequency: 430±20Hz
- Type 304 stainless steel
- 12V, 3A
- 3" x 3-1/4" x 1-3/4"

MAR 10031

Marinco
Mini Blast Compact Horns



- Sound: 106 dB
- Frequency: 430±20Hz
- Above deck compact horn
- Noncorrosive ASA plastic cover
- Matching hole pattern to the MAR 10035
- 12V
- W: 3-3/8" x H: 2" x L: 4-3/8"

MAR 10098 Black
MAR 10099 White

Marinco Drop-In "H" Horn



- 107 dB
- Frequency: 370±20Hz
- 12V, 4A
- 304 stainless steel diaphragm
- Comes with a black & a white grill
- Installation space H: 2" x W: 3-3/8" x D: 3-1/4"

MAR 10079

Sea-Dog
Pontoon Boat Mini Compact Horn



- 111 dB
- Frequency: 370±20Hz
- 12V, 4A
- Meets ABYC standard A-23
- For use on vessels under 39'
- Powder coated steel/304 stainless steel
- Dia: 2-13/16" x Depth: 1-7/16"
- Recommended for fresh water applications

SED 431430-1



Marinco Trumpet Horns

- Recommended for saltwater use
- 18.8 stainless steel exterior
- Exceeds Coast Guard specifications for vessels up to 12 metres
- Vibration dampening pad included
- 12VDC

Part #	Type / L	Frequency	dB	Amp Draw
MAR 10010	Single: 14"	420±20Hz	108	3.5
MAR 10011	Twin: 16" & 14"	420/370±20Hz	110	7.0



Marinco Premium XLP Trumpet Horns

- Recommended for saltwater use
- 100% stainless steel exterior
- Over-molded motor housing
- Vibration dampening pad included
- Exceeds Coast Guard specifications for vessels up to 12 metres
- 12VDC
- 5 year warranty

Part #	Type	Freq	dB	Amp Draw
MAR 10028XLP	Single: 16-1/2"	370±20Hz	118	5
MAR 10029XLP	Twin: 18-1/2" & 16"	370/310±20Hz	123	10

Marinco
Deluxe Trumpet Horn



- Sound: 123 dB
- Frequency: 370/310±20Hz
- Coast Guard rated for vessels up to 12 metres
- Excellent for saltwater use
- 100% stainless steel exterior, bracket and diaphragm
- Vibration dampening base and bracket
- 24 VDC, 4.5 amps
- Twin horn, 18-1/2" & 16"
- 5 year warranty

MAR 10018XL

Sea-Dog
Compact Single Trumpet Horn



- 108 dB
- Frequency: 460±15Hz
- Stamped 304 stainless
- 12VDC, 3.5 amps
- Meets ABYC standard A-23, for use on vessels under 39'
- 14" x 3-1/2"

SED 431610-1

Sea-Dog
Compact Dual Trumpet Horn



- 110 dB
- Frequency: 460/415±15Hz
- Stamped 304 stainless
- 12VDC, 7 amps
- Meets ABYC standard A-23, for use on vessels under 39'
- 16" x 7-1/2"

SED 431620-1

Sea-Dog
MaxBlast Single Trumpet Horn



- 118 dB
- Frequency: 390±15Hz
- Stamped 304 stainless w/over molded motor housing
- 12VDC, 4 amps
- Meets ABYC standard A-23, for use on vessels under 39'
- 16" x 4"
- 5 year warranty

SED 431510-1



Sea-Dog
MaxBlast Dual Trumpet Horn

- 123 dB
- Frequency: 390/330±15Hz
- Stamped 304 stainless w/over molded motor housing
- 12VDC, 8 amps
- Meets the U.S Coast Guard's C.O.L.R.E.G.S. and U.S. Inland Navigation Rules, Annex III Regulations for boats up to 20 meters/66 ft
- 18" x 7"
- 5 year warranty

SED 431520-1

Sea-Dog
MaxBlast Mini Single Trumpet Horn



- 124 dB
- Frequency: 630±15Hz
- Chrome plated brass/powder coated brass
- 12VDC, 20 amps
- 9-11 PSI
- Meets the U.S Coast Guard's C.O.L.R.E.G.S. and U.S. Inland Navigation Rules, Annex III Regulations for boats up to 20 meters/66 ft.
- Includes 20A compressor, air tubing, and mounting hardware
- 9-5/8" x 2-3/4"

SED 432610-1

Sea-Dog
MaxBlast Single Trumpet Horn



- 120 dB
- Frequency: 315±15Hz
- Chrome plated brass
- 12VDC, 20 amps
- 9-11 PSI
- Meets the U.S Coast Guard's C.O.L.R.E.G.S. and U.S. Inland Navigation Rules, Annex III Regulations for boats up to 20 meters/66 ft.
- Includes 20A compressor, air tubing, and mounting hardware
- 17" x 2-3/4"

SED 432510-1

Sea-Dog
MaxBlast Dual Trumpet Horn



- 121 dB
- Frequency: 375/315±15Hz
- Chrome plated brass
- 12VDC, 20 amps
- 9-11 PSI
- Meets the U.S Coast Guard's C.O.L.R.E.G.S. and U.S. Inland Navigation Rules, Annex III Regulations for boats up to 20 meters/66 ft.
- Includes 20A compressor, air tubing, and mounting hardware
- 17" x 5-7/8"

SED 432520-1

Marinco Trumpet Air Horns

- Coast Guard rated for vessels up to 20 metres
- Constructed for saltwater use
- Bells, motor cover and brackets are constructed of chrome plated solid brass
- Lexan diaphragms
- Comes complete with a compressor, air tubing, fittings and all mounting hardware.

Single



- 120 dB
- Frequency: 315±15Hz
- L: 17" x W: 3-3/4" x H: 3-3/4"

MAR 10105 12V, 20 amp

Double



- 121 dB
- Frequency: 375/315±15Hz
- L: 17" x W: 7" x H: 3-3/4"
- 17" & 15" horns

MAR 10106 12V, 20 amp
MAR 10624 24V, 10 amp



Parts:
MAR 10102 12V compressor, L: 4-7/8" x W: 2-5/8" w/bracket
MAR 10224 24V compressor, 5" L x 2-5/8"W w/bracket

First Aid Kit #1 Marine

- Comes in a nylon soft pack
- 5.9" x 5.11" x 3.14"

CFK FSM301



Qty	Description
12 pkg	Antiseptic towelettes
Box of 50	Assorted bandages
1	Cotton triangular bandage
6 pkg	4" x 4" (10cm x 10cm) Gauze pads
1	4" x 6.5" (10cm x 16.5cm) Pressure dressing w/ties
5 pkg	Butterfly closures
1 pair	Nitrile gloves
3	Insect sting relief towelettes

First Aid Kit #2 Marine

- Comes in a nylon soft pack
- 5.9" x 5.11" x 3.14"

CFK FSM302



Qty	Description
12 pkg	Antiseptic towelettes
Box of 50	Assorted bandages
1	Cotton triangular bandage
2	4" x 5" (10cm x 12.5cm) Non-stick pad
1	3" (7.5cm) Conforming gauze bandage
1	4" x 4" (10cm x 10cm) Compress bandage w/ties
1	3" x 177" (7.5cm x 4.5m) Tensor/crepe roller bandage
1 roll	1" x 177" (2.5cm x 4.5m) Adhesive tape
5 pkg	Butterfly closures
1 pair	Nitrile gloves
3	Insect sting relief towelettes
6	6" Cotton tip applicator
1	Universal scissors
1	84" x 52" Emergency foil blanket
1	Condensed First Aid manual

First Aid Kit #3 Marine

- Comes in a nylon soft pack
- 10.2" x 7" x 4"

CFK FSM303



Qty	Description
12 pkg	Antiseptic towelettes
Box of 50	Assorted bandages
2	Cotton triangular bandages
2	4" x 5" (10cm x 12.5cm) Non-stick pad
1	3" (7.5cm) Conforming gauze bandage
1	3" x 177" (7.5cm x 4.5m) Tensor/crepe roller bandage
1	7.9" x 9.8" (20cm x 25cm) Abdominal dressing
20 pkg	4" x 4" (10cm x 10cm) Gauze dressings
1	4" x 6.5" (10cm x 16.5cm) Pressure dressing w/ties
2 pkg	Eye pads
1 roll	1" x 177" (2.5cm x 4.5m) Adhesive tape
5 pkg	Butterfly closures
1 pair	Nitrile gloves
10	Insect sting relief towelettes
12	6" Cotton tip applicators
1	Universal scissors
1	4.5" (11.5cm) Stainless steel silver forceps
2	84" x 52" Emergency foil blankets
1	Condensed First Aid manual

First Aid Kit BC Basic Medium (Type 2)



- Comes in a nylon soft pack
- Meets new 2024 Worksafe BC standards

CFK FSBCBM-FSB1

Qty	Description
1	First Aid Kit Bag, 10.24" x 7.09" x 3.94"
24	10 cm x 10 cm Sterile Gauge Dressings, Individual Pkgs
Box of 50	Sterile Adhesive Band Aids, Assorted Sizes
4	10 cm x 10 cm Sterile Compress Dressings with Ties
2	13 cm x 23 cm Sterile Abdominal Dressings
6	Surgical Masks
1	Blanket, Emergency Foil, 84" x 52"
2	5 cm x 4.6 m Conforming Gauze Bandages
1	2.5 cm x 4.5 m Adhesive Tape
4	Cotton Triangular Bandages, min length of base: 1.25 m
2	Waterproof Waste Bags
9 pair	Medical Nitrile Gloves
2 pair	Safety Eyewear
2	7.5 cm x 4.6 m Conforming Gauze Bandages
12	Moist Towelettes, Individual Packages
1	Resuscitation Barrier Device with One Way Valve
1	Universal Scissors
1	12.5 cm Stainless Steel Silver Forceps
50	14 cm x 19 cm Antiseptic Towelettes, Individual Packages
1	Windlass Style Tourniquet
1	First Aid Contents Chart (not shown)
1	Blank First Aid Records (not shown)

First Aid Kit BC Basic Medium w/Blankets



- Includes all items in the FSBCBM-FSB1, plus 3 mix fibre blankets and blanket bag
- First aid kit comes in a nylon soft pack
- Meets new 2024 Worksafe BC standards

CFK FSBCBM-FSB1-3BL

First Aid Kit BC Intermediate (Type 3)



- Comes in a nylon soft pack
- Meets new 2024 Worksafe BC standards

CFK FSBCINT-FSB2

Qty	Description
1	First Aid Kit Bag, 14.2" x 10.2" x 4.7"
36	10 cm x 10 cm Sterile Gauze Dressings, Individual Pkgs
Box of 50	Sterile Adhesive Band Aids, Assorted Sizes
2	15 cm x 15 cm Sterile Compress Dressings with Ties
2	10 cm x 10 cm Sterile Compress Dressings with Ties
2	13 cm x 23 cm Sterile Abdominal Dressings
1	Windlass Style Tourniquet
2	Blanket, Emergency Foil, 84" x 52"
2	5 cm x 4.6 m Conforming Gauze Bandages
2	7.5 cm x 4.6 m Conforming Gauze Bandages
1	2.5 cm x 4.5 m Adhesive Tape
4	Cotton Triangular Bandages, min length of base: 1.25 m
4	Waterproof Waste Bags
9 pair	Medical Nitrile Gloves
2	Sterile Eye Pads, Individual Packages
12	Moist Towelettes, Individual Packages
1	CPR Pocket Mask with One Way Valve
1	Universal Scissors
1	12.5 cm Stainless Steel Silver Forceps
50	14 cm x 19 cm Antiseptic Towelettes, Individual Pkgs
6	Surgical Masks
2	Eye Shield, Plastic with Elastic Strap
8	2" x 3' Sterile Non-adherant Telfa Type Pad
1	Quick Splint
1 tube	Glucose Tablet (10 ea/tube)
2	7.5 cm x 4.5 m Tensor Roller Bandage
2	Cold Packs, 5" x 9"
2 pair	Safety Eyewear
1	First Aid Contents Chart (not shown)
1	Blank First Aid Records (not shown)

Fox 40 Mini First Aid Kit



Durable white snap lid case made of plastic with integrated handle. The Mini Kit can be mounted, handy for any sized boat, arena or home. Kit contains 53 items for small to medium wounds.
Kit includes:

1 - Abdominal/Combine Pad (5" x 9")
2 - Telfa Non-Adherent Pads (2" x 3")
1 - Adhesive tape (0.75" x 1 yds)
2 - Cotton-Tipped Applicators 2/pk (3")
2 - Tongue Depressors (3/4" x 6")
1 - Elastic Compression Bandage (2" x 5 yds)
3 - Fabric Bandages (7/8" x 3")
1 - Conforming Stretch Bandage (2" x 4 yds)
2 - Fingertip Fabric Bandages (1-3/4" x 2")
2 - Gauze Pads (3" x 3")
2 - Knuckle Fabric Bandages (1-1/2" x 3")
8 - Plastic Adhesive Bandages (3/4" x 3")
1 - First Aid & Emergency Care Guide
1 - Scissors (4-1/8")
1 - Instant Cold Pack, large (6" x 9")
3 - After Bite Treatment Swabs
8 - Alcohol Antiseptic Swabs
6 - Benzalkonium Chloride Antiseptic Towelettes
3 - First Aid Cream (0.03 oz)
1 - Water Jel, Cool Jel (0.8 oz)
2 - Splinter-Out

FOX 7928-0300

Fox 40 Micro First Aid Kit



Durable, lightweight
white plastic snap lid case

2 - Splinter-out splinter removers
2 - Gauze pads (2" x 2")
1 - First aid ointment (0.03 Oz)
1 - Non-adherent pad (2" x 3")
1 - Fabric bandage, large patch (2" x 3")
2 - Fabric bandages, knuckle (1-1/2" x 3")
2 - Fabric bandages, fingertip large (1-3/4" x 3")
2 - Fabric bandages, small patch (1-1/2" x 1-1/2")
6 - Benzalkonium chloride antiseptic towelettes
1 - Conforming stretch bandage (2" x 2 yds)
1 - First aid & emergency care guide
6 - Plastic bandages (3/4" x 3")
2 - Fabric bandages (7/8" x 1-1/2")
3 - Fabric bandages (7/8" x 3")
2 - Cotton-tipped applicators (3")
3 - Insect sting relief swabs
1 - Adhesive tape (0.75" X 1 yds)
1 - Elastic bandage (2" x 1.9 Yds)
8 - Alcohol antiseptic swabs

FOX 7928-0400

Davis Queaz-Away Sea-Band Wristband



A non-drug aid for the traveller which ends the unpleasant effects of rough seas, bumpy air flights, or winding roads. Sea-Band operates by exerting gentle pressure on the acupressure point on the underside of each wrist. Sea-Band may be worn repeatedly or continuously.

- Fits all adults and children

DIN 400

Nanuk First Aid Case



- Engineered and manufactured to stringent military specifications
- Waterproof (IPX7) and dustproof (IPX6)
- Constructed of impact resistant NK-7 resin with stainless steel hardware
- Powerclaw latching system: Uses compressive force, triple action clamping, and integrated slide locks to ensure the case stays shut and secured until you are ready to open
- Molded-in bezel accommodates custom panels without needing to drill holes
- Automatic pressure release valve equalizes pressure difference
- Soft grip handle with integrated stay
- Integrated lid stay
- Padlock compatible
- Stackable
- Case only

NAN 905-FSA9 ** L: 9.4" x W: 7.4" x H: 5.5" interior
** While Stock Lasts

Nanuk Protective Case



- Engineered and manufactured to stringent military specifications
- Waterproof (IPX7) and dustproof (IPX6)
- Constructed of impact resistant NK-7 resin with stainless steel hardware
- Powerclaw latching system: Uses compressive force, triple action clamping, and integrated slide locks to ensure the case stays shut and secured until you are ready to open
- Molded-in bezel accommodates custom panels without needing to drill holes
- Automatic pressure release valve equalizes pressure difference
- Soft grip handle with integrated stay
- Integrated lid stay
- Padlock compatible
- Stackable
- Cubed foam insert included
- Interior dimensions: L: 13.8" x W: 9.3" x H: 6.2"

NAN 915-1004 **
** While Stock Lasts

DECKVEST **6D**

FULL SPECIFICATION AUTOMATIC INFLATING LIFEJACKET HARNESS

OPTIONAL



AIS MOB1 UNIT



PYLON™ LIFEJACKET LIGHT FITTED (SOLAS APPROVED)



STRUCTURED SPRAY HOOD FITTED



SHOULDER FIT SYSTEM, SITS ON SHOULDERS FOR A COMFORTABLE FIT



COVERED QUICK-BURST ZIP



RECESSED MANUAL ACTIVATION HANDLE



CHEST PACK ATTACHMENT POINTS



INDICATOR WINDOW ON REAR



HIGHLY VISIBLE RED LIFTING STRAP



LUME-ON™ LIFEJACKET ILLUMINATION LIGHTS FITTED



ORAL INFLATION TUBE & WHISTLE FITTED



BACK ADJUSTMENT POINT



PRO SENSOR ELITE FIRING HEAD



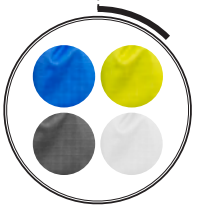
LIGHTWEIGHT SOFT LOOP SAFETY LINE ATTACHMENT POINT



ISO12402-1 INTEGRATED DECK HARNESS



COLOUR OPTIONS



HARNESS RELEASE SYSTEM (HRS™)



OPTIONAL

40MM EXTRA WIDE CROTCH STRAP



SMOOTH BODY ADJUSTER SYSTEM



Spinlock 6D 170N Pro Sensor ELITE Series Inflatable/Harness Deckvests

Water sensitive activation system
Uses a compressed paper capsule that dissolves and releases a spring to puncture the gas cylinder. (indictators to show status of cap and cylinder)
The cap is designed so that only water flowing upwards through the unit will cause it to activate. Water, spray and rain running down jacket will not cause activation



- One size
- UML Pro Sensor Elite activation system
- Improved front opening buckle with smooth body adjuster system
- Enhanced shoulder fit system for the perfect fit - every time - all day
- Enhanced back profile for clean, unobtrusive look and fit
- Hard wearing coated fabrics in key areas
- New sprayhood design with large clear structured visor - stored away from neck
- Firing system on rear of bladder for improved comfort & reduced snagging when inflated
- 40mm single leg strap with stowage pocket - extra wide, easy to find, easy to locate
- Pylon 360° lifejacket light fitted
- Lume-On bladder illumination lights fitted
- MOB1 AIS compatible
- 5 year warranty
- Cutter attachment point for non HRS models
- 170N buoyancy; also available with HRS (Harness Release System)



SPI DW-LJH6D/A	Black
SPI DW-LJH6D/ACY	Citrus Yellow
SPI DW-LJH6D/APB	Pacific Blue
SPI DW-LJH6D/ATW	Tropic White
SPI DW-LJH6D/A/HRS	With HRS - Black
SPI DW-LJH6D/ACY/HRS	With HRS - Citrus Yellow
SPI DW-LJH6D/APB/HRS	With HRS - Pacific Blue
SPI DW-LJH6D/ATW/HRS	With HRS - Tropic White



Parts:

SPI DW-RAK/E170	33 gram Elite re-arm kit (after August 2018)
SPI DW-MAK/E	Elite manual conversion kit (after August 2018)
SPI DW-UMLE	Elite Activation cap for vest(after August 2018)
SPI DW-PY/L1	Pylon light
SPI DW-LMN	Lume-On bladder illumination lights

Optional Accessories:

SPI DW-CTR	Cutter & pouch
OCE 740S-01551	MOB1 RescueME AIS

- CE Approved
- ISO12402-3 170N Lifejacket
- ISO 12402-2 275N Lifejacket
- ISO12401 Deck Harness

HRS

- Activation handle located behind soft loop, easy to locate, grab and pull
- Soft loop attachment released and open
- User separated from safety line and boat
- Easily reset to use again

► *Also See* AIS MOB1 pg 12-019

Spinlock 5D 170N Pro Sensor Series Inflatable/Harness Deckvest Parts

SPI DW-RAK/E170	33 gram Elite re-arm kit (after August 2018)
SPI DW-RAK	Re-arming kit
SPI DW-MAK/E	Elite manual conversion kit (after August 2018)
SPI DW-MAK	Manual conversion kit
SPI DW-UMLE	Elite Activation cap for vest(after August 2018)
SPI DW-UML5	MK5i Activation cap for vest



DW-RAK/E170 DW-RAK



DW-MAK/E



DW-MAK

Spinlock 275N Pro Sensor Series Inflatable/Harness Deckvest Parts

SPI DW-RAK/E275	60 gram Elite re-arm kit for 5D (after 2018) and 6D
SPI DW-RAK/275	60 gram re-arming kit for 5D, Duro, and Duro SOLAS (SOLAS may require 2x cylinders)



DW-RAK/E275



DW-RAK/275

Spinlock Deckvest 5D 170N Hammar

SPI DW-RAH/150	Re-arming kit



DECKVEST VITO AFS OFFSHORE LIFEJACKET HARNESS WITH HARNESS RELEASE SYSTEM

FEATURES

NEW



170N buoyancy

Striking design finish in durable rip stop fabric

Hammar® hydrostatic automatic inflation system

The AFS (Advanced Flotation System) puts the buoyancy of the inflated jacket where it functions best – giving enhanced rotation, freeboard and very importantly stability in the water

Very low profile bladder shape for increased manoeuvrability in water

Smaller, lighter and softer than traditional 2D welded lifejackets

Latest Deckvest 6D style button fastening

Fitted with Harness Release System (HRS™)

Central attachment loops, for remote steering or MOB alert devices

PLB fitting approved

Pylon Lifejacket Light™ fitted

Lume-On™ lifejacket bladder illumination lights fitted



The combined use of highly visible colours, hi-vis pink with hi-vis yellow has been proven to enhance visibility at distance in challenging conditions

Structured fit allows easy donning with simple to adjust buckles

Structured sprayhood to reduce the risk of secondary drowning fitted

Fine tune adjust each time for layers of clothing

Toggle attachment point for optional Chest Pack (DW-PCC)

Wider 40mm leg strap with stowage







Spinlock Deckvest VITO AFS 170N

The updated VITO features a new, revolutionary integrated flotation construction. The AFS (Advanced Flotation System) puts the buoyancy of the inflated jacket where it functions best to provide enhanced rotation, freeboard, and most importantly, stability in the water. The AFS internal inflation chamber takes the form of the sewn outer construction of the jacket, allowing the chamber to be sewn in a truly 3D form held close to the body, forming a profile that maximizes performance while minimizing bulk. Internal updates include an improved structured sprayhood, new integrated attachment points for beacons, and the Harness Release System (HRS), Lume-On, and Pylon lights as standard.

NEW



- 170N buoyancy with Hammar hydrostatic automatic inflator
- Advanced Flotation System (AFS), and Harness Release System (HRS)
- Striking design finish in durable rip stop fabric, and contrasting spectrum of hi-vis pink with hi-vis yellow on the chamber
- Very low profile bladder shape for increased manoeuvrability in water
- Smaller, lighter, and softer than traditional 2D welded lifejackets
- Latest Deckvest 6D style button fastening
- Structured fit allows easy donning with simple to adjust buckles
- Fine tune adjustable each time for layers of clothing
- Structured sprayhood to reduce the risk of secondary drowning
- Central attachment loops for remote steering or MOB alert devices, PLB fitting approved
- Pylon Lifejacket Light and Lume-On bladder illumination lights included
- Wider 40mm leg strap with stowage
- Toggle attachment point for optional Chest Pack (DW-PCC)
- Optional Ocean Signal AIS MOB1 available to purchase as a stand-alone unit or supplied fitted integrated within a Deckvest
- Weight: 1240g

SPI DW-VT2/H170	Black
Parts:	
SPI DW-RAH/V170	Re-arming kit
SPI DW-PY/L1	Pylon light
SPI DW-LMN	Lume-On bladder illumination lights
Optional Accessories:	
SPI DW-CTR	Cutter & pouch
SPI DW-PCC	Chest pack
OCE 740S-01551	MOB1 RescueME AIS



- CE Approved
- ISO 12402-3 Lifejacket (170N)
- ISO 12401 Deck Harness

► *Also See* AIS MOB1 pg 12-019

HARNESS RELEASE SYSTEM (HRS™)

THE FIRST LIFEJACKET HARNESS TO INCORPORATE A HARNESS RELEASE SYSTEM

The Harness Release System releases the safety line from the lifejacket harness in an emergency, allowing the MOB to separate. Easy to find and operate in an emergency, the Harness Release System is an industry first; helping to address the question of managing a conscious MOB who is still attached to the boat being dragged behind. The Harness Release System can be fitted when the lifejacket is built or retro fitted by Spinlock on request after purchase.



ISO12402-1 Deck Safety Harness.
Soft loop attachment point for safety line, located on front of lifejacket for ease of access.



ISO12402-1 Deck Safety Harness
Soft loop attachment point for safety line can be released in an emergency to free a person from their safety line. Activation handle located behind soft loop, easy to locate, grab and pull



Lightweight release system built into harness system opening the harness loop attachment under load.



Soft loop attachment released and open. User separated from safety line and boat.

Spinlock Deckvest Lite +

- Harness version of the popular Deckvest LITE
- Lifejacket Harness with soft loop safety line clipping point
- Quick and easy to use anodised buckle
- Designed for the perfect fit - every time
- Lightweight low profile design
- Durable honeycomb ripstop cover fabric
- Single crotch strap with recessed clip reduces risk of snagging
- Clipping area for PLB / VHF
- Attachment points for Chest Pack
- Attachment point for kill cord or VHF leash
- Webbing end tidy
- 170N (38 lbs) buoyancy
- One size

SPI DW-LTH/A	Black
SPI DW-LTH/ASY	Sun Yellow
Parts:	
SPI DW-RAK	Re-arming kit
SPI DW-MAK	Manual conversion kit
SPI DW-UML5	MK5i Activation cap for vest
Optional Accessories:	
SPI DW-PY/L1	Pylon light
SPI DW-LMN	Lume-On bladder illumination lights
SPI DW-PCC	Chest pack
SPI DW-SHD/170	Sprayhood







Soft Loop
Clipping Point



Anodised Buckle



OPTIONAL FITTING
- AIS MOB1 Unit

CE Approved ISO12402-3 Lifejacket
ISO12401 Deck Harness

Spinlock Deckvest Lite

Ideal for fast craft, RIBs, power and sail boating, paddle sport, fishing and open powercraft. Built for lightness and speed.

- Tonal colour blocking panels for refreshed look
- Designed for the perfect fit - every time
- Lightweight low profile design
- Durable honeycomb ripstop cover fabric
- 170N (38 lbs) buoyancy
- One size
- Single crotch strap with recessed clip reduces risk of snagging
- Muted 'Black' highly reflective panel detail
- Clipping area for PLB / VHF
- Attachment point for Chest Pack
- Attachment point for kill cord or VHF leash
- Webbing end tidy
- 5 year warranty including Through Life Support (TLS)

SPI DW-LTE/A	Gun Metal
SPI DW-LTE/ABW	Bleach White
SPI DW-LTE/APB	Pacific Blue
Parts:	
SPI DW-RAK	Re-arming kit
SPI DW-MAK	Manual conversion kit
SPI DW-UML5	MK5i Activation cap for vest
Optional Accessories:	
SPI DW-PY/L1	Pylon light
SPI DW-LMN	Lume-On bladder illumination lights
SPI DW-PCC	Chest pack
SPI DW-SHD/170	Sprayhood













OPTIONAL FITTING
- AIS MOB1 Unit

CE approved ISO 12402-3

► *Also See* AIS MOB1 pg 12-019

spinlock
BE ADVENTURE-PROOF

Lifejacket Comparison Chart

Model	DECKVEST LITE	DECKVEST LITE+	CENTO	DECKVEST 6D PRO SENSOR	DECKVEST VITO AFS
Recommended For:	Ultra lightweight lifejacket for fast craft, all sail, & power boats. Ideal for inshore & coastal waters	For those wanting an ultra lightweight lifejacket with the added security of a deck harness	Junior sailors approximately 8 to 15 years old who weigh 20-50kg	All sailors who require a full spec offshore lifejacket front opening and optional Harness Release System	Sailors or those working in very wet conditions and extended offshore sailing with Harness Release System
100N Buoyancy	-	-	✓	-	-
170N Buoyancy	✓	✓	-	✓	✓
275N Buoyancy	-	Special order available	-	Special order available	Special order available
Pro Sensor ELITE Inflator	-	-	-	✓	-
Hammar Hydrostatic Inflator	-	-	-	-	✓
UML Mk5 Inflator	✓	✓	✓	-	-
Sizes	One size	One size	One size	One size	One size
Deck Harness	-	✓	✓	✓	✓
Harness Release System	-	-	-	With or without available	✓
Sprayhood	Optional accessory	Optional accessory	Optional accessory	✓	✓
Pylon Light	Optional accessory	Optional accessory	Optional accessory	✓	✓
Lume-On Lights	Optional accessory	Optional accessory	Optional accessory	✓	✓
AIS MOB1	Optional accessory	Optional accessory	Optional accessory	Optional accessory	Optional accessory
Pack Attachment Points	✓	✓	✓	✓	✓
Crotch/ Thigh Straps	✓	✓	✓	✓	✓
Safety Line Cutter	Optional accessory	Optional accessory	Optional accessory	Optional accessory	Optional accessory
5 Year Warranty*	✓	✓	✓	✓	✓
Through Life Support	✓	✓	✓	✓	✓

* 3 year warrany standard and 5 year with registration “TLS” system

Model	ALTO BELT PACK
Recommended For:	For tenders, SUP, kayaks, RIBs, and other inshore water activities
75N Buoyancy	✓
Halkey Roberts V87000M	✓
Manual Inflation	✓
Size	One size
Lume-On	Optional accessory
Adjustable Waist Belt	✓
Front or Back Wear	✓
2 Year Warranty	✓
Through Life Support	✓

Spinlock Pylon Light LED



Fits most brands of inflatable vests.
Emergency beacon for improved visibility in the water

- 23 cm flexible antenna improves 360° visibility; 50-70 per minute flash rate
- Eliminates head shadow and sprayhood obstruction
- Fully sealed LED with a minimum 0.75 Candela for 10+ hours
- Water activation, plus on/off switch
- Can be retrofitted to other inflatable lifejackets with included elasticated strap
- Compact low profile sealed lithium-ion battery
- Fitted as standard on Deckvest VITO and 6D lifejacket harness
- Works in conjunction with Lume-On lights
- 5 year shelf life



Approvals: SOLAS, USCG, MED, CDN COASTGUARD AUTHORITY

SPI DW-PY/L1





Spinlock Lume-On Inflatable Vest Illuminator LED

- 2 flashing LED Lights (pair) illuminate the inflated lifejacket bladder to increase visibility and aid location
- Water activated - waterproof (IP68)
- Uses the inflated lifejacket bladder as a diffuser to increase visibility
- Attaches and integrates only in lifejackets with separate bladder and cover construction
- Sticks directly to underside of inflatable chamber
- Retail packaged as a pair of lights with stickers
- Standard feature on Deckvest 6D and Deckvest VITO

SPI DW-LMN

Spinlock Mast Float

NEW



- Simple to attach and use, the 20 L Mast Float can be either tied to the head of the sail or hoisted in the mast track (using Mast Track Tag)
- Provides buoyancy when capsized to reduce the risk of mast inversion, can be joined together to provide additional buoyancy
- Universal valve and quick inflation and deflation
- Highly visible fabric is robust and hard wearing for extended life
- Mast Track Tag allows for added security when fitting large or double floats

SPI DW-MF/20 20 litre, includes Mast Track Tag

Spinlock Waterproof Packs

- Opening belt loop attachment, internal security loop, and external tether point
- Universal back loop allows attachment to hard or soft mounts
- Window on medium and large packs, and large can wrap over belt to form a smaller pack
- IPX7 rated with waterproof press closure





SPI DW-PW/1BA	Small, Blue Azure
SPI DW-PW/1YL	Small, Yellow Lime
SPI DW-PW/2BA	Medium, Blue Azure
SPI DW-PW/2YL	Medium, Yellow Lime
SPI DW-PW/3BA	Large, Blue Azure
SPI DW-PW/3YL	Large, Yellow Lime

Spinlock 2 L Waterproof Belt Pack



- PVC-free fabric, with waterproof and dustproof self-healing zipper
- Internal mesh pocket and lanyard
- IPX7

SPI DW-PBW/2CY 2 litre capacity

Spinlock 27 L Deck Packs



- Heavy duty, lightweight, nylon ripstop fabric with breathable mesh back panel
- Sternum strap, side mesh water bottle pocket, external zip pocket, external attachment straps, internal laptop sleeve, internal zip pocket
- 27 litre capacity

SPI DW-PBS/27PB Pacific Blue
SPI DW-PBS/27CG Carbon Grey & Black

Spinlock 55 L Duffle Bags





- Heavy duty, lightweight, nylon ripstop fabric
- Removable backpack straps, large carry handle on top, and 4 side carry/grab handles
- External zip pocket, and large internal zipped mesh pocket
- 55 litre capacity

SPI DW-PBS/55PB Pacific Blue
SPI DW-PBS/55CG Carbon Grey & Black

Spinlock 100 L Kit Bags





- Heavy duty, lightweight, nylon ripstop fabric
- Large carry handle on top, and side carry/grab handles
- Internal and external compression straps for reducing size when packed
- External zip pocket
- 100 litre capacity

SPI DW-PBS/100PB Pacific Blue
SPI DW-PBS/100CG Carbon Grey & Black

Spinlock 35L Waterproof Roll Top Bags



- PVC-free waterproof fabric
- Sternum strap, side mesh water bottle pocket, external zip pocket, bungee stash, and attachment points on side
- Multiple ways to close the top opening
- 35 litre capacity

SPI DW-PBW/35AB Pacific Blue
SPI DW-PBW/35BG Black Graphite

Spinlock Compressible Dry Storage Bags

NEW



- Roll top, waterproof closure (do not provide submersed waterproof protection)
- One way valve allows the bag to compress quickly, reducing the size of the bag

SPI DW-PCD/15GY 15 litre
SPI DW-PCD.25GY 25 litre

Spinlock Performance Knee Pads



- Slim and low profile design for the ultimate long term comfort
- High flex panelling - moves with the leg and knee to ensure the kneepad stays in place
- High stretch, soft touch moulded foam provides patella support and protection
- Extra tough 'Tatex' construction moulded outer fabric protection
- Low volume back panelling prevents bulking
- Extra grip - Sticky rubber compound increases grip in all conditions

SPI DW-KPD/1 Small, pair
SPI DW-KPD/2 Medium, pair
SPI DW-KPD/3 Large, pair

Spinlock Chest Pack



- Smallest pack in the range, suitable for personal essentials
- Lightly padded with structured two way zip for easy access
- Self draining
- Lanyard attachment and key clip for security
- Fits to any belt with secure double fold velcro attachment
- Fits to 2014 Deckvest with toggle attachment point
- H: 160 x D: 60 x W: 160mm

SPI DW-PCC

Spinlock Belt Pack



- Lightly padded with structured two way zip for easy access
- Self draining
- Clear panel window
- Lanyard attachment and key clip for security
- Fits to any belt with secure double fold velcro attachment
- H: 80 x D: 60 x W: 200mm

SPI DW-PCB

Spinlock Mast Pro Harness



- Extremely lightweight minimal design
- Super slim, structured waist belt spreads the load evenly over it's full width, for comfort with reduced bulk
- Unique Ratchet-Fit adjustment on leg straps for a secure, easy fit
- Ergonomic sculptured waist belt and super wide leg straps for added comfort and lumbar support
- Designed for use in the marine environment
- Marine grade stainless steel 'doubleback' buckles
- Tripping spike pocket - Accessible from both sides
- User replaceable leg strap elastics
- Tool attachment points
- Waist: 24" - 40", Leg: 18" - 25"



SPI DW-MPH

CE Approved 0120 Type C - EN12277

Spinlock Deck Pro Harness



- Super light, comfortable and easy to fit
- Wearable with Mast Pro harness
- Instantly fitted unique front opening belt system fits fast and securely first time, using '2T' fastener
- Quick adjust 'Doubleback' buckles in stainless steel
- Shoulder straps are shaped towards the centre of the chest, for exceptional comfort and freedom of movement
- Lightweight tether attachment loop
- Knife pouch accessory

SPI DW-DPH Chest: 37.5" - 46.5"

Spinlock Cutter & Pouch



- 'S-Cutter' is made for severing safety lines under load by providing a reliable 'means of disconnection'
- Anyone wearing the Cutter satisfies ISAF and ORC recommendations, whatever type of safety line and whatever the type of clip used

With a guarded razor edge and stowed either in the special pocket on the Deckvest or in a simple pouch worn on the life jacket harness.

SPI DW-CTR

Wichard Safety Tether



- Elastic harness tether with 2 stainless steel carbine hooks
- Retracts fom 2 to 1 meter
- Break load 4580 lbs
- Compliant with European standard EN 1095

WIC 7001

Spinlock Performance Safety Lines



- Up to 50% lighter and more compact than conventional safety lines
- Easy to use lightweight clip with wide opening gate
- Webbing 'Dry Coated' to reduce water absorption & stay lighter for longer
- Overload Indicator
- Single clip, elasticated 2m

SPI DW-STR/2LE/C

- Double clip, elasticated 2m

SPI DW-STR/02E/C

- Double clip, 1 x elasticated 2m, 1 x non-stretch 1m



SPI DW-STR/3L/C

- Triple clip, 1 x elasticated 2m, 2 x non-stretch 1m



SPI DW-STR/03/C

Wearing the a stowed (optional) safety line 'cutter', any safety line will satisfy ISAF and ORC recommendations by providing a means of disconnection under load.

Firstwatch Flotation Coats

Chest Size
S ..... 32"-36"
M..... 36"-40"
L..... 40"-42"
XL ..... 44"-48"
XXL..... 48"-52"

- Optimum comfort
- 3D articulated sleeve design
- Thermo lined stowaway hood
- Handwarmer pockets
- SOLAS reflective tape on shoulders, wrists and cuffs
- Fleece-lined collar
- Waterproof internal barrier
- Rugged reinforced elbows & cuffs
- Approval: Harmonized

High Visibility Yellow/Black

FST AC-1100-HV-S
FST AC-1100-HV-M
FST AC-1100-HV-L
FST AC-1100-HV-XL
FST AC-1100-HV-XXL



Red/Black

FST AC-1100-RB-S
FST AC-1100-RB-M
FST AC-1100-RB-L
FST AC-1100-RB-XL
FST AC-1100-RB-XXL

Firstwatch Flotation Coats

- Extremely comfortable
- Waterproof internal bonded & taped seams
- Designed for comfort in cool to cold conditions
- Preserves body's warmth in air & water
- Integrated solas tape on hood, shoulders & wrists
- Average buoyancy 18.5 lbs
- Zippered cargo pockets
- Articulated sleeves
- Fleece lined collar & cordura reinforced elbows & cuffs
- Transport Canada Approved PFD

High Visibility Yellow/Black

FST AC-1002-HV-M **
FST AC-1002-HV-XL **
FST AC-1002-HV-XXL **



Red/Black

FST AC-1002-RB-S **
FST AC-1002-RB-XL **
** While Stock Lasts

Firstwatch Flotation Bib Pants

- Incredibly flexible outer shell provides all-day comfort, while adjustable shoulder straps ensure a safe and snug fit
- These pants provide exceptional thermal protection and positive buoyancy
- Waist adjustment, padded knees, and articulated joints en-hance flexibility
- Breast pocket for extra storage, and cuff-to-knee zippers make putting on your boots a snap

FST AP-1100-S
FST AP-1100-M
FST AP-1100-L
FST AP-1100-XL
FST AP-1100-XXL



Firstwatch Flotation Bomber Jackets

- Extremely comfortable
- Waterproof internal bonded & taped seams
- Designed for comfort in cool to cold conditions
- Preserves body's warmth in air & water
- Integrated solas tape on hood, shoulders & wrists
- Average buoyancy 18.5 lbs
- Fleece lined collar & cordura reinforced elbows & cuffs
- Articulated sleeves
- Transport Canada Approved PFD (AB-1100 are Harmonized)

High Visibility Yellow/Black

FST AB-1102-HV-S **	
FST AB-1100-HV-S	Harmonize
FST AB-1102-HV-M **	
FST AB-1100-HV-M	Harmonize
FST AB-1102-HV-L **	
FST AB-1100-HV-L	Harmonized
FST AB-1102-HV-XL **	
FST AB-1100-HV-XL	Harmonized
FST AB-1102-HV-XXL **	
FST AB-1100-HV-2XL	Harmonized





Red/Black

FST AB-1102-RB-S **	
FST AB-1100-RB-S	Harmonized
FST AB-1102-RB-M **	
FST AB-1100-RB-M	Harmonized
FST AB-1100-RB-L	Harmonized
FST AB-1100-RB-XL	Harmonized
FST AB-1100-RB-XXL	Harmonized

** While Stock Lasts

Firstwatch Flotation Suits

- Pre-curved, articulating knees and elbows allow the suit to move with your body
- Waterproof internal bonded & taped seams
- Fleece-lined collar, hood, and pockets to ensure a warm, comfortable fit
- Integrated suspenders allow for a customized fit
- Wrist/ankle cuffs, and gussets prevent water penetration
- High-visibility stowaway hood
- Integrated SOLAS tape provides exceptional reflectivity in emergency situations
- Transport Canada Approved PFD

High Visibility Yellow/Black

FST AS-1002-HV-S **
FST AS-1002-HV-XL **





Red/Black

FST AS-1002-RB-M **
** While Stock Lasts

Harmonized

Canada and the United States are working together to harmonize flotation standards. The purpose is to make it easier for waterlife enthusiasts to enjoy their time on the water through improved product offerings and streamlined regulations.
Simplified Regulations: Less complexity and increased function make it easier for boaters to comply with local regulations

Firstwatch Ice Rescue Suit



Rescue professionals need gear that allows them to respond safely and quickly to emergency situations. The RS-1000 Rescue Suit has been engineered to don quickly for cold water and ice rescue operations. This universal fit suit features a rugged hi-tenacity nylon shell that is stitched and taped for the ultimate in durability. A snap out, Internal laminated nylon/foam liner allows the user to easily slip the suit on and off. It has been designed as system to meet the safety, mobility and comfort needs of the rescue professional.

- Hi-Vis Yellow

FST RS-1002 Universal Fit

Accessories:

FST PA-1000 Palm armour glove, pair

Mustang Catalyst Flotation Coats & Jackets



- M-Tech Comfort System provides unparalleled range of motion and mobility
- Waterproof, breathable, fully taped outer shell
- Immersed Clo* 0.17 when worn with the Catalyst Pant
- Colour: Red
- Approval: Harmonized

Coats

MUS MC5446-123-S	S	Chest 35" - 38"
MUS MC5446-123-M	M	Chest 38" - 41"
MUS MC5446-123-L	L	Chest 41" - 44"
MUS MC5446-123-XL	XL	Chest 44" - 48"
MUS MC5446-123-XXL *	XXL	Chest 48" - 52"

Jackets

MUS MJ5246-123-S	S	Chest 35" - 38"
MUS MJ5246-123-M	M	Chest 38" - 41"
MUS MJ5246-123-L	L	Chest 41" - 44"
MUS MJ5246-123-XL	XL	Chest 44" - 48"
MUS MJ5246-123-XXL	XXL	Chest 48" - 52"

* Special Order

Mustang Floater Coats



- Hypothermia and flotation protection
- Full length storm flap
- Enhanced mobility and comfort with relaxed fit
- Zippered closures on front pockets
- Colour: Red
- Approval: Harmonized

MUS MC1506-04-M	M	Chest 38" - 42"
MUS MC1506-04-L	L	Chest 42" - 46"
MUS MC1506-04-XL	XL	Chest 46" - 50"

Mustang High Visibility Floater Coats



- CSA Z96 (2015) compliant (Canada)
- ANSI/ISEA 107-2010 Class 2 compliant (USA)
- Approval: Harmonized

MUS MC1506T3-239-L	L	Chest 42" - 46"
MUS MC1506T3-239-XL	XL	Chest 46" - 50"

Mustang Survival Suits



Designed for use in commercial operations, the new Immersion Suit from Mustang Survival is the ideal ship abandonment suit for workboats, transport vessels, drilling rigs, supply ships, steamships and commercial fishermen. Also suitable for the sailing community.

- Easy to don in stormy conditions
- Five-fingered insulated gloves for warmth and dexterity
- Water-tight face seal
- Includes buddy line
- Includes deck safety harness
- Ankle adjustments for a better fit
- 5mm fire retardant neoprene provides flotation and hypothermia protection
- Triple-sealed seam construction
- Non-slip, durable soles
- SOLAS grade reflective tape for night time or foul-weather detection
- SOLAS grade hailing whistle
- Comes with IMO approved light
- Includes instructions and inspection manual
- Includes zipper lubricant
- Custom crew identification markings available

Part #	Size	Height	Weight
SVT MIS220TC	Small	47" - 67" 119cm - 170cm	88lbs - 220lbs 40kg - 100kg
SVT MIS230TC	Universal	59" - 79" 150cm - 200cm	110lbs - 331lbs 50kg - 150kg

Mustang Canadian Standard Lifejackets



- Compact storage
- SOLAS grade reflective tape
- Accessory tab with SOLAS approved whistle
- Attachment point for personal light (light not included)
- Buoyant buddy line
- Lifting loop
- USCG Type I Lifejacket
- USCG SOLAS
- Marine Equipment Directive SOLAS
- Transport Canada SOLAS
- Child MV8035 Chest: 140 cm (55"), L: 56 cm (22") x W: 29 cm (11-3/8") x D: 11 cm (4-3/8")
- Adult MV8040 Chest: 175 cm (69"), L: 63 cm (24-3/4") x W: 32 cm (12-1/2") x D: 15 cm (5-3/4")

MUS MV8040 Adult / over 41 kg (over 90 lbs)
MUS MV8035 Child / 15-41 kg (33-90 lbs

Mustang Industrial Vests



- Industrial vest with SOLAS reflective tape
- Two roomy pockets with Velcro closures
- Adjustable radio pocket allows you to use the radio without removing it from the pocket
- 90 lbs or over
- Colour: Orange
- TC/Cdn Coast Guard approved PFD

MUS MV3119RPS	S	Chest 32" - 36"
MUS MV3119RPM	M	Chest 36" - 40"
MUS MV3119RPL	L	Chest 40" - 44"
MUS MV3119RPXL	XL	Chest 44" - 48"
MUS MV3119RPXXL	XXL	Chest 48" - 52"

Mustang Classic Industrial Vests



- Reflective tape on shoulders
- Adjustable side straps
- Large armholes
- Colour: Orange
- Approval: Harmonized

MUS MV3196T2-S	S	Chest 32" - 36"
MUS MV3196T2-M	M	Chest 36" - 40"
MUS MV3196T2-L	L	Chest 40" - 44"
MUS MV3196T2-XL	XL	Chest 44" - 48"
MUS MV3196T2-XXL	XXL	Chest 48" - 52"
MUS MV3196T2-3XL/7XL	XXXL	Chest 52" - 56"

Mustang Industrial Vest



- Universal-fit PFD
- For recreational or industrial boaters
- 3-adjustment belts
- Open sides for a flexible fit
- SOLAS grade tape on shoulders
- Universal Size: up to 52" (132 cm) chest size
- TC/Cdn Coast Guard approved PFD

MUS MV3005-T1 Orange

Mustang Industrial Mesh Vests

NEW



- Mesh shoulders offers mobility and comfort
- Large front pockets with velcro closure
- Side adjustments for dual sizing
- 32 square inches of SOLAS reflective tape across the front and back of the vest
- Pass through in the back for fall arrest harness compatibility
- Approval: Harmonized

MUS MV1254T1-S/M	S/M	Chest 34" - 42"
MUS MV1254T1-L/XL	L/XL	Chest 42" - 50"
MUS MV1254T1-XXL/XXXL	XXL/XXXL	Chest 50" - 58"

Mustang Industrial Mesh Vests



- Mesh shoulders offers mobility and comfort
- Large front pockets with Velcro closure
- Side adjustments for dual sizing
- SOLAS reflective tape across the front and back of the vest
- Colour: Orange
- TC/Cdn Coast Guard approved PFD

MUS MV1255T1-S/M **	S/M	Chest 34" - 42"
MUS MV1255T1-L/XL **	L/XL	Chest 42" - 50"
MUS MV1255T1-XXL/XXXL **	XXL/XXXL	Chest 50" - 58"

** While Stock Lasts

Mustang Search and Rescue Vests



- Two large front cargo pockets with easy to use pull tabs for extra storage
- 62 square inches of SOLAS reflective tape
- Colour: Red
- USCG Type III
- Approval: Harmonized

MUS MV5606-04-S	S	Chest 32" - 36"
MUS MV5606-04-M	M	Chest 36" - 40"
MUS MV5606-04-L	L	Chest 40" - 44"
MUS MV5606-04-XL	XL	Chest 44" - 48"
MUS MV5606-04-XXL	XXL	Chest over 48"

Airhead Adult Vests



- 3 belt design
- Universal sizing
- Approval: Harmonized

AIR 30002-15-A-BLUE
AIR 30002-15-A-RED

Airhead Adult Vests w/Bag



- 4 adult size jackets in a stow bag
- 3 belt design
- Universal sizing
- Approval: Harmonized

AIR 30002-25-A-RED

Airhead Trend Life Vests



- 4 adjustable belts
- Closed sided
- Lightweight EPE foam
- Adult, over 90 lbs
- Approval: Harmonized

AIR 30081-04-A-BKHP	Pink, S/M
AIR 30081-05-A-BKHP	Pink, L/XL
AIR 30081-06-A-BKHP	Pink, 2XL/3XL
AIR 30081-04-A-BKSB	Blue, S/M
AIR 30081-05-A-BKSB	Blue, L/XL
AIR 30081-06-A-BKSB	Blue, 2XL/3XL

Mustang Universal Adult Vest



- Universal-fit PFD
- For recreational or industrial boaters
- 3-adjustment belts
- Open sides for a flexible fit
- Universal Size: up to 52" (132 cm) chest size
- TC/Cdn Coast Guard approved PFD

MUS MV3005-04 Red

Mustang APF Foam Vests





- Nine points of adjustment, including padded neoprene shoulders, help tailor the APF (All Person Fit) to any paddler's needs
- Durable polyester shell with soft polyester liner
- Side storage pockets for strap ends or keys
- Reflective trim on front, back, and shoulders
- Fits paddlers with chests from 30" - 56"
- Approval: Harmonized

MUS MV4111-806 ** Black/Grey
MUS MV4111-861 ** Red/Grey

PFAS-Free Material

MUS MV4111-02-806 Black/Grey
MUS MV4111-02-861 Red/Grey
** While Stock Lasts

Mustang Solaris Foam Vests



- Classic high-back style with mesh panels to keep you cool, and clears most kayak back seats
- Durable polyester shell with soft polyester liner
- Six points of adjustment
- Two hand warmer pockets
- Expanded zipper cargo pocket, sized to fit large smartphones, with key clip
- Reflective trim on front, back, and shoulders
- Daisy chain attachments and tethered signal whistle
- Approval: Harmonized

MUS MV8070-02-XS/S-123
MUS MV8070-02-M/L-123
MUS MV8070-02-XL/XXL-123

Mustang Moxie Foam Vests



- Built on the classic high-back model, but includes the Adjust-a-Bust fit system; removable underbust memory foam pads and adjustable shoulders
- Women-specific fit with 8 points of adjustment
- Durable polyester shell with soft polyester liner
- Two expanding zippered stretch mesh pockets
- Sunglasses loops
- Reflective trim on front, back, and shoulders
- Daisy chain attachments, tethered signal whistle, and lash tab
- Approval: Harmonized

MUS MV8075-02-XS/S-853
MUS MV8075-02-M/L-853
MUS MV8075-02-XL/XXL-853

Mustang Slipstream Foam Vests



- Front entry with zipper
- Z-Strap cinch system for a comfortable and secure fit
- 210/420D ripstop nylon shell is durable
- 3D breathable mesh liner for breathability
- Padded adjustable neoprene shoulders
- Fleece-lined pockets with carabiner loops
- Expanding cargo pockets
- Reflective attachment loops above pockets and daisy chain gear loops on the back
- Lash tab for affixing gear
- Tethered signal whistle for emergencies
- Approval: Harmonized

MUS MV7161-SM/MED	30" - 40" chest
MUS MV7161-L/XL	40" - 50" chest

Mustang Trident Foam Vests



- Front entry with buckle
- Z-Strap cinch system for a comfortable and secure fit
- 200D nylon shell is soft and durable
- Padded adjustable neoprene shoulders
- Daisy chain attachments on the back
- Large mesh pockets with key clip
- Reflective trim on the front, back, and shoulders
- Tethered signal whistle for emergencies
- Approval: Harmonized

MUS MV7160-SM/MED	30" - 40" chest
MUS MV7160-L/XL	40" - 50" chest

Spinlock Cento





- Junior 150N (33.75 lbs) category Lifejacket Harness, 100N (22.4 lbs) actual
- Compact and lightweight, with body form fitting
- 44 - 110 lbs (20-50 kgs) person weight (Recommended for juniors from 8 to 16 years old)
- Soft loop harness attachment point
- Lightweight, easy adjust belt
- Single crotch straps
- Automatic inflation
- Attachment for Pylon light and sprayhood
- 5 year warranty

SPI DW-CEN/APB	Pacific Blue
SPI DW-CEN/ASY	Sun Yellow

Parts:

SPI DW-RAK/100	Cylinder, auto head Jr
SPI DW-UML5	MK5i Activation cap

Approvals: ISO 12402-3
ISO 12401 harness
CE approved

Mustang REV Youth & Young Adult Vests



- Segmented foam to enhance mobility
- Ventilated mesh back
- Grab loop
- Child and Youth vests have built-in crotch straps
- Young adult vest has MOLLE inspired accessory panel for gear attachment
- Approval: Harmonized Level 70

MUS MV3600-270	Young Adult, 88-110 lb, Grey
MUS MV3600-272	Young Adult, 88-110 lb, Grey/White/Pink

PFAS-Free Material



MUS MV3570-02-277	Youth, 55-88 lb, Red
MUS MV3600-02-821	Young adult, 88-110 lb, Grey

** While Stock Lasts

FirstWatch Children's Vests



- Designed for a comfortable fit
- Head support pillow
- Crotch straps, pull strap and adjustable belt ensures a secure fit
- 210 denier nylon construction
- TC/Cdn Coast Guard approved

FST AV-IC	Infant, 20 - 30 lbs
FST AV-CC	Child, 30 - 60 lbs
FST AV-YC	Youth, 60 - 90 lbs

Mustang Classic Children's Vests



- Head cushion adds extra buoyancy and cradles head in water
- Safety grab strap for ease of rescue
- Adjustable waist belt and crotch strap
- TC/Cdn Coast Guard approved PFD
- Colour: Red/Black

MUS MV1203-RD/BK **	Infant, 20 - 30 lbs
MUS MV1205-RD/BK **	Child, 30 - 60 lbs
MUS MV1207-RD/BK	Youth, 60 - 90 lbs

PFAS-Free Material

MUS MV1203-02-123	Infant, 20 - 30 lbs
MUS MV1205-02-123	Child, 30 - 60 lbs
MUS MV1207-02-123	Youth, 60 - 90 lbs

** While Stock Lasts

Spinlock NEMO Child Vest



- High-volume buoyancy with supporting collar ensures that child will be turned over and the head will be supported out of the water
- Grab handle at top of vest
- Soft neck panels to reduce chafing
- Padded secure leg strap holds jacket in place
- Conforms to ISO 12402-3 as a 150N lifejacket (Actual buoyancy: Child 60N)
- Canada TP 14475 approved; USCG approved

SPI DW-CNMU/2	30-60 lbs

Spinlock NEMO+ Children's Vests



- High-volume buoyancy with supporting collar ensures that children will be turned over and the head will be supported out of the water
- Back harness for safety line, and front hand-only grab handle
- Soft neck panels to reduce chafing
- Padded secure leg strap holds jacket in place
- Conforms to ISO 12402-3 as a 150N lifejacket (Actual buoyancy: Infant 45N, Child 60N)
- TC/USCG approved

SPI DW-CNMUH/1	Infant, 20 - 30 lbs
SPI DW-CNMUH/2	Child, 30 - 60 lbs



Airhead Pet Vests

- Closed sided
- 3 adjustable body belts with side-release buckles
- D-ring for leash attachment
- Durable polyester fabric
- Grab strap for easy recovery
- Colour: Red/Black



AIR D-1300-A-RD **	XXS/XS, 8-15 lbs
AIR D-1301-A-RD **	S/M, 15-50 lbs
AIR D-1302-A-RD **	L/XL, 50-100 lbs

** While Stock Lasts



Mustang Underdog Vests

The Underdog places 90% of the effective buoyancy under the neck and chest, supporting your dog's natural swim angle, and giving them maximum freedom of movement in the water.

- Constructed with USCG approved fabrics, including Cordura reinforment on the belly and neck panels for added abrasion resistance
- 3D mesh on back
- 4 points of adjustment for fitting different breeds
- Reinforced webbing carry handle
- Leash attachment point
- Reflective panels for enhanced visibility

MUS MV5020-XS-123	2 - 12 lbs, 12" - 18"
MUS MV5020-S-123	12 - 24 lbs, 18" - 24"
MUS MV5020-M-123	24 - 60 lbs, 24" - 30"
MUS MV5020-L-123	60 - 90 lbs, 27" - 36"
MUS MV5020-XL-123	90 - 120 lbs, 33" - 44"

Spinlock FIDO Flotation Vests



- Lightweight foam
- Handle on the back of the lifejacket for easy lifting and retreival
- Adjustable straps for a comfortable, snug, and secure fit that still allows freedom of movement
- Designed to prevent chafing or discomfort during extended wear
- Breathable fabric for proper ventilation

SPI DW-FD/XS	Extra small, 6.6 - 17.6 lb
SPI DW-FD/S	Small, 17.6 - 33 lb
SPI DW-FD/M	Medium, 33 - 88 lb

Mustang Inflatable Belt Pack PFD



Inflated

A compact inflatable belt pack PFD that is comfortable, compact, and easy to deploy if necessary. It keeps mobility and range of motion in mind.

- Manually inflates by pulling activation cord
- 33 lbs buoyancy
- Stays out of the way until activated
- Lightweight ergonomic fit
- Harmonized level 70

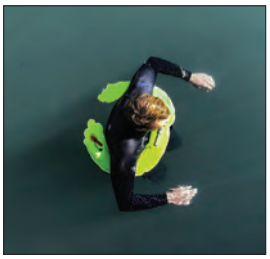
MUS MD3070-191	Admiral Grey
Parts:	
MUS MA3070	Re-arm kit

► *Also See* Spinlock Deckvests pg 12-028 to 032

Spinlock ALTO Belt Packs

Designed for a range of watersports, the ALTO is a lightweight, compact, inflatable flotation device worn around the waist.
Manually operated, the inflatable tube is released from the waist pack and then supports the user under the arms and around the chest. ALTO offers users such as SUP, A simple, easy to use, tiny inflatable pack, that feels invisible when worn.

- Huge 75N Buoyancy
- Compact and Lightweight
- Adjustable waist belt for simple close fit
- Can be worn on Front or Back
- Manually Activated – 16g CO2 Cylinder
- Harmonized level 70









SPI DW-ATU/M75	Black
SPI DW-ATU/M75/AB	Blue
SPI DW-ATU/M75/FO	Fluorescent Orange
SPI DW-ATU/M75/MR	Mercury Red
SPI DW-ATU/M75/CY	Citrus Yellow
Parts:	
SPI DW-RAK/75	Re-arm kit

OPTIONAL FITTING
- Lume-On™ Bladder Illumination Light
- Whistle

UL 12402 - 5: 2021 Buoyancy Aids (Level 70)

► *Also See* Lume-On Inflatable Illumination pg 12-034

Mustang MIT 70 Inflatables





The MIT 70 is the smallest inflatable PFD approved in North America.

- Automatic inflation model inflates upon water immersion / Manual inflation model inflates by pulling the activation cord
- Exclusive Membrane Inflatable Technology has a lightweight, flexible fit
- Easy-access inflator eases re-arming
- Provides 15.7 LB buoyancy when inflated
- Designed for near shore use
- High visibility, contrasting fabric when inflated for increased visibility for rescue
- Approval: Harmonized Level 70

Manual

MUS MD4041-04	Red
MUS MD4041-191	Admiral Grey

Automatic

MUS MD4042-04	Red
MUS MD4042-191	Admiral Grey
Parts:	
MUS MA4041	Re-arm kit, MD4041/MD4042





Mustang MIT 100 Auto/Manual Convertible Inflatables

This easy to wear and easy to use inflatable PFD features Membrane Inflatable Technology inside to reduce product weight and create a lighter and more flexible fit

- Convertible between automatic and manual inflation modes; simply swap the included inflator caps
- High tenacity nylon face fabric
- Inflator inspection window and easy access flap
- Will self-right most wearers (face-up) once inflated
- 28 lbs of buoyancy when inflated - 1.5x regular foam PFDs
- Designed for inshore and inland waters
- Approval: TC - Inflatable PFDs - Type II
- Zippered hip pocket, and D-ring for engine cutoff switch

MUS MD2040-04	Red
MUS MD2040-191	Admiral Grey
Parts:	
MUS MA2030	Re-arm kit

Mustang MIT 100 Inflatable

NEW



This easy to wear and easy to use inflatable PFD features Membrane Inflatable Technology inside to reduce product weight and create a lighter and more flexible fit

- Automatic inflation will self-right most wearers within seconds of water entry
- 500 Denier Cordura outer shell
- Inflator inspection window and easy access flap
- 1-fold, easy to repack design
- Provides 28 lb (125 N) buoyancy when inflated - 1.5x regular foam PFDs
- Also includes manual inflation cord, reflective tape on bladder, and safety whistle
- Approval: TC Marine - Type III Recreational / Type V Commercial
- Universal fit



MUS MD2019T1-O/B	Orange/Black
Parts:	
MUS MA2030	Re-arm kit
LND V86000-84204Z	Re-arm kit

Mustang Elite 120 Inflatables - Automatic



- 120N / 28 lb buoyancy
- Hammar MA1 inflator is maintenance-free for 5 years, and prevents accidental inflation
- Loop for engine kill switch
- Mesh back for comfort and breathability
- Ergonomic chassis and low-profile design that sits off the neck to provide all-day comfort
- Approvals: Harmonized Level 70



MUS MD5170-04	Red
MUS MD5170-191	Admiral Grey
MUS MD5170-292	Everglade Green
Parts:	
MUS MA5183	Re-arm kit

Mustang Hydrostatic Inflatable - Automatic



The Inflatable Lifejacket with H.I.T.is the first Transport Canada approved lifejacket in Canada. The Hydrostatic Inflator Technology offers reliable inflation in a low maintenance design that will only inflate when submerged in 4 or more inches of water and not inadvertently due to rain, spray or humidity.

- 1F auto hydrostatic inflator technology
- 5-year maintenance-free inflator
- SecureZip closure
- Light weight and comfortable design
- Neoprene Comfort Collar
- Provides 35lb of buoyancy when inflated
- Cylinder is contained inside bladder to protect against corrosion
- Durable heavy duty polyurethane coated nylon
- Strobe light holder, safety whistle and SOLAS reflective tape on inflation cell
- Approval: TC Marine - CAN/CGSB 65.7-2007, Class 1, Category 2A



Inflated

MUS MD3157	Orange
Parts:	
MUS MA7214	Re-arm kit

Mustang Atlas 190 DLX Inflatables - Automatic



- 188N / 42 lb buoyancy
- Hammar MA1 inflator is maintenance-free for 5 years, and prevents accidental inflation
- ADAPT (ADvanced Airway Protection & Turning) technology provides strong turning performance without hindering self-rescue or boarding of rescue crafts
- Low-profile tether point allows jack line attachment (tether line not included)
- Detachable integrated leg strap
- Lightweight anodized aluminum hardware for durability and security
- Integrated sprayhood
- Water activated light
- Room for AIS/PLBs
- Ergonomically shaped to sit off the neck and provide all-day comfort
- Approvals: ISO 12402-3 (150N), 12404-8 (Sprayhood and light), 12401 (Harness)



MUS MD3195E1-13	Black
MUS MD3195E1-123	Red/Black
Parts:	
MUS MA3190	Re-arm kit

Mustang Hydrostatic Inflatable High Visibility ANSI - Automatic



A new hydrostatic inflation technology, and a durable, easy-to-repack SecureZip PFD closure system. Hydrostatic pressure is applied to objects submerged in water. The new hydrostatic inflator needs only to be submerged 4 inches (10 cm) for hydrostatic pressure to open a pressure valve which releases a firing mechanism that automatically inflates the PFD.

- High visibility ANSI approved fluorescent yellow-green cover
- 64 sq. in. of ANSI reflective tape
- Back flap with reflective tape
- Hammar 1F auto hydrostatic inflator is maintenance free for 5 years
- Neoprene comfort collar
- 35 lb buoyancy when inflated
- Durable 420-Denier nylon and heavy duty polyurethane coated nylon
- Strobe light holder, safety whistle and SOLAS reflective tape on bladder
- Backup oral inflation tube
- D-ring for kill switch attachment
- USCG - UL1180 - TC/Cdn Coast Guard approved PFD



Inflated

MUS MD3153T3	ANSI Yellow/Green
Parts:	
MUS MA7214	Re-arm kit

Mustang Elite 190 Inflatables - Automatic



- 188N / 42 lb buoyancy
- Hammar MA1 inflator is maintenance-free for 5 years, and prevents accidental inflation
- ADAPT (ADvanced Airway Protection & Turning) technology provides strong turning performance without hindering self-rescue or boarding of rescue crafts
- Loop for engine kill switch, room for AIS/PLB storage, and compatible with optional leg straps, sprayhood, and light
- Ergonomically shaped to sit off the neck and provide all-day comfort
- Approval: Harmonized Level 70

MUS MD3170-13	Black
MUS MD3170-123	Red/Black
Parts:	
MUS MA3160	Re-arm kit

Mustang Hydrostatic Inflatables - Automatic



Features the exclusive USCG-approved Hydrostatic Inflator Technology, bright fluorescent yellow-green inflation cell, lightweight outer shell fabric used in the body armor industry and a zippered pocket.

- 1F auto hydrostatic inflator technology will automatically inflate under water pressure, not inadvertently in rain, spray or humidity
- Bright fluorescent yellow-green inflation cell
- SOLAS reflective tape, safety whistle and strobe light attachment on inflation cell
- SecureZip closure stays shut in high winds
- Provides 35 lb of buoyancy when inflated
- Cylinder is contained inside bladder to protect against corrosion



Inflated

- Lightweight outer shell fabric as used in the body armor industry
- Reflective shoulder accents
- Backup oral inflation tube
- D-ring
- Neoprene Comfort Collar
- Approval: TC Marine - TP 14475 - Inflatable PFDs - Type III

MUS MD3153-02-GRY/BLK **	Grey/Black
Parts:	
MUS MA7214	Re-arm kit

** While Stock Lasts

► *Also See* Lume-On Inflatable Illumination pg 12-034

Mustang Leg Strap Accessory



- The properly attached AirForce leg strap assembly keeps the inflated cell in place while in the water
- Compatible with PFDs that use 1.5" webbings
- MA3032 falls outside of coastguard approvals

MUS MA3032

Inflatable Features:

Model Series	Manual	Automatic	Inspection Window for Inflator	Integrated Sailing Harness	Backup Oral Inflation
Mustang					
MD2017 T1 / MD2019 T1		●	●		●
MD4031 / MD4041	●		(on MD4041)		●
MD4032 / MD4042		●	(on MD4042)		●
MD2040	Convertible Manual - Automatic		●		●
MD3153 / MD3160 / MD3170		*H	●		●
MD3157		*H	●		●
MD3195E		*H	●		●
MD5153 / MD5160 / MD5170		*H	●		●
Spinlock					
DW-LJH6D		●	●	●	●
DW-VT/H170 / DW-VT2/H170		*H		●	●
DW-LTE (Lite)		●			●
DW-LTH (Lite+)		●		●	●
Cento		●		●	●

*H = Hydrostatic activation

You must know which activities and conditions inflatables are approved for:
Remember that you have to be wearing an inflatable PFD for it to be approved on an open boat.
If the boat is not open, then you only need to wear the PFD while you're on deck or in the cockpit.

FYI
Safety Requirements

For recreational boats in Canada (also known as Pleasure Craft) there is a legal requirement to have:

"One Canadian approved personal flotation device or lifejacket of appropriate size for each person on board." This also includes human-powered craft.

The difference between lifejackets and PFD's.

Where a traditional lifejacket had approximately 35lbs of buoyancy, a PFD has a minimum of 15.5lbs of buoyancy. Where lifejackets were designed to self-right people into a face up position in the water, PFD's do not. PFD's do have a marginally higher amount of flotation in the front of the product to achieve a safe flotation angle, but they are designed for comfort as well as safety.

The evolution of traditional PFD's, and now inflatable PFD's has placed the onus on the consumer to make an appropriate choice for their activity and to wear their product in order to be safe.

Lifejackets

Lifejackets come only in red, orange and yellow so you are much more visible while in water. Currently, there are three Canadian-approved types to choose from:

Safety of Life at Sea (SOLAS) lifejackets meet very high performance standards and are approved for all vessels.
- Will turn you on your back in seconds to keep your face out of the water, even if you are unconscious
- Come in two sizes: for those over 32 kg (70 lb) and those less than 32 kg
- Are available in comfortable and compact inflatable configurations that can be automatically, manually or orally inflated

Standard Type lifejackets are approved for all vessels, except SOLAS vessels.
- Will turn you on your back to keep your face out of the water, even if you are unconscious
- Come in two sizes: for those less than 40 kg (88 lb) and those greater than 40 kg

Small Vessel lifejackets are approved for small vessels.
- Have less flotation than Standard Type lifejackets
- Will turn you on your back, but may do so more slowly
- Come in two models: keyhole and vest
- Come in three sizes

Personal Flotation Devices (PFDs)

This type of flotation device is approved for pleasure craft only. You can choose from a wide range of approved types, sizes and colours of PFDs. They do not all come in red, orange or yellow; but it is a good idea to choose one of these colours so you are much more visible when in water.

Choose a PFD based on your needs and the activity you will be participating in. If you plan on operating at high speeds, look for a PFD with three or more chest belts for security. If you will be operating in cold water (water less than 15°C) choose a PFD with some thermal protection. A large selection of devices in either vest or pouch styles designed for specific uses are now available for all types of activities such as stand-up paddleboarding, sailboarding, kayaking, and canoeing.

There are, however, some pros and cons to choosing a PFD over a lifejacket. A PFD may be more comfortable than a lifejacket because it is designed for constant wear, but PFD usually offer less flotation than SOLAS, Standard Type, and Small Vessel lifejackets. Although they have limited turning capability, some PFD provide thermal protection against hypothermia. The choice is yours, but consider your needs carefully before purchasing.

Inflatable PFD are another option but for them to work properly you must understand their operation and maintenance requirements. You should also check which boating activities they are approved for, under the Small Vessel Regulations. For example, people less than 16 years of age or who weigh less than 36.3 kg (80 lb), and operators of personal watercraft are prohibited from wearing an inflatable PFD.

MARINE & AVIATION
GRADE PERFORMANCE
- PREPARE FOR THE SEASON -

MAXIMUM INFLATION® BRAND CO_2 CARTRIDGES

DID YOU KNOW?

Inflatable life vests are comfortable and easy to maintain. Always make sure to inspect your life vest before use and follow the manufacturer owner's manual for instructions.



Revere Inflatable PFD Life Jacket

Why Leland Re-Arming Kits?

Leland Maximum Inflation brand rearming kits are UL and USCG tested and approved for use in Mustang, Stearns, Coleman, SOSpenders, Revere, West Marine, and dozens of other Coast Guard approved life vest manufacturers. Leland also produces rearming kits for popular inflatable items which the USCG does not consider a life jacket meeting their requirements. Please use the Leland Maximum Inflation Selection Guide to properly rearm your inflatable. Each Leland rearming kit comes with easy-to-follow instructions and is packaged with one cartridge and components such as the Halkey-Roberts bobbins.



HALKEY-ROBERTS BOBBINS have a shelf life of 5 years from the manufacture date. The expiration date is printed on the Bobbin Assembly. Bobbins must be stored in a cool, dry environment with a maximum relative humidity of 60%. If not stored properly, bobbins can become more susceptible to accidental auto-inflation triggered by rain, spray, or waves. It is recommended to change bobbins every 3 years and more often in extreme conditions such as high temperature and high humidity where a chemical bobbin may deteriorate in less than 30 days. Always inspect your bobbin to ensure the "ridges" are still evident and the bobbin is not cracked, or the white fill discolored.



CO_2 CARTRIDGES do not have an expiration date. You should always replace the cartridge if it is showing signs of rust, corrosion, or deterioration. Once the cartridge has been pierced, a new rearming kit should be purchased. Punctured CO_2 cartridges are fully recyclable. Remove any labeling, if applicable, and place it in a recycling collection container as you would with beverage or food cans.

If an automatic inflating life jacket mechanism was activated by a liquid, ensure all parts of the compartment are thoroughly dried before inserting a new bobbin. If there is an immediate need to rearm the life jacket for automatic inflation, you can blow dry the compartment then place the life jacket in the sun to dry any remaining moisture. Rearming a wet mechanism for automatic inflation will result in the bobbin dissolving and the life jacket inflating again. While obtaining individual replacement components, such as a clip, pin, or bobbin, may be cost effective, as a rule, inflatable life jacket owners should always purchase the rearm kit specified for their life jacket.

Leland Limited Inc. | 2614 South Clinton Ave | South Plainfield, NJ 07080 USA | (908) 561-2000

Leland Re-Arm Cartridges & Kits



- High pressure disposable gas filled cylinders

First Watch: FW3300M
Mustang: MD1166, MD3000, MD3003, MD3004, MD3020, MD3021, MD3025

LND 840AMU-85202Z Manual

Stearns: 38MHAR-1, 38MHAR-P-1, 38MPRO-1, 38MSTD-1, 38MWB-1, 38SB, 38SC, 38B (SOLAS)

LND 840AMU-86121Z Manual

First Watch: FW3300A
Mustang: MD3001, MD3002, MD3017, MD3019, MD3031, MD3032

LND V85000-85202Z Auto

Stearns: 38SB, 38SC, 38AHAR, 38AHAR-P, 38AMPV, 38APRO, 38ASTD, 38B (SOLAS), 38C (SOLAS)

LND V85000-86121Z Auto

Mustang: MD2016, MD2017
West Marine: 10997443, 10997450, 10997468, 12732434, 14832067, 14832075, 14832083, 15939119, 15939127, 16758013

LND V86000-84204Z Auto

Crewsaver: 1193, 9505
Helly Hansen: HI200, HI2000, HI250
Mustang: MD 2053, MD 2087, MD2953, MD2983, MD3053, MD3054, MD3083, MD3084, MD3087
West Marine: 10997476, 10997484, 14832042, 14832059, 16725277

LND V86000-85202Z Auto

Mustang: MD2014, MD2015
West Marine: 10997435, 15313919

LND V86160-84204Z Manual

Helly Hansen: HI100, HI1000
Mustang: MD0100, MD2051, MD2085, MD2951, MD2981, MD3051, MD3052, MD3071, MD3075, MD3081, MD3082,
Stearns: 1247, 1245/33MSPT
West Marine: 10997492, 14578470

LND V86160-85202Z Manual

West Marine: 10127660, 14001911, 14001929, 14897425, 16725285

LND V90000-84204Z Auto

Crewsaver: 1190, 1197, 9500, 9501, 9502
Helly Hansen: 1A8002, A6F

LND V90000-85202Z Auto

Spinlock: Alto
Bluestorm/Takashina/Bote: USB6MM

LND V87000-82123Z Manual

Stearns: 24A13-S21, 24ASPT-1
Cabela's: 3042C, C3042C, SL6F, SL6FA, SP6F, SP6FA
West Marine: 3042C

LND V95000-84204Z Auto

Cabela's:2042AC, C2042AC, T1H
West Marine: 2042AC, 2042AC-H

LND V95000-85202Z Auto

For models which use a 38 g CO2 cylinder with 1/2" thread only
Bluestorm, Cabela's/Guardian, and Takashina

LND V95000-86202Z Auto

Leland Re-Arm Parts

LND V85006-00006	Green Indicator Pins (6/pk)
LND V90124-00006	Green Indicator Clips (6/pk)
LND V80040-00003	Yellow Auto Bobbins (3/pk)
LND V80041	Yellow Auto Bobbins (each)

Mustang Re-Arm Cartridges & Kits



Mustang: MD2014, MD2015, MD2016, MD2017, and versions CM and T1

MUS MA2014

Mustang: MD4031, MD201403, MD2014C3, MD201503, MD2015C3

MUS MA4031

Mustang: MD5153, 5183

MUS MA5183

Mustang: MD1166, MD3000, MD3003, MD3004, MD3020, MD3025, MD3090, MD3091, MD3010, MD3015, MD3021, MD3017, MD3019, MD3001, MD3002, MD3031, MD3032

- Note: This re-arm kit replaces discontinued re-arm kits MA7170, MA7174, and MA7270

MUS MA7113

Mustang: MD2051, MD2053, MD2981, MD2983, MD2951, MD2953, MD3051, MD3052, MD3053, MD3054, MD3071, MD3075, MD3081, MD3082, MD3083, MD3084, MD3085, MD3087 and MD2085, MD2087

- Note: This re-arm kit replaces discontinued re-arm kits MA7202 and MA7203

MUS MA7114

Mustang: MD3153 (02/LE/T3), MD3154 (02), MD3155, MD3157, MD3183 (02/GS/LE/T2/T3), MD3184 (02) and MD3188

MUS MA7214

Mustang: MD1165, MV10, MIV20, MRV170

MUS MA5700

Mustang: MD3070

MUS MA3070

Davis Hand Bearing Compass



- Stable, liquid-damped card
- 5º graduations
- Large contoured, angled handle
- Comes with lanyard
- LED illumination
- Comes with 2 x AAA batteries

DIN 215

Ritchie Sportabout Compass



- Easy-to-read 2" direct-reading dial
- Built-in roller diaphragm for extended ten range
- Silicon impact resistant case with neck lanyard
- QuickSight V-Notch and lubber line for easy heading alignment
- Nonelectric chem sticks provide 18 hours of night lighting

RIT X-11Y

Accessories:

RIT X-11-HW	Holder bracket
RIT RS-0051-4	4 pack light sticks



X-11-HW

Ritchie Sportabout / Kayak Compass Kit

Comes with compass, compass holder, light sticks and tie down for kayak.



RIT X-11Y-TD

Accessories:

RIT RS-0051-4	4 pack light sticks



Ritchie Kayaker Tie-Down

- Designed for mounting the Ritchie Kayaker XP-99 (compass not supplied)
- No drilling, no holes in deck
- Flexible pad and foam ring easily conforms to deck shape
- Won't scratch finishes
- Attaches with bungee cord and clips (included)

RIT K-TD.2

Ritchie Sport Compass Dash Mount



- 2" Direct read dial
- Fits standard 2-1/16" instrument hole
- View adjusts up to 30°
- Scientifically matched sapphire jewel & hardened steel pivot dial movement
- Built-in green NiteVu LED lighting 12V
- High temperature composite construction
- Directive force magnets
- Dia: 2-3/16" x Cutout: 2-1/16" x Depth: 3-1/4"

Note: X-23 compasses do not have built-in compensators

RIT X-23BB

Ritchie Compass Common Features

Internal green night illumination
Built-in compensators to easily adjust for deviation
Matched sapphire jewel & hardened steel pivot dial movement
Powerful directive force magnets for fast heading lock-on
High temperature composite construction

All Ritchie compasses are 100% repairable
and are backed by Ritchie's Exclusive 5-year warranty

Ritchie Sport Compass Bracket Mount



- 2" Direct read card
- Easy-to-install on windshield or dash
- Two-sided, self-adhesive mounting pads included
- Reversible bracket adjusts through 300°
- Built-in green nitevu LED lighting 12V
- High temp composite construction for extended operating range
- Hardened steel pivot and sapphire jewel movement
- Built-in compensators
- H: 2-3/16" x Dia: 2-7/8"

RIT X-10-M **	Grey
RIT X-10B-M	Black
RIT X-10W-M	White

** While Stock Lasts

Ritchie Explorer Compasses



- 2-3/4" Direct read card
- Movable sun shield

Bracket Mount

- Adjustable and removable with bracket and thumbscrews
- H: 4-13/16" x W: 4-7/16" x Dia: 3-5/8"

RIT B-51	Black w/Black dial
RIT B-51G	Grey w/Blue dial
RIT B-51W	White w/White dial

Parts:

RIT EX-0004XSP	Mounting bracket
RIT EX-0005-2	Bulbs, 2/pkg, 12V
RIT EX-0098	Replacement bulb, 24V



Surface Mount

- Compact low-profile design
- Quick push-button removal of compass module for storage and security
- H: 2-7/8" x Dia: 3-5/8"

RIT S-53	Black w/Black dial
RIT S-53W	White w/White dial
RIT S-53G	Grey w/Blue dial

Parts:

RIT EX-0005-2	Bulbs, 2/pkg, 12V

Ritchie Angler Compasses

- 2-3/4" Direct read card
- Surface mount with push-button removal for quick storage and security or easily adjustable bracket mount with thumb-screws
- No-glare grey finish with high-visibility blue dial
- Distinctive Ritchie Angler graphics
- Scientifically matched sapphire jewel & hardened steel pivot dial movement
- Built-in green nitevu LED lighting 12V
- Built-in compensators to easily adjust for deviation
- Movable sun shield
- Directive force magnets
- 100% repairable



RA-91



RA-93

RIT RA-91 Bracket mount (H: 4-11/16" x Dia: 3-5/8")
RIT RA-93 Surface mount (H: 2-7/8" x Dia: 3-5/8")
Parts:
RIT EX-0005-2 Bulbs, 2/pkg, 12V
RIT EX-0098 Replacement bulb, 24V

Ritchie Explorer Compasses Flush Mount

- 2-3/4" Direct read card
- Built-in green nitevu LED lighting 12V
- Movable sun shield
- H: 4-1/8" x Dia: 4-7/8" x D: 2-1/4"
- Fits 3-3/4" mounting hole



RIT F-50 Black
RIT F-50W White

Ritchie Explorer Compass Dash Mount

- 2-3/4" Direct read card
- Bezels styled to match popular gauge packages
- Viewing is adjustable to 30°
- Built-in green nitevu LED lighting 12V
- Dia: 3-3/8 x Depth: 1-3/4"
- Fits 3" instrument hole



RIT V-57.2

Ritchie Explorer Compass Bulkhead Mount

- 2-3/4" Direct read card
- Can be used on sailboats
- Built-in green nitevu LED lighting 12V
- Viewing is adjustable to 30°
- Adjustable and removable with bracket and thumbscrews
- Dia: 3-3/4", Depth overall: 3-11/16"
- Fits 3" instrument hole



RIT V-537

Ritchie Explorer Compass Kayak Slope Mount

- 2-3/4" Direct read card
- Viewing is adjustable to 45°
- Dia: 3-3/4", Depth overall: 2-11/16"
- Fits a 2.89" instrument hole



RIT V-527

Ritchie Voyager Compasses Bracket Mount

- 3" Flat read card
- Adjustable and removable with bracket and thumbscrews
- Movable sun shield
- Built-in green nitevu LED lighting 12V
- 45° lubber lines
- H: 5-1/4" x W: 5-7/16" x Dia: 4-1/4"


B-80

RIT B-80 Flat reading card
RIT B-81 Combi reading card
Parts:
RIT SH-0195KIT Green LED light assembly

Ritchie Voyager Compass Flush Mount

- 3" Flat read card
- Power damp flat dial
- Easily installed
- Movable sun shield
- 45° lubber lines
- Overall H: 4-1/16" (installed: 1-5/16") x Dia: 5-1/4"
- Fits 3-3/4" mounting hole



RIT F-82
Parts:
RIT SH-0195KIT Green LED light assembly, 12V

Ritchie Voyager Compass Flush Mount

- 3" Direct read card
- Combi-damp dial
- Easily installed.
- Movable sun shield
- Overall H: 3-5/16" (installed: 1-5/16") x Dia: 5-1/4"
- Installed, fits 4-3/16" mounting hole



RIT F-83
Parts:
RIT SH-0195KIT Green LED light assembly, 12V

Ritchie Accessories

RIT VL-100 Voyager Black, night light kit

Ritchie Helmsman Compasses Bracket Mount

- 3-3/4" Card
- Adjustable and removable with bracket and thumbscrews
- Movable sun shield
- 45° lubber lines
- H: 6-3/16" x W: 6-3/16 x Dia: 5-1/8"


HB-740


HB-741

RIT HB-740 Flat reading card
RIT HB-741 Combi reading card
Parts:
RIT SH-0195KIT LED light assembly

Ritchie Helmsman Compass Flush Mount



- 3-3/4" Combi read card
- Easily installed, fits 4" (10.16 cm) mounting hole
- Movable sun shield
- 45° lubber lines
- Installed, fits 4" mounting hole
- Overall H: 4-3/4" (installed: 2-1/4") x Dia: 5-1/8"

RIT HF-743

Accessories:

RIT H-741-C Cover, White

Parts:

RIT SH-0195KIT Green LED light assembly

Ritchie Helmsman Covers



A white plastic compass cover that fits all of the flush, deck/binnacle, and bracket mount models in the Ritchie Helmsman series.

RIT H-741-C Helmsman flush mount cover

Ritchie Navigator Compass Flush Mount



- 4-1/2" Flat read card
- Built-in compensators to easily adjust for deviation
- Powerful directive force magnets for fast heading lock-on
- Movable sun shield
- 45° lubber lines
- Dia: 6-1/8", Depth overall: 5-5/8 (3" installed)
- Installed, fits 4.75" mounting hole

RIT FN-201

Ritchie Navigator Compass Binnacle Mount



- 4-1/2" Flat read card
- Brushed stainless housing
- Ideal for both power and sail boats
- Fits all popular sailboat steering pedestals
- Internal gimbal systems for maximum stability during adverse pitch and roll conditions
- Movable sun shield
- 45° lubber lines
- H: 6-1/16" x Dia: 6-1/2"

RIT DNP-200

Ritchie Navigator Covers



RIT N-203-C Flush & Binnacle mount



RIT BN-C BN 202 bulkhead mount

Ritchie Supersport Compass Flush Mount



- 3-3/4" Flat read card
- Fits 4"mounting hole
- Built-in compensators to easily adjust for deviation
- Scientifically matched sapphire jewel & hardened steel pivot dial movement
- Internal gimbal systems for maximum stability during adverse pitch and roll conditions
- Powerful directiveforce magnets for fast heading lock-on
- Exclusive built-in green nitevu night illumination in movable sun shields
- 45° lubber lines
- 100% repairable

RIT SS-1002

Parts:

RIT SH-0195KIT Green LED light assembly

Ritchie Globemaster Compass Binnacle Mount



- 5" Flat read card
- Brushed stainless binnacles
- Ideal for both power and sail boats
- Lightweight/easy-to-align mounting base fits all popular sailboat pedestals
- 45° and 90° lubber lines for easy reading
- Full internal gimbals
- Exclusive green nitevu LED 12V night lighting
- Spherical design with fibreglass reinforced bowl
- High-capacity roller diaphragm for extended temperature operating ranges
- Built-in compensators
- 100% repairable
- H: 7-1/4", Dia: 7-1/4"
- Fits 7-1/8" mounting hole



RIT SP-5C Polished stainless

Accessories:

RIT GM-5-C Protective fabric cover

Ritchie Venture Sailboat Compass



- 3-3/4" Combi-dial
- 12V green led night lighting
- 4-1/2" mounting hole
- Vertical mounting angle through 40 degrees
- Clinometer (45°) included
- Steady quick lock-on performance
- Protective front & back covers are included
- Dia: 6-7/16" x Depth: 2-1/2"

RIT SR-2

Bushnell 7 x 50 Waterproof Marine Binoculars w/Compass



- Hermetically sealed and nitrogen-purged for waterproof and fog proof performance
- Large UV coated objective lenses for bright images from dusk-to-dawn
- Easy-grip rubber armour protects and provides a secure hold - even when wet
- Carrying case and strap included
- Internal ranging reticule
- Internal illuminated analog compass



BUS 13-7500

Bushnell 7 x 50 Waterproof Binoculars



- BaK-4 prisms for bright, clear, crisp viewing
- O-ring sealed and nitrogen purged for fog-proofing and IPX7 waterproof
- Non-slip, soft touch rubber and grip textures reduce the chance of dropping
- Lightweight aircraft grade aluminum chassis
- Adapts to tripod

BUS 15-7050R

Davis Mark 15 Sextant



- 7 large sunshades
- 3 mm x 27 mm star scope
- Micrometre drum vernier scale that reads to 2/10th of a degree
- 7" (18 cm) frame radius graduated from 120 degrees to -5 degrees
- Traditional half-silvered mirror

DIN 026

Binnacle Solid Brass Dividers



46 50 60 & 65

British made, solid brass dividers with stainless steel tips. Heavy duty professional instrument.

BIN 46	7" one-handed
BIN 50	8" straight-legged
BIN 60	7" chrome-plated
BIN 65	6" chrome-plated

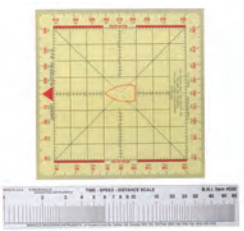
Binnacle Brass Compass



- A modern, robust and quick action compass
- For circles up to 195 mm
- Stove finish brass
- 6.6" in length

BIN 39

Binnacle Cockpit Plotter

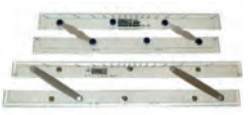


The essential 2 part tool for accurate, rapid plotting of courses, bearings or positions on marine and aviation charts.

- 5" x 5" square
- Time/Speed/Distance Scale

BIN 61

Binnacle Graduated Parallel Rules



Parallel rules with protractor degree markings. Crystal clear plastic equipped with cork friction pads to prevent slipping.

BIN 56	15"
BIN 57	18"

Binnacle Navigator Kit



This handy kit comes complete with a time-speed-distance calculator, 15" parallel rule and set of 5-1/4" dividers. All in a vinyl case.

BIN 89

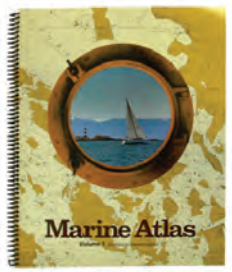
Canadian Government Publications

PUB CURRENT-ATLAS Current Atlas - Juan de Fuca

▶ *Also See* C-Map pg 03-047

▶ *Also See* Navionics pg 03-046

Marine Atlases



Olympia to Malcolm Island, 52 pages.

- 14" x 11-1/2"

PUB MA-1

Port Hardy to Skagway, 72 pages.

PUB MA-2

Davis Quick Reference Cards



Accurate, professional boating information when you need it. These 8-1/2" x 11" rigid, weatherproof cards are double sided and punched for a 3-hole binder.

DIN 125	Navigation Rules
DIN 126	Coastwise Piloting
DIN 127	International Rules
DIN 128	Boating Guide
DIN 131	Weather Forecasting
DIN 132	Celestial Navigation

Ritchie WetNotes



WetNotes are a must for anyone who works or plays outdoors, underwater or in a wet environment. All you need is a simple soft lead pencil to record important notes & reminders.

RIT W-35 Note pad 3" x 5"
40 waterproof pages

Wesmar Pilot Log Book



- Log book with formatted pages
- Measures: 5-1/2" x 8-1/2"

PUB PL

Beckson Ship's Log Books



MM403

400 Series: 9" x 11-1/4". Heavy vinyl supported cover with 22 ring plastic binder.

Part #	Title	Contents
BEC MM401	Radio Log	All radio pages
BEC MM402	Guest Log	All guest register pages, Assorted Colours
BEC MM403-NAVY	Log Book	Combination log, radio & guest pages
BEC MM406	GPS/Loran	Ship's log and log book & way-point register

500 Series: 6-1/2" x 9". Laminated plastic cover with plastic binder. Pages: cruising, guest, radio, fuel, repairs and engine hour readings. Cover colour is navy.



MM503

BEC MM503 Small Craft Log
BEC MM506 GPS Register

Binnacle Vinyl Chart Cases

- #10 gauge vinyl with heat sealed edges
- Press-to-seal closure
- Non-glare surface



BIN 15 11" x 15"
BIN 16 18.5" x 23"
BIN 17 25" x 34.5"


THE APEX TURNBUCKLE
BY BLUE WAVE
BLUE WAVE®
ISO 9001 Certified

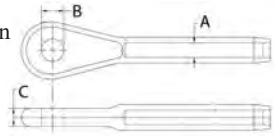
13 - RIGGING HARDWARE

Rigging & Hardware	ARCO / Sta-Lok	13-002 to 003
	Blue Wave	13-003 to 012
	Johnson Marine / Pelican Hooks	13-012 to 015
	Wire Rope Clips / Thimbles / Wire	13-015 to 017
	Shackles	13-018 to 025
	Swivels	13-026
Snap Hooks, Hooks, & Rings	Quick Links	13-027
	Snap Hooks	13-028 to 032
	Snap Shackles / Hooks	13-032 to 034
U-Bolts & Eye Bolts		13-034 to 036
Rings, Pad Eyes, & Fairleads		13-037 to 041
Sailing	Tape / Booting / Tiller Extensions	13-042 to 045
	Forespar	13-042 to 047
	Clamcleat	13-047 to 052
	Spinlock	13-052 to 057
	Harken Sport	13-058
Harken	Blocks	13-059 to 072
	Fairleads	13-073
	Vang-Master	13-074 to 075
	Cam Cleats	13-076 to 077
	Winch Handles / Winches	13-078 to 080
	Furling	13-081 to 082
	Travelers / Battcars	13-083 to 085
	Industrial	13-086
	Access Rail Systems	13-087 to 088
	ILCA Kicker/Vang System	13-089
Sailing Accessories	Winch Handle Holders / Lev-O-Gage	13-090
Instruments	Wind Instruments / Weather Station	13-090 to 091

ARCO Aircraft Eyes

- 316 stainless steel construction



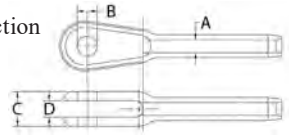


Part #	A Dia	B	C
ALE AE-3	3/32"	3/16"	1/8"
ALE AE-4	1/8"	3/16"	3/16"
ALE AE-5	5/32"	1/4"	3/16"
ALE AE-6	3/16"	5/16"	1/4"
ALE AE-7	7/32"	5/16"	9/32"
ALE AE-8	1/4"	3/8"	5/16"
ALE AE-9	9/32"	7/16"	11/32"
ALE AE-10	5/16"	7/16"	11/32"
ALE AE-12	3/8"	1/2"	3/8"

ARCO Aircraft Forks

- 316 stainless steel construction



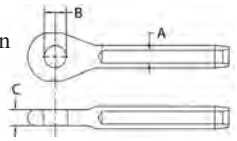


Part #	A Dia	B	C	D
ALE AF-3	3/32"	3/16"	1/4"	7/64"
ALE AF-4	1/8"	3/16"	3/8"	3/16"
ALE AF-5	5/32"	1/4"	13/32"	15/64"
ALE AF-6	3/16"	5/16"	35/64"	1/4"
ALE AF-7	7/32"	5/16"	5/8"	19/64"
ALE AF-8	1/4"	3/8"	11/16"	5/16"
ALE AF-9	9/32"	7/16"	23/32"	21/64"
ALE AF-10	5/16"	7/16"	49/64"	11/32"
ALE AF-12	3/8"	1/2"	53/64"	3/8"

ARCO Marine Eyes

- 316 stainless steel construction





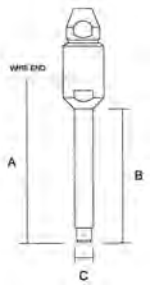
Part # Dia	A	B	C
ALE ME-3	3/32"	1/4"	1/8"
ALE ME-4	1/8"	1/4"	3/16"
ALE ME-5	5/32"	5/16"	15/65"
ALE ME-6	3/16"	3/8"	5/16"
ALE ME-8	1/4"	1/2"	3/8"
ALE ME-7	7/32"	7/16"	3/8"
ALE ME-7-3/8	7/32"	3/8"	3/8"
ALE ME-9	9/32"	1/2"	1/2"
ALE ME-10	5/16"	1/2"	1/2"
ALE ME-10S	5/16"	5/8"	9/16"
ALE ME-12	3/8"	5/8"	5/8"

► *Also See* Clevis Pins pg 18-014

Sta-Lok Stud UNF Threads

- 316 stainless steel
- Designed to suit most turnbuckles & fixing points
- RH Thread

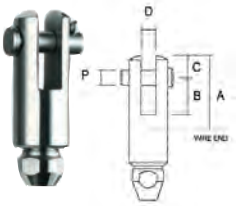




Part #	Wire	A	B	UNF C
Short Stud				
STL 036-03	1/8" / M3	2-17/32	2-3/16"	1/4"
STL 036-04-1/4	5/32" / M4	2-9/16"	2-3/16"	1/4"
STL 036-04	5/32" / M4	2-5/8"	2-5/16"	5/16"
STL 136-05-5/16"	3/16"	2-9/16"	2-5/16"	5/16"
STL 136-05	3/16"	3-1/16"	2-5/8"	3/8"
STL 136-05-7/16"	3/16"	3-21/32"	2-15/16"	7/16"
STL 136-55	7/32"	3-5/16"	2-5/8"	3/8"
STL 136-55-7/16"	7/32"	3-21/32"	2-15/16"	7/16"
STL 136-06-3/8"	1/4"	3-5/16"	2-5/8"	3/8"
STL 136-06	1/4"	3-21/32"	2-15/16"	7/16"
STL 136-06-1/2"	1/4"	3-11/16"	3-3/16"	1/2"
STL 036-07	9/32" / M7	3-13/16"	3-3/16"	1/2"
STL 036-08	5/16" / M8	3-7/8"	3-3/16"	1/2"
STL 036-08-5/8	5/16" / M8	4-11/32"	3-3/4"	5/8"
STL 136-10	3/8"	4-11/32"	3-3/4"	5/8"
STL 136-11	7/16"	5-15/32"	4-7/8"	3/4"
STL 136-12	1/2"	5-15/32"	4-7/8"	3/4"
Long Stud				
STL 176-05	3/16"	6.562"	2.625"	3/8"

Sta-Lok Forks

- 316 stainless steel
- Provides standard end fittings for wire rope
- For chain plates & fixing points



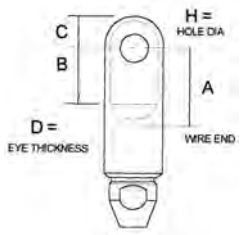
Part #	Wire	A	B	D	P
STL 034-03	1/8" / M3	5/8"	3/8"	7/32"	3/16"
STL 034-04	5/32" / M4	27/32"	9/16"	1/4"	1/4"
STL 134-05	3/16"	31/32"	23/32"	5/16"	5/16"
STL 134-55 *	7/32"	1-7/16"	7/8"	7/16"	7/16"
STL 134-06	1/4"	1-3/16"	7/8"	7/16"	7/16"
STL 034-07	9/32" / M7	1-11/32"	31/32"	7/16"	7/16"
STL 034-08	5/16" / M8	1-23/32"	1-1/32"	17/32"	1/2"
STL 134-10	3/8"	1-5/8"	1-5/32"	35/74"	5/8"

* Special Order

Sta-Lok Eyes

- 316 stainless steel
- Provides standard end fittings for wire rope
- For chain plates & turnbuckles





Part #	Wire	A	B	D	H
STL 033-03	1/8" / M3	23/32"	3/8"	3/16"	1/4"
STL 033-04	5/32" / M4	13/16"	9/16"	7/32"	5/16"
STL 033-05	3/16" / M5	31/32"	23/32"	9/32"	3/8"
STL 133-05	3/16"	1-1/64"	45/64"	19-64"	25/64"
STL 133-55-7/16	7/32"	1-17/32"	29/32"	3/8"	29/64"
STL 133-06	1/4"	1-17/32"	7/8"	3/8"	33/64"
STL 133-06-3/8	1/4"	1-17/32"	15/16"	3/8"	25/64"
STL 033-07	9/32" / M7	1-9/32"	31/32"	13/32"	1/2"
STL 033-08-1/2	5/16" / M8	1-13/32"	1-1/16"	15/32"	1/2"
STL 033-08-5/8	5/16"	1-13/32"	1-1/16"	17/32"	5/8"
STL 133-10	3/8"	1-9/16"	1-5/32"	17/32"	5/8"
STL 133-11	7/16"	1-11/16"	1-5/16"	3/4"	49/64"
STL 133-12	1/2"	1-11/16"	1-5/16"	3/4"	49/64"

► *Also See* Clevis Pins pg 18-014

Sta-Lok Wedges 1 x 19

Recommended where Sta-lok terminals are being re-used. The 1 x 19 wedge must NOT be used for Dyform or compacted strand wire ropes. For wire sizes 1/8" - 1".

- 316 stainless steel
- Sold by the each

STL 126-03	1/8" / M3
STL 126-04	5/32" / M4
STL 138-05	3/16"
STL 138-55	7/32"
STL 138-06	1/4"
STL 126-07	9/32" / M7
STL 126-08	5/16" / M8
STL 138-10	3/8"
STL 138-11	7/16"
STL 138-12	1/2"



Sta-Lok Wedge 7 Strand

- Suitable for use with 7 x 7 & 7 x 19 wire
- 316 stainless steel
- Sold by the each

STL 139-05	3/16"
STL 127-08	5/16"



Sta-Lok Formers

- 316 stainless steel
- Sold by the each

STL 115-03	1/8"
STL 115-04	5/32"
STL 115-05	3/16"
STL 115-06	1/4"
STL 115-07	9/32"
STL 115-08	5/16"
STL 115-10	3/8"
STL 115-12	1/2"



Sta-Lok Insulator

An effective and totally reliable method of converting yacht backstays into radio antennas. The main body of the Sta-lok Insulator consists of an ingenious stainless steel assembly. The whole is embedded via a weather-proof nylon injection moulding designed to exceed the breaking load of the wire rope.

STL 143-06 1/4"



Blue Wave Sealing Kit

- Contains 5 grams of lubricant and 1 gram thread seal for swageless cone terminal assembly

BLU SCTKIT

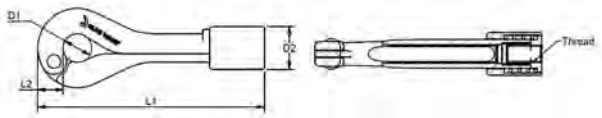


Blue Wave Gate Hook

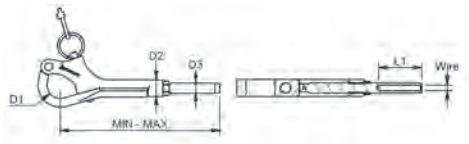


- One hand operated and based on the "over the centre" principal where the load is carried on the body
- Highly polished AISI 316 stainless steel construction

Part #	Thread	D1	D2	L1	L2	BL/lbs
BLU GH06A	1/4"	25/64"	43/64"	3-3/16"	25/64"	1,100
BLU GH08A	5/16"	33/64"	3/4"	4"	7/16"	2,600



Blue Wave Gate Hook with Terminal

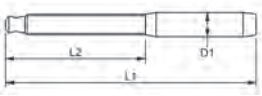


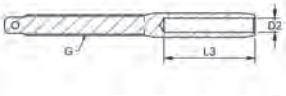


- AISI 316 stainless steel construction

Part #	Wire	Thread	D1	D2	D3	L1	Min-Max	Lb/100
BLU GH450306A	1/8"	1/4"	15/32"	13/32"	1/4"	1"	3-15/16" - 4-27/32"	19.62
BLU GH450508A	3/16"	5/16"	37/64"	1/2"	11/32"	1-3/16"	5-1/8" - 6-1/16"	38.36

Blue Wave Threaded Terminal





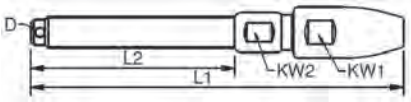


- Highly polished AISI 316L stainless steel construction

Part #	Wire	G	D1	D2	L1	L2	L3	Lb/100
BLU GH900508A *	3/16"	5/16"	11/32"	13/64"	3-17/64"	1-7/8"	1-3/16"	6.83

* Special Order

Blue Wave Swageless Cone Thread Terminals - UNF

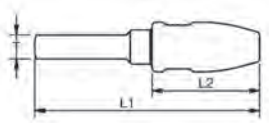


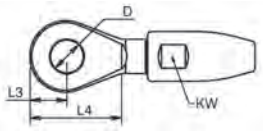


- Secure, reliable and corrosion resistant swageless end fitting
- No special tools required
- Highly polished AISI 316 stainless steel construction

Part #	Wire	Thread	D	KW1	KW2	L1	L2	BL/lbs
BLU SC800408A	5/32"	5/16"	1/8"	15/32"	5/16"	4-3/32"	2-1/4"	4,850
BLU SC804710A	3/16"	3/8"	1/8"	9/16"	25/64"	4-17/32"	2-1/4"	6,173
BLU SC805510A	7/32"	3/8"	1/8"	21/32"	25/64"	5-5/32"	2-1/2"	7,496
BLU SC806312A	1/4"	1/2"	1/8"	21/32"	1/2"	5-11/16"	3-5/32"	11,023
BLU SC800712A	9/32"	1/2"	1/8"	3/4"	19/32"	6-1/16"	3-5/32"	13,228
BLU SC800812A	5/16"	1/2"	1/8"	7/8"	21/32"	6-1/2"	3-5/32"	13,448
BLU SC800816A	5/16"	5/8"	3/16"	7/8"	21/32"	7-1/4"	3-15/16"	17,637
BLU SC809516A	3/8"	5/8"	3/16"	1-1/16"	3/4"	7-7/8"	3-15/16"	21,826

Blue Wave Swageless Cone Eye Terminals



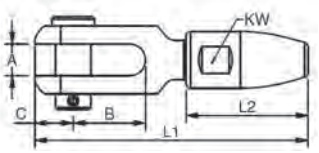




- Secure, reliable and corrosion resistant swageless end fitting
- No special tools required
- Highly polished AISI 316 stainless steel construction

Part #	Wire	D	T	KW	L1	L2	L3	L4	BL/lbs
BLU SC820804	5/32"	5/16"	1/4"	15/32"	2-1/4"	1-1/16"	11/32"	1"	4,850
BLU SC821047	3/16"	3/8"	5/16"	9/16"	2-17/32"	1-3/16"	7/16"	1-3/32"	6,173
BLU SC821355	7/32"	1/2"	3/8"	21/32"	3-1/16"	1-1/2"	9/16"	1-11/32"	11,023
BLU SC821363	1/4"	1/2"	3/8"	21/32"	3-1/16"	1-1/2"	9/16"	1-11/32"	11,023
BLU SC821307	9/32"	1/2"	3/8"	3/4"	3-5/8"	1-13/16"	19/32"	1-1/2"	13,228
BLU SC821308	5/16"	1/2"	3/8"	7/8"	4-1/8"	2-1/8"	9/16"	1-17/32"	15,432
BLU SC821608	5/16"	5/8"	7/16"	7/8"	4-7/16"	2-1/8"	3/4"	1-13/16"	17,637
BLU SC821695	3/8"	5/8"	7/16"	1-1/16"	4-31/32"	2-17/32"	3/4"	1-13/16"	20,944
BLU SC821995	3/8"	3/4"	5/8"	1-1/16"	5-1/4"	2-17/32"	13/16"	2-3/32"	24,251

Blue Wave Swageless Cone Fork Terminals





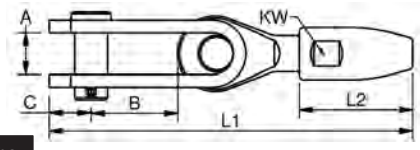
- Secure, reliable and corrosion resistant swageless end fitting
- No special tools required
- Highly polished AISI 316 stainless steel construction

Part #	Wire	Pin	A	B	C	KW	L1	L2	BL/lbs
BLU SC840804	5/32"	5/16"	1/4"	5/8"	11/32"	15/32"	2-7/16"	1-1/16"	4,850
BLU SC841047	3/16"	3/8"	11/32"	13/16"	7/16"	9/16"	2-7/8"	1-3/16"	6,173
BLU SC841355	7/32"	1/2"	7/16"	1-1/32"	17/32"	21/32"	3-17/32"	1-1/2"	9,700
BLU SC841363	1/4"	1/2"	7/16"	1-1/32"	17/32"	21/32"	3-17/32"	1-1/2"	9,700
BLU SC841307	9/32"	1/2"	7/16"	1-5/32"	9/16"	3/4"	4-3/32"	1-13/16"	13,228
BLU SC841608	5/16"	5/8"	9/16"	1-1/4"	21/32"	7/8"	4-23/32"	2-1/8"	17,637
BLU SC841995	3/8"	3/4"	11/16"	1-3/8"	13/16"	1-1/16"	5-19/32"	2-17/32"	24,251

Blue Wave product is ISO 9001 Certified

Blue Wave Swageless Cone Toggle Terminals

- Secure, reliable and corrosion resistant swageless end fitting
- No special tools required
- Highly polished AISI 316 stainless steel construction



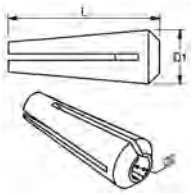


Part #	Wire	Pin	A	B	C	KW	L1	L2	BL/lbs
BLU SC830804	5/32"	5/16"	13/32"	25/32"	11/32"	15/32"	3-11/32"	1-1/16"	4,850
BLU SC831047	3/16"	3/8"	15/32"	1-1/32"	15/32"	9/16"	4-1/32"	1-3/16"	6,173
BLU SC831355	7/32"	1/2"	23/32"	1-13/32"	23/32"	21/32"	5-3/16"	1-1/2"	11,023
BLU SC831363	1/4"	1/2"	23/32"	1-13/32"	23/32"	21/32"	5-3/16"	1-1/2"	11,023
BLU SC831307	9/32"	1/2"	23/32"	1-3/8"	23/32"	3/4"	5-23/32"	1-13/16"	13,228
BLU SC831308	5/16"	1/2"	23/32"	1-3/8"	23/32"	7/8"	6-1/4"	2-1/8"	13,669
BLU SC831608	5/16"	5/8"	25/32"	1-5/8"	25/32"	7/8"	6-13/16"	2-1/8"	17,637
BLU SC831995	3/8"	3/4"	63/64"	1-25/32"	63/64"	1-1/16"	7-15/16"	2-17/32"	24,251

Blue Wave 1x19 Cones for Swageless Terminals

All Blue Wave swageless terminals can be reused if the inner cone is replaced with a new one.

- Highly polished AISI 316 stainless steel construction

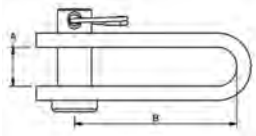


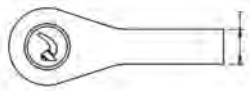


Part #	Wire	D1	D2	L
BLU C476-1X19	3/16"	1/4"	1/8"	23/32"
BLU C635-1X19	1/4"	11/32"	5/32"	27/32"
BLU C07-1X19	9/32"	3/8"	3/16"	15/16"
BLU C08-1X19	5/16"	7/16"	3/16"	1-3/16"

Blue Wave Strap Toggles

Highly polished AISI 316 stainless steel construction.





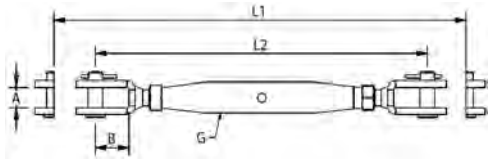


Part #	Pin	A	B	T	BL/lbs
BLU 140006	1/4"	19/64"	1-3/32"	9/32"	3,968
BLU 140008	5/16"	11/32"	1-11/32"	5/16"	7,937
BLU 140010	3/8"	13/32"	1-25/32"	13/32"	8,818
BLU 140011	7/16"	7/16"	1-31/32"	13/32"	10,582
BLU 140012	7/16"	17/32"	2-7/32"	15/32"	12,787
BLU 140016	5/8"	21/32"	2-15/32"	19/32"	17,637

NOTE
Larger sizes available on request

Blue Wave Turnbuckles - Fork/Fork

Highly polished AISI 316 stainless steel construction.



Part #	G	Pin	A	B	L1	L2	BL/kg
BLU 120005	M5	5	7.5	12	180	126	800
BLU 120006	M6	5	7.5	12	200	138	1,000

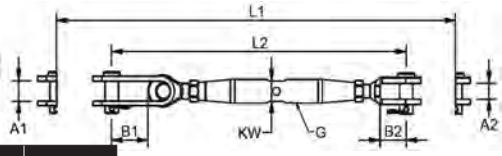


Part #	G UNF	Pin	A	B	L1	L2	BL/lbs
BLU 120006A	1/4"	1/4"	3/8"	1/2"	9-1/8"	5-1/2"	2,866
BLU 120008A	5/16"	5/16"	7/16"	37/64"	9-17/32"	6-5/8"	4,850
BLU 120010A	3/8"	3/8"	7/16"	3/4"	10-25/32"	7-1/2"	7,495
BLU 120012A	1/2"	1/2"	9/16"	63/64"	13-25/32"	9-5/8"	13,448

Blue Wave Turnbuckles - Toggle/Fork

Highly polished AISI 316 stainless steel construction.





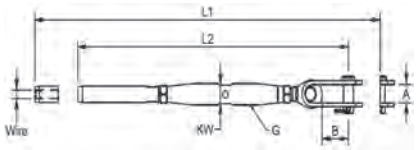
Part #	G UNF	Pin	A1	A2	B1	B2	L1	L2	BL/lbs
BLU 320006A	1/4"	1/4"	5/16"	3/8"	21/32"	1/2"	8-3/4"	6-3/16"	2,866
BLU 320008A	5/16"	5/16"	25/64"	7/16"	25/32"	37/64"	10-9/16"	7-9/16"	4,850
BLU 320010A	3/8"	3/8"	15/32"	15/32"	1-1/64"	3/4"	12-1/16"	8-3/4"	7,495

► *Also See* Split Rings & Clevis Pins pg 18-014

Blue Wave product is ISO 9001 Certified

Blue Wave Turnbuckle - Toggle/Terminal

Highly polished AISI 316 stainless steel construction.



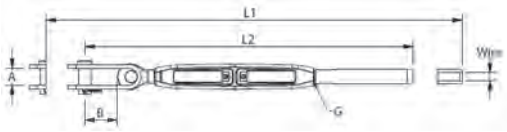
Part #	Wire	G UNF	Pin	A	B	L1	L2	BL/lbs
BLU 320306A *	M3	1/4"	1/4"	5/16"	21/32"	9-61/64"	7-43/64"	2,866
BLU 320508A	3/16"	5/16"	5/16"	13/32"	25/32"	11-7/8"	9-3/16"	4,629



* Special Order - may have stock

Blue Wave Turnbuckles - Toggle/Terminal

Highly polished AISI 316 stainless steel construction with a chromed bronze body.



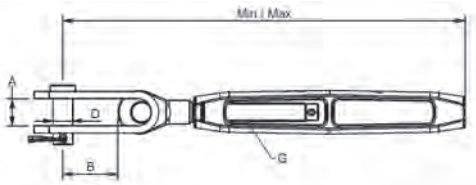
Part #	Wire	G UNF	Pin	A	B	L1	L2	BL/lbs
BLU 330306A *	M3	1/4"	1/4"	5/16"	21/32"	10-1/16"	7-5/8"	2,866
BLU 333206A	1/8"	1/4"	1/4"	5/16"	21/32"	10-1/16"	7-5/8"	2,866
BLU 330408A	5/32"	5/16"	5/16"	13/32"	25/32"	11-15/16"	9"	3,748
BLU 330508A	3/16"	5/16"	5/16"	13/32"	25/32"	12-3/16"	9-3/16"	4,850
BLU 330510A	3/16"	3/8"	3/8"	15/32"	1-1/32"	13-3/4"	10-7/16"	5,291
BLU 336312AX	1/4"	1/2"	1/2"	23/32"	1-3/8"	16-3/4"	12-9/16"	11,464



* Special Order

Blue Wave Open Body Toggle/Blank Turnbuckles

Highly polished AISI 316 stainless steel construction with a chromed bronze body.



Part #	G UNF	A	B	D	Min / Max	BL/lbs
BLU 330006AS	1/4"	9/32"	15/32"	3/16"	5-5/16" / 6-1/2"	2,866
BLU 330008AS	5/16"	13/32"	13/16"	5/16"	6-11/16" / 8-3/16"	4,850
BLU 330010AS	3/8"	15/32"	1-1/16"	3/8"	8" / 9-1/2"	7,496
BLU 330011AXS	7/16"	19/32"	1-11/64"	7/16"	8-3/4" / 10-15/32"	10,141
BLU 330012AXS	1/2"	11/16"	1-3/8"	1/2"	9-5/8" / 11-15/16"	13,448
BLU 330016AXS	5/8"	25/32"	1-37/64"	5/8"	12-1/4" / 14-7/8"	21,826
BLU 330020AXS	3/4"	15/16"	1-49/64"	3/4"	14-3/16" - 17-3/8"	31,747



See the next page for matching Swage Studs

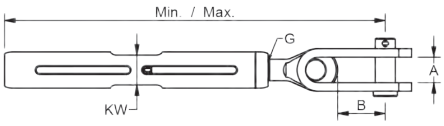
Blue Wave Apex Turnbuckles

Polished AISI 316 stainless steel construction with bronze inserts

Toggle



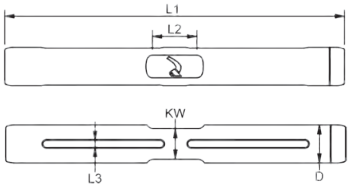
Part #	G	Pin	A	B	Min / Max	KW	BL/lbs
BLU 240006AS	1/4"	1/4"	5/16"	43/64"	5-5/8" / 6-47/64"	7/16"	2,866
BLU 240008AS	5/16"	5/16"	25/64"	25/32"	6-47/64" / 8-9/64"	33/64"	4,850
BLU 240010AS	3/8"	3/8"	15/32"	1-1/16"	8" / 9-1/2"	19/32"	7,495
BLU 240011AXS	7/16"	7/16"	19/32"	1-3/16"	8-47/64" / 10-15/32"	5/8"	10,141
BLU 240012AXS	1/2"	1/2"	45/64"	1-3/8"	9-41/64" / 11-11/16"	45/64"	13,448
BLU 240016AXS	5/8"	5/8"	25/32"	1-37/64"	12-13/64" / 14-7/8"	7/8"	21,825
BLU 240020AXS	3/4"	3/4"	15/16"	1-25/32"	15-3/16" / 18-25/64"	1-7/64"	31,746



Body Only



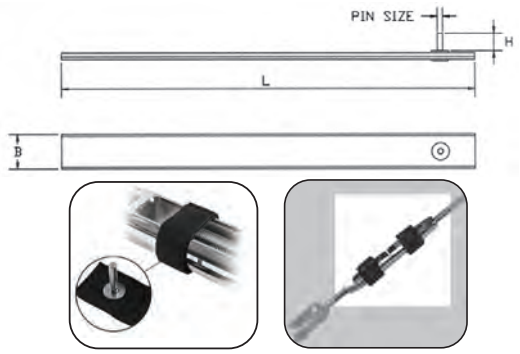
Part #	G	D	L1	L2	L3	KW	BL/lbs
BLU 012406A	1/4"	17/32"	3-15/16"	5/8"	11/64"	7/16"	2,866
BLU 012408A	5/16"	39/64"	4-23/32"	45/64"	11/64"	33/64"	4,850
BLU 012410A	3/8"	11/16"	5-5/16"	3/4"	7/32"	19/32"	7,495
BLU 012411A	7/16"	25/32"	5-29/32"	7/8"	7/32"	5/8"	10,141
BLU 012412A	1/2"	7/8"	6-11/16"	1-1/32"	1/4"	11/16"	13,448
BLU 012416A	5/8"	1-1/32"	8-17/64"	1-3/16"	1/4"	7/8"	21,825
BLU 012420A	3/4"	1-11/32"	9-27/32"	1-17/32"	1/4"	1-7/64"	31,746



Blue Wave product is ISO 9001 Certified

Blue Wave Smart Pins

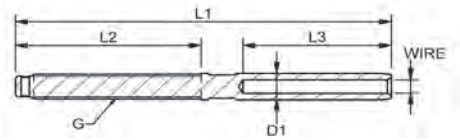
The smart pins are a fast and revolutionary new way of securing open body rigging screws. Simply put the pin attached to the Velcro strap into the split pin hole and secure the Velcro strap around the rigging screw.
316 S/S construction. Comes as a pack of four.



Part #	For Turnbuckles	B	D	H	L
BLU VP1020P4	1/4"	5/8"	3/32"	5/16"	3-15/16"
BLU VP1225P4	5/16" - 3/8"	5/8"	3/32"	25/64"	5-7/64"
BLU VP1632P4	7/16" - 1/2"	25/32"	1/8"	33/64"	7-5/64"
BLU VP2340P4	5/8" - 3/4"	31/32"	5/32"	25/32"	8-21/32"

Blue Wave Right Threaded Swage Studs





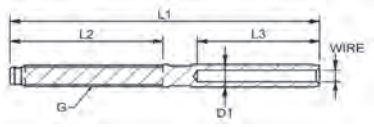
Highly polished AISI 316 stainless steel construction.
- Drilled for split pin

Part # Right	Wire	G UNF	D1	L1	L2	L3	BL/lbs
BLU 930306A *	M3	1/4"	1/4"	3-15/16"	1-7/8"	1-1/2"	2,866
BLU 933206A	1/8"	1/4"	1/4"	3-15/16"	1-7/8"	1-1/2"	2,866
BLU 930406A	5/32"	1/4"	19/64"	4-11/32"	1-7/8"	1-25/32"	2,866
BLU 930408A	5/32"	5/16"	19/64"	4-19/32"	2-1/4"	1-25/32"	3,748
BLU 900508 *	3/16"	M8	11/32"	4-59/64"	2-1/4"	2"	4,850
BLU 930508A	3/16"	5/16"	11/32"	4-59/64"	2-1/4"	2"	4,850
BLU 930510A	3/16"	3/8"	11/32"	5-1/8"	2-15/32"	2"	5,291
BLU 935510A	7/32"	3/8"	27/64"	5-7/16"	2-15/32"	2-5/16"	7,495
BLU 935511A	7/32"	7/16"	27/64"	5-3/4"	2-11/16"	2-5/16"	8,377
BLU 936310A	1/4"	3/8"	1/2"	5-23/32"	2-15/32"	2-17/32"	7,496
BLU 936311A	1/4"	7/16"	1/2"	6-3/16"	2-11/16"	2-17/32"	10,141
BLU 930711A	9/32"	7/16"	9/16"	6-3/8"	2-11/16"	2-3/4"	10,141
BLU 936312A	1/4"	1/2"	1/2"	6 3/8"	3 5/32"	2-17/32"	11,464
BLU 930712A	9/32"	1/2"	9/16"	6-11/16"	3-5/32"	2-3/4"	13,448
BLU 930812A	5/16"	1/2"	5/8"	7-9/32"	3-5/32"	3-9/32"	13,448
BLU 930816A	5/16"	5/8"	5/8"	8"	3-15/16"	3-9/32"	19,180
BLU 939516A	3/8"	5/8"	11/16"	8-9/32"	3-15/16"	3-1/2"	19,180
BLU 939520A	3/8"	3/4"	11/16"	9-1/16"	4-23/32"	3-1/2"	22,487

* Special Order - may have stock

Blue Wave Left Threaded Swage Studs





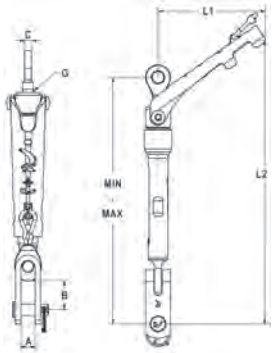
- Highly polished AISI 316 stainless steel construction
- Drilled for split pin

Part # Left	G UNF	Wire	D1	L1	L2	L3	BL/lbs
BLU 945510A	7/32"	3/8"	27/64"	5-7/16"	2-15/32"	2-5/16"	7,495

Blue Wave Quick Rig Tune Double Thread

- The QRT rigging screw was developed specifically for inner forestay & backstays
- Laser engraved calibration scale for precise adjustment
- Handle for quick adjustment and easy locking
- AISI 316 stainless steel body and terminal with chromed bronze nut

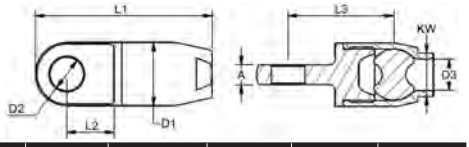




Part #	Wire	Thread G	Pin	A	B	L1	L2	Min - Max	Break Load
BLU QRT07716VV *	9/32"	7/16"	7/16"	19/32"	1-3/16"	3-5/32"	10-1/8"	10-11/16" - 13-7/16"	10,141
BLU QRT0812VV *	5/16"	1/2"	1/2"	23/32"	1-11/32"	4-11/32"	11-1/4"	13-1/16" - 16-3/16"	13,448

* Special Order

Blue Wave Dyneema Rope Eye

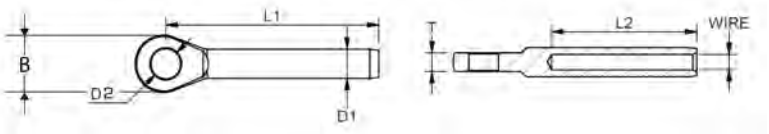




- New innovative product
- Open new opportunities for use with Dyneema rope
- Highly polished AISI 316 stainless steel construction

Part #	Rope	A	D1	D2	D3	KW	L1	L2	L3	BL/lbs
BLU RP820804	5/32"	3/16"	5/8"	5/16"	5/16"	7/16"	1-3/4"	1/2"	1-1/16"	4,189

Blue Wave Swage Eyes

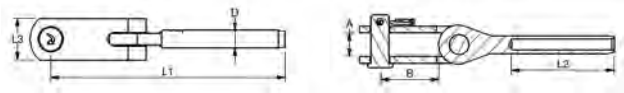




Highly polished AISI 316 stainless steel construction.

Part #	Wire	T	Pin	B	D1	L1	L2	BL/lbs
BLU 190332	1/8"	5/32"	1/4"	9/16"	1/4"	2-3/8"	1-1/2"	2,866
BLU 190004X	5/32"	3/16"	5/16"	21/32"	19/64"	2 5/8"	1-25/32"	3,748
BLU 190005X	3/16"	5/16"	3/8"	53/64"	23/64"	3-15/64"	2"	5,280
BLU 190055	7/32"	15/64"	3/8"	13/16"	7/16"	3-11/32"	2-5/16"	7,937
BLU 190063X	1/4"	13/32"	1/2"	1-1/8"	1/2"	4-1/8"	2-17/32"	11,464
BLU 190007X	9/32"	13/32"	1/2"	1-1/8"	9/16"	4-11/32"	2-3/4"	14,991
BLU 190008X	5/16"	15/32"	5/8"	1-3/8"	5/8"	5-9/16"	3-9/32"	19,180
BLU 190095X	3/8"	5/8"	3/4"	1-9/16"	11/16"	6-1/2"	3-15/16"	22,487

Blue Wave Swage Toggles





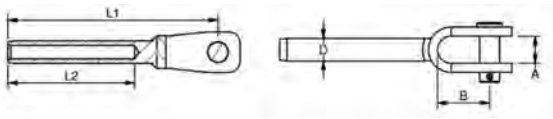
Highly polished AISI 316 stainless steel construction.

Part #	Wire	D Pin	A	B	D	L1	L2	L3	BL/lbs
BLU 500603 *	M3	1/4"	5/16"	21/32"	1/4"	3-3/16"	1-1/2"	9/16"	2,866
BLU 500632	1/8"	1/4"	5/16"	21/32"	1/4"	3-3/16"	1-1/2"	9/16"	2,866
BLU 500804	5/32"	5/16"	25/64"	63/64"	19/64"	3-11/16"	1-25/32"	11/16"	3,748
BLU 509505	3/16"	3/8"	15/32"	1-1/16"	11/32"	4-9/16"	2"	29/32"	5,291
BLU 509555	7/32"	3/8"	15/32"	1-1/16"	7/16"	4-7/8"	2-5/16"	29/32"	8,598
BLU 501163X	1/4"	7/16"	19/32"	1-5/32"	1/2"	5-5/16"	2-17/32"	1-3/16"	10,362
BLU 501263X	1/4"	1/2"	11/16"	1-5/16"	1/2"	5-15/16"	2-17/32"	1-3/16"	11,464
BLU 501207X	9/32"	1/2"	11/16"	1-5/16"	9/16"	6-3/16"	2-3/4"	1-3/16"	14,330
BLU 501308	5/16"	1/2"	11/16"	1-5/16"	5/8"	6-11/16"	3-9/32"	1-3/16"	14,330
BLU 501608X	5/16"	5/8"	25/32"	1-5/8"	5/8"	7-13/16"	3-9/32"	1-3/8"	19,180
BLU 501695	3/8"	5/8"	11/16"	1-5/8"	11/16"	6-31/32"	3-1/2"	1-3/8"	22,487

* Special Order - may have stock

Blue Wave Fixed Fork Terminals - Welded





Highly polished AISI 316 stainless steel construction.

Part #	Wire	Pin	A	B	D	L1	L2	BL
BLU 106303 *	M3	1/4"	3/8"	1/2"	1/4"	2-43/64"	1-1/2"	2,866 lbs
BLU 100804	5/32"	5/16"	7/16"	19/32"	19/64"	3-1/32"	1-25/32"	3,748 lbs
BLU 109505	3/16"	3/8"	15/32"	3/4"	11/32"	3-19/32"	2"	5,291 lbs
BLU 101163	1/4"	7/16"	33/64"	29/32"	1/2"	4-1/4"	2-17/32"	10,582 lbs
BLU 101208	5/16"	15/32"	9/16"	63/64"	5/8"	5-11/32"	3-9/32"	14,330 lbs
BLU 101308	5/16"	1/2"	9/16"	63/64"	5/8"	5-11/32"	3-9/32"	14,330 lbs
BLU 101495	3/8"	9/16"	23/32"	1-3/16"	11/16"	5-15/16"	3-1/2"	22,487 lbs

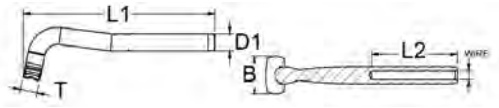
* Special Order - may have stock

► Also See Split Rings & Clevis Pins pg 18-014

Blue Wave product is ISO 9001 Certified

Blue Wave "T" Terminals





- Highly polished AISI 316 stainless steel construction with swage depth marking

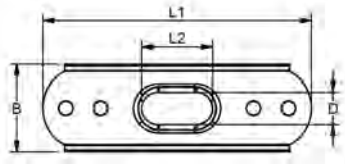
							Fits back plates:		
Part #	Wire	D1	B	T	L1	L2	Blue Wave	Navtec	Swedish BP
BLU 610025	3/32"	7/32"	17/32"	1/4"	3-1/32"	1-1/16"	616103	740-3	507-553
BLU 610032	1/8"	1/4"	17/32"	1/4"	3-25/64"	1-1/2"	616103	740-3	507-553
BLU 610004	5/32"	19/64"	21/32"	19/64"	3-31/32"	1-25/32"	616105	740-4	507-501
BLU 610005	3/16"	11/32"	23/32"	11/32"	4-13/32"	2"	616105	740-4	507-501
BLU 610055	7/32"	7/16"	1-3/32"	1/2"	5-1/8"	2-5/16"	616105	740-5	507-552
BLU 610063	1/4"	1/2"	1-3/32"	1/2"	5-11/32"	2-17/32"	616107	740-7	-
BLU 610007	9/32"	9/16"	1-3/16"	9/16"	5-13/16"	2-3/4"	616107	740-7	-
BLU 610008	5/16"	5/8"	1-5/16"	5/8"	7-1/4"	3-9/32"	616110	740-10	-
BLU 610095	3/8"	11/16"	1-13/32"	11/16"	8-7/16"	3-1/2"	616110	740-10	507-583

Blue Wave "T" Terminal Back Plates

- Highly polished AISI 316 stainless steel construction

Part #	Wire	B	D	L1	L2
BLU 616103	1/8"	19/32"	9/32"	1-31/32"	9/16"
BLU 616105	5/32" - 3/16"	1-1/32"	3/8"	3-15/32"	1-1/32"
BLU 616105US	3/16"	1-1/32"	33/64"	2-19/32"	29/32"
BLU 616107	1/4" - 9/32"	1-9/16"	19/32"	4-27/32"	1-1/4"
BLU 616110	5/16" - 3/8"	1-1/2"	3/4"	5-15/16"	1-5/8"

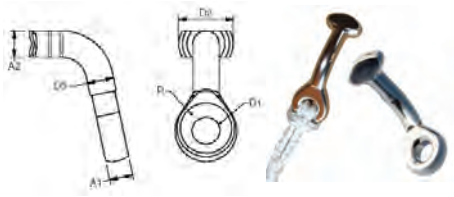




Blue Wave T-Rope Eyes - Forged

Highly polished AISI 316 stainless steel construction.

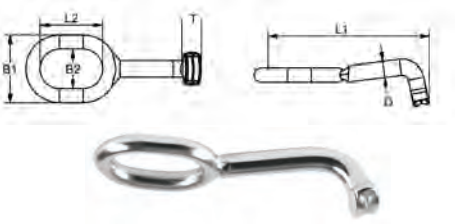
Part #	Rope	A1	A2	D1	D2	D3	R	Fits
BLU 616506F	1/8"	3/16"	1/4"	1/4"	17/32"	1/4"	3/32"	616103
BLU 616508F	3/16"	9/32"	11/32"	5/16"	49/64"	11/32"	5/32"	616105
BLU 616512F	3/16" - 1/4"	11/32"	9/16"	1/2"	1-5/32"	9/16"	3/16"	616107



Blue Wave T-Rope Eyes

Highly polished AISI 316 stainless steel construction.

Part #	Rope	B1	B2	D	L1	L2	T	BL/lbs
BLU 616507 *	3/16"	1-1/16"	9/16"	5/16"	3-11/32"	1"	5/16"	3,968
BLU 616509 *	3/16"	1-1/2"	7/8"	3/8"	3-29/32"	1-5/16"	3/8"	6,173
BLU 616512	1/4"	1-1/2"	7/8"	1/2"	4-9/32"	1-5/16"	1/2"	9,039



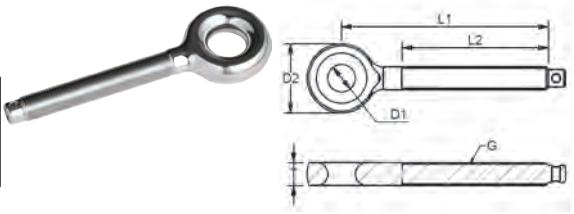
* Special Order

Blue Wave product is ISO 9001 Certified

Blue Wave Rope Thread Eyes

Polished AISI 316L stainless steel construction.

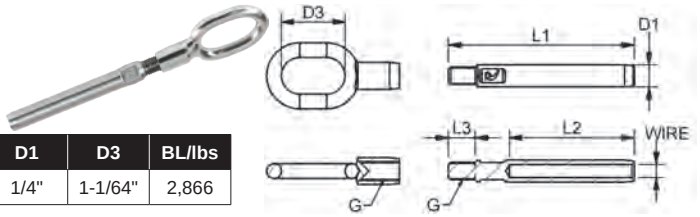
Part #	G	D1	D2	L1	L2	T	BL/lbs
BLU 021906AF	1/4"	17/64"	21/32"	2-23/64"	1-27/32"	3/16"	2,866
BLU 021908AF	5/16"	11/32"	29/32"	2-57/64"	2-15/64"	17/64"	4,850



Blue Wave Rope Terminal

Polished AISI 316L stainless steel construction.

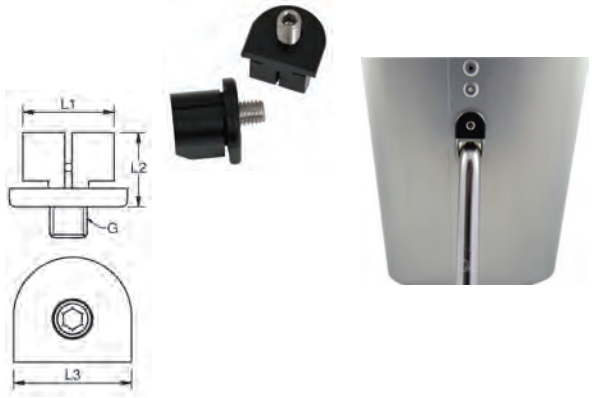
Part #	Wire	G	L1	L2	L3	D1	D3	BL/lbs
BLU 650003	1/8"	5/16"	2-23/64"	1-1/2"	25/64"	1/4"	1-1/64"	2,866



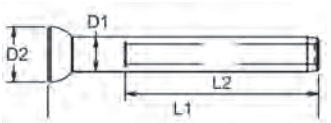
Blue Wave Plugs for Back Plates

- Polyacetal construction
- 2/pkg

Part #	Back Plate	G	L1	L2	L3
BLU PLUG0203P2	616103	M5	9/32"	11/32"	13/32"
BLU PLUG0405P2	616105	M6	3/8"	15/32"	33/64"
BLU PLUG0607P2	616107	M6	9/16"	15/32"	3/4"
BLU PLUG0810P2	616110	M8	3/4"	13/16"	31/32"
BLU SD-PLUG03P2	507-553	M5	9/32"	11/32"	13/32"
BLU SD-PLUG04P2	507-551	M5	3/8"	11/32"	33/64"
BLU SD-PLUG05P2	507-552	M6	15/32"	15/32"	19/32"
BLU SD-PLUG06P2	507-554	M6	17/32"	15/32"	3/4"
BLU SD-PLUG07P2	507-601	M6	39/64"	15/32"	25/32"
BLU SD-PLUG08P2	507-582	M6	11/16"	13/16"	29/32"



Blue Wave Stemball Terminals



- Highly polished AISI 316 stainless steel construction

Part #	Wire	D1	D2	L1	L2
BLU 620003 *	M3	1/4"	1/2"	2-9/32"	1-1/2"
BLU 620032	1/8"	1/4"	1/2"	2-9/32"	1-1/2"
BLU 620004	5/32"	19/64"	5/8"	2-23/32"	1-25/32"
BLU 620005	3/16"	11/32"	3/4"	3-1/8"	2"
BLU 620055	7/32"	7/16"	25/32"	3-11/32"	2-9/32"
BLU 620063	1/4"	1/2"	25/32"	3-17/32"	2-17/32"
BLU 620007	9/32"	9/16"	27/32"	3-11/16"	2-3/4"
BLU 620008	5/16"	5/8"	1-1/32"	4-9/16"	3-9/32"
BLU 620095	3/8"	11/16"	1-3/32"	4-31/32"	3-1/2"



* Special Order - may have stock

Blue Wave Terminal Cups



- Highly polished AISI 316 stainless steel construction

Part #	Wire	D1	D2	L3
BLU 626204	1/8"-5/32"	1-1/32"	11/32"	7/16"
BLU 626205	3/16"	1-1/32"	7/16"	7/16"
BLU 626207	1/4" - 9/32"	1-1/32"	5/8"	3/8"
BLU 626212	5/16" - 3/8"	1-11/32"	25/32"	15/32"

Blue Wave Chromed Bronze Turnbuckle Bodies



- Chromed bronze open body prevents the threads from seizing

Part #	Thread G	L1	D	BL/lbs
BLU 011306A	1/4"	3-15/16"	9/16"	2,866
BLU 011308A	5/16"	4-23/32"	21/32"	4,850
BLU 011310A	3/8"	5-5/16"	13/16"	7,496
BLU 011311A	7/16"	5-29/32"	15/16"	9,700
BLU 011312A	1/2"	6-11/16"	1-1/16"	13,448
BLU 011316A	5/8"	8-1/4"	1-1/4"	21,826
BLU 011320A	3/4"	9-27/32"	1-1/2"	31,747

Blue Wave Turnbuckle Bodies

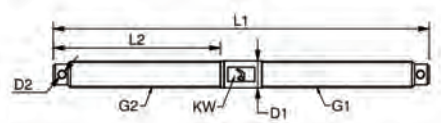


- Highly polished AISI 316 stainless steel construction

Part #	UNF (G)	L1	D1	BL/lbs
BLU 011206A	1/4"	3-5/8"	13/32"	2,866
BLU 011208A	5/16"	4-13/32"	17/32"	4,850
BLU 011210A	3/8"	4-29/32"	11/16"	7,496
BLU 011211A	7/16"	5-29/32"	27/32"	10,141

Blue Wave product is ISO 9001 Certified

Blue Wave Double Threaded Pins



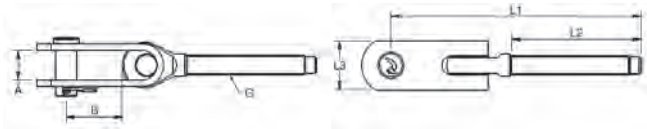


- Highly polished AISI 316 stainless steel construction

Part #	G1	G2	D1	D2	KW	L1	L2	BL/Lbs
BLU 930408AHV	5/16"	5/16" LH	5/16"	1/8"	15/64"	5-1/8"	2-1/4"	4,850
BLU 930610AHV *	3/8"	3/8" LH	25/64"	1/8"	5/16"	5-21/32"	2-15/32"	7,496
BLU 930812AHV	1/2"	1/2" LH	33/64"	1/8"	7/16"	7-1/8"	3-5/32"	13,448

* Special Order

Blue Wave Threaded Fork Toggle Ends





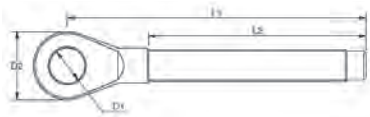
Highly polished AISI 316 stainless steel construction.

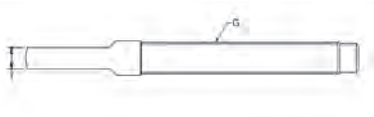
- Drilled for split pin

Part # Right	Part# Left	G UNF	Pin	A	B	L1	L2	L3	BL/lbs
BLU 023306AB	BLU 033306AB	1/4"	1/4"	5/16"	21/32"	3-15/32"	1-27/32"	9/16"	2,866
BLU 023308AB	BLU 033308AB	5/16"	5/16"	13/32"	25/32"	4-1/8"	2-1/4"	23/32"	4,850
BLU 023310AB	BLU 033310AB	3/8"	3/8"	15/32"	1-1/32"	4-31/32"	2-15/32"	7/8"	7,496
BLU 023312AXB *	BLU 033312AXB	1/2"	1/2"	11/16"	1-3/8"	5-25/32"	3-5/32"	1-3/16"	13,448

* Special Order

Blue Wave Threaded Left Hand Eyes





- Highly polished AISI 316 stainless steel construction

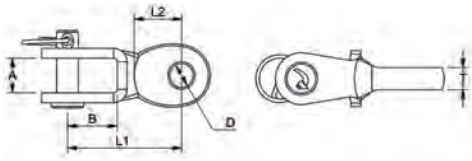
Part #	G	D1	D2	L1	L2	T	BL/lbs
BLU 033906A	1/4"	1/4"	9/16"	2-9/16"	1-7/8"	3/16"	2,866
BLU 033908A	5/16"	5/16"	11/16"	3-1/16"	2-1/4"	3/16"	4,850
BLU 033910A	3/8"	3/8"	7/8"	3-1/2"	2-1/2"	1/4"	7,496
BLU 033911AX	7/16"	7/16"	15/16"	3-7/8"	2-3/4"	5/16"	10,141
BLU 033912AX	1/2"	1/2"	1-1/8"	4-1/8"	3-1/8"	3/8"	13,448
BLU 033916AX	5/8"	5/8"	1-7/16"	5-9/16"	3-15/16"	1/2"	21,826
BLU 033920AX	3/4"	3/4"	1-9/16"	6-9/16"	4-3/4"	5/8"	43,211



► *Also See* Split Rings & Clevis Pins pg 18-014

Blue Wave Toggles





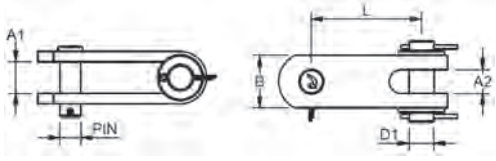
Highly polished AISI 316 stainless steel construction.

Part #	Pin	A	T	B	D	L1	L2	BL/lbs
BLU 140506	3/16"	19/64"	3/16"	15/32"	7/32"	1-1/32"	23/64"	2,866
BLU 140608	1/4"	3/8"	1/4"	33/64"	1/4"	1-1/4"	25/64"	3,968
BLU 140810	5/16"	7/16"	5/16"	19/32"	11/32"	1-3/8"	15/32"	7,055
BLU 141011	3/8"	1/2"	3/8"	3/4"	3/8"	1-25/32"	5/8"	7,716
BLU 141111	7/16"	15/32"	3/8"	29/32"	7/16"	2"	21/32"	11,464
BLU 141214	7/16"	9/16"	3/8"	31/32"	1/2"	2-5/16"	29/32"	13,007

Blue Wave Step Down Double Jaw Toggle

NEW





Highly polished AISI 316 stainless steel construction.

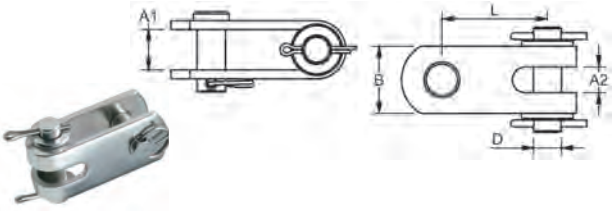
Part #	Pin	A1	A2	B	D (Pin)	L	BL/lbs
BLU 25001210	3/8"	45/64"	7/16"	1-3/16"	1/2"	1-55/64"	7,716

Blue Wave product is ISO 9001 Certified

Blue Wave Double Jaw Toggles

- Highly polished AISI 316 stainless steel construction

Part #	Pin	A1	A2	B	D	L	BL/lbs
BLU 250008	5/16"	13/32"	7/32"	23/32"	5/16"	1-3/16"	5,180
BLU 250010	3/8"	15/32"	1/4"	7/8"	3/8"	1-1/2"	7,716
BLU 250011	7/16"	19/32"	3/8"	1-3/16"	7/16"	1-5/8"	9,038
BLU 250012	1/2"	23/32"	7/16"	1-3/16"	1/2"	1-7/8"	13,699
BLU 250016	5/8"	25/32"	17/32"	1-3/8"	5/8"	2-1/4"	21,605



Blue Wave Turnbuckle UNF Lock Nuts

- Highly polished AISI 316 stainless steel construction.

Part # Right	Part # Left	UNF
BLU 041206A	BLU 051206A	1/4"
BLU 041208A	BLU 051208A	5/16"
BLU 041210A	BLU 051210A	3/8"
BLU 041211A	BLU 051211A	7/16"
-	BLU 051212A	1/2"
-	BLU 051216A	5/8"
BLU 041220A	-	3/4"



Blue Wave Turnbuckle Metric Lock Nuts

- Highly polished AISI 316 stainless steel construction.

Part # Right	Part # Left	Metric
BLU 041205	BLU 051205	5 mm
BLU 041206	-	6 mm
BLU 041208	BLU 051208	8 mm
BLU 041210	-	10 mm



Johnson Marine Tubular Pelican Hooks

Slender tubular design with a stamped hook. 4-3/4" long from end of body to inside bearing point of hook.

- 1-1/2" adjustment
- T-316 stainless steel



Machine Swage

JHD 21-304 1/8" wire
JHD 21-306 3/16" wire

Hand Crimp

JHD 26-403 1/8" wire
JHD 27-403 3/16" wire

Johnson Marine Safe Lock Pelican Hooks

Adjusts in place with knurled nut, stamped metal construction 3-3/4" long from end of body to inside bearing point of hook.

- 1-1/4" adjustment
- T-316 stainless steel



Machine Swage

JHD 24-301 3/16" wire

Johnson Marine Snap Gate Hook - "Over Centre"



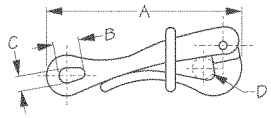
Features the "Over Centre" design with no load on the swinging hook when closed. This feature allows easy opening yet stays secure with heavy welded split ring on the plunger latching device.

- Investment cast T-316 Stainless
- Adjustment: 1-1/4"

Part #	Wire	Thread	Adjustment
Machine Swage			
JHD 21-884	1/8"	1/4-28 LH	1-1/4"
JHD 21-886	3/16"	5/16-24 LH	1-1/4"
Body Only			
JHD 21-80	-	5/16-24 LH	-
JHD 21-80-1	-	5/16-24 RH	-
JHD 21-81	-	1/4-28 LH	-

Parts:
JHD 21-850 Repair kit for latch

Sea-Dog Pelican Hooks





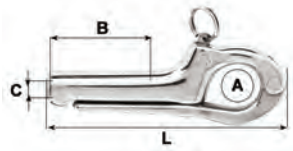
Sand cast bronze or investment cast 316 stainless steel.

- Suffix (-1) display packaged

Part #	A	B	C	D	Finish
SED 189780	4"	1/2"	3/8"	9/16"	Bronze
SED 189785	4"	1/2"	3/8"	3/4"	S/S
SED 189785-1	4"	1/2"	3/8"	3/4"	S/S

Wichard Pelican Hook

- Easy and effective way to close the lifelines gates
- HR 17.4 PH stainless steel grade
- Working load: 1,410 lbs (640 kg)



Part #	Length	A	B	C
WIC 2831	100mm	16mm	48mm	M8*125

Johnson Marine Toggle Jaw/Splice Eye



NEW

- Easily splice line to standard life line fittings
- Designed to be lightweight and easy on the line
- Hard-anodized 6061-T6 aluminum

Johnson recommends using 1/4" (6mm) Dyneema line, and changing out the line at 4 year intervals.

JHD LS-3600

Johnson Marine Toggle Jaws

Same as the 25-316 only uses nut style instead of "T" bolt.
- 1/4" pin



Machine Swage

JHD 25-304	1/8" wire
JHD 25-305	5/32" wire
JHD 25-306	3/16" wire

Hand Crimp

JHD 27-405	3/16" wire
JHD 26-405	1/8" wire

Johnson Marine "T" Toggle Jaws

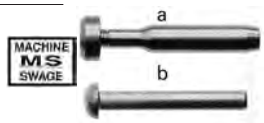
Generally used at the stern rail when no gate is required with a turnbuckle forward.
- 1/4" pin
- Machine swage



JHD 25-314	1/8" wire
JHD 25-316	3/16" wire

Johnson Marine Stanchion Terminals

Used to terminate cable at stanchion.
- Machine swage



JHD 25-306-5F	For 3/16" wire (a)
JHD 100-110-1	For 1/8" wire (b)

Johnson Marine Single Gate Eyes, Threaded

A single eye is used on one end of the gate area to attach the gate hook.
- T-316 stainless steel



Machine Swage Threaded Eye

JHD 22-301	1/8" wire
JHD 22-303	3/16" wire

Hand Swage Threaded Eye

JHD 26-407	1/8" wire
JHD 27-407	3/16" wire

Johnson Marine Gate Eyes, Interlocking Threaded

An interlocking gate eye is used at the opposite end of the gate hook as a "hinge" for the gate.
- T-316 stainless steel



Machine Swage Threaded Eye

JHD 22-302	1/8" wire
JHD 22-304	3/16" wire

Hand Swage Threaded Eye

JHD 26-408	1/8" wire
JHD 27-408	3/16" wire

Johnson Marine Interlocking Gate Eyes, Swivel

An interlocking gate eye is used at the opposite end of the gate hook as a "hinge" for the gate.
- T-316 stainless steel



Machine Swage Swivel Eye

JHD 22-312	1/8" wire
JHD 22-314	3/16" wire

Johnson Marine Single Gate Eyes, Swivel

A single eye is used on one end of the gate area to attach the gate hook.
- T-316 stainless steel
- Machine swage



JHD 22-311	1/8" wire
JHD 22-313	3/16" wire

Johnson Marine Quick Release Lever

The fitting is rugged, having an ultimate strength of 4,000 lbs. A positive stop is provided to prevent jamming fingers. The large surface area of the push pad makes it easier to close lever under load.
- Wire size: 5/32, 3/16
- Pin dia: 5/16"
- Max. adjustment: 1-1/2"
- QR throw: 2-5/8"
- Pin to pin: 10-7/8" - 9-3/8"



JHD 14-210

Johnson Marine Turnbuckles

Open body turnbuckle - Jaw to swage, forged silicon bronze body with stainless steel ends.
- 3" adjustment
- T-316 stainless steel
- Machine swage



JHD 42-314	1/8" wire, 1/4" pin
JHD 42-315	5/32" wire, 1/4" pin
JHD 42-316	3/16" wire, 1/4" pin

Johnson Marine Turnbuckles

Tubular turnbuckle - Jaw to swage, hand crimp, check nut locking.
- 1/4" pin
- 3" adjustment
- T-316 stainless steel

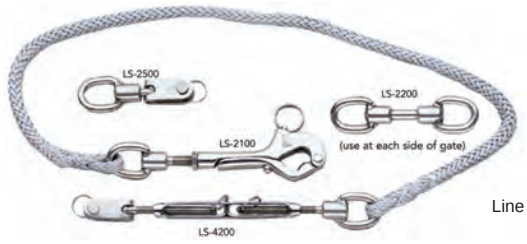


Machine Swage

JHD 19-314	1/8" wire
JHD 19-316	3/16" wire

Hand Swage

JHD 26-412	1/8" wire
JHD 27-412	3/16" wire



Line sold seperately

Johnson Spliced Line Fittings

Johnson now offers its popular life line fittings with eye ends for today's high-tech, low stretch line. Johnson recommends 8mm Dyneema line in grey and blue. This line is a 12 strand single braid, 1/7th the weight of 1/4" 1x19 cable, offering the same strength at about the same cost. Johnson recommends changing out the line at 3 year intervals. Professional splicing recommended.

JHD LS-2100	Over centre gate hook with eye*
JHD LS-2200	Eye to eye fitting
JHD LS-2500	Toggle Jaw with eye
JHD LS-4200	Open body turnbuckle with eye

* Body Investment Cast in China

► Not for lifting, hanging or other high load applications.

Johnson Marine Life Line Studs



▪ T-316 stainless steel

Part #	Thread Size	Wire Size	Thread
Machine Swaging			
JHD 30-603	1/4-28 x 2-1/2"	1/8"	Left
JHD 30-603-1	1/4-28 x 2-1/2"	1/8"	Right
JHD 30-604	10-32 x 3"	1/8"	Right
JHD 30-604-1	10-32 x 3"	1/8"	Left
JHD 30-605	1/4-28 x 2-1/2"	1/8"	Left
JHD 30-606	5/16-24 x 3/8"	3/16"	Left
JHD 30-607	5/16-24 x 2"	3/16"	Left
JHD 30-607-1	5/16-24 x 2"	3/16"	Right
JHD 30-608	1/4-28 x 2-1/2"	3/16"	Left
JHD 30-608-1	1/4-28 x 2-1/2"	3/16"	Right
JHD 30-610	1/4-28 x 2-1/2"	3/16"	Left
JHD 25-306-5	1/4-28 x 3/8"	3/16"	Right
Hand Crimp			
JHD 31-603	1/4-28 x 2-1/2"	1/8"	Left
JHD 31-603-1	1/4-28 x 2-1/2"	1/8"	Right
JHD 31-605	5/16-24 x 3/8"	3/16"	Left
JHD 31-606	5/16-24 x 1-1/2"	3/16"	Left
JHD 31-607	1/4-28 x 2-1/2"	3/16"	Left
JHD 31-608	1/4-28 x 2-1/2"	3/16"	Left

Johnson Marine Conversion Sleeves

Conversion sleeve used with 1/8" cable allows 3/16" lifeline fittings to be used.



JHD 36-610 Machine crimp
JHD 36-611 Hand crimp

Johnson Marine Adjusters

Generally used at the stern rail in conjunction with the single eye to tension that section of the gate. 1/4" pin, 1" adjustment.

▪ T-316 stainless steel



Machine Swage

JHD 23-303 1/8" wire
JHD 24-303 3/16" wire

Hand Crimp

JHD 26-406 1/8" wire
JHD 27-406 3/16" wire

Johnson Marine Pulpit Anchor



Can be used on the stern rail and bow pulpit to terminate jaw fittings for life lines.

▪ 1/2" hole

JHD 29-501

Johnson Marine Stanchion Eye



Used on a stanchion for adding lower lifelines without the need to drill holes.

▪ 5/16" hole

JHD 29-502

Johnson Marine Locking Nuts



▪ T-316 stainless steel

Part #	Thread Size	Series Used On
JHD 35-606	5/16"-24 L.H.	5 & 7
JHD 35-607	3/8"-24 R.H.	6 & 8

Johnson Marine Gate Stops



▪ Stainless steel gate stops with set-screws

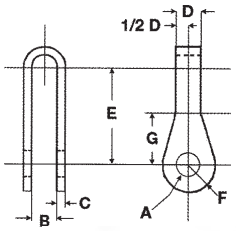
Part #	Wire Size	Coated
JHD 29-505	1/8"	5/16"
JHD 29-506	3/16"	3/8"

Johnson Marine Rigging Toggles

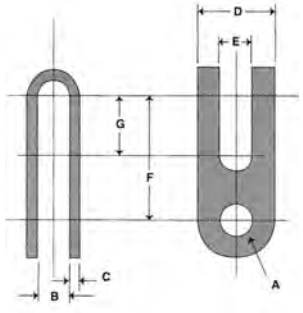
These stainless steel rigging toggles are essential to prevent misalignment of rigid jaw turnbuckles. They are also used as a simple way to save rigging that was made too short.

▪ T-316 stainless steel

Part #	A	B	C	D	E	F	G
Rigging Toggles							
JHD 12-120	1/4"	1/4"	.094	5/16"	1"	5/16"	5/8"
JHD 12-121	5/16"	5/16"	.094	19/64"	1-1/4"	11/32"	5/8"
JHD 12-122	3/8"	3/8"	.141	23/64"	1-5/8"	13/32"	3/4"
JHD 12-123	1/2"	1/2"	.187	31/64"	1-7/8"	17/32"	1"
JHD 12-124	5/8"	5/8"	1/4"	39/64"	2-1/4"	11/16"	1-1/4"
Double Jaw Toggles							
JHD 12-320	1/4"	1/4"	13GA	5/8"	1/4"	1-1/16"	1/2"

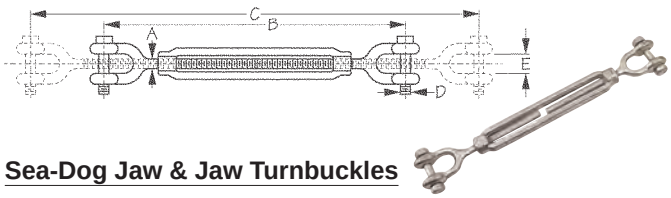








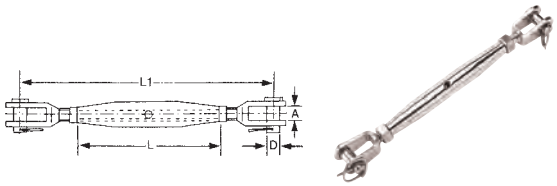
12-320



Sea-Dog Jaw & Jaw Turnbuckles

- Heavy galvanized open body turnbuckles

Part #	A	B	C	D	E
SED 186100	1/4"	7-1/2"	11-1/2"	1/4"	3/8"
SED 186110	5/16"	8-7/8"	13-1/4"	1/4"	1/2"
SED 186121	3/8"	10-1/2"	16-1/2"	5/16"	1/2"
SED 186131	1/2"	12-1/2"	18-1/2"	3/8"	5/8"
SED 186143	5/8"	19-1/2"	30-1/2"	1/2"	3/4"
SED 186153	3/4"	20-3/4"	32-3/4"	5/8"	15/16"



Cruiser 316 Stainless Steel Pipe Turnbuckles

- Beautifully finished, polished stainless steel pipe turnbuckles

Part #	Size	L mm	L1 mm	A mm	D mm	Break Load
CRU 330119	5 mm	80	130	6.5	5	750 kgs
CRU 330120	6 mm	95	150	7.5	6	1,100 kgs
CRU 330121	8 mm	105	180	11.0	8.57	2,000 kgs
CRU 330122	10 mm	125	220	12.0	9	3,100 kgs
CRU 330123	12 mm	150	270	14.0	12	4,500 kgs

Import Wire Rope Clips



- Galvanized malleable iron wire rope clips
- Available for rope sizes from 3/16" to 1"

LOG 1/8"
LOG 3/16"
LOG 1/4"
LOG 5/16"
LOG 3/8"
LOG 7/16"
LOG 1/2"
LOG 5/8"
LOG 3/4"
LOG 7/8"
LOG 1"

Transat Stainless Steel Wire Rope Clips

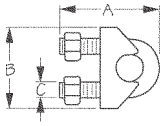


- 316 stainless steel

TMS S-8800-03 1/8"
TMS S-8800-04 5/32"
TMS S-8800-05 3/16"
TMS S-8800-06 1/4"
TMS S-8800-08 5/16"
TMS S-8800-10 3/8"



Sea-Dog Stainless Steel Wire Rope Clips



- Investment cast 316 stainless steel body
- AISI 304 stainless U-Bolt
- Metric threads
- Suffix (-1) display packaged

Part #	A	B	C	Wire Size
SED 159502-1	11/16"	9/16"	3 mm	3/32", 2 mm
SED 159503	15/16"	5/8"	3 mm	1/8", 3 mm
SED 159503-1				
SED 159504	15/16"	3/4"	4 mm	5/32", 4 mm
SED 159504-1				
SED 159506-1	1-1/4"	1-1/16"	6 mm	1/4", 6 mm
SED 159508-1	1-5/8"	1-3/8"	8 mm	5/16", 8 mm
SED 159510-1	2"	1-3/4"	10 mm	3/8", 10 mm
SED 159512	2-1/2"	1-15/16"	12 mm	7/16", 12 mm

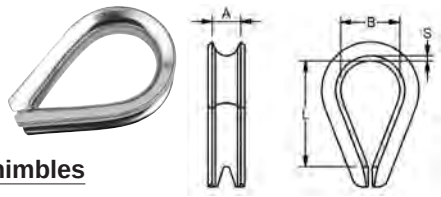
Blue Wave Stainless Steel Thimbles



- High polished AISI 316 stainless steel
- Reinforced thimble with a welded bar and welded ends
- Designed for use with Dyneema line

Part #	Wire Size	Inside Width
BLU 119912	1/2"	9/16"
BLU 119914	9/16"	5/8"
BLU 119916 *	5/8"	23/32"

* Special Order



Blue Wave Stainless Steel Thimbles

- High polished AISI 316 stainless steel

Part #	A	B	L	S
BLU 110002	1/8"	11/32"	5/8"	1/32"
BLU 110003	5/32"	13/32"	21/32"	1/32"
BLU 110004	3/16"	7/16"	3/4"	1/16"
BLU 110005	15/64"	33/64"	13/16"	1/16"
BLU 110006	9/32"	19/32"	1-1/16"	1/16"
BLU 110007	5/16"	3/4"	1-5/16"	1/16"
BLU 110008	11/32"	7/8"	1-1/2"	3/32"
BLU 110009	13/32"	15/16"	1-11/16"	3/32"
BLU 110010	7/16"	1-1/16"	1-13/16"	3/32"
BLU 110012	9/16"	1-5/32"	2-1/16"	3/32"
BLU 110014	5/8"	1-5/16"	2-1/4"	1/8"
BLU 110016	23/32"	1-9/16"	2-5/8"	1/8"
BLU 110018	25/32"	1-25/32"	2-15/16"	5/32"
BLU 110020	7/8"	2-1/16"	3-5/16"	5/32"
BLU 110026	1-1/8"	2-9/16"	4-13/32"	15/64"

Sea-Dog Stainless Steel Thimbles



- Stamped 304 stainless steel
- Suffix (-1) display packaged

Part #	Wire Size	Inside Length	Inside Width
Heavy Duty			
SED 170002-1	3/32", 1/16"	21/32"	3/8"
SED 170003-1	1/8"	11/16"	3/8"
SED 170005-1	3/16", 7/32"	13/16"	1/2"
SED 170006-1	1/4"	1-1/16"	19/32"
SED 170008-1	5/16"	1-1/2"	7/8"
SED 170009-1	3/8"	1-19/32"	15/16"
SED 170010-1	7/16"	1-7/8"	15/16"
SED 170012-1	1/2"	2-1/8"	1-1/8"
SED 170016-1	5/8"	2-5/8"	1-9/16"
SED 170026	1"	4-1/2"	2-1/2"
Light Duty			
SED 171206	1/4"	15/16"	1/2"
SED 171208	5/16"	1-5/16"	13/16"
SED 171210	3/8"	1-5/8"	1"
SED 171212	1/2"	1-15/16"	1-1/8"
SED 171216	5/8"	2-5/16"	1-1/2

Cruiser Stainless Steel Light Duty Thimbles



- 316 stainless steel

CRU 330116 1/8"
CRU 331040 5/32"
CRU 330096 3/16"

Cruiser Stainless Steel Heavy Duty Thimbles



- 316 stainless steel

CRU 330114 1/4"
CRU 330115 5/16"
CRU 330145 3/8"
CRU 330137 1/2"
CRU 330132 5/8"

Sea-Dog Light Duty Galvanized Thimbles



- Stamped hot dipped galvanized
- Display packaged 2/pkg

SED 172003-1 ** 1/8"
SED 172006-1 ** 1/4"

** While Stock Lasts

Light Duty Wire Rope Galvanized Thimbles



- Electro galvanized

LOG 3/16"STD
LOG 1/4"STD
LOG 5/16"STD
LOG 3/8"STD
LOG 1/2"STD
LOG 5/8"STD
LOG 3/4"STD
LOG 7/8"STD
LOG 1"-STD

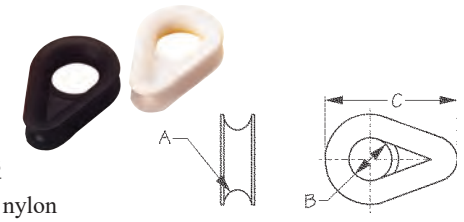
Heavy Duty Wire Rope Galvanized Thimbles



- Hot dip galvanized

LOG 1/4"HD
LOG 5/16"HD
LOG 3/8"HD
LOG 1/2"HD
LOG 5/8"HD
LOG 3/4"HD
LOG 7/8"HD
LOG 1"-HD
LOG 1-1/8-1-1/4HD
LOG 1-1/2HD

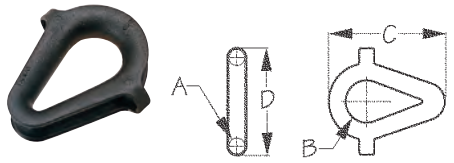
Sea-Dog Nylon Thimbles



- Injection molded nylon

Part #	A	B	C	Colour	
SED 173551	1/4"	9/16"	1-9/16"	White	Each
SED 173552	5/16"	1"	2-11/16"	White	Each
SED 173553	3/8"	1"	2-11/16"	White	Each
SED 173554	1/2"	1"	2-7/8"	White	Each
SED 173556	5/8"	1-1/16"	3-1/8"	White	Each
SED 173557	3/4"	1-5/32"	3-9/16"	White	Each

Sea-Dog Nylon Thimbles



Integral keepers to reduce the possibility of rope becoming separated from the thimble. Sold in bulk.

Part #	A	B	C	D
SED 174571 **	1/4"	1-1/16"	1-7/8"	1-5/8"
SED 174574 **	1/2"	1-1/8"	2-15/16"	2-11/16"
SED 174576	5/8"	1-3/16"	3-3/8"	3"

** While Stock Lasts

Transat 1 x 19 Wire Rope AISI 316 Stainless Steel

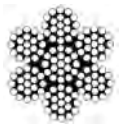


Applications: Suspension & control cables, standing rigging. Characteristics: Very stiff

1 x 19

Part #	Diameter	Break Load	Sold by the
TMW U119332	3/32"	1,102 lbs	Foot
TMW U119332-1000	3/32"	1,102 lbs	1000'
TMW U119018	1/8"	1,587 lbs	Foot
TMW U119532	5/32"	2,833 lbs	Foot
TMW U119532-1000	5/32"	2,833 lbs	1000'
TMW U119316	3/16"	4,255 lbs	Foot
TMW U119316-1000	3/16"	4255 lb	1000'
TMW U119732	7/32"	5,445 lbs	Foot
TMW U119732-1000	7/32"	5,445 lbs	1000'
Following sizes sold in reels only			
TMW U119014	1/4"	7,584 lbs	500'
TMW U119516	5/16"	10,229 lbs	500'

Transat 7 x 19 Wire Rope AISI 316 Stainless Steel



Applications: Blind systems, standing rigging, steering cables. Characteristics: Very flexible

- Sold by the foot

7 x 19

Part #	Diameter	Break Load
TMW U719116	1/16"	480 lbs
TMW U719332	3/32"	860 lbs
TMW U719018	1/8"	1,124 lbs
TMW U719532	5/32"	2,000 lbs
TMW U719316	3/16"	2,822 lbs
TMW U719014	1/4"	5,027 lbs

► *Also See* Prolan Enduro pg 06-022

Transat Wire 316 Stainless Steel Wire

The finest combination of corrosion and fatigue-resistance with high strength. Available in either a 1 x 19, 7 x 7 or a 7 x 19 construction. The 7 x 7 (7 strands each made up of 7 wires) construction offers the better abrasion resistance while the 7 x 19 (7 strands each consisting of 19 wires) provides the better flexibility. Spools are 500'.

Transat Wire 7 x 7 Wire Rope AISI 316



Applications: Blind systems, standing rigging, steering cables

- Sold by the foot

7 x 7

Part #	Diameter	Break Load
TMW U707116	1/16"	360 lbs
TMW U707332	3/32"	700 lbs

Transat Wire Coated 7 x 7 Stainless Wire



- PVC coated 7 x 7, 316 stainless steel wire
- Lifelines, guard rails, suspension & tensioning
- Characteristics: Very flexible
- Sold by the foot

Part #	Diameter	Break Load
TMW CW7X718/14	1/8" - 1/4"	1,200 lbs
TMW CW7X7316/516	3/16" - 5/16"	3,168 lbs

► *Also See* Tiller Cable pg 08-047

Loos Locoloc End Stops

Copper stop sleeves are capable of holding 1/3 to 1/2 of the rated breaking strength of the cable to which they are attached when properly applied to bare cable.



Part #	Wire Size	Sleeve
LOO ST-2-2	1/16"	3/8"
LOO ST-2-3	3/32"	7/16"
LOO ST-2-4	1/8"	9/16"
LOO ST-2-5	5/32"	5/8"
LOO ST-2-6	3/16"	1"
LOO ST-2-8	1/4"	1-1/8"

Loos Locoloc Oval Sleeves

- Zinc plated copper sleeves for splicing wire rope



Part #	Wire Size	Sleeve
LOO SL-2-2P	1/16"	3/8"
LOO SL-2-3P	3/32"	7/16"
LOO SL-2-4P	1/8"	9/16"
LOO SL-2-5P	5/32"	5/8"
LOO SL-2-6P	3/16"	1"
LOO SL-2-8P	1/4"	1-1/8"
LOO SL-2-10P	5/16"	1-1/4"

Titan Galvanized Shackles

- Hot dip galvanized coating on both the shackle & pin
- Proof tested & load rated
- Working load limit, size and Titan logo stamped on every shackle



Anchor



Chain

		Size		Working load limit	Breaking load limit
Part #	Type	Bail	Pin	Lb (Kg)	Lb (Kg)
TIT 10319050	Anchor	1/4" (6mm)	5/16" (8mm)	1,100 (500)	6,600 (3,000)
TIT 10319062	Chain				
TIT 10319051	Anchor	5/16" (8mm)	3/8" (10mm)	1,650 (750)	9,900 (4,500)
TIT 10319063	Chain				
TIT 10319052	Anchor	3/8" (10mm)	7/16" (11mm)	2,200 (1,000)	13,200 (6,000)
TIT 10319064	Chain				
TIT 10319053	Anchor	7/16" (11mm)	1/2" (13mm)	3,300 (1,500)	19,800 (9,000)
TIT 10319065	Chain				
TIT 10319054	Anchor	1/2" (13mm)	5/8" (16mm)	4,400 (2,000)	26,400 (12,000)
TIT 10319066	Chain				
TIT 10319055	Anchor	5/8" (16mm)	3/4" (19mm)	7,150 (3,250)	42,900 (19,500)
TIT 10319067	Chain				
TIT 10319056	Anchor	3/4" (19mm)	7/8" (22mm)	10,450 (4,700)	62,700 (28,500)
TIT 10319068	Chain				
TIT 10319057	Anchor	7/8" (22mm)	1" (25mm)	14,300 (6,500)	85,800 (39,000)
TIT 10319069	Chain				
TIT 10319058	Anchor	1" (25mm)	1-1/8" (29mm)	18,700 (8,500)	112,200 (51,000)
TIT 10319070	Chain				
TIT 10319059	Anchor	1-1/8" (29mm)	1-1/4" (32mm)	20,900 (9,500)	125,400 (57,000)
TIT 10319071	Chain				

Titan High Tensile Galvanized Shackles

- Breaking strength exceeds that of high test G4 chain
- Up to 30% stronger than standard Grade A shackles
- Hot Dip galvanized coating on both the shackle and pin
- Working load limit, size, and logo stamped on every shackle
- Bold black colored pin
- Proof tested & load rated
- Bow (Anchor) and D (Chain) types



Anchor



Chain

		Size		Working load limit	Breaking load limit
Part #	Type	Bail	Pin	Lb - Kg	Lb - Kg
TIT 10321196	Anchor	5/16" (8mm)	3/8" (10mm)	2,700 (1,250)	13,750 (6,250)
TIT 10321197	Chain				
TIT 10319610	Anchor	3/8" (10mm)	7/16" (11mm)	4,400 (2,000)	22,000 (10,000)
TIT 10319620	Chain				
TIT 10319611	Anchor	7/16" (11mm)	1/2" (13mm)	5,720 (2,600)	28,600 (13,000)
TIT 10319621	Chain				
TIT 10319612	Anchor	1/2" (13mm)	5/8" (16mm)	7,260 (3,300)	36,300 (16,500)
TIT 10319622	Chain				
TIT 10319613	Anchor	5/8" (16mm)	3/4" (19mm)	11,000 (5,000)	55,000 (25,000)
TIT 10319623	Chain				
TIT 10319614	Anchor	3/4" (19mm)	7/8" (22mm)	15,400 (7,000)	77,000 (35,000)
TIT 10319624	Chain				
TIT 10319615	Anchor	7/8" (22mm)	1" (25mm)	20,900 (9,500)	104,500 (47,500)
TIT 10319616	Anchor	1" (25mm)	1-1/8" (29mm)	27,500 (12,500)	137,500 (62,500)
TIT 10319617	Anchor	1-1/8" (29mm)	1-1/4" (32mm)	33,000 (15,000)	165,000 (75,000)

Galvanized Shackles

Imported hot dip galvanized screw pin shackles offering good quality at a very economical price.

Anchor	Chain
LOG GA-3/16"	LOG GC-3/16"
LOG GA-1/4"	LOG GC-1/4"
LOG GA-5/16"	LOG GC-5/16"
LOG GA-3/8"	LOG GC-3/8"
LOG GA-7/16"	LOG GC-7/16"
LOG GA-1/2"	LOG GC-1/2"
LOG GA-5/8"	LOG GC-5/8"
LOG GA-3/4"	LOG GC-3/4"
LOG GA-7/8"	LOG GC-7/8"
LOG GA-1"	LOG GC-1"
LOG GA-1-1/8"	
LOG GA-1-1/4"	


Anchor


Chain

Sea-Dog Galvanized Anchor Shackles

- Forged hot dipped galvanized
- Display packaged each

SED 147806-1	1/4"
SED 147808-1	5/16"
SED 147810-1	3/8"



Cruiser 316 Stainless Steel "D" Shackles

CRU 300147	3/16"
CRU 300044	1/4"
CRU 300089	5/16"
CRU 300058	3/8"
CRU 300088	1/2"



Cruiser 316 Stainless Steel Anchor Shackles

CRU 300052	3/16"
CRU 300043	1/4"
CRU 300061	5/16"
CRU 300085	3/8"
CRU 300087	1/2"



Cruiser 316 Stainless Steel Long Shackles

CRU 300162	3/16"
CRU 300149	1/4"
CRU 300154	5/16"
CRU 300145	13/32"

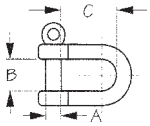


Sea-Dog Stainless Steel Chain Shackles

- Investment cast 316 stainless steel

Part #	A	B	C
SED 147004-1	3/16"	7/16"	9/16"
SED 147006-1	1/4"	1/2"	13/16"
SED 147008-1	5/16"	5/8"	1-1/8"
SED 147010-1	3/8"	13/16"	1-3/8"
SED 147012-1	7/16"	1"	1-5/8"

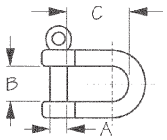






Sea-Dog Stainless Steel "D" Shackles

- Forged 316 stainless steel

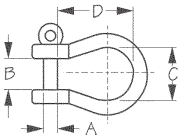


Part #	A	B	C	Breaking Strength
SED 147104	3/16"	7/16"	11/16"	2,200 lbs
SED 147106	1/4"	1/2"	3/4"	3,300 lbs
SED 147108	5/16"	11/16"	1-1/4"	6,600 lbs



Sea-Dog Stainless Steel Anchor Shackles

- Investment cast 316 stainless steel
- Suffix (-1) display packaged

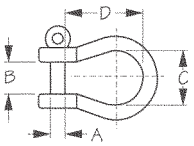


Part #	A	B	C	D
SED 147054-1	3/16"	5/16"	9/16"	11/16"
SED 147056-1	1/4"	1/2"	13/16"	1-1/16"
SED 147058	5/16"	5/8"	1-1/8"	1-7/16"
SED 147058-1				
SED 147060-1	3/8"	13/16"	1-3/8"	1-13/16"
SED 147062-1	1/2"	1"	1-11/16"	2-5/16"



Sea-Dog Stainless Steel Anchor Shackles

- Forged 316 stainless steel



Part #	A	B	C	D	Breaking Strength
SED 147206	1/4"	1/2"	13/16"	15/16"	3,300 lbs
SED 147210	3/8"	13/16"	1-1/4"	1-3/8"	9,900 lbs

Cruiser 316 Stainless Steel Twisted Shackles

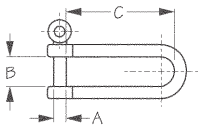
CRU 300092	3/16"
CRU 300091	1/4"
CRU 300150	5/16"



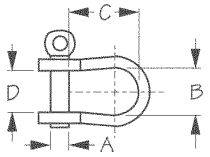


Sea-Dog Stainless Steel Long Chain Shackles

- Forged 316 stainless steel



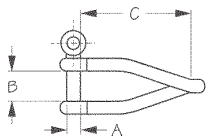
Part #	A	B	C	Breaking Strength
SED 147153-1	5/32"	5/16"	1-5/16"	1,540 lbs
SED 147154-1	3/16"	7/16"	1-1/2"	2,200 lbs
SED 147156-1	1/4"	1/2"	1-13/16"	3,300 lbs
SED 147158-1	5/16"	11/16"	2-7/16"	6,600 lbs
SED 147160-1	3/8"	15/16"	3"	9,900 lbs

Sea-Dog Stamped Stainless Steel Bow Shackle

- 304 stainless steel

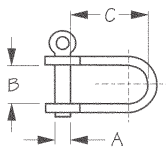
Part #	A	B	C	D	Breaking Strength
SED 140108	5/16"	11/16"	1-1/4"	11/16"	4,400 lbs

Sea-Dog Twisted Shackles

- Forged 316 stainless steel

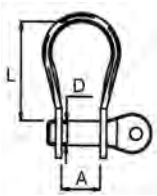
Part #	A	B	C	Breaking Strength
SED 147404-1	3/16"	3/8"	1-1/2"	2,200 lbs
SED 147406-1	1/4"	1/2"	1-13/16"	3,300 lbs
SED 147408-1	5/16"	5/8"	2-1/4"	6,600 lbs
SED 147410	3/8"	13/16"	2-3/4"	9,900 lbs

Sea-Dog Stamped Stainless Steel "D" Shackle

- 304 stainless steel

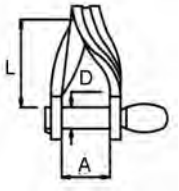
Part #	A	B	C	Breaking Strength
SED 140082	5/16"	3/4"	1-5/8"	6,600 lbs

Blue Wave Bow Shackles

High polished AISI 316 stainless steel construction.

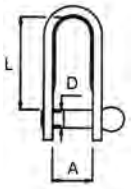
Part #	D	A	L	Break Load
BLU 150061	1/4"	9/16"	29/32"	4,350 lb
BLU 150081	5/16"	11/16"	1-7/32"	6,600 lb

Blue Wave Twisted Shackle

High polished AISI 316 stainless steel construction.

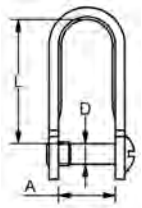
Part #	D	A	L	Break Load
BLU 170005	3/16"	7/16"	7/8"	2,600 lb

Blue Wave "D" Shackles

High polished AISI 316 stainless steel construction.

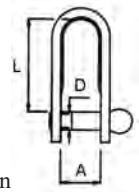
Part #	D	A	L	Break Load
BLU 150051	3/16"	7/16"	11/16"	2,200 lb
BLU 150052	3/16"	5/8"	15/16"	2,200 lb
BLU 150053	3/16"	5/8"	1-13/32"	2,400 lb
BLU 155251	3/16"	17/32"	1"	2,400 lb
BLU 155206	1/4"	5/8"	29/32"	3,000 lb
BLU 150062	1/4"	9/16"	1-9/16"	4,350 lb
BLU 150082	5/16"	11/16"	1-21/32"	6,600 lb

Blue Wave Sailmaker "D" Shackles

High polished AISI 316 stainless steel construction
- Screw pin style.

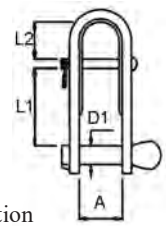
Part #	D	A	L	Break Load
BLU 160041	5/32"	3/8"	19/32"	1,100 lb
BLU 160051	3/16"	7/16"	11/16"	2,200 lb
BLU 160052	3/16"	5/8"	15/16"	2,200 lb
BLU 160053	3/16"	5/8"	1-13/32"	2,400 lb
BLU 165206	1/4"	5/8"	29/32"	3,000 lb

Blue Wave Key Pin Shackles

- High polished AISI 316 stainless steel construction

Part #	D	A	L	Break Load
BLU 180005	5	19/32"	1-3/8"	2,205 lbs
BLU 180006	6	19/32"	1-9/16"	3,638 lbs
BLU 185205	5	33/64"	1-1/32"	2,205 lbs

Blue Wave Rigging Halyard Shackles

- High polished AISI 316 stainless steel construction

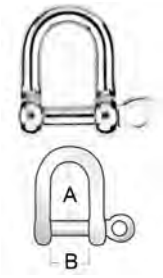
Part #	D1	A	L1	L2	Break Load
BLU 180352	3/16"	7/16"	9/16"	11/32"	1,500 lb
BLU 180305	3/16"	19/32"	13/16"	7/16"	1,500 lb
BLU 180306	1/4"	9/16"	1"	7/16"	3,300 lb
BLU 180308	5/16"	3/4"	1"	7/16"	4,350 lb

Harken Forged Stainless Shackles

These shackles are electric forged out of 316 and 17-4 PH stainless steel and polished to a high lustre.
Safe working loads are no more than half the minimum breaking strength.

Harken "D" Shackles (316 Stainless)

Part #	Size	Shackle Pin	A	B	SWL	Breaking Strength
HAR 2108	6 mm	1/4"	3/4"	9/16"	1650 lbs	3,300 lbs
HAR 2115	8 mm	5/16"	1"	11/16"	3040 lbs	6,080 lbs
HAR 2122	10 mm	13/32"	1-1/4"	13/16"	4870 lbs	9,740 lbs
HAR 2123 †	10 mm "HR"	13/32"	1-1/4"	13/16"	8210 lbs	16,420 lbs
†High Resistance						



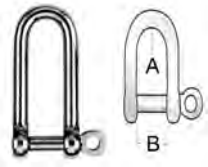
Harken Bow Shackles (316 Stainless)

Part #	Size	Shackle Pin	A	B	C	SWL	Breaking Strength
HAR 2103	5 mm	3/16"	1"	3/8"	11/16"	1190 lbs	2,380 lbs
HAR 2110	6 mm	1/4"	1-1/16"	9/16"	3/4"	1650 lbs	3,300 lbs
HAR 2117	8 mm	5/16"	1-1/2"	11/16"	1-1/8"	3040 lbs	6,080 lbs
HAR 2124	10 mm	13/32"	1-7/8"	7/8"	1-1/4"	4870 lbs	9,740 lbs



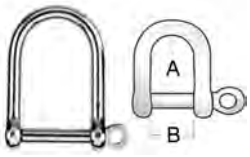
Harken Long Shackles (316 Stainless)

Part #	Size	Shackle Pin	A	B	SWL	Breaking Strength
HAR 2104	5 mm	3/16"	1-1/2"	3/8"	1190 lbs	2,380 lbs
HAR 2111	6 mm	1/4"	1-3/4"	1/2"	1650 lbs	3,300 lbs
HAR 2118	8 mm	5/16"	2-1/4"	5/8"	3040 lbs	6,080 lbs



Harken Large Opening Shackles (316 Stainless)

Part #	Size	Shackle Pin	A	B	SWL	Breaking Strength
HAR 2106	5 mm	3/16"	1-5/16"	13/16"	770 lbs	2,200 lbs



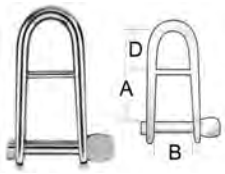
Harken Shallow Bow Shackle (316 Stainless)

Part #	Size	Shackle Pin	A	B	C	SWL	Breaking Strength
HAR 2132	5mm	3/16"	11/16"	7/16"	9/16"	1190 lbs	2,380 lbs



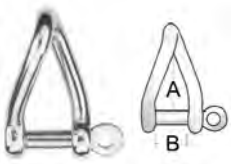
Harken Captive Halyard Shackle (316 Stainless)

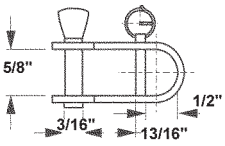
Part #	Shackle Pin	A	B	D
HAR 2107	3/16"	1-3/8"	9/16"	9/16"



Harken Twist Shackles (316 Stainless)

Part #	Size	Shackle Pin	A	B	SWL	Breaking Strength
HAR 2105	5 mm	3/16"	1-7/16"	3/8"	1190 lbs	2,380 lbs
HAR 2112	6 mm	1/4"	1-1/8"	1/2"	1650 lbs	3,300 lbs
HAR 2119	8 mm	5/16"	1-5/8"	11/16"	3040 lbs	6,080 lbs
HAR 2125	10 mm	13/32"	1-7/8"	3/4"	4870 lbs	9,740 lbs





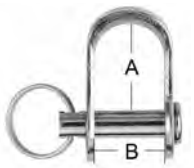


Sea-Dog
Fixed Pin Stainless Steel Halyard Shackle

- Stamped 304 stainless steel, loose pin style
- Breaking strength: 1,540 lbs

SED 140235

Harken
Stamped Stainless Steel Shackles



- Used on most of the small boat blocks
- Useful for a wide range of applications

Part #	Pin Dia.	A	B	SWL	Break Load
HAR 072	3/16"	1/2"	7/16"	1250	2500 lbs
HAR 138	1/4"	11/16"	5/8"	1500	3000 lbs

Harken
Stainless Steel U-Adapter Fittings



- Used on most of the small boat blocks

Part #	Pin Dia.	A	B	SWL	Break Load
HAR 093	3/16"	1/2"	7/16"	1250	2500 lbs
HAR 463	1/4", 3/16"	9/16"	13/32"	1250	2500 lbs
HAR 1598 *	5/16"	1/2"	7/8"	1800	3600 lbs

* Special Order

Gloma
'D' Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 101	5/32"	5/16"	11/16"	2,315 lbs
GLO 101-P				
GLO 102	3/16"	3/8"	3/4"	3,300 lbs
GLO 102-P				
GLO 103	1/4"	7/16"	13/16"	3,960 lbs
GLO 103-P				
GLO 104	5/16"	11/16"	1-1/4"	9,480 lbs
GLO 104-P				
GLO 105	3/8"	13/16"	1-3/8"	12,570 lbs
GLO 105-P				
GLO 106	1/2"	1"	1-9/16"	17,600 lbs
GLO 106-P				

Gloma
Long 'D' Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 201	5/32"	5/16"	1-5/16"	2,420 lbs
GLO 201-P				
GLO 202	3/16"	7/16"	1-5/8"	2,860 lbs
GLO 202-P				
GLO 203	1/4"	1/2"	1-7/8"	4,400 lbs
GLO 203-P				
GLO 204	5/16"	11/16"	2-3/8"	9,460 lbs
GLO 204-P				
GLO 205	3/8"	7/8"	2-7/8"	14,740 lbs
GLO 205-P				

Gloma
Bow Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside Width	Inside Bow	Inside Length	Break Load
GLO 301	5/32"	5/16"	5/8"	7/8"	1,985 lbs
GLO 301-P					
GLO 302	3/16"	3/8"	11/16"	1"	2,645 lbs
GLO 302-P					
GLO 303	1/4"	1/2"	13/16"	1-1/4"	3,750 lbs
GLO 303-P					
GLO 304	5/16"	5/8"	1"	1-5/8"	9,260 lbs
GLO 304-P					
GLO 305	3/8"	13/16"	1-3/16"	1-15/16"	12,350 lbs
GLO 305-P					
GLO 306	1/2"	1"	1-1/2"	2-1/8"	17,200 lbs
GLO 306-P					

Gloma
Captive Pin, 'D' Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 101-I	5/32"	5/16"	11/16"	2,315 lbs
GLO 101-I-P				
GLO 102-I	3/16"	3/8"	3/4"	3,300 lbs
GLO 102-I-P				
GLO 103-I	1/4"	7/16"	13/16"	3,960 lbs
GLO 103-I-P				
GLO 104-I	5/16"	11/16"	1-1/4"	9,480 lbs
GLO 104-I-P				
GLO 105-I	3/8"	13/16"	1-3/8"	12,570 lbs
GLO 105-I-P				

Gloma
Captive Pin, Long 'D' Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 201-I	5/32"	5/16"	1-5/16"	2,205 lbs
GLO 201-I-P				
GLO 202-I	3/16"	3/8"	1-5/8"	3,300 lbs
GLO 202-I-P				
GLO 203-I	1/4"	1/2"	1-7/8"	3,960 lbs
GLO 203-I-P				
GLO 204-I	5/16"	11/16"	2-3/8"	9,480 lbs
GLO 204-I-P				
GLO 205-I	3/8"	7/8"	2-7/8"	12,570 lbs
GLO 205-I-P				

Gloma
Captive Pin, Bow Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside Width	Inside Bow	Inside Length	Break Load
GLO 301-I	5/32"	5/16"	5/8"	7/8"	1,985 lbs
GLO 301-I-P					
GLO 302-I	3/16"	3/8"	11/16"	1"	2,645 lbs
GLO 302-I-P					
GLO 303-I	1/4"	1/2"	13/16"	1-1/4"	3,750 lbs
GLO 303-I-P					
GLO 304-I	5/16"	5/8"	1"	1-5/8"	9,260 lbs
GLO 304-I-P					
GLO 305-I	3/8"	13/16"	1-3/16"	1-15/16"	12,350 lbs
GLO 305-I-P					
GLO 306-I	1/2"	1"	1-1/2"	2-1/8"	17,200 lbs
GLO 306-I-P					

Gloma
Twisted Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 401	5/32"	5/16"	1-1/4"	2,205 lbs
GLO 401-P				
GLO 402	3/16"	3/8"	1-1/2"	3,300 lbs
GLO 402-P				
GLO 403	1/4"	1/2"	1-3/4"	3,960 lbs
GLO 403-P				
GLO 404	5/16"	5/8"	2-1/4"	9,480 lbs
GLO 404-P				
GLO 405	3/8"	13/16"	2-3/4"	12,570 lbs
GLO 405-P				

Gloma
Extra Wide 'D' Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 502	3/16"	13/16"	1-7/16"	1,985 lbs
GLO 502-P				
GLO 503	1/4"	1"	1-11/16"	3,900 lbs
GLO 503-P				
GLO 504	5/16"	1-1/4"	2-1/4"	7,700 lbs
GLO 504-P				
GLO 505	3/8"	1-11/16"	2-3/4"	11,465 lbs
GLO 505-P				

Gloma
Flush Pin 'D' Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 603	1/4"	7/16"	13/16"	3,970 lbs
GLO 603-P				
GLO 604	5/16"	5/8"	1-1/4"	9,480 lbs
GLO 604-P				
GLO 605	3/8"	3/4"	1-7/16"	12,570 lbs
GLO 605-P				
GLO 606	1/2"	1"	1-5/8"	17,640 lbs
GLO 606-P				

Gloma
Captive Pin, Twisted Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside W	Inside L	Break Load
GLO 401-I	5/32"	5/16"	1-1/4"	2,205 lbs
GLO 401-I-P				
GLO 402-I	3/16"	3/8"	1-1/2"	3,300 lbs
GLO 402-I-P				
GLO 403-I	1/4"	1/2"	1-3/4"	3,960 lbs
GLO 403-I-P				
GLO 404-I	5/16"	5/8"	2-1/4"	9,480 lbs
GLO 404-I-P				
GLO 405-I	3/8"	13/16"	2-3/4"	12,570 lbs
GLO 405-I-P				

Gloma
Halyard Key Pin Shackles w/Fixed Pin



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside Width	Pin to Pin	Eye	Break Load
GLO 823-B1	3/16"	1/2"	13/16"	5/8"	1,980 lbs
GLO 823-B1-P					
GLO 823-B2	1/4"	9/16"	7/8"	1-1/16"	2,860 lbs
GLO 823-B2-P					
GLO 823-B3	5/16"	3/4"	1-3/16"	1"	5,500 lbs
GLO 823-B3-P					

Gloma
Key Pin Shackles



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Pin Dia.	Inside Width	Inside Length	Break Load
GLO 823-1	3/16"	1/2"	1-1/2"	2,420 lbs
GLO 823-1-P				
GLO 823-2	1/4"	9/16"	1-9/16"	3,080 lbs
GLO 823-2-P				
GLO 823-3	5/16"	13/16"	2-3/8"	5,720 lbs
GLO 823-3-P				

Wichard Self Locking Chain Shackles



Extra strong, drop forged 316L stainless steel shackles with self-locking feature offering the assurance of no risk of unscrewing.

Part #	Dia	ID	Breaking Load
WIC 1201	5/32"	17/32" x 11/32"	1,765 lbs
WIC 1202	3/16"	5/8" x 7/16"	2,645 lbs
WIC 1203	1/4"	25/32" x 1/2"	3,525 lbs
WIC 1204	5/16"	1-1/32" x 23/32"	6,615 lbs
WIC 1205	13/32"	1-5/16" x 7/8"	11,020 lbs
WIC 1206	15/32"	1-17/32" x 1"	13,225 lbs
Long Shackles			
WIC 1211	5/32"	7/8" x 11/32"	1,765 lbs
WIC 1212	3/16"	1-5/32" x 7/16"	2,645 lbs
WIC 1213	1/4"	1-5/16" x 1/2"	3,525 lbs
WIC 1214	5/16"	1-25/32" x 23/32"	6,615 lbs
WIC 1215	13/32"	3-1/16" x 25/32"	11,020 lbs

Wichard Anchor Shackles



- Drop forged 316L stainless steel

Part #	Dia	ID	Breaking Load
WIC 1241	5/32"	25/32" x 11/32"	1,765 lbs
WIC 1242	3/16"	29/32" x 7/16"	2,645 lbs
WIC 1243	1/4"	1-1/16" x 1/2"	3,530 lbs
WIC 1244	5/16"	1-15/32" x 23/32"	6,615 lbs
WIC 1245	13/32"	1-13/16" x 25/32"	11,020 lbs
WIC 1246	15/32"	2-1/8" x 15/16"	16,535 lbs

Wichard Twisted Shackles



- Drop forged 316L stainless steel

Part #	Dia	ID	Breaking Load
WIC 1222	3/16"	1-1/32" x 7/16"	2,645 lbs
WIC 1223	1/4"	1-3/16" x 1/2"	3,530 lbs
WIC 1224	5/16"	1-9/16" x 23/32"	6,615 lbs
WIC 1225	13/32"	2" x 7/8"	11,020 lbs

Wichard Captive Pin Chain Shackles



Extra strong, drop forged 316L stainless steel screw pin shackles with a captive pin that cannot fall out of the body when unscrewed. Self-locking.

Part #	Dia	ID	Breaking Load
WIC 1401	5/32"	1/2" x 5/16"	1,985 lbs
WIC 1402	3/16"	5/8" x 13/32"	3,310 lbs
WIC 1403	1/4"	25/32" x 15/32"	4,630 lbs
WIC 1404	5/16"	1-1/32" x 5/8"	8,160 lbs
WIC 1405	13/32"	1-5/16" x 25/32"	11,465 lbs
WIC 1406	15/32"	1-17/32" x 15/32"	16,535 lbs

Wichard Captive Pin Anchor Shackles



- Drop forged 316L stainless steel

Part #	Dia	ID	Breaking Load
WIC 1441	5/32"	11/16" x 5/16"	1,985 lbs
WIC 1442	3/16"	29/32" x 13/32"	3,310 lbs
WIC 1443	1/4"	1-1/16" x 15/32"	4,630 lbs
WIC 1444	5/16"	1-15/32" x 5/8"	8,160 lbs
WIC 1445	13/32"	1-13/16" x 25/32"	11,465 lbs

Wichard Captive Pin Twisted Shackles



- Drop forged 316L stainless steel

Part #	Dia	ID	Breaking Load
WIC 1422	3/16"	1-15/32" x 13/32"	3,310 lbs
WIC 1423	1/4"	1-3/4" x 15/32"	4,630 lbs
WIC 1424	5/16"	2-5/16" x 5/8"	8,160 lbs
WIC 1425	13/32"	2-15/16" x 25/32"	11,465 lbs

Wichard Wide Shackles



- Self locking pin which will not loosen, even under the most violent vibrations
- Drop forged 316L stainless steel
- Self locking

Part #	Dia	ID	Breaking Load
WIC 1262	3/16"	1-13/32" x 25/32"	1,765 lbs
WIC 1263	1/4"	1-21/32" x 1"	3,300 lbs
WIC 1264	5/16"	2-1/4" x 1-1/4"	5,950 lbs
WIC 1265	13/32"	2-12/16" x 1-9/16"	8,900 lbs

Wichard Captive Pin Long Shackles



- Drop forged 316L stainless steel

Part #	Dia	ID	Breaking Load
WIC 1411	5/32"	1-7/32" x 5/16"	1,985 lbs
WIC 1412	3/16"	1-17/32" x 13/32"	3,310 lbs
WIC 1413	1/4"	1-13/16" x 15/32"	4,630 lbs
WIC 1414	5/16"	2-7/16" x 5/8"	8,160 lbs
WIC 1415	13/32"	3-1/16" x 25/32"	11,465 lbs

Wichard Key Pin Shackles



- Extra strong, drop forged 316L stainless steel shackles
- Quick locking with half-turn

Part #	Dia	ID	Breaking Load
WIC 1432	3/16"	1-7/16" x 1/2"	2,645 lbs
WIC 1433	1/4"	1-3/4" x 5/8"	3,745 lbs
WIC 1434	5/16"	2-3/8" x 27/32"	5,510 lbs

Wichard Key Pin Shackles - With Bar



- Extra strong, drop forged 316L stainless steel shackles
- Quick locking with half-turn

Part #	Dia	ID	Breaking Load
WIC 81432	3/16"	1-7/16" x 1/2"	2,645 lbs
WIC 81433	1/4"	1-3/4" x 5/8"	3,745 lbs
WIC 81434	5/16"	2-3/8" x 27/32"	5,510 lbs

Wichard Captive Pin Shackles



- Stainless steel captive pin thimble shackle with molded top
- The special shape enables the end to be directly spliced without adding an additional thimble
- Drop forged 316L stainless steel

Part #	Dia	Max Rope	Breaking Load
WIC 1494	5/16"	1/2"	6,650 lbs
WIC 1495	13/32"	5/8"	11,100 lbs

Wichard Allen Head Pin Shackles



- Ideal for snag free connections
- Drop forged 316L stainless steel

Part #	Dia	ID	Breaking Load
WIC 1303	1/4"	3/4" x 15/32"	3,500 lbs
WIC 1304	5/16"	1-1/32" x 5/8"	5,950 lbs
WIC 1305	13/32"	1-5/16" x 25/32"	9,500 lbs

Wichard "D" Shackle "HR"



- Special high resistance construction
- Drop forged 17-4 PH stainless steel

Part #	ID	Breaking Load
WIC 11204	5/16" x 1-1/32"	4,850 lbs

Stainless Steel

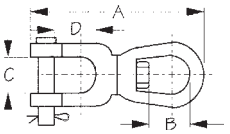
Wichard uses top-quality grades of stainless steel in its products (see chart). The first type is a low carbon austenitic steel (316L), which offers good mechanical characteristics. They are non-magnetic steels and most of Wichard products are manufactured in this grade. The second (17.4PH) is martensitic steel (magnetic), which is referred to as high-resistance steel (HR).

Type	Austenitic	Martensitic
Common name	18.12 Mo	17.4 PH
European standard	X2CrNiMo17-12-2	X5CrNiCuNb 16-4
Us Aisi standard	316 L	630
Composition Carbon	< 0,03 %	< 0,07 %
Chromium	18 %	16,5 %
Nickel	12 %	4 %
Molybdenum	3 %	
Copper		4 %

Sea-Dog Galvanized Swivels

- Hot dip galvanized drop forged steel
- Jaw and eye swivel with a monel cotter pin and an extra large eye

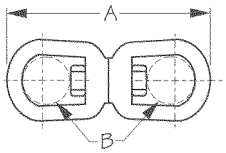




Part #	Size	A	B	C	D	WLL
SED 181206	1/4"	3-3/8"	3/4"	7/16"	7/8"	1/2" Ton
SED 181208	5/16"	3-13/16"	7/8"	1/2"	7/8"	3/4" Ton
SED 181210	3/8"	4-9/16"	7/8"	5/8"	1"	1 Ton
SED 181212	1/2"	6"	1-7/16"	3/4"	1-1/4"	1-1/2 Ton
SED 181216	5/8"	7"	1-5/8"	7/8"	1-1/2"	2 Ton
SED 181219	3/4"	8"	1-11/16"	1-1/8"	1-3/4"	4-3/4 Ton

Sea-Dog Galvanized Swivels



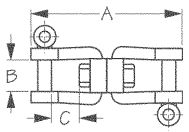


- Hot dip galvanized drop forged steel
- Eye and eye swivel with an extra large eye

Part #	Size	A	B	WLL
SED 181106	1/4"	3-7/16"	11/16"	1/2 Ton
SED 181108	5/16"	4-1/4"	15/16"	3/4" Ton
SED 181110	3/8"	5"	1-1/8"	1 Ton
SED 181112	1/2"	6-1/2"	1-7/16"	1-1/2 Ton
SED 181116	5/8"	7-11/16"	1-9/16"	2 Ton
SED 181119	3/4"	8-7/8"	1-7/16"	4-3/4 Ton

Sea-Dog Stainless Steel Jaw & Jaw Swivels



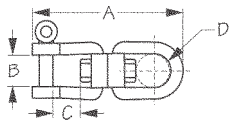


- Investment cast 316 S/S body with 304 stainless pin
- Display packaged

Part #	Size	A	B	C
SED 182306-1	1/4"	2-9/16"	1/2"	1/2"
SED 182310-1	3/8"	4-5/8"	3/4"	7/8"
SED 182312-1	1/2"	6"	1"	1-1/16"

Sea-Dog Stainless Steel Eye & Jaw Swivels





- Investment cast 316 S/S body with 304 stainless pin
- Display packaged

Part #	Size	A	B	C	D
SED 182206-1	1/4"	2-9/16"	1/2"	7/16"	9/16"
SED 182208-1	5/16"	3-11/16"	5/8"	9/16"	13/16"
SED 182210-1	3/8"	4-5/8"	3/4"	7/8"	15/16"
SED 182212-1	1/2"	6"	1"	1-1/8"	1-3/16"

Transat Jaw & Jaw Swivels



- Forged 316 stainless steel.
- P = Packaged, 1 per

Part #	Length	Pin Dia.	Jaw Open	Break Load
TMS S-8281-06	2-1/2"	1/4"	1/2"	2,200 lbs
TMS S-8281-06-P				
TMS S-8281-08	3-1/2"	5/16"	5/8"	4,000 lbs
TMS S-8281-08-P				
TMS S-8281-10	4-1/2"	3/8"	3/4"	4,600 lbs
TMS S-8281-10-P				
TMS S-8281-13	5-3/4"	1/2"	7/8"	9,200 lbs
TMS S-8281-13-P				

Cruiser 316 Stainless Steel Jaw and Eye Swivels

CRU 350021 1/4"
CRU 350016 3/8"

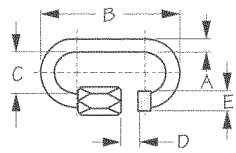


▶ *Also See* Anchor Swivels pg 14-037

Sea-Dog Galvanized Quick Links

- Electro-galvanized steel link
- Display packaged

Part #	A	B	C	D	E	Break Load
SED 158008-1	5/16"	2-15/16"	11/16"	3/8"	7/16"	7,700 lbs
SED 158010-1	3/8"	3-9/16"	15/16"	1/2"	1/2"	12,100 lbs
SED 158012-1	1/2"	4-3/16"	15/16"	9/16"	9/16"	18,000 lbs

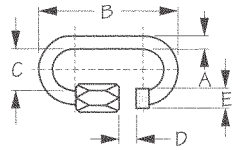




Sea-Dog Stainless Steel Quick Links

- 316 stainless steel
- Suffix (-1) display packaged

Part #	A	B	C	D	E	Break Load
SED 153003-1	1/8"	1-7/16"	7/16"	3/16"	3/16"	2,420 lbs
SED 153005-1	3/16"	1-15/16"	9/16"	1/4"	5/16"	4,950 lbs
SED 153006-1	1/4"	2-1/4"	5/8"	5/16"	3/8"	7,150 lbs
SED 153008-1	5/16"	2-13/16"	3/4"	7/16"	1/2"	12,000 lbs
SED 153010-1	3/8"	3-7/16"	7/8"	1/2"	1/2"	19,800 lbs
SED 153012	1/2"	4-7/8"	1"	15/16"	9/16"	24,200 lbs

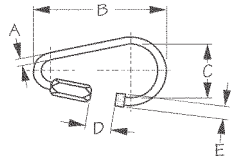




Sea-Dog Pear Style Stainless Steel Quick Links

- 316 AISI stainless steel

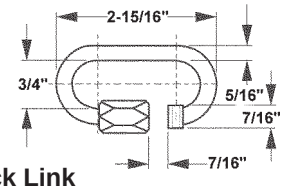
Part #	A	B	C	D	E	Break Load
SED 153603	1/8"	2-1/16"	7/8"	3/8"	3/16"	1,430 lbs
SED 153605	3/16"	2-13/16"	1-1/8"	9/16"	15/16"	2,970 lbs
SED 153610	3/8"	4-13/16"	1-13/16"	13/16"	1/2"	12,000 lbs
SED 153612	1/2"	5-9/16"	2-1/8"	15/16"	9/16"	16,500 lbs





Sea-Dog Light Duty Stainless Steel Quick Link





- 304 stainless steel
- Breaking strength: 9600 lbs

SED 153708

Cruiser 316 Stainless Steel Quick Links

CRU 200019	1/8"
CRU 200017	3/16"
CRU 200014	1/4"
CRU 200016	5/16"
CRU 200015	3/8"



Mibro Hand Line Snap

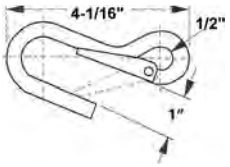


- Hot dipped galvanized drop forged steel with stainless steel spring
- Ideal for boat trailer winch lines
- Length: 5-1/4", Eye: 1-1/8", Throat: 11/16"
- Rated 5000 lbs

MIB 3047-G

Sea-Dog Spring Hook



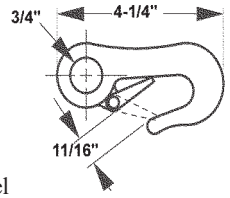


- Made from electro-galvanized mild steel
- Breaking strength: 1200 lbs
- Display packaged

SED 155630-1

Sea-Dog Heavy Duty Utility Snap



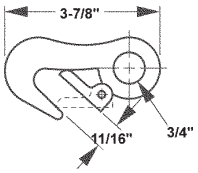


- Made from electro-galvanized forged steel
- Display packaged

SED 155832-1

Sea-Dog Utility Snap



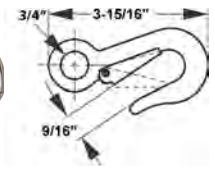


- Made from electro-galvanized forged steel
- Display packaged

SED 155822-1

Sea-Dog Mooring Snap Hook



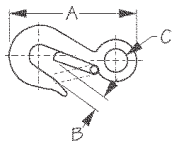


- Cast steel nickel plated
- Display packaged

SED 155841-1

Sea-Dog Fast Eye Safety Snap



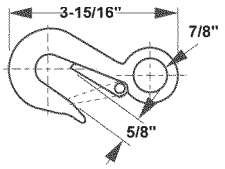


- Die cast manganese bronze
- Display packaged

Part #	A	B	C	Break Strength
SED 138305-1	4-3/4"	13/16"	1-1/8"	1,500 lbs

Sea-Dog Fast Eye Safety Snap



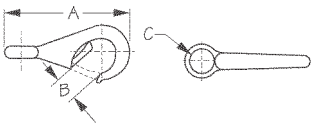


- Cast stainless steel
- Display packaged

SED 146300-1

Sea-Dog Fixed Eye Boat Snaps



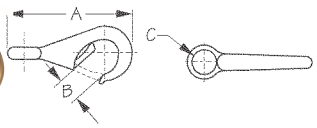


- Sand cast brass
- Display packaged

Part #	Size	A	B	C
SED 139120-1	0	2-1/8"	1/4"	7/16"
SED 139122-1	2	3-3/16"	1/2"	3/4"
SED 139123-1	3	3-13/16"	9/16"	3/4"

Sea-Dog Fixed Eye Boat Snap





- Die cast manganese bronze, chromed

Part #	Size	A	B	C
SED 136126	0	2-1/8"	1/4"	7/16"

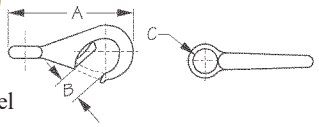
Cruiser 316 Stainless Steel Snaps



CRU 340063 Size 1, L: 2-3/4" x 5/8" eye
CRU 340064 Size 2, L: 3-1/4" x 11/16" eye

Sea-Dog Fixed Eye Boat Snaps



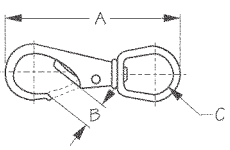


- Investment cast 316 stainless steel
- Display packaged

Part #	Size	A	B	C
SED 146120-1	0	2-1/16"	1/4"	3/8"
SED 146121-1	1	2-7/8"	7/16"	5/8"
SED 146122-1	2	3-3/16"	1/2"	3/4"
SED 146123-1	3	3-13/16"	11/16"	3/4"

Sea-Dog Swivel Eye Boat Snaps





- Investment cast 316 stainless steel
- Display packaged

Part #	Size	A	B	C
SED 146131-1	1	3-5/16"	7/16"	3/4"
SED 146132-1	2	3-7/8"	1/2"	3/4"
SED 146133-1	3	4-5/8"	1/2"	7/8"

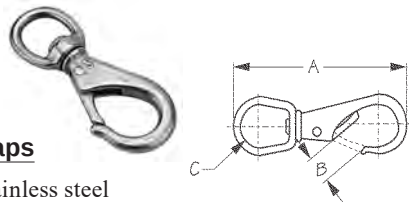
Sea-Dog Swivel Eye Boat Snaps



- Sand cast brass
- Display packaged

Part #	Size	A	B	C
SED 139131-1	1	3-3/16"	3/8"	5/8"
SED 139132-1	2	3-11/16"	1/2"	3/4"
SED 139133-1	3	4-1/2"	9/16"	3/4"

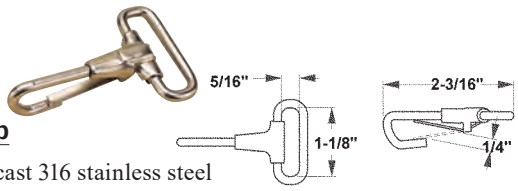
Cruiser Swivel Eye Boat Snaps



- Investment cast 316 stainless steel

Part #	Size	A	B	C
CRU 350014	1	2-7/8"	7/16"	5/8"
CRU 350015	2	3-3/16"	1/2"	34"

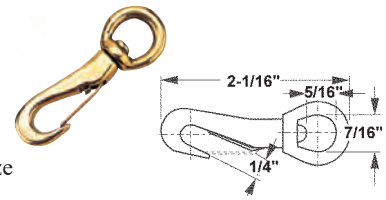
Sea-Dog Spring Snap



- Investment cast 316 stainless steel
- Display packaged

SED 139896-1

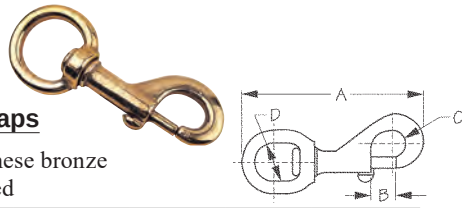
Sea-Dog Swivel Eye Baby Snap



- Die cast manganese bronze

SED 131042

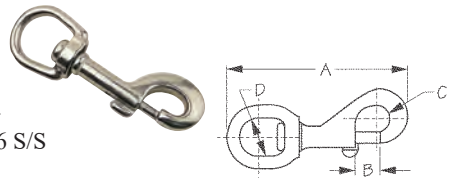
Sea-Dog Swivel Bolt Snaps



- Die cast manganese bronze
- Display packaged

Part #	A	B	C	D
SED 136010-1	2-9/16"	5/16"	5/16"	3/8"
SED 136021-1	3-3/16"	3/8"	3/8"	7/8"
SED 136590-1	3-5/16"	7/16"	1/2"	11/16"

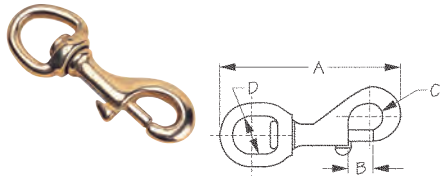
Sea-Dog Swivel Bolt Snap



- Investment cast 316 S/S
- Display packaged

Part #	A	B	C	D
SED 146590-1	3-9/16"	5/16"	5/16"	3/4"

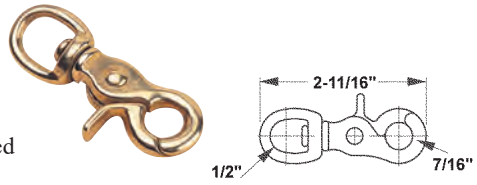
Sea-Dog Swivel Bolt Snap



- Sand cast brass
- Display packaged

Part #	A	B	C	D
SED 139016-1	3-5/16"	7/16"	3/8"	5/8"

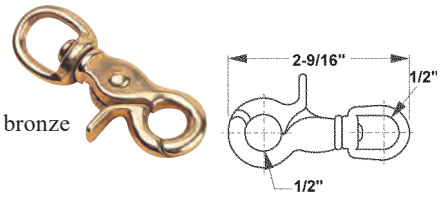
Sea-Dog Trigger Snap



- Sand cast brass
- Display packaged

SED 139800-1

Sea-Dog Trigger Snap

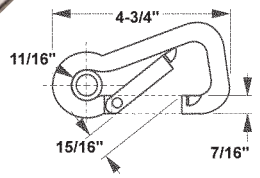


- Die cast manganese bronze
- Display packaged

SED 136800-1

Sea-Dog Asymmetrical Snap Hook



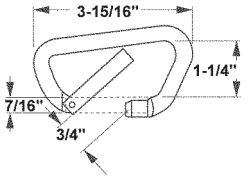


- 316 stainless steel
- Display packaged

SED 150125-1

Sea-Dog Snap Link





- 316 stainless steel

SED 152100

Sea-Dog Spring Gate Snap Hook



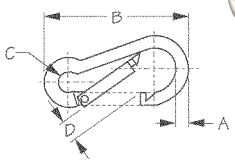
- Investment cast 316 stainless
- L: 4" x Eye: 5/8" x Throat: 7/8"

SED 155500-1

Sea-Dog Mild Steel Snap Hooks

Electro-galvanized mild steel. Suffix (-1) display packaged.



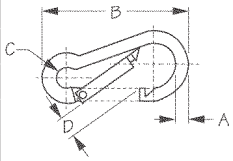


Part #	A	B	C	D	Breaking Strength
SED 156060-1	1/4"	2-3/8"	5/16"	5/16"	560 lbs
SED 156080-1	5/16"	3-3/16"	7/16"	7/16"	1,140 lbs
SED 156100	3/8"	3-15/16"	9/16"	1/2"	1,600 lbs
SED 156100-1	3/8"	3-15/16"	9/16"	1/2"	1,600 lbs
SED 156120-1	7/16"	4-3/4"	3/4"	5/8"	2,000 lbs
SED 156140	1/2"	5-9/16"	3/4"	3/4"	2,800 lbs

Sea-Dog Stainless Steel Snap Hooks

316 stainless steel. Display packaged each (-1), 5/pkg (-5)



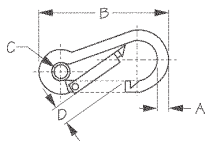


Part #	A	B	C	D	Breaking Strength
SED 151560-1	1/4"	2-3/8"	5/16"	5/16"	700 lbs
SED 151580-1	5/16"	3-1/8"	7/16"	3/8"	1,400 lbs
SED 151600-1	3/8"	4"	9/16"	1/2"	2,000 lbs
SED 151600-5					
SED 151620-1	7/16"	4-11/16"	11/16"	5/8"	2,500 lbs

Sea-Dog Stainless Steel Snap Hooks w/Eye Insert

316 stainless steel. Display packaged.



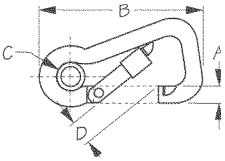


Part #	A	B	C	D	Breaking Strength
SED 151565-1	1/4"	2-3/8"	1/4"	5/16"	7,00 lbs
SED 151585-1	5/16"	3-1/8"	3/8"	3/8"	1,400 lbs
SED 151605-1	3/8"	4"	7/16"	1/2"	2,000 lbs
SED 151625-1	7/16"	4-11/16"	5/8"	5/8"	2,500 lbs

Sea-Dog Stainless Steel Locking Asymmetrical Snap Hooks w/Eye Insert

Provides secure attachment to lines for use on safety harnesses, fishing lines and mooring buoys. The locking cylinder greatly reduces the accidental opening of the snap. The eye insert reduces wear on the rope.

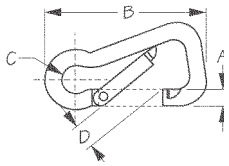




Part #	A	B	C	D	Breaking Strength
SED 150088	5/16"	3-1/8"	3/8"	1/2"	1,604 lbs
SED 150108	3/8"	4"	9/16"	11/16"	2,407 lbs
SED 150128	7/16"	4-3/4"	11/16"	15/16"	2,777 lbs

Sea-Dog Stainless Steel Asymmetrical Snaps

316 Stainless steel, the asymmetrical style provides approximately a 50% increase in breaking strength over traditional style snaps. Display packaged.



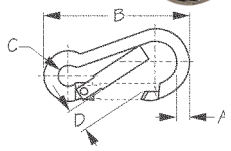


Part #	A	B	C	D	Breaking Strength
SED 150100-1	3/8"	4"	5/8"	11/16"	1,604 lbs
SED 150120-1	7/16"	4-5/8"	13/16"	15/16"	2,160 lbs

Sea-Dog Stainless Steel Key Lock Snap Hooks

316 stainless steel. Made in Italy. High quality with long gate opening. Suffix (-1) display packaged.



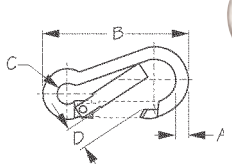


Part #	A	B	C	D	Breaking Strength
SED 151060-1	1/4"	2-3/8"	3/8"	3/8"	660 lbs
SED 151080-1	5/16"	3-1/8"	7/16"	7/16"	1,700 lbs
SED 151100-1	3/8"	4"	9/16"	5/8"	2,600 lbs
SED 151120-1	7/16"	4-3/4"	3/4"	11/16"	4,400 lbs
SED 151160	1/2"	6-5/16"	7/16"	1-1/8"	5,200 lbs

Sea-Dog Stainless Steel Key Lock Snap Hooks w/Eye Insert

316 stainless steel with eye insert. Made in Italy. High quality with long gate opening.





Part #	A	B	C	D	Breaking Strength
SED 151065	1/4"	2-3/8"	1/4"	3/8"	660 lbs
SED 151085	5/16"	3-1/8"	3/8"	7/16"	1,700 lbs
SED 151105	3/8"	4"	7/16"	9/16"	2,600 lbs
SED 151125	7/16"	4-3/4"	9/16"	11/16"	4,400 lbs

Wichard Stainless Steel Carbine Hooks

Carbine Hooks with torsion spring closures formed 17-4 PH stainless steel.



Standard



Asymmetric

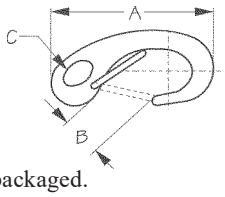


Eyeless

Part #	Stock	Length	'D' Dia	Breaking Load	Style
WIC 2313	1/4"	2-3/8"	5/16"	1,320 lbs	Standard
WIC 2315	5/16"	3-5/32"	11/32"	3,550 lbs	Standard
WIC 2316	13/32"	4"	1/2"	5,500 lbs	Standard
WIC 2323	1/4"	2-3/8"	5/16"	1,765 lbs	Asymmetric
WIC 2325	5/16"	3-5/32"	7/16"	3,750 lbs	Asymmetric
WIC 2326	13/32"	4"	1/2"	5,730 lbs	Asymmetric
WIC 2327	15/32"	4-5/8"	5/8"	9,925 lbs	Asymmetric
WIC 2333	1/4"	2-3/8"	13/32"	1,320 lbs	Eyeless

Sea-Dog Stainless Steel Spring Gate Hooks





Investment cast 316 stainless steel. Display packaged.

Part #	A	B	C
SED 154250-1	2"	7/16"	1/4"
SED 154270-1	2-3/4"	7/16"	3/8"
SED 154300-1	3-15/16"	15/16"	9/16"

Cruiser 316 Stainless Steel Snaps



CRU 200020	50 mm long
CRU 200018	70 mm long
CRU 200021	100 mm long

Transat Spring Hooks



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Length	Gate	Eye	Break Load
TMS S-8150-050	2"	7/16"	1/4"	400 lbs
TMS S-8150-050-P				
TMS S-8150-070	2-3/4"	15/32"	15/32"	1700 lbs
TMS S-8150-070-P				
TMS S-8150-100	4"	3/4"	19/32"	3000 lbs
TMS S-8150-100-P				

Wichard Snap Hooks



Hot drop forged standard snap hooks with torsion spring closure. 316L stainless steel.

Part #	Length	Eye Dia	Breaking Load
WIC 2480	2"	11/32"	660 lbs
WIC 2481	3"	15/32"	1,550 lbs
WIC 2482	4"	5/8"	3,300 lbs

Wichard Double Action Safety Snaps



The double action feature of this safety snap is easily operated with one hand. Yet absolutely will not open unless this deliberate action is taken. The eye will accommodate either rope or webbing.

Part #	Length	SWL lbs	Breaking Load	Colour
WIC 2454	4-7/32"	3300	6,150 lbs	Yellow
WIC 2455	4-7/32"	3300	6,150 lbs	Blue

Harken Snap Shackles



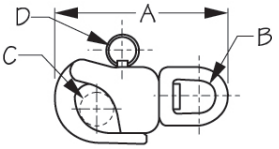
The 111, 112 and 1584 snap shackles fit a wide variety of blocks and make them removable. Many use a snap shackle on the lower vang block so that it can be moved from the mastbase to the toerail to use it as a preventer.

Part #	Pin	A	Work Load	Break Load
HAR 111 *	3/16"	2-9/16"	660 lbs	2,000 lbs
HAR 112 *	1/4"	3-3/8"	1,550 lbs	3,000 lbs

* Special Order

Sea-Dog Swivel Eye Snap Shackle



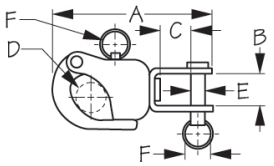


- Investment cast 316 stainless steel

Part #	A	B	C	D
SED 142700	2-11/16"	1/2"	9/16"	3/8"

Sea-Dog Toggle Snap Shackles





- Investment cast 316 stainless steel

Part #	A	B	C	D	E	F
SED 142702	2-11/16"	9/16"	3/8"	9/16"	1/4"	7/16"
SED 142902	3-5/16"	9/16"	9/16"	3/4"	1/4"	1/2"

Wichard Swivel Clevis Pin Snap Shackle "HR"



- Hot drop forged, extra strong 17-4 PH stainless
- A: 21mm x B: 11.5mm x Pin: 8mm

WIC 2295

Wichard Fixed Eye Snap Shackles



Hot drop forged, extra strong 316L stainless steel fixed eye snap shackle.

Part #	Length	A	B	Break Load
WIC 2470	1-3/8"	5/16"	1/4"	880 lbs
WIC 2471	2"	5/8"	13/32"	4,450 lbs

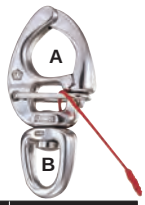
Gloma Snap Shackles with Ring



- Body is AISI 316 stainless steel
- Pin is high resistance for a better performance
- P = Packaged, 1 per

Part #	A	B	C	Work Load	Break Load
GLO 1101	2-3/4"	5/8"	1/2"	2354 lbs	2794 lbs
GLO 1101-P					
GLO 1102	3-5/16"	7/8"	5/8"	3476 lbs	4136 lbs
GLO 1102-P					

Wichard Quick Release Snap Shackles "HR"



Use these high quality quick release shackles for any application where releasing under load is required. Ideal for spinnaker handling and towing.

Part #	Length	A	B	Function	Break Load
S/S Torsion Snap Shackle					
WIC 2673	2-3/4"	9/16"	11/32"	2,425 lbs	3,350 lbs
WIC 2674	3-5/32"	5/8"	15/32"	3,525 lbs	5,100 lbs
WIC 2675	3-17/32"	25/32"	1/2"	4,400 lbs	7,100 lbs
S/S Torsion Snap Shackle with Large Bail					
WIC 2774	3-1/2"	5/8"	29/32"	3,525 lbs	5,100 lbs
WIC 2775	4-5/16"	3/4"	1-1/32"	4,400 lbs	7,100 lbs

Wichard Large Bail Snap Shackles "HR"



Superior steel product, hot forged from 17-4 PH stainless steel. In the event of extreme stress, will deform long before breaking. Will not burst or break suddenly.

Part #	Length	A	B	Function	Break Load
WIC 2373	3-1/8"	5/8"	3/4"	2,645 lbs	4,450 lbs
WIC 2375	4-1/8"	13/16"	1-1/32"	3,525 lbs	8,490 lbs
WIC 2377	5-1/2"	1-1/32"	1-3/8"	8,820 lbs	17,600 lbs

Wichard Swivel Eye Snap Shackles "HR"



Hot drop forged, extra strong 17-4 PH stainless steel snap shackles with swivel eye.

Part #	Length	Eye Dia	Breaking Load
WIC 2473	2-3/4"	7/16"	4,850 lbs
WIC 2475	3-1/2"	9/16"	8,490 lbs
WIC 2477	4-3/4"	1-3/16"	17,600 lbs

Wichard Snap Shackles w/Clevis Pins "HR"



Same as 2300 series, except with clevis pin shackle instead of eye fitting. Stainless steel.

Part #	L	A	B	C	Dia D	Break Load
WIC 2474	2-3/4"	5/8"	15/32"	19/32"	1/4"	3750 lbs
WIC 2476	3-7/8"	13/16"	11/16"	15/32"	9/32"	8550 lbs

Transat Swivel Snap Shackles

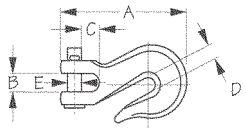


- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Size	Length	Break Load
TMS S-8291-12	1/2"	2-3/4"	3,000 lbs
TMS S-8291-12-P			
TMS S-8291-16	5/8"	3-1/2"	6,000 lbs
TMS S-8291-16-P			
TMS S-8291-22	7/8"	5"	8,300 lbs
TMS S-8291-22-P			

Sea-Dog Clevis Grab Hooks



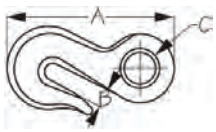


- Cast 316 stainless steel

Part #	Chain	A	B	C	D	E
SED 146706	1/4"	3-1/8"	7/16"	1/2"	3/8"	5/16"
SED 146708	5/16"	3-3/4"	1/2"	9/16"	7/16"	7/16"
SED 146710	3/8"	4-1/4"	9/16"	5/8"	1/2"	1/2"
SED 146712	1/2"	5-5/8"	11/16"	13/16"	5/8"	5/8"

Sea-Dog Eye Grab Hook





- Cast 316 stainless steel

Part #	A	B	C	Break Strength
SED 146738	3-1/2"	5/16"	9/16"	7,000 lbs

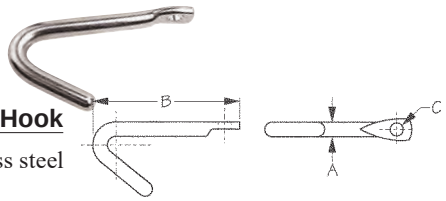
Pilkington Tow Hooks



- Drop-forged, tempered alloy hooks
- Part # refers to shank diameter

Part #	Eye	WL	Opening
WES 1"	7/8"	6,000 lbs	2-1/4"
WES 1-1/8"	1"	8,500 lbs	2-1/2"
WES 1-1/4"	1-1/8"	11,000 lbs	2-3/4"

Sea-Dog Lashing Hook

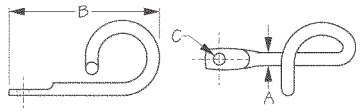


- Formed 304 stainless steel
- Display packaged

Part #	A	B	C
SED 195210-1	5/16"	2-3/4"	1/4"

Sea-Dog Main Sail Hook



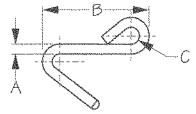


- Formed 304 stainless steel
- Display packaged

Part #	A	B	C	Fastener
SED 195410-1	5/16"	3-3/4"	1/4"	1/4" RH

Sea-Dog Cunningham Hook



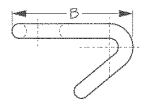


- Formed 304 stainless steel
- Display packaged

Part #	A	B	C
SED 195110-1	1/4"	2-9/16"	7/16"

Sea-Dog Reefing Hooks



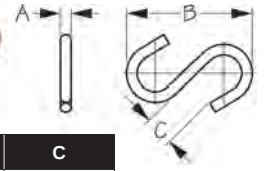


- 304 stainless steel
- Display packaged

Part #	A	B	C
SED 195310-1	5/16"	2-1/2"	1/2"
SED 195320-1	3/8"	3-1/2"	1/2"

Sea-Dog S-Hook



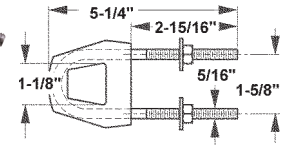


- 304 stainless steel
- Display packaged

Part #	A	B	C
SED 198105-1	3/16"	2-3/16"	5/8"

Sea-Dog Twin Shank Bow Eye





U-Bolt surrounds cast eye for added strength. Die-cast zinc chrome plated. 1-5/8" stud spacing.

SED 079233-1

Wichard Water-Tight U-Bolts



High quality stainless steel U-bolt with water-tight rubber collar means no leaks, no noise and no vibration. Eliminates the need for messy silicone sealers in most applications.

Part #	Stock	Length	ID	Colour
WIC 65321	3/16"	2-3/8"	13/16"	Black
WIC 65331	1/4"	2-3/4"	15/16"	Black
WIC 65332	1/4"	2-3/4"	15/16"	White
WIC 65441	5/16"	3-15/16"	1"	Black

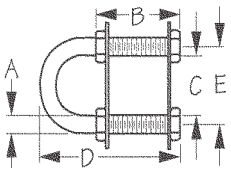
Sea-Dog Bow Eyes

Machined AISI 304 S/S.

- Suffix (-1) display packaged

Part #	Thread	A	B	C	D	E
SED 080031	3/8 NC	3/8"	1-1/2"	1-1/16"	2-7/8"	1-7/16"
SED 080031-1	3/8 NC	3/8"	1-1/2"	1-1/16"	2-7/8"	1-7/16"
SED 080033	3/8-NC	3/8"	2-1/2"	1-1/16"	3-15/16"	1-7/16"
SED 080033-1	3/8-NC	3/8"	2-1/2"	1-1/16"	3-15/16"	1-7/16"
SED 080035-1	3/8 NC	3/8"	3-1/2"	1-1/16"	4-15/16"	1-7/16"
SED 080036-1	3/8 -NC	3/8"	4-1/4"	1-1/16"	5-11/16"	1-7/16"
SED 080055	1/2-NC	7/16"	3-1/2"	1-3/8"	5-5/16"	1-7/8"
SED 080055-1	1/2-NC	7/16"	3-1/2"	1-3/8"	5-5/16"	1-7/8"
SED 080085-1	1/2-NC	1/2"	3-7/16"	1-3/8"	5-5/16"	1-7/8"
SED 080095	5/8-NC	5/8"	5-1/2"	1-5/16"	8"	1-15/16"



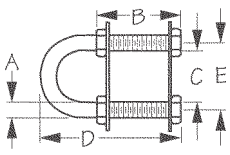


Sea-Dog Stern Eyes

Machined 304 stainless steel. Adjustable finished nuts. Backing plates and nuts included.

Part #	Thread	A	B	C	D	E
SED 080135-1	3/8- NC	3/8"	3-1/2"	1-1/16"	4-15/16"	1-7/16"
SED 080155-1	1/2-NC	7/16"	3-1/2"	1-3/8"	5-5/16"	1-7/8"
SED 080187-1	1/2 NC	1/2"	4-3/4"	1-3/8"	6-5/8"	1-7/8"



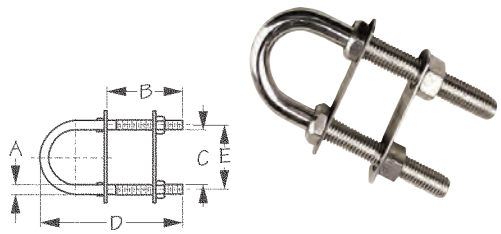


Sea-Dog Stainless Steel U-Bolts

Crimped ears. Metric thread. 1" diameter eye.

- Suffix (-1) display packaged

Part #	A	B	C	D	E
SED 080253-1	5 mm	1-3/8"	1"	2-5/8"	1-3/16"
SED 080265-1	6 mm	1-7/8"	1-1/16"	3-3/16"	1-5/16"
SED 080285-1	8 mm	2"	1"	3-5/16"	1-5/16"
SED 080288-1	8 mm	3-1/8"	1"	4-1/2"	1-5/16"

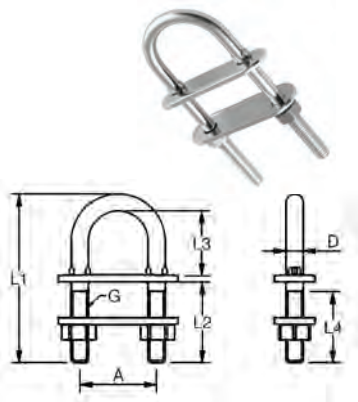


Blue Wave U-Bolts

Highly polished AISI 316 stainless steel construction.

Part #	G	A	D	L1	L2	L3	L4	Break
BLU 340435	M4	1-3/16"	5/32"	2-19/32"	1-3/8"	31/32"	1-3/16"	1,653 lbs
BLU 340535	M5	1-3/16"	3/16"	2-5/8"	1-3/8"	31/32"	1-3/16"	1,984 lbs
BLU 340635	M6	1-5/16"	7/32"	2-5/8"	1-3/8"	1-1/32"	1-3/16"	2,756 lbs
BLU 340650	M6	1-5/16"	7/32"	3-5/16"	1-31/32"	1-1/32"	1-3/16"	2,756 lbs
BLU 340835	M8	1-5/16"	9/32"	2-25/32"	1-3/8"	1-1/32"	1-3/16"	3,858 lbs
BLU 340850	M8	1-5/16"	9/32"	3-3/8"	1-31/32"	1-1/32"	1-3/16"	3,858 lbs
BLU 340880	M8	1-19/64"	9/32"	4-9/16"	3-9/64"	1-1/64"	1-25/32"	3,858 lbs
BLU 341045	M10	1-9/16"	13/32"	3-3/4"	1-25/32"	1-9/16"	1-9/16"	7,716 lbs
BLU 341060	M10	1-37/64"	25/64"	4-21/64"	2-23/64"	1-37/64"	1-3/8"	7,716 lbs
BLU 341010	M10	1-37/64"	25/64"	5-29/32"	3-15/16"	1-37/64"	3-11/32"	7,716 lbs

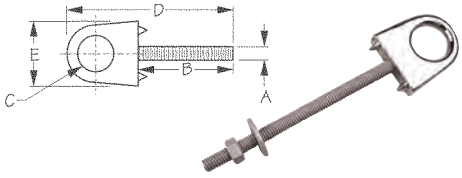
All Blue Wave 'U' bolts have metric threads



Sea-Dog Bow Eyes

Die cast chrome plated zinc head. Nut and washer included.

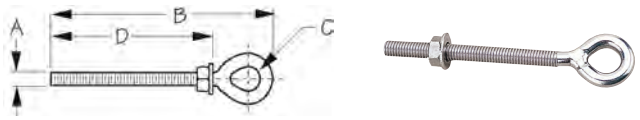
Part #	A	B	C	D	E
SED 079133-1	3/8-N/C	3-1/6"	15/16"	5-1/8"	1-13/16"
SED 079135-1	3/8-N/C	4-5/8"	15/16"	6-5/8"	1-13/16"



Sea-Dog Eye Bolt

Machined 304 stainless steel

Part #	A	B	C	D
SED 080710-1	10 mm	5-5/8"	13/16"	3-1/2"

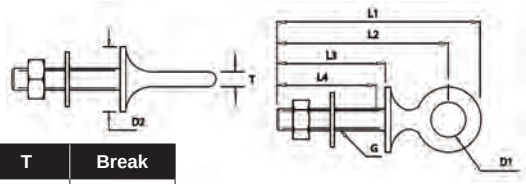


Blue Wave Welded Eye Bolts

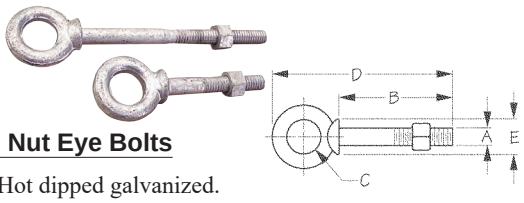
- Highly polished AISI 316 stainless steel construction

Part #	G	D1	D2	L1	L2	L3	L4	T	Break
BLU 370630	M6	31/32"	33/64"	2-1/4"	1-13/16"	1-3/16"	1-3/16"	3/16"	2,646 lbs
BLU 370650	M6	17/32"	63/64"	2-31/32"	2-35/64"	1-32/32"	1-31/32"	13/64"	2,646 lbs
BLU 370660	M6	31/32"	33/64"	3-7/16"	3"	2-3/8"	2-3/8"	3/16"	2,646 lbs
BLU 370835	M8	31/32"	19/32"	2-19/32"	2-3/32"	1-3/8"	1-3/8"	15/64"	4,850 lbs
BLU 370880	M8	31/32"	19/32"	4-11/32"	3-27/32"	3-5/32"	2-15/16"	15/64"	4,850 lbs
BLU 371050	M10	1-3/16"	5/8"	3-11/32"	2-3/4"	1-31/32"	1-31/32"	9/32"	7,716 lbs
BLU 371000	M10	1-3/16"	5/8"	5-5/16"	4-23/32"	3-15/16"	3-3/4"	9/32"	7,716 lbs
BLU 371210	M12	1-3/16"	23/32"	5-1/2"	4-7/8"	3-15/16"	3-11/32"	11/32"	9,921 lbs
BLU 371216	M12	1-3/16"	23/32"	7-7/8"	7-1/4"	6-5/16"	3-11/32"	11/32"	9,921 lbs

All Blue Wave eye bolts have metric threads







Sea-Dog Galvanized Nut Eye Bolts

Forged steel. Hot dipped galvanized.

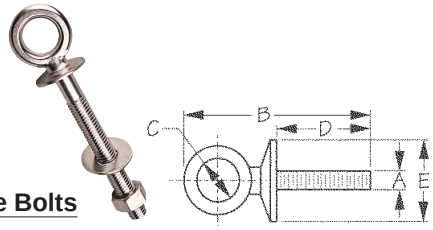
Part #	A	B	C	D	E
SED 080812	1/4"	2"	1/2"	3-1/16"	9/16"
SED 080822	5/16"	2-5/16"	9/16"	3-9/16"	5/8"
SED 080832	3/8"	2-7/16"	11/16"	3-15/16"	11/16"
SED 080834	3/8"	4-1/4"	11/16"	6-1/16"	11/16"
SED 080843	1/2"	3-1/4"	15/16"	5-1/8"	1"
SED 080846	1/2"	5-7/8"	15/16"	7-13/16"	1"
SED 080854	5/8"	4-1/8"	1-1/4"	6-9/16"	1-1/4"
SED 080856	5/8"	6"	1-1/4"	8-5/16"	1-1/4"
SED 080864	3/4"	4-3/8"	1-7/16"	7-3/8"	1-1/2"
SED 080866	3/4"	6-1/16"	1-7/16"	9"	1-1/2"



Wichard Stainless Steel Eye Bolts

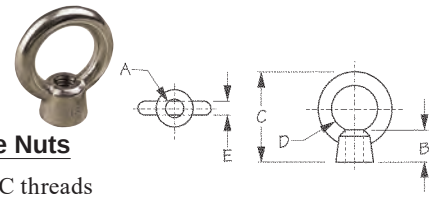
Made of drop forged 316L stainless steel. Metric thread.

Part #	Shank Dia. x Length	Eye Dia	Breaking Load
WIC 6490	1/4" x 1-9/16"	15/32"	2000 lbs
WIC 6491	1/4" x 2-3/8"	15/32"	2000 lbs
WIC 6492	5/16" x 3-5/32"	9/16"	3300 lbs
WIC 6493	5/16" x 4"	9/16"	3300 lbs
WIC 6495	13/32" x 4"	5/8"	6000 lbs
WIC 6497	15/32" x 4-3/4"	11/16"	7750 lbs



Sea-Dog Stainless Steel Eye Bolts

Part #	A	B	C	D	E
SED 080463-1	6mm	2-3/16"	1/2"	1-1/8"	1"
SED 080466-1	6mm	3-3/8"	1/2"	2-5/16"	1"
SED 080483-1	8mm	2-9/16"	9/16"	1-5/16"	1"
SED 080488-1	8mm	4-5/16"	5/8"	3"	1"
SED 080495-1	10mm	3-3/8"	5/8"	1-15/16"	1-3/16"
SED 080499-1	10mm	5-3/8"	5/8"	3-15/16"	1-3/16"
SED 080504-1	12mm	5-1/2"	3/4"	3-15/16"	1-3/16"
SED 080506-1	12mm	7-7/8"	3/4"	6-5/16"	1-3/16"



Sea-Dog Stainless Steel Eye Nuts

- 316 stainless steel. NC threads

Part #	A	B	C	D	E
SED 078106	1/4"	7/16"	1-1/4"	5/8"	3/16"
SED 078106-1	1/4"	7/16"	1-1/4"	5/8"	3/16"
SED 078108	5/16"	9/16"	1-1/2"	13/16"	1/4"
SED 078108-1	5/16"	9/16"	1-1/2"	13/16"	1/4"
SED 078110	3/8"	5/8"	1-7/8"	1"	5/16"
SED 078110-1	3/8"	5/8"	1-7/8"	1"	5/16"
SED 078112	1/2"	7/8"	2-3/8"	1-3/16"	3/8"
SED 078112-1	1/2"	7/8"	2-3/8"	1-3/16"	3/8"

-1 Denotes display packaged

Sea-Dog Galvanized Rings

- Galvanized steel



Part #	Stock Diameter	Inside Diameter
SED 192415	1/4"	1-1/2"
SED 192420	1/4"	2"
SED 192520	5/16"	2"
SED 192625	3/8"	2-1/2"
SED 192630	3/8"	3"
SED 192830	1/2"	3"
SED 192840	1/2"	4"
SED 192940	5/8"	4"

Sea-Dog Stainless Steel Rings

- 304 stainless steel



Part #	Stock Dia	Inside Dia
SED 191207	1/8"	3/4"
SED 191307	3/16"	3/4"
SED 191310	3/16"	1"
SED 191312	3/16"	1-3/16"
SED 191410	1/4"	1"
SED 191412	1/4"	1-1/4"
SED 191415	1/4"	1-1/2"
SED 191512	5/16"	1-1/4"
SED 191515	5/16"	1-1/2"
SED 191517	5/16"	1-3/4"
SED 191520	5/16"	2"
SED 191522	5/16"	2-1/4"
SED 191625	3/8"	2-1/2"
SED 191632	3/8"	3-1/4"

Sea-Dog Nylon Rings



- White, injection molded nylon

SED 190570 3/8" diameter with a 2" opening
SED 190579 1/4" diameter with a 1" opening

Sea-Dog Bronze Ring



- Die cast manganese bronze
- Inside diameter: 3/16"
- Outside diameter: 1-1/16"

SED 192027

Sea-Dog Stainless Steel D-Rings



- 304 stainless steel, 1/4" stock diameter

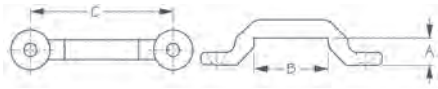
SED 191840 1-1/2"
SED 191841 2"

Transat Stainless Stainless Steel D-Rings



- 1", 304 stainless steel, 3/16" stock diameter

TMS S-469-0525 Bulk
TMS S-469-0525-P 1/Pkg

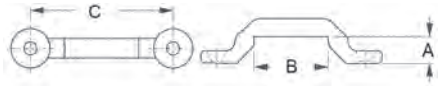


Sea-Dog Tie Down Eye Strap



- Chrome plated forged bronze wire
- Use #10 FH fasteners

Part #	A	B	C	Pkg
SED 081252-1	3/8"	2"	3-1/8"	2/pk



Sea-Dog Tie Down Eye Straps



- Forged 304 stainless
- Use #10 FH fasteners

Part #	A	B	C	Pkg
SED 081261	3/8"	1-1/16"	2-1/8"	1, bulk
SED 081261-1	3/8"	1-1/16"	2-1/8"	2/pk
SED 081265	3/8"	1-3/8"	2-1/4"	1, bulk
SED 081265-1	3/8"	1-3/8"	2-1/4"	2/pk



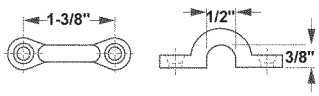
Wichard Webbing Eye Strap



5/32" diameter 316L stainless steel with a perfect finish for low wear on webs and ropes.

- Use #8 fasteners

WIC 9211

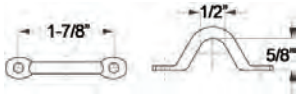


Sea-Dog Plastic Pad Eyes



- Injection molded nylon pad eye

SED 081310-1 Black (5/pkg)
SED 081311-1 White (5/pkg)



Sea-Dog Pad Eye



- Higher profile than standard pad eyes
- 304 stainless steel
- Use 1/4" FH fasteners

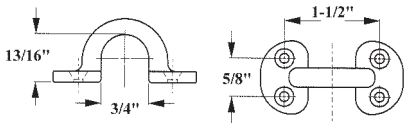
SED 081220-1 pair

Sea-Dog Pad Eye



- Investment cast 316 stainless steel
- Pads are flat topped, not countersunk for FH fasteners
- Use 3/16" pop rivets

SED 081850



Sea-Dog Polished Cast Pad Eye



- 2/pkg, use #8 FH screws

SED 081280-1

Transat Stainless Pad Eye



- 316 stainless steel

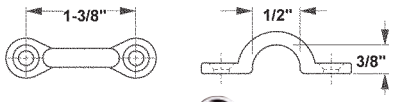
TMS Q32101 9.5mm

Gloma Eye Straps



- Forged 316 stainless steel
- P = Packaged, 1 per

Part #	Inside Width	Inside Height	Hole Size
GLO 702	3/8"	1/2"	3/16"
GLO 702-P	3/8"	1/2"	3/16"
GLO 703	1/2"	9/16"	1/4"
GLO 703-P	1/2"	9/16"	1/4"
GLO 704	5/8"	3/4"	5/16"
GLO 704-P	5/8"	3/4"	5/16"



Sea-Dog Pad Eye



- Die cast zinc chrome plated
- Use #8 FH fasteners

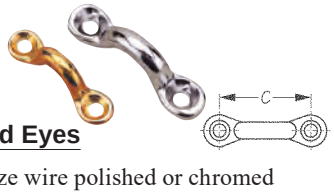
SED 081242-1 5/pkg

Wichard Eye Straps



- High strength forged stainless steel

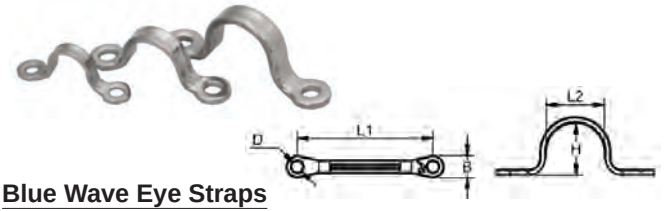
Part #	Length	Inside	Height	Max Load
WIC 9201	1-3/16"	5/16"	7/16"	880
WIC 9202	1-7/8"	13/32"	1/2"	1,760
WIC 9203	2-1/8"	15/32"	5/8"	2,425
WIC 9204	2-3/8"	5/8"	13/16"	6,170



Sea-Dog Pad Eyes

- Forged bronze wire polished or chromed
- Use #10 fasteners
- Suffix (-1) display packaged

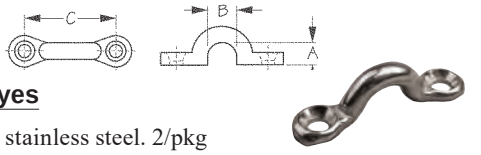
Part #	A	B	C	Finish
SED 081270	5/16"	3/8"	1-3/8"	Bronze
SED 081270-1	2 Per card			
SED 081271	3/8"	1/2"	1-9/16"	Bronze
SED 081275	5/16"	3/8"	1-3/8"	Chrome
SED 081275-1	2 Per card			
SED 081276	3/8"	1/2"	1-9/16"	Chrome



Blue Wave Eye Straps

- High polished AISI 316 stainless steel construction

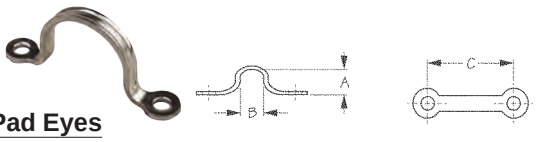
Part #	D	B	L1	L2	H
BLU 150401	5/32"	11/32"	1-1/8"	7/16"	15/32"
BLU 155102	3/16"	7/16"	1-13/32"	19/32"	9/16"
BLU 155203	7/32"	15/32"	1-23/32"	25/32"	3/4"
BLU 155304	7/32"	13/32"	2-15/32"	1-1/8"	1-1/8"
BLU 156205	1/4"	9/16"	2-5/8"	1-1/4"	1-5/16"



Sea-Dog Pad Eyes

- Forged AISI 304 stainless steel. 2/pkg

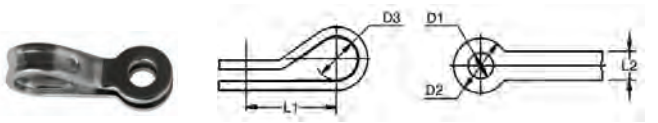
Part #	A	B	C	Fastener
SED 081200-1	5/16"	3/8"	1-3/8"	#8 FH
SED 081205-1	3/8"	1/2"	1-5/8"	#10 FH



Sea-Dog Pad Eyes

- Stamped stainless steel pad eye
- Suffix (-1) display packaged

Part #	A	B	C	Fastener	Pkg
SED 081101-1	7/16"	7/16"	1-1/8"	#8	4
SED 081102-1	1/2"	9/16"	1-3/8	#10	4
SED 081103	3/4"	3/4"	1-3/4"	#10	1
SED 081103-1	3/4"	3/4"	1-3/4"	#10	2



Blue Wave Strap Eyes

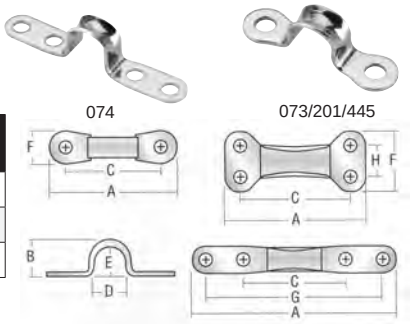
- High polished AISI 316 stainless steel construction

Part #	D1	D2	D3	L1	L2	BL/lbs
BLU 150404	5/32"	11/32"	9/32"	19/32"	3/16"	1,102
BLU 150505	3/16"	7/16"	13/32"	15/16"	9/32"	2,205

Harken Eye Straps

- 316 stainless steel

Part #	A	B	C	D	E	F	Fastener	Break Strength
HAR 073NP	1-11/16"	1/2"	1-1/4"	7/16"	3/8"	7/16"	#10	1600 lbs
HAR 074	3-1/4"	3/4"	1-1/2"	5/8"	5/8"	9/16"	1/4"	4000 lbs
HAR 201NP	1-7/8"	3/8"	1-1/2"	9/16"	1/4"	7/16"	#10	1600 lbs

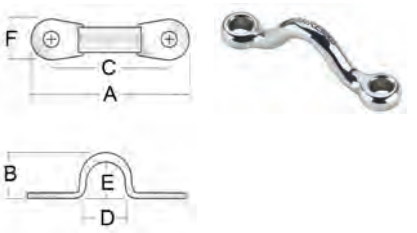


Harken Forged Eye Straps

- 316 stainless steel

Eyestraps are useful accessories, performing duty as lashdown points, fairleads and light duty mounting bases for blocks. Harken forged eyestraps are extremely strong, and their rounded shape will not chafe line.

Part #	A	B	C	D	E	F	Fastener	Break Strength
HAR 2133	1-13/16"	3/4"	1-1/2"	3/8"	9/16"	3/8"	#10	2500 lbs



Transat Stainless 2-Hole Pad Eyes



- 304 stainless steel

Part #	Loop Gauge	Base
TMS S-8030-05	3/16"	1-25/32" x 14/32"
TMS S-8030-05-P		
TMS S-8030-06	1/4"	2-11/32" x 25/32"
TMS S-8030-06-P		
TMS S-8030-08	5/16"	3-1/8" x 1"
TMS S-8030-08-P		

Suffix (-P) indicates display package.

Transat Stainless 4-Hole Pad Eyes

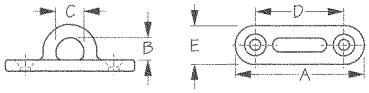


- 304 stainless steel

Part #	Loop Gauge	Base
TMS S-8020-05	3/16"	1-11/32" x 1-3/16"
TMS S-8020-05-P		
TMS S-8020-06	1/4"	1-19/32" x 1-11/32"
TMS S-8020-06-P		
TMS S-8020-08	5/16"	1-31/32" x 1-17/32"
TMS S-8020-08-P		

Suffix (-P) indicates display package.

Sea-Dog Oblong Eye Plates

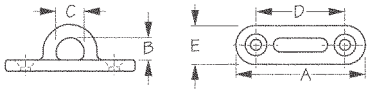




- Investment cast 316 stainless steel

Part #	A	B	C	D	E	Fastener
SED 088721	3"	1/2"	5/8"	2-1/16"	7/8"	1/4" FH
SED 088722	3-1/2"	5/8"	13/16"	2-9/16	1-3/16"	5/16" FH
SED 088723	4"	3/4"	7/8"	2-15/16"	1-3/8"	5/16" FH

Transat Stainless Oblong Pad Eyes

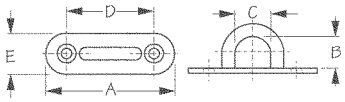




- 304 stainless steel

Part #	A	B	C	D	E	Fastener
TMS Q69211	3"	1/2"	7/16"	2-1/4"	3/4"	1/4" FH
TMS Q69212	3-1/2"	7/16"	7/8"	2-7/16"	1-1/4"	5/16" FH
TMS Q69213	4"	3/4"	15/16"	3"	1-3/8"	5/16" FH

Sea-Dog Oblong Eye Plates

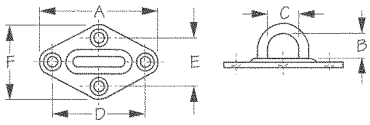




- Stamped 304 stainless steel
- Suffix (-1) display packaged

Part #	A	B	C	D	E	Fastener
SED 089701	2-1/8"	1/2"	5/8"	1-1/2"	5/8"	#10 RH
SED 089701-1	2-1/8"	1/2"	5/8"	1-1/2"	5/8"	#10 RH
SED 089702-1	2-9/16"	5/8"	3/4"	1-13/16"	3/4"	#12 RH
SED 089703-1	3-3/16"	13/16"	7/8"	2-3/16"	15/16"	1/4" RH
SED 089704-1	3-15/16"	7/8"	7/8"	2-7/8"	1-1/4"	5/16" RH

Transat Stainless Diamond Pad Eyes



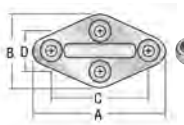


- 304 stainless steel

Part #	A	B	C	D	E	F	Fastener
TMS Q69214	3-1/8"	7/16"	3/4"	2-3/8"	1-1/4"	2"	1/4" FH
TMS Q69215	3-1/2"	1/2"	7/8"	2-5/8"	1-3/8"	2-3/16"	1/4" FH
TMS Q69216	3-15/16"	5/8"	1"	3-1/16"	1-9/16"	2-3/8"	1/4" FH

Harken Diamond Pad Eyes

Pad eyes are great for mounting blocks and are also used as attachment points for staysails, reefing blocks, and hundreds of other items. The diamond shaped padeyes are 316 stainless and are often used at mast bases where the diamond shape allows them to be mounted very close together.



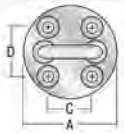


688





689

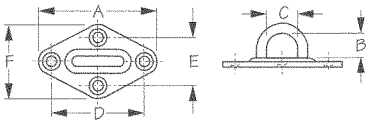




627, 648, 629

Part #	A	B	C	D	E	F	G	Max SWL	Max Breaking
HAR 627	2-1/4"	-	1-1/16"	1-3/16"	1-3/16"	5/8"	1-5/16"	4,500 lbs	9,000 lbs
HAR 629	3-3/4"	-	1-3/4"	1-7/8"	2"	1-1/16"	1-3/4"	12,000 lbs	24,000 lbs
HAR 648	3"	-	1-5/16"	1-9/16"	1-15/16"	1-1/8"	1-7/16"	8,500 lbs	20,750 lbs
HAR 688	3-1/8"	2"	2-3/8"	1-1/4"	1-3/16"	9/16"	7/8"	5,000 lbs	10,000 lbs
HAR 689	3-7/8"	2-5/16"	2-7/8"	1-3/8"	1-9/16"	7/8"	1-1/16"	8,000 lbs	17,200 lbs

Sea-Dog Diamond Pad Eyes

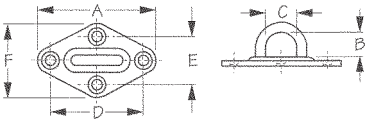




- Investment cast 316 stainless steel

Part #	A	B	C	D	E	F	Fastener
SED 088621	3-1/8"	7/16"	3/4"	2-3/8"	1-1/4"	2"	1/4" FH
SED 088622	3-1/2"	1/2"	7/8"	2-5/8"	1-3/8"	2-3/16"	1/4" FH
SED 088623	3-15/16"	5/8"	1"	3-1/16"	1-9/16	2-3/8"	1/4" FH

Sea-Dog Diamond Pad Eyes

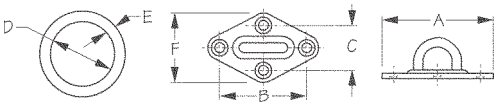




- Stamped 304 stainless steel
- Suffix (-1) display packaged

Part #	A	B	C	D	E	F	Fastener
SED 089601-1	2-5/16"	1/2"	9/16"	1-13/16"	15/16"	1-7/16"	#8 FH
SED 089602-1	2-1/2"	5/8"	3/4"	2"	1-1/16"	1-9/16"	#8 FH
SED 089603-1	3-3/16"	7/8"	7/8"	2-9/16"	1-5/16"	1-15/16"	#10 FH

Sea-Dog Eye Plates w/Ring





- Stamped 304 stainless

Part #	A	B	C	D	E	F	Fastener
SED 089612	2-1/2"	2"	1-1/16"	1-5/16"	1/4"	1-9/16"	#8 FH
SED 089613	3-3/16"	2-9/16"	1-5/16"	1-3/4"	5/16"	1-5/16"	#10 FH

Wichard Toe Rail Pad Eyes

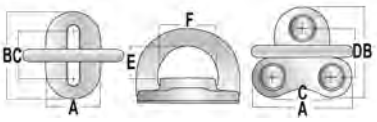
Toe rail pad eyes are designed to protect toe rails by spreading the load and reducing nicks and dents. Can be fastened securely to the toe rail. Unscrewing the unit part way allows it to slide, unscrew totally to remove. Styles to fit asymetrical or standard toe rails.



Number	Rail	Rail Dia. Min-Max	Rail Wall Min-Max	Dia.	Function lbs.	Break Load
WIC 16614	Asymmetric	3/8" - 1/2"	5/64" - 3/16"	9/16"	2650	6,650 lbs

Harken Diamond Pad Eyes

Folding padeyes keep your deck and passageways clear. They're ready when you need to attach a snatch block or fender, but fold safely out of the way when you don't.





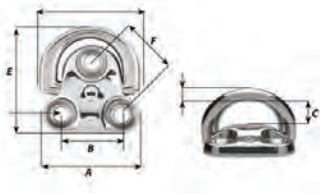
3206



3207

Part #	A	B	C	D	E	F	Max SWL	Max Breaking
HAR 3206	1"	1-5/8"	7/8"	-	19/32"	1-1/8"	1,760	3,520 lbs
HAR 3207	1-7/8"	1-5/8"	1-1/8"	15/16"	19/32"	1-1/8"	3,080	6,160 lbs

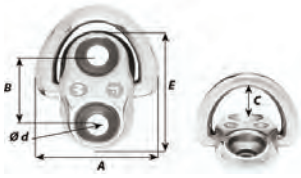
Wichard Folding Pad Eyes

High strength forged 316L stainless steel.
Pad eyes fold down compactly when not in use.
- Includes silicone pad
- ISO 15085 compliant
- Fasteners: 6604 = 1/4", 6605 = 5/16", 6606 = 3/8"

Part #	A	B / F	C	E	Breaking Load
WIC 6604	1-49/64"	1-1/16"	9/16"	1-39/64"	6,610 lbs
WIC 6605	2-1/4"	1-3/8"	3/4"	2-1/64"	11,020 lbs
WIC 6606	2-61/64"	1-49/64"	1"	2-43/64"	19,840 lbs

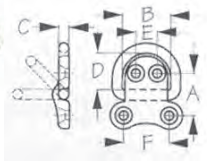
Wichard Universal Folding Pad Eye



- Dropforged 316L stainless steel
- Folds down when not in use
- Includes silicone pad
- Fasteners: 1/4"

Part #	A	B	C	E	Breaking Load
WIC 6684	1-37/64"	59/64"	19/32"	1-37/64"	3,520 lbs

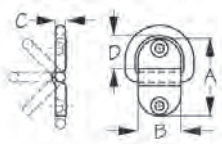
Sea-Dog Folding D-Rings

- 4-hole fastener
- 316 stainless steel base/17-4PH D-ring
- Use 1/4" FH fasteners

Part #	A	B	C	D	F	Break Strength
SED 048620-1	1-3/16"	1-3/8"	1/4"	1"	1-1/4"	4,000 lb
SED 048625-1	1-9/16"	1-15/16"	3/8"	1-1/2"	1-7/8"	6,000 lb

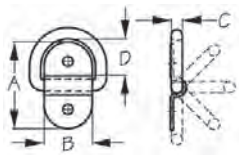
Sea-Dog Folding D-Rings

- 2-hole fastener
- 316 stainless steel base/17-4PH D-ring

Part #	A	B	C	D	Fastener
SED 048610-1	2-1/8"	1-3/16"	1/4"	7/8"	1/4" RH
SED 048615-1	2-9/16"	1-3/4"	1/4"	1"	3/8" RH

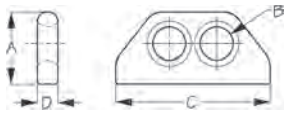
Sea-Dog Pad Eyes

- 304 stainless steel folding pad eyes

Part #	A	B	C	D	Fastener
SED 090125-1	1-3/32"	1/2"	1/8"	7/16"	#8 RH
SED 090145-1	2"	1-1/4"	1/4"	1"	1/4" RH
SED 090155-1	2-5/8"	1-1/2"	5/16"	1-3/16"	1/4" RH

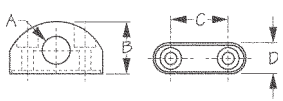
Sea-Dog Weldable Bow Eyes




- Cast aluminum

Part #	Style	A	B	C	D
SED 079710	Single	1-13/16"	13/16"	3-3/8"	9/16"
SED 079720	Double	1-13/16"	13/16"	3-15/16"	9/16"

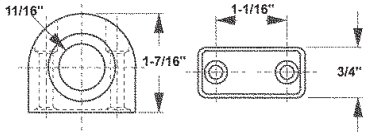
Sea-Dog Nylon Fairleads




- Injection molded nylon

Part #	A	B	C	D	Fastener
SED 082010	3/8"	3/4"	7/8"	7/16"	#8 RH
SED 082051	9/16"	1-1/8"	1"	11/16"	#10 RH
SED 082016	5/8"	1-1/4"	1-3/8"	13/16"	#12 RH

Sea-Dog Nylon Fairlead




- Injection molded nylon with a stainless steel insert

SED 082615

Wichard Fairlead



- Mount with just two screws
- For 18 mm rope

WIC 20320

Harken Bullseye Fairlead



Use where there is little deflection in the line such as when routing a spinnaker pole foreguy aft along the cabin house.
- 1-1/4" x 1-1/2"
- Use #10 RH fasteners

HAR 237

Johnson Marine Roller Furling Fairlead



- Phenolic bull's-eye
- Mounts on stanchions from 7/8" to 1"
- Allows control line to be located either inside or outside of stanchions

JHD 40-501

Sea-Dog Rail Mount Fairlead



- Injection molded nylon and stainless steel
- Allows easy routing of roller furling lines
- Stainless insert in fairlead
- Fits 7/8" - 1" tubing. 11/16" dia. eye

SED 327112-1

► Also See Guides pg 13-056 & 13-073

Life Safe Boot Tape



- Does not require un-stepping the mast
- It bonds itself into a solid piece of rubber offering protection against moisture
- It conforms to irregular surfaces and leaves no sticky residue

LIF RE3940 4" x 40", White

Life Safe Bimini Bandage Tape



- Excellent resistance to tearing in any direction
- Very aggressive adhesive
- Works on damp covers
- Transparent colour suitable on any cover
- Light weight and flexible

LIF RE3868 3" x 15'

Life Safe Sail Patch Tape



- Excellent resistance to tearing in any direction
- Very aggressive adhesive
- Works on damp sails
- Transparent colour suitable on any sail type
- Light weight and flexible

LIF RE3843 3" x 15'

► *Also See* Rescue Tape pg 02-136

► *Also See* Heat Shrink Tape pg 16-011

Forespar Nash Labels

These popular label sets are great for any racer or cruiser. Add safety and organization to your above and below deck systems. Remember, not everyone on board knows your boat as well as you do. These high quality labels are self-adhesive, vinyl plastic, waterproof and won't fade. Perfect for flat, round or irregular surfaces of metal, fibreglass or paint.



FRS 100014 201 Cleat & winch
FRS 100016 202 Control lines
FRS 100010 203 Track numbers
FRS 100013 206 Spar
FRS 100017 207 Racing flags



Spartite Mast Booting

The Spartite ring shrinks less than one thousandth of an inch and when installed properly will radically reduce or eliminate leaking at the partners. Spartite ensures secure and correct mast position in the partners all season and makes correct placement of the mast in the partners automatic whenever the mast is re-stepped. This is an exceptional feature for racers who trailer to regattas, sailors who remove their spars annually, and boats with unique rig placements. Spartite is a pre-measured two part polymer poured into the cavity between the mast and the partners while the mast is in the boat.

Each kit comes with complete instructions and materials for the yard or yacht owner to build a simple mold out of even the most complex partners or mast collar. Spartite makes a one piece perfect fitting mast chock that replaces archaic wedges.

Included:



- Pre-measured Spartite cans
- Modelling clay
- Foam support strips
- Pouring cup
- Stirring sticks
- Plastic gloves
- Petroleum jelly

Spartite 2000 is available in two kit sizes:
Kit I - Small covers up to 51 cubic inches and is recommended for sailboats to 40'.
Kit II - Large covers up to 102 cubic inches and is recommended for sailboats over 40'.

SPA 2000-KIT1 Small
SPA 2000-KIT2 Large



Forespar Twist Lock Tiller Extensions

The "TFP" style tiller extension is constructed of powder coated anodized aluminum with a rubber ball style comfortable grip and stainless steel end fittings. Forespar "twist-lock" style tiller extensions are designed to work in either direction, this design has the advantage that if you forget which way you "locked" the unit, you can "unlock" it without forcing it to jam. Racers and cruisers use this rugged twist-lock telescoping detachable extension on boats in the mid to high 30's. The all stainless steel "TFP" quick release end allows for full horizontal and vertical movement of the tiller extension and can be removed from the included receptical (104006) with the simple push of a button located on the top of the fitting.

FRS 104016 TFP-S 19" to 32"
FRS 104017 TFP-M 27" to 48"
Parts:
FRS 104006 Receptacle

Forespar Tiller Lock Box



This inexpensive product turns any of Forespar's ball-grip style telescoping tiller extensions into an effective and adjustable tiller lock. Installed into the cockpit coaming, your tiller extension can be used to lock your helm in place while at anchor or if you are single handed and need to jump free of the helm for a short time to clear a sheet or secure a line. Not intended to be a self-steering device but a helm lock.

- Cutout: W: 3-3/8" x H: 4-3/4" x D: 1-1/2"

FRS 100000



Forespar Fixed Twist Lock Tiller Extension

The "Sta-Fast" style patented end fitting has the unique ability to hold the tiller extension up-just where you left it- without falling down below the level of the tiller. No more falling down out of reach! This "holding" feature is adjustable on the permanently mounted "Sta-Fast" end. The "Sta-Fast" style end is very strong and also features a double plate mount that keeps the thru-bolt from turning inside your tiller. The plates mount top and bottom on the tiller and also serve as a chafe-guard for the top of the tiller. 5/16" thru bolt accommodates tiller thickness up to 1-1/2".

FRS 108101 SF-M 27" to 48"

Spinlock EJB Tiller Extensions







- Strong, lightweight anodised aluminium tube
- UV Resistant, extra tough
- Swivels freely through the full 360 degrees
- Spinflex holds tiller in helming position, 30 degrees above horizontal for fast, reactive helming
- Triple-wave handle gives a choice of secure grip positions
- Responsive 'feel' and precise helm control
- Less wrist and grip fatigue
- Black

SPI EJB/600B 24"
SPI EJB/900B 35-1/2"

Replacement Parts:
SPI EJB-CLIP Clip for extension
SPI EJB-JOINT Spinflex joint

Spinlock Tiller Extensions

The asymmetric extension improves helming performance, with more feedback for accurate and precise control, maintaining the best helming position for optimum trim and visibility. The two handed helming mode lets the arms relax into a more comfortable, elbows down position, resulting in less fatigue and increased concentration. The Parallel grip EJ has the same features of the Asymmetric, but with a smaller grip. The compact solution for the smaller cockpit and ideal for fast hiking and tacking.

- Push-button adjustment
- Torlon ball locking mechanism
- Stainless steel swivel joint for precise universal movement
- Fast pin for easy stowage
- Integrated shock absorber

Asymmetrical



- 29-5/8" - 47-1/4"

SPI EA/1200B Matte black
SPI EA/1200S Silver

- 23-5/8" - 35-7/16"

SPI EA/900B Matte black
SPI EA/900S Silver

Tiller Extension Service Kit



- Includes E-Button, E-Clip and E-Sleeve

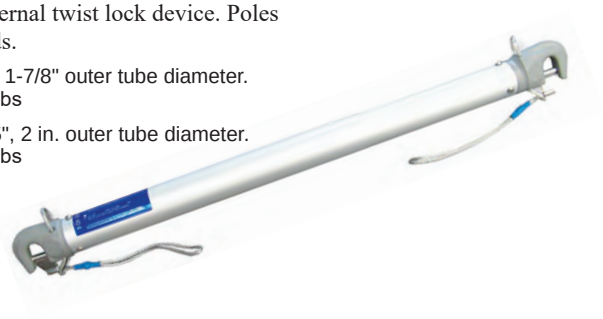
SPI E-KIT E-series
SPI EFASTPIN Swivel joint release pin

Forespar Heavy Duty Telescoping Whisker Poles

These telescoping whisker poles are heavy duty two section and three section aluminum spars which can be extended to lengths up to 15' and securely locked in position by an internal twist lock device. Poles feature self-latching Ultra Series fittings on the inboard and outboard ends.

FRS 406300 * HD 6-12-DL Two sections extending from 79" to 138", 1-7/8" outer tube diameter. With self-latching fittings on both ends/8 lbs

FRS 407101 * ADJ 7-15-DL Three sections extending from 83" to 165", 2 in. outer tube diameter. With self-latching fittings on both ends/9 lbs



Parts:
FRS 400009 Lock repair kit HD6-12
FRS 400010 Lock repair kit ADJ7-15
FRS 304015 ULTRAEF-3-S (inboard end fitting for HD6-12)
FRS 304018 ULTRAEF-5 (outboard end fitting for HD6-12 & 7-17)
FRS 304057 UEF-3 (Inboard end fitting for ADJ 7-15)

* Special Order

Forespar Line Control Whisker Poles



Line Control is a proven concept in telescoping whisker pole design and available only on Forespar Whisker Poles. Line Control poles are heavy duty two section aluminum spars which can be extended by simply un-cleating the line at the inboard end, extending or retracting the pole to the desired length and re-cleating the line. This adjustment process is quick and easy, even with the largest pole, and is executed with the operator positioned safely at the mast.

Part #	Model	End Fittings		Recommended Mast Fittings	Collapsed Length	Max Working Length	Tubing Diameters
		Inboard	Outboard				
FRS 401106 *	LC 10-18 EL-UXP	EL	UXP	PE-3SC, RC-125, FC-125	121.75"	218.13"	2" & 2-1/2"
FRS 401107 *	LC 10-18 EL-UTR	EL	UTR	PE-3SC, RC-125, FC-125	121.75"	218.13"	2" & 2-1/2"
FRS 402201 *	LC 12-22 UTS-UTR	UTS	UTR	T-125-S	148.50"	265.25"	2-1/2" & 3"
FRS 403202	LC 13-24 UTS-UTR	UTS	UTR	T-125-S	162.00"	272.00"	3" & 3-1/2"

* Special Order

Forespar Whisker Pole Sizing Chart

Boat Length	Working Jib		Genoa	
	Light to Mod. Air	Mod. To Heavy Air	Light to Mod. Air	Mod. To Heavy Air
Up to 16'	ADJ 4'-8'	ADJ 6'-12'	ADJ 6'-12'	HD 6'-12'
Up to 22'	ADJ 6'-12'	HD 6'-12'	HD 6'-12'	HD 6'-12'
Up to 25'	HD 6'-12'	HD 6'-12'	ADJ 7'-15'	ADJ 7'-15'
Up to 28'	AJD 7'-15'	ADJ 7'-15'	LC 10'-18'	LC 10'-18'
Up to 33'	LC 10'-18'	LC 10'-18'	LC 10'-18'	LC12'-22'
Up to 35'	LC 12'-22'	LC 12'-22'	LC 12'-22'	LC 13'-24'
Up to 46'	LC 13'-24'	LC 13'-24'	LC 13'-24'	LC 15'-27'
Up to 55'	LC 15'-27	LC 15'-27	LC 15'-27'	Custom

Forespar Telescoping Whisker Poles

Designed for boats up to 16 feet in length operating under most sail and wind conditions or boats up to 22 feet only under light wind conditions with a working jib. These telescoping models can be adjusted to any desired length within their range and securely locked in position with an effortless twist of the inner tube. There are two choices of outboard fittings; the original spike style (SE-1 on the 4-8 pole and SE-2 on the 6-12 pole) which is inserted thru the bowline knot at the jib clew or the latch style (EF-1 on the 4-8 pole and EF-2 on the 6-12 pole) which attaches over the jib sheet outboard of the knot so that the sheet can run free if necessary. All small poles include strong corrosion-free Lexan end fittings and a Mast Pad Eye with stainless steel screws.

Part #	Model	Ends	Telescopes	Diameter
FRS 404000 *	ADJ 4-8	Spike & Latch	53" to 93"	1"
FRS 404100 *	ADJ 4-8 DL	Latch & Latch	53" to 93"	1"
FRS 406000 *	ADJ 6-12	Spike & Latch	72" to 134"	1-1/4"
FRS 406100 *	ADJ 6-12-DL	Latch & Latch	72" to 134"	1-1/4"

Parts:

FRS 300026 Ends repair kit ADJ4-8
FRS 300027 Ends repair kit ADJ6-12
FRS 400006 Lock repair kit ADJ4-8
FRS 400008 Lock repair kit ADJ6-12
FRS 404011 Mast pad eye

* Special Order



404011



Forespar Offshore GP & UGPS Series End Fittings

FRS 304021	UGPS-300-EF	Ultra	3.0"
FRS 309030	GP-300-EF	Aluminum	3.0"
FRS 309033	GP-350-EF	Aluminum	3.5"



309030

Forespar Auto Socket End Fittings TS Style

FRS 304080	TS-300	Ultra	3.0"
FRS 309028 *	TS-300	Aluminum	3.0"
FRS 309031	TS-350	Aluminum	3.5"



309028

* Special Order

Forespar Ultra Series End Fittings

UTR Trigger Style Ends

FRS 304060	UTR-200-EF	Ultra	2.0"
FRS 304061	UTR-250-EF	Ultra	2.5"
FRS 304062	UTR-300-EF	Ultra	3.0"


304060

UXP External Trip Ends

FRS 304054	UXP-150-EF	Ultra	1.5"
FRS 304050	UXP-200-EF	Ultra	2.0"
FRS 304051	UXP-250-EF	Ultra	2.5"
FRS 304052	UXP-300-EF	Ultra	3.0"
FRS 304053	UXP-350-EF	Ultra	3.5"


304054

Forespar Exit Box

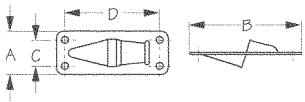
Use this exit on all trip lines and topping lifts. It is suitable for aluminum and ideal for carbon fibre poles as there is no metal to metal contact to promote corrosion. The axles are stainless steel molded into a strong Marelon cheek with no moving parts.

- Maximum line size: 1/4"
- Uses two 3/16" flat head fasteners.
- Flange size: 3-1/4" L x 7/8" W
- Cut-out size: 2" x 11/16"

FRS 030016







Sea-Dog Exit Plate

Exit plates are used to guide halyard from out of a mast or spar or from below deck and allow exterior adjustment of the halyard.

Part #	A	B	C	D	Line Size	Style
SED 081011	1-1/4"	3-1/4"	3/4"	2-3/4"	up to 1/2"	straight

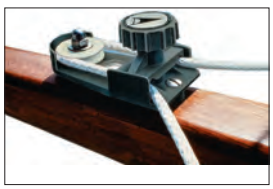
Davis Sail Track Stops

- Large knurled wheels are released with ease
- Made of heavy-duty, black anodized aluminum and nickel plated brass
- Flat stops come with lanyard holes


2350 2351 2352

DIN 2350 Round .50" Dia. x .875"
DIN 2351 Flat .42" x 1" x .125"
DIN 2352 Flat .75" x 1" x .125"

Davis Tiller-Tamer



- The tension is smoothly adjustable from fully locked to fully free
- Tiller-Tamer gives improved control and feel to the tiller handle
- It's equally adaptable to outboard or inboard rudder tillers
- Does not interfere with automatic steering systems
- Ends need for lashing of the tiller when boat is moored, in a slip, or on the trailer

DIN 2205

Harken Sail Chafe Protector



- Designed to ease genoas over lifelines or shrouds
- Fits wire sizes 3/16" to 7/16"
- They are made up of two interlocking halves that snap together so they can be fitted to pre-swaged wire, and can be removed

HAR 285 Pair

Sea-Dog Pulley



- Stainless steel with a plastic sheave
- Height: 1-13/16"

SED 092100-1

Nalco Heavy Cast Blocks



- Heavy cast construction
- Galvanized.
- Self aligning shackle
- Ball bearing
- Line guard.
- Protected pressure grease nipple

Part #	Capacity	Pulley	Rope	Type
LOG 37HCBL03	4590 lbs	3"	5/16"	Sealed
LOG 37HCBL05	12500 lbs	5"	9/16"	Pressure
LOG 37HCBL06	17900 lbs	6"	3/4"	Pressure

Davis Cable Covers

- Cable covers protect sails and sheets from chafing
- Made with ultra-violet absorbent plastic, are tough, durable and last longer
- Split for quick, snap-on installation
- Sold in 6' lengths



DIN 252 1/8"
DIN 253 5/32"
DIN 254 3/16"
DIN 255 1/4"
DIN 256 5/16"
DIN 257 3/8"

Forespar Shackle Guards



- Place a protective buffer between the spinnaker pole ends and your after-guy shackle
- Made of high-strength polyethylene
- UV inhibited for long life
- Can also be used on lifelines to skirt genoas

FRS 300006	SG-1	2-1/4" Dia x 3/8" ID
FRS 300007	SG-2	2-1/4" Dia x 1/2" ID
FRS 300009	SG-4	3" Dia x 5/8" ID
FRS 300010	SG-5	3" Dia x 3/4" ID

Forespar T-Track & Stops



FRS 339011 Track 1-1/4", clear, 7.6' section
FRS 339009 Stops MS-125

Forespar Toggle Car



The Toggle style sliding cars, T-125-S and AT-125-S, are designed for even larger poles and offshore sailing conditions on boats 35 feet and over. This ultimate in sliding car design allows the pole to twist without binding as well as providing for the necessary vertical and horizontal movement. Allowing a whisker pole to twist helps eliminate much of the chafing which can occur on long downwind legs during trade-wind sailing. This style of mast car also allows for vertical pole storage (up to 4-1/2" dia.). Made to fit the standard 1-1/4" "T" track.

- Stainless steel construction

FRS 333004

Parts:

FRS 333010 Toggle & knuckle assembly

Forespar Ring Style Mast Car



The ring and body of this unusually strong car is investment cast 17-4 heat treated stainless steel to provide great strength. Compatible with UXP and UTR pole end fittings.

- Ring I.D. is 1-5/8"

FRS 331000 RC-125

Forespar Heavy Duty Car



This heavy duty, versatile mast car was developed to eliminate the possibility of binding as well as allowing poles up to 4 1/2" in diameter to hang vertically up the mast for storage. It incorporates an articulating flange that acts like a goose neck and reduces the chance of end fitting binding. This fitting can handle rough offshore work as well as spinnaker pole jibes under racing conditions. The FC-125 accepts all end fittings; Easy Latch (EL), Piston (XP), Trigger (TR), and the Ultra External Trip Piston (UXP) except the socket style fittings (TS & UTS). The FC-125 car fits the standard 1-1/4" T-track and requires a "heel lift" or uphaul/downhaul tackle system for vertical adjustment on the mast track. Shackles are provided on the top and bottom of the hinge pin for attaching blocks or dead-ending of control lines. Replaceable UHMW (ultra high molecular weight) inserts keep the car from galling on the track.

FRS 332002 FC-125

Forespar Mast Pad Eyes

To complement most medium sized whisker poles. Two stainless steel styles available, for a flat or curved surface mount.

- Dimensions: 2-3/4" x 2"
- Inside dia. 1-5/8"



400001



400002

FRS 400001 PE-3SF (Flat base)
FRS 400002 PE-3SF (Curved base)

Forespar Deck Chock



These are used to stow spinnaker poles or whisker poles on the deck. They have been designed to withstand rugged use, while also offering an almost "snag-proof" profile on the deck. The model DC-2 deck chock is the standard which accommodates all end fittings except the socket style inboard end fitting.

- DC-2 (UXP & URT end)

FRS 300002

Clamcleat Stopper Balls



Screw-on stopper/shock absorber ball is ideal for kite surfing brake lines, outhauls, vangs, and pole deployment systems on dinghies and day boats.

- Stops the bar hitting the cleat base and causing damage
- Will not damage rope
- Use 3mm Allen key to fix in position



CLM PT524/R 6mm (1/4") rope
CLM PT525/R 8-9mm (5/16" - 3/8") rope

Forespar Stanchion Mount Chocks



Molded from durable, weather resistant urethane and mount easily onto 1" stanchions. No drilling is necessary. Stanchion chocks are designed to accommodate poles from 2" to 3-1/2" in diameter. Two chocks are needed for each pole. Note the position of the stanchions relative to the desired pole location and select the chocks that match the pole O.D. at those two positions on the pole.

- Sold individually

FRS 300050	SC-200	2" dia poles
FRS 300042	SC-250	2-1/2" dia poles
FRS 300043	SC-300	3" dia poles
FRS 300044	SC-350	3-1/2" dia poles

Forespar Mast Pole Chocks

Molded from durable high tech urethane, these chocks allow for storing the pole vertically against the face of the mast. Two MPC chocks mounted 2'-3' apart will help stop the pole from rattling.
* Caution: The outboard end of the pole should be protected or contained to prevent the jib sheets or other lines from catching on and pulling the pole out of its storage chocks.



FRS 300070	MPC 200	2"
FRS 300071	MPC 250	2-1/2"
FRS 300072	MPC 300	3"
FRS 300073	MPC 350	3-1/2"

Forespar Vertical Pole Storage





The VPC storage car is designed to hang 10"-12" below the mast car via a wire or rope "tail". It is then hauled up and down the track in tandem with the mast car. As the pole comes vertical, the VPC car's chock engages the pole at the inboard end and prevents it from rattling, vibrating and binding. All three cars fit 1-1/4" T-Track. Select the model that matches your pole diameter (this would be the largest diameter on the Line Control whisker poles).

FRS 335100 VPC-125-250, 2-1/2" poles
FRS 335101 VPC-125-300, 3" poles
FRS 335102 VPC-125-350, 3-1/2" poles

Vertical Pole Storage
Selection of the proper mast car and inboard end fitting combination is critical. Ring style cars (ours or anyone else's) will not allow a pole to hang vertically without binding and eventually breaking the end fitting. Bear in mind that you have a significant "lever arm" effect on the end. A 10-foot pole can create enough leverage to fracture or bend ends and rings if they bind up without you ever feeling it from the opposite end of the pole. Therefore, Forespar does not recommend ANY ring style mast cars if the pole is to be stored up the mast.

Forespar Yacht Rod & Fittings

Excellent vang/boom support for performance cruising and racing. Hard anodized aluminum & polished stainless steel. Supplied with wire cable ready to add your tackle system. Your 4:1 equals 8:1 when installed on Yacht Rod. Can be led to small winch for additional power. Spring return holds boom. Brackets for mast and boom sold separately.

- Eliminates need for boom topping lift
- Supports boom in light air and when reefing and lowering the mainsail
- Faster than hydraulics - No messy hydraulics to leak
- More efficient than conventional tackles
- Tubing is white coated anodized 6061-T6 aluminum and electropolished 316 stainless steel
- Precision machined 6061-T6 aluminum clevis ends, sheaves and Nylatron bearings
- Precipitation hardened stainless steel spring with fast-pin adjustment
- No gas spring to lose its charge



Part #	Description	Stroke	Adjustable Length	Adjustable Distance	Pin Size	Jaw Width	Weight	Max. Return Force
FRS 352000 *	Medium Yacht Rod YR-Medium	7"	58-1/2" to 70-1/2"	12"	1/2"	3/8"	9.8 lbs	600 lbs
FRS 352100 *	Medium Yacht Rod YR-Large	11-1/2"	66-1/2" to 80"	13-1/2"	5/8"	11/16"	17 lbs	1450 lbs
FRS 352101 *	Medium Yacht Rod YR-X Large	11-1/2"	79-1/2" to 93"	13-1/2"	5/8"	11/16"	19 lbs	1450 lbs

FRS 352003 * Medium Boom Lug YR-M
FRS 352005 Medium Mast Bracket YR-M
FRS 352103 * Boom Lug YR-L & XL
FRS 352104 * Mast Bracket YR-L & XL
* Special Order


352003


352005


352103


352104

► *Also See* Harken Vang Master pg 13-074 to 075

Clamcleat Cleats for Ropes to 5/32"




CL270

Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL263/R	Micro	Nylon	3/64" - 5/32"	1-3/4" x 15/16" x 1/2"	#4
CLM CL270AN/R	Racing Junior MK1 with Becket	Hard Anodized	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5

Clamcleat Cleats for Ropes to 5/32"


CL268 / CL268AN



Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL268/R	Micro Cleat	Aluminum	3/64" - 5/32"	1-3/4" x 1/2" x 5/8"	#4
CLM CL268AN/R	Racing Micro Cleat	Hard Anodized	3/64" - 5/32"	1-3/4" x 1/2" x 3/4"	#4
CLM CL270/R	Racing Micro w/Becket	Aluminum	3/64" - 5/32"	1-3/4" x 1/2" x 3/4"	#4

Clamcleat Cleats for Ropes to 1/4"


CL204


CL222


CL802



Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL204/R	Mini	Nylon	1/8" - 1/4"	2-1/16" x 1-7/16" x 5/8"	#4
CLM CL222/R	Racing Mini	Aluminum	1/8" - 1/4"	1-7/8" x 1-7/16" x 5/8"	#4
CLM CL802/R	Tapered Pad (204 & 222), pkg'd	Polypropylene	-	2-1/4" x 13/16"	#4
CLM CL802/L *	As above, but bulk				

* Special Order - may have stock

Clamcleat Cleats for Ropes to 1/4"


CL203


CL211MK1


CL211MK2


CL702

Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL203/R	Junior, packaged	Nylon	1/8" - 1/4"	3-1/4" x 5/8" x 11/16"	#4
CLM CL203/L	As above, but bulk				
CLM CL211MK1/R	Racing Junior MK1, packaged	Aluminum	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL211MK1/L	As above, but bulk				
CLM CL211MK1AN/R	Racing Junior MK1	Hard Anodized	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL211MK2/R	Racing Junior MK2	Aluminum	1/8" - 1/4"	2-1/8" x 1-1/16" x 5/8"	#4
CLM CL211MK2AN/R	Racing Junior MK2	Hard Anodized	1/8" - 1/4"	2-1/8" x 1-1/16" x 5/8"	#4
CLM CL702/R	Boom Cleat	Aluminum	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL704/R	Racing Junior MK1 w/becket	Aluminum	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5

Clamcleat Side Entry Cleats for Ropes to 1/4"


CL217MK1


CL217MK2


CL218MK1


CL218MK2

Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL217MK1/R	Side Entry (STB)	Aluminum	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL217MK1AN/R	Side Entry (STB)	Hard Anodized	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL217MK2/R	Side Entry (STB)	Aluminum	1/8" - 1/4"	2-1/8" x 1-1/16" x 11/16"	#4
CLM CL218MK1/R	Side Entry (Port)	Aluminum	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL218MK1AN/R	Side Entry (Port)	Hard Anodized	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL218MK2/R	Side Entry (Port)	Hard Anodized	1/8" - 1/4"	2-1/8" x 1-1/16" x 11/16"	#4

Clamcleat Accessories


CL814


CL815


CL818


CL819


CL816


CL835


PT420&21
PT424&25


PT422&23

Part #	Description
CLM CL814/R	Keeper for CL203, CL211MK1, CL217MK1, CL218MK1 & CL236
CLM CL815/R	Keeper (Acetal) for CL211MK2 & MK2AN
CLM CL816/R *	Cage for CL203, CL211MK1, CL236 (Must use CL814 Keeper with cage)
CLM CL817/R *	Cage for CL211MK2
CLM CL818/R	Tapered Pad for CL203, CL211MK1, CL217MK1, CL218MK1, CL236 & CL704
CLM CL819/R	Tapered Pad (Polypropylene) for CL211MK2, CL217MK2 & CL218MK2
CLM CL835CCAN/R	Sheave plate for aluminum CL211 MK2 or nylon CL272 cleats
CLM PT420&21/R	Insulator for CL211MK2 †
CLM PT422&23/R	Insulator for CL211MK1, CL217MK1, CL218MK1, CL230, CL236, CL704 †
CLM PT424&25/R	Insulator for CL268, CL270, CL277, CL275, CL278 †

* Special Order - may have stock

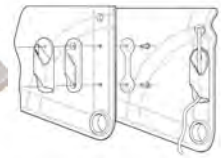
† Retail pack includes 4 sets

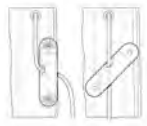
Clamcleat Sail Cleats

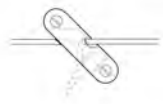

CL214


CL241


CL259







Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL213/R	Fine Line (Starboard)	Nylon	1/16" - 3/16"	2-3/4" x 1-15/16" x 13/16"	#4
CLM CL214/R	Fine Line (Port), packaged	Nylon	1/16" - 3/16"	2-3/4" x 1-15/16" x 13/16"	#4
CLM CL214/L *	As above, but bulk				
CLM CL241/R	Racing Sail Line Cleat	Aluminum	1/8" - 1/4"	2-3/4" x 1-15/16" x 13/16"	#4
CLM CL258/R	Racing Fine Line (STB)	Aluminum	1/8" - 1/4"	2-3/4" x 1-15/16" x 13/16"	#4
CLM CL259/R	Racing Fine Line (Port)	Aluminum	1/8" - 1/4"	2-3/4" x 1-15/16" x 13/16"	#4

* Special Order - may have stock

Clamcleat Roller Cleats for Ropes to 5/16"

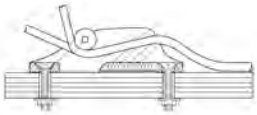

CL230


CL236


CL253/R


CL253AN/R







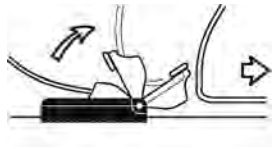


Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL230/R	Racing Junior Mk1 w/Roller	Aluminum	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL236/R	Roller Fairlead Mk1 Racing Junior, pkg'd	Aluminum	1/8" - 1/4"	3-1/4" x 2-5/8" x 11/16"	#5
CLM CL236/L *	As above, but bulk				
CLM CL253/R	Trapeze & Vang Cleat	Aluminum	3/16" - 5/16"	3-1/2" x 2-3/4" x 11/16"	-
CLM CL253AN/R	Trapeze & Vang Cleat	Hard Anodized	3/16" - 5/16"	3-1/2" x 2-3/4" x 11/16"	-

* Special Order - may have stock

Clamcleat Auto Release Cleat





Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL257/R	Auto Release Racing Mini	Aluminum/Acetal	3/16" - 1/4"	2-5/8" x 1-13/16" x 7/8"	#4

Clamcleat Cleats for Ropes to 5/16"


CL209


CL254


CL803



Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL209/R	Midi	Nylon	3/16" - 5/16"	2-7/8" x 2-1/8" x 3/4"	#5
CLM CL254/R	Racing Midi	Aluminum	3/16" - 5/16"	2-3/4" x 2-1/8" x 3/4"	#5
CLM CL803/R	Tapered Pad (209 & 254)	Polypropylene	-	3-1/8" x 15/16"	#5

Clamcleat Cleats for Ropes to 5/16"

CL231



Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL231/R	Midi w/Integral Fairlead	Nylon	5/32" - 5/16"	3-7/16" x 2-1/8" x 7/8"	#5

Clamcleat Cleats for Ropes to 3/8"



CL202



CL207

Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL202/L *	Horizontal, bulk	Nylon	1/4" - 3/8"	2" x 3-1/8"	#14
CLM CL206/R	Lateral (Starboard)	Nylon	1/4" - 3/8"	3" x 1-15/16"	#6
CLM CL207/R	Lateral (Port)	Nylon	1/4" - 3/8"	3" x 1-15/16"	#6

* Special Order - may have stock

Clamcleat Cleats for Ropes to 1/2"



CL201



CL219



CL228



CL804

Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL201/R	Vertical	Nylon	1/4" - 1/2"	3-3/4" x 13/16" x 1-1/8"	#6
CLM CL219/R	Racing Vertical	Aluminum	1/4" - 1/2"	3-9/16" x 2-13/16" x 1-1/16"	#6
CLM CL228/R	Vertical w/Fairlead	Nylon	1/4" - 1/2"	4-1/2" x 2-13/16" x 1-3/16"	#6
CLM CL804/R	Tapered Pad (201 & 219)	Polypropylene	-	4-1/16" x 1-3/8"	#6

Clamcleat Cleats for Ropes to 5/8"



CL205



CL220



CL805



Part #	Description	Construction	Rope Size	Dimensions	Fastener
CLM CL205/R	Major	Nylon	3/8" - 5/8"	4-13/16" x 3-3/4" x 1-7/16"	#8
CLM CL220/R	Racing Major	Aluminum	1/2" - 5/8"	4-5/8" x 3-3/4" x 1-7/16"	#8
CLM CL805/R	Tapered Pad (205 & 220)	Polypropylene	-	5-1/8" x 1-3/4"	#8

Clamcleat Aero Cleats

CL826-11AN



CL827-11AN



CL828-63



CL828-68



- Allows cleats to be rigged on a rope

Part #	Description	Construction	Rope Size	Dimensions
CLM CL826-11AN/R	Base & CL211 MkAN (fits the Mk2 junior cleats)	Hard Anodized	1/16" - 1/4"	2-3/4" x 5/8"
CLM CL827-11AN/R	Base & CL211 MkAN	Hard Anodized	5/32" - 1/4"	4-3/8" x 3/4"
CLM CL828-63/R	Base & CL263	Nylon	1/8" - 5/32"	2-3/4" x 1/2"
CLM CL828-68/R	Base & CL268	Aluminum / Nylon	1/8" - 5/32"	2-3/4" x 1/2"
CLM CL829-11/R	Base & CL211MK2	Aluminum / Nylon	5/32" - 1/4"	3-1/16" x 5/8"
CLM CL285AN/R	Racing Aero cleat, MK2 style	Hard Anodized	3/16" - 1/4"	2-5/8" x 5/8"

CL829-11



CL285AN/R



Clamcleat Kitesurfing Cleats



CL264



Part #	Description	Construction	Rope Size	Dimensions
CLM CL264/R	Cobra Cleat	Aluminum	3/16" - 1/4"	4-23/32" x 29/32"

Clamcleat Boom Cleat



Part #	Description	Construction	Rope Size	Dimensions	Boom Dia	Fastener
CLM CL244/R	Boom Cleat and Clamps	Aluminum & Nylon	1/8" - 1/4"	2-1/4"	1-3/8" - 1-1/2"	#8

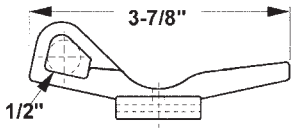
Clamcleat Wrap Around Boom Cleat



- One-piece cleat and clamp
- Tube diameters 1-1/8" to 1-1/4"
- Rope diameters 1/8" to 1/4"
- Ideal for sun sails, flag poles, and tubes
- Quick fit with included screws
- L: 2-21/32" x W: 1-13/32"

CLM CL235/L * Bulk

* Special Order - may have stock

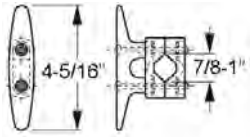




Sea-Dog Halyard Cleat

- Black injection molded nylon with stainless steel mounting plate
- Designed to mount on any 3/16"-5/16" diameter shroud
- Excellent for securing awnings, flags, etc

SED 050110-1



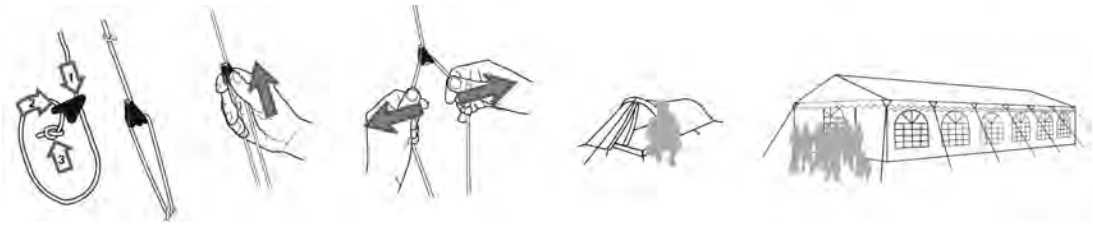


Sea-Dog Rail Mount Cleat

- Black nylon rail mount cleat

SED 327111-1

Clamcleat Mini Line-Lok Cleat





Part #	Description	Construction	Rope Size	Dimensions	Quantity
CLM CL260/R	Mini Line Lok	Nylon	5/64" - 3/16"	1-1/4" x 3/8"	8/pkg

Clamcleat Cleats for Rigging on a Rope

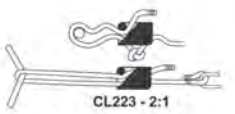
- Ideal for hanging and adjusting fenders

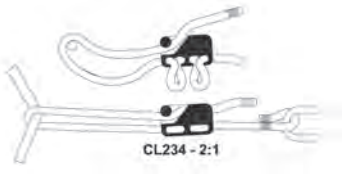


CL234W/R



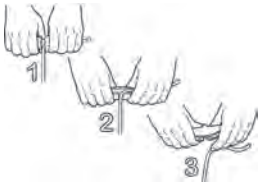
CL223





Part #	Description	Construction	Rope Size	Dimensions
CLM CL223/R	Loop Cleat (Black), packaged	Nylon	1/8" - 1/4"	2-1/16" x 11/16"
CLM CL234/R	Fender/Large Loop Cleat (Black)	Nylon	1/4" - 1/2"	3-1/16" x 15/16"
CLM CL234W/R	Fender/Large Loop Cleat (White)	Nylon	1/4" - 1/2"	3-1/16" x 15/16"

Clamcleat Power Grip Cleats





CL262/R



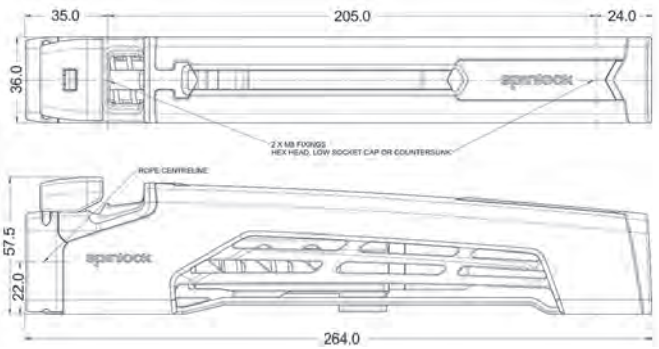
CL261/R

Part #	Description	Construction	Rope Size	Dimensions
CLM CL261/R	Power Grip 1	Aluminum	1/8" - 1/4"	3-3/4" x 11/16"
CLM CL262/R	Power Grip 2	Aluminum	1/8" - 1/4"	7-7/16" x 11/16"

Spinlock XTX SoftGrip 8-12mm Lines

- Ultra-lightweight mid-load rope holding
- Optimised SOFTGRIP braid with high performance braid anchor technology
- Gentle on rope covers - increase the lifecycle of your ropes
- Neat, retracting toggle for fingertip control of clutching power
- Controlled and consistent release across full range of loads
- Push button clutch activation with lock-open indicator
- Full enclosed body protects against accidental release
- Small footprint and very low profile with no handle rotation space required
- Simple, versatile installation - 2 fasteners for deck, bulkhead, rig or tunnel mounting
- Remote release capability
- Easy set-up, no performance tuning required
- On-deck access for cleaning or replacing SOFTGRIP diameter changes





SPI XTX08/B	Black 8mm (5/16"), 800kg (1764lbs)
SPI XTX09/B	Black 9mm (3/8"), 900kg (1980lbs)
SPI XTX10/B	Black 10mm (3/8"), 1000kg (2205lbs)
SPI XTX11/B	Black 11mm (7/16"), 1100kg (2425lbs)
SPI XTX12/B	Black 12mm (1/2"), 1200kg (2650lbs)

Alternate colours available by special order

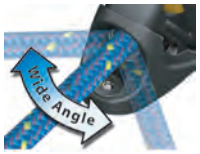
Parts:

SPI XTX-GRIP08	Replacement grip assembly, 8mm
SPI XTX-GRIP09	Replacement grip assembly, 9mm
SPI XTX-GRIP10	Replacement grip assembly, 10mm
SPI XTX-GRIP11	Replacement grip assembly, 11mm
SPI XTX-GRIP12	Replacement grip assembly, 12mm

Spinlock PXR Camcleats

The three-stage release spring can be pre-set for the prevailing conditions and application. Select lighter settings for continuously trimmed sheets, traveller controls, vangs and similar controls. Harder settings for halyards and occasionally adjusted lines. While sailing, the roller action of the PXR keeps the release effort easy, even as the wind strength increases. The low profile body of the PXR contains hard anodized CAM and base surfaces for maximum grip and durability, whilst stainless steel rope guides provide a wide angle of control, with easy release from any angle.

Wide operating arc



Roller action maintains easy release as wind load increases



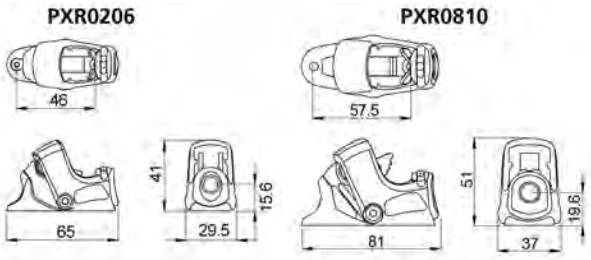
Three stage adjustment



SPI PXR0206 2 - 6 mm
SPI PXR0810 8 - 10 mm



PXR0206

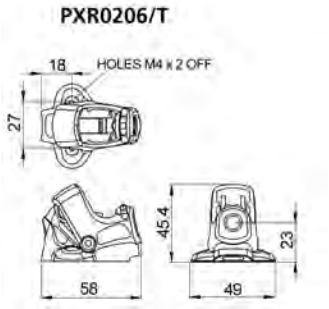


T-series versions use the same (27 & 38 mm) hole centres as traditional camcleats, allowing direct retrofit anywhere without drilling. This makes the PXR T-Series ideal for main sheet swivel systems on yachts and keelboats, as well as downhaul, vang and backstay applications.

SPI PXR0206/T 2 - 6 mm



T Series

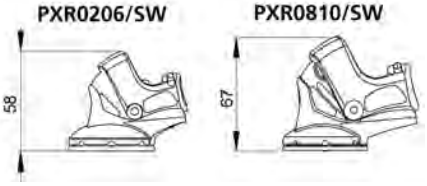


SW-series 2-6 mm size is the preferred swivel mount choice of dinghy manufacturers for single line spinnaker hoists and single cleat control of jib sheets and vangs, whilst the 8-10mm size improves handling on big boat vang and downhaul controls.

SPI PXR0206/SW 2 - 6 mm
SPI PXR0810/SW 8 - 10 mm

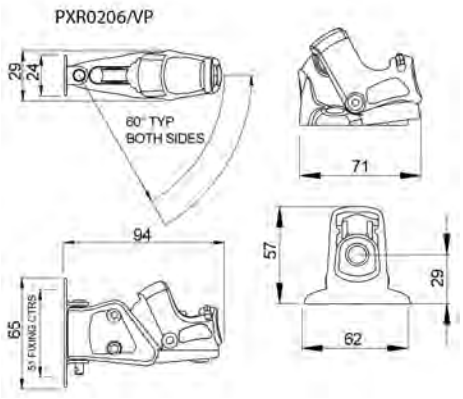


SW Series



VP-series allows single line control to either side of the boat from its central mast or boom installation. Ideal for mast base mount for catamaran downhauls.

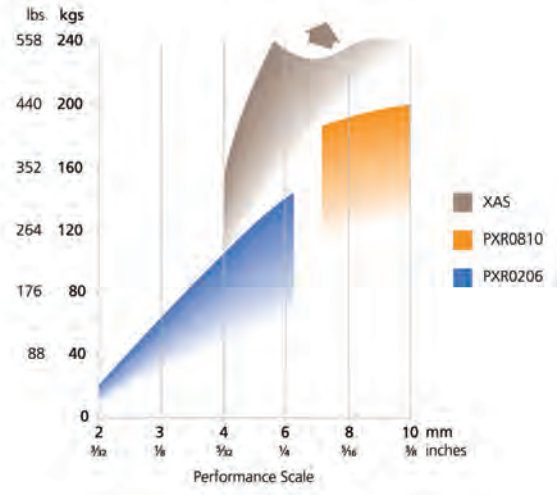
SPI PXR0206/VP 2 - 6 mm





VP Series

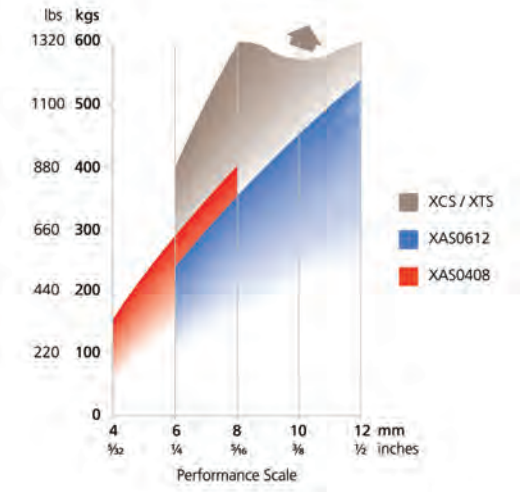
0206 Series SWL: 140kg, Break Load: 280kg
0810 Series SWL: 200kg, Break Load: 400kg



Spinlock XAS Powerclutches



- Toughened impact resistance casing
- Modular build: easiest to upgrade & maintain
- Same hole spacing as older XA models
- Extra clutching and holding power on small diameter lines
- Alloy centre plates share high loads on multiple units
- Use 1/4" fasteners



Part #	Style	Line dia	Max SWL	L x H x W
SPI XAS0408/1	Single	4-8 mm	990 lbs	5-1/8" x 2-3/4" x 1-1/2"
SPI XAS0408/2	Double	4-8 mm	990 lbs	5-1/8" x 2-3/4" x 2-3/5"
SPI XAS0408/3	Triple	4-8 mm	990 lbs	5-1/8" x 2-3/4" x 3-2/3"
SPI XAS0612/1	Single	6-12 mm	1270 lbs	5-1/8" x 2-3/4" x 1-1/2"
SPI XAS0612/2	Double	6-12 mm	1270 lbs	5-1/8" x 2-3/4" x 2-9/16"
SPI XAS0612/3	Triple	6-12 mm	1270 lbs	5-1/8" x 2-3/4" x 3-2/3"

Parts:

SPI CAMXAS	Cam
SPI XAS-HDL	Handle
SPI XAS-SIDE	Side fairings, pair
SPI XAS-KIT	Service kit
SPI XAS-SMNT	Side mounting kit

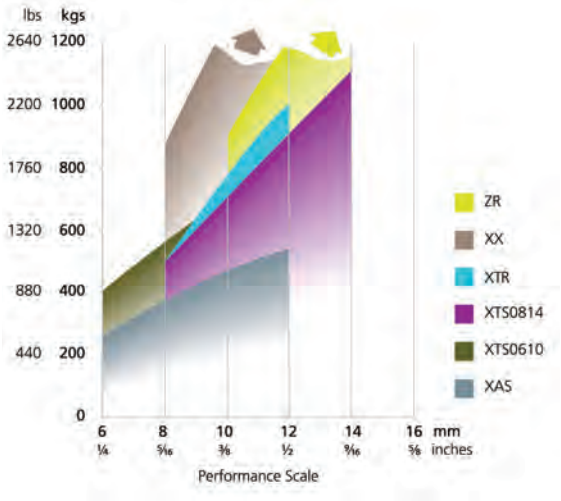
Spinlock XTS Powerclutches



XTS0814/HS

Use XTS on yachts that require a higher safe working load and a more advanced release mechanism than the XAS.

- Toughened impact resistance casing
- Mid to higher load rope holding
- Reliable all around performance
- Alloy centre plates share high loads on multiple units
- Extruded alloy handle with soft end grip
- Secure handle lock in open or close position
- Easy access to 5/16" fasteners
- Handle labels supplied



Part #	Style	Line dia	Max SWL	L x H x W
SPI XTS0814/HS	Single	8-14 mm	2200 lbs	6-3/8" x 3-1/4" x 4-1/4"
SPI XTS0814/1	Single	8-14 mm	2200 lbs	6-1/16" x 3-2/5" x 1-1/2"
SPI XTS0814/2	Double	8-14 mm	2200 lbs	6-1/16" x 3-2/5" x 2-3/4"
SPI XTS0814/3	Triple	8-14 mm	2200 lbs	6-1/16" x 3-2/5" x 3-7/8"

Parts:

SPI CAM0610	6-10 mm cam module
SPI CAM0814	8-14 mm cam module
SPI CAM-0610C	6-10 mm cam module, ceramic
SPI CAM-0814C	8-14 mm cam module, ceramic
SPI X-BASEC	Ceramic base
SPI XTS-KIT	Service Kit, 8-14 mm rope range

It is recommended to pair the ceramic cam module with a ceramic base

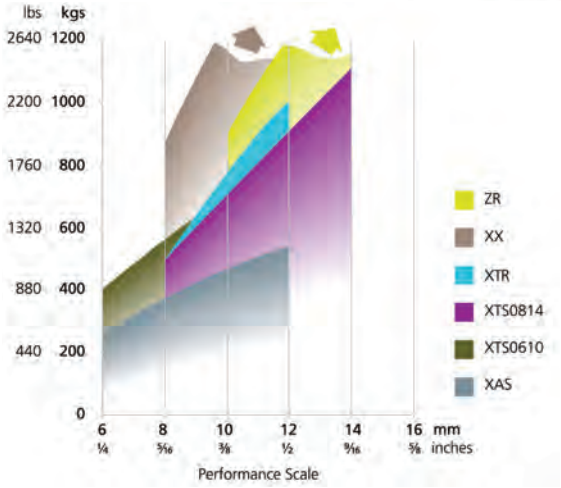
Spinlock XTR Reactor Clutch 8-12mm Lines



- 'Reactive Clutching' - Rope holding is consistent and responsive across the full diameter range
- Release is smooth and progressive for maximum control
- Significant rope holding improvement on the latest small diameter rope types
- Ultra lightweight alloy/composite construction within compact footprint
- New handle offers improved feel and confidence in operation
- Improved mechanism geometry boosts clutching power and reduces 'take-up'
- Reactor cam module is easily removed for on-deck cleaning and servicing
- Single units only, easily upgradable from multiple XTS/XCS with common fixing spacings
- Side mount versions available
- One-person installation either top mounted or through bolted
- Rope handling: 8-12mm (5/16-1/2")
- SWL at max rope diameter: 1000kg (2200lbs)
- Idential foot print to XTS/XCS up to /3's
- Other colours available on request
- L: 14.6 x H: 8.4 x W: 3.3 cm



SPI XTR0812/B	Black
SPI XTR0812/S	Silver
SPI XTR0812/W	White



Spinlock XX Powerclutch



XX holds loads 50% higher than any conventional clutch and yet it is smooth and controlled to release. It is the only secure clutch solution for genoa halyards on inshore racing yachts from 35-50 feet and for secondary applications on larger yachts. XX has been optimized especially for high performance 8-12mm (5/16 - 1/2") diameters.

- Special 3D wedge action helps contain full load with minimal rope wear
- Peek roller bearings give safe and controlled release
- Monocoque alloy box section for absolute overload security
- Heavy duty low level stainless steel fairleads
- Easy access for removing complete internal assembly, even when banked
- High tensile fasteners supplied
- Dimensions: L: 7-11/16 x H: 3-4/5" x W: 1-21/32"
- Max SWL: 3970 lbs

SPI XX0812	Single
Parts:	
SPI XX-KIT	Jaw set and moulding kit

Spinlock XCS Powerclutch



Use XCS on yachts that require a higher safe working load and a more advanced release mechanism than the XAS.

- Aluminium sides for sustained high load operation.
- Alloy handle lever with soft end grip
- Secure handle lock in open or close position
- Dimensions: L: 6-1/16" x H: 3-1/8" x W: 1-1/2"
- Line dia.: 8-14 mm
- Max.SWL: 2200 lbs
- Use # 5/16 fasteners

SPI XCS0814/1B	Black
SPI XCS0814/1CB	Ceramic Cam & Base, Black
Parts:	
SPI CAM0814	Cam module
SPI CAM-0814C	Ceramic cam module
SPI X-BASEC	Ceramic base
SPI XTS-KIT	Service Kit, 8-14 mm rope range

Spinlock Mini Jammers



Popular halyard jammer for use with small winches. More power than a cam cleat but much smaller than a powerclutch.

- Polished stainless steel reinforced body
- Low, rounded profile
- No accidental release
- Manual lock down
- Line diameter: 6-10mm
- Max SWL: 880 lbs
- Use # 1/4" fasteners

*Note: Does not replace clutch

Part #	Style	L x H x W
SPI SUA/1	Single	2-1/4" x 1-13/16" x 2"
SPI SUA/2	Double	2-1/4" x 1-13/16" x 2-3/4"
SPI SUA/3	Triple	2-1/4" x 1-13/16" x 3-3/8"

Spinlock Spinnaker Blocks

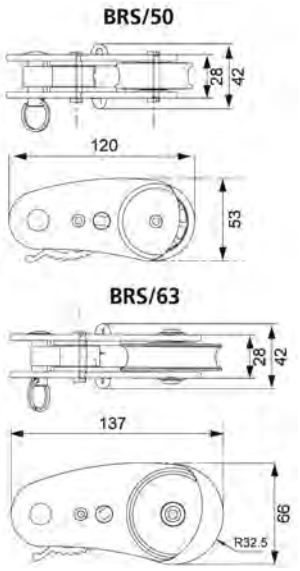
This mobile jammer block is for situations where a fixed deck block can't help: peeling spinnakers, or changing a sheet on a winch. Because it has its own webbing strop, it takes up no deck space and can be repositioned on the toe rail or onto a pad eye.

- Complete with Spectra webbing strop to secure the block to toe-rail or pad-eye
- Strop allows full rotation for spinnaker sheet use or allows it to lie flat on deck
- Integral shock cord holds the block off the deck
- Proven cam profile, holds loads up to 20% of the block SWL
- Plain bearing sheave for smooth running at low loads, yet efficient performance at high loads

Part #	Max. Line	Sheave	SWL (Sheave)	Safe Cam Load
SPI BRS/50	6-10 mm (1/4"-3/8")	50 mm	800 kg (1,760 lbs)	160 kg (352 lbs)
SPI BRS/63	8-12 mm (3/16"-1/2")	63 mm	1200 kg (2,640 lbs)	240 kg (528 lbs)

The BRS cam action is preset with three useful features:
Lock-back: the cam stays clear of the sheet when it is not needed, no accidental jamming.
Auto release: the locked cam springs clear of the line for free run out after the sheet is re-tensioned.
Friction phase: even if the sheet goes slack or is out of use when the cam is engaged, the cam stays engaged





Spinlock Furling Line Leads

Stanchion mounted furling line fairlead.

- Safe, low-profile design
- Cuts furling line friction
- Fairlead model WL/1 straight line guide for other stanchions
- Sheave model WL/2 for line entry and exit
- Unique tracker-ball angle adjuster for perfect sheave alignment
- Complete with fasteners: easy to fit
- For line diameter to 1/2" (12mm)
- Max load: 300 kg (660 lbs)
- 1" stanchions only

SPI WL/1 Bullseye
SPI WL/2 Sheave







Spinlock Bullseye Guides



Ideal for keeping long control lines tidy and clear of possible snags. Strongly recommended for coach roof or foredeck applications where line runs between two fixed points with little deflection needed.

- Self aligning until fastened, single or double screw fixing
- Stainless steel insert, raked profile
- TL stands for twin screw fixing

Part #	Eye	H x W	Fastener
SPI BE06	7 mm (9/32")	5/8" x 15/16"	1 x 5/32"
SPI BE10/TF	11 mm (7/16")	29/32" x 1-5/16"	2 x 5/32"
SPI BE12/TF	13.5 mm (17/32")	1-3/32" x 1-9/16"	2 x 3/16"
SPI BE16/TF	21.5 mm (21/32")	1-13/32" x 2"	2 x 1/4"

► *Also See* Fairleads pg 13-041 & 13-073

Spinlock Sail Feeder



Headsail feeder guides any flaked genoa from the deck cleanly up into the foil. Supplied with a length of line for attachment in a correct, free pivoting position between luff entry and deck.

- Headsail feeder RF/H guides any flaked genoa from the deck cleanly up into the foil
- Both headsail feeders are supplied with a length of line for attachment in their correct free pivoting position between luff entry and deck
- Luff tape protection feature
- Forged 316 stainless steel body
- Graphite loaded, anodised alloy rollers

SPI RF/MA Mainsail

Wichard Prefeeder



- 316 stainless steel
- One hand open & close
- Eliminates removing headsail from luff groove

WIC 7485

Spinlock Sheave Deck Organizers


T38/2

Slimline range for leading lines to the clutch. Good clutches work best with good organizers. The T-Series organizers lead multiple lines back from the mast to XAS or XTS powerclutches. By using efficient bearings and minimizing their overall length, unnecessary friction has been designed out. This all helps reduce winch effort and increase halyard life. All organiser models are designed to be double stacked with other sizes of the same hole centres.

Part #	Sheave dia. mm	Total SWL kg	Line Dia mm	L x W x H mm	Fastener
SPI T38/2	38	600	12	152 x 38 x 26	#6
SPI T38/3	38	900	12	194 x 38 x 26	#6
SPI T38/4	38	1200	12	237 x 38 x 26	#6
SPI T50/2	50	1000	14	196 x 50 x 30	#8
SPI T50/3	50	1500	14	252 x 50 x 30	#8
SPI T50/4	50	2000	14	308 x 50 x 30	#8

► *Also See* Harken Fairleads pg 13-073

Spinlock Micro Organizers

- Micro-sized for lightest weight and least deck footprint on small boats up to 28' using lines up to 10mm
- Composite mouldings - halving the number of diferent parts required to produce all multiple from 2 to 6 x 25mm sheaves
- Stainless steel details add local stiffnes and prevents line abrasion
- Sheave diameter: 25 mm
- SWL per sheave 400kg


T25/4

SPI T25/2	2 sheave
SPI T25/3	3 sheave
SPI T25/4	4 sheave
SPI T25/5	5 sheave
SPI T25/6	6 sheave

Spinlock Bullseyes



- Versatile new solution for low loaded lines, either fitted alone or double stacking onto new T25 organisers
- Successful BE stainless eye construction
- Grouped format minimises the deck space for multiple lines
- Shape deflects easily to fit concave or convex surfaces
- Base detailed for self-sealing gasket or wet silicone deck sealing
- BE10/2's and 3's stack anywhere on the T25 organiser providing a very neat new rope management solution

SPI BE10/2	Double
SPI BE10/3	Triple











Spinlock Rig-Sense Tension Gauge

Rig-Sense is a new rig tension device for measuring the loads in wire or rope on dinghies and small keelboats. Rig-Sense is simple to use, measuring the tension directly in kilogrammes. Rig-Sense also benefits from being able to be operated one handed, supporting itself on the rig whilst being used. Quality parts ensure long term performance, consistent and accurate readings over time.

- Loads on both wire and fibres
- Direct Scale with tension output
- Composite calibrated leaf spring
- Stainless steel contact points
- Carry bag included
- Works in conjunction with the Rig-Sense App

SPI RGS/0205	Diameter range 2 - 5mm (3/32" - 13/64")
SPI RGS/0508	Diameter range 5 - 8mm (13/64" - 5/16")

Sense Apps

The three Sense Apps allow users of Spinlock load measuring devices to work efficiently with their devices and store and manage their data in a single place.

Download all three Spinlock Apps from the Apple App Store or the Spinlock website.

Spinlock RIG

LW-Sense App – Controls the Wireless Sense unit and displays & records data. Allows tagging of the application detail, Geo location, test conditions, add images and share and export data for later analysis.

Spinlock LW

LD-Sense App – Using LD-Sense OLED unit, record data from the logging session, such as the application detail, test conditions, add images and share and export data for later analysis.

Spinlock LD

Rig-Sense App – Using the Rig Sense, record data of critical settings to ensure repeatable race settings over differing conditions. Create templates to build settings from, add images and share and export data for later analysis with your class.

Harken Black Magic Sailing Gloves

Classic glove designed as an all-purpose, warm-weather sailing glove.

- Durable double-thick Black Magic palm material for superior grip
- Nylon Spandex mesh for super fit
- Minimal stretch when wet
- Dries soft


2563

3/4 Finger

HGL 2563XS	Extra Small
HGL 2563S	Small
HGL 2563M	Medium
HGL 2563L	Large
HGL 2563XL	Extra Large
HGL 2563XXL	Extra Extra Large


2564

Full Finger

HGL 2564XXL *	Extra Extra Large

* Special Order - may have stock

Harken Reflex Performance Sailing Gloves

A responsive performance sailing glove designed for active line handling in all conditions. Black Magic palm material - superior grip, lasting protection. Durable Black Magic finger wraps - reduced seam bulk, increased dexterity.

- Protective palm pad
- Low-profile watch cut-out
- Molded-rubber wrist closure
- Pull-on tab for easy on/off
- Mesh vents at base of fingers - a cool, custom fit
- Reinforced fingertips
- Molded-rubber guard strips on back


2083

3/4 Finger

HGL 2083XS	Extra Small
HGL 2083S	Small
HGL 2083M	Medium
HGL 2083L	Large
HGL 2083XL	Extra Large
HGL 2083XXL	Extra Extra Large


2084

Full Finger

HGL 2084XXL *	Extra Extra Large

* Special Order - may have stock

Harken Spectrum 3/4 Finger Gloves

Designed for active-line handling on dinghies where its low-profile, lightweight and nimble design reduces bulk and fatigue.

- High-durability Black Magic palm material and finger wraps provide the highest level of abrasion resistance, protection, and durability
- Durable Black Magic finger wraps reduce seam bulk and increase dexterity
- Mesh vents at base of fingers provide a cool, custom fit
- Low-profile watch cutout
- Pull-on tab for easy on and off
- Reinforced fingertips





Junior

HGL 2086JM-BLUE	Medium
HGL 2086JM-PINK	Medium
HGL 2086JL-BLUE	Large
HGL 2086JL-PINK	Large

Harken Deluxe Bosun's Chair



Our Bosun's chair ensures comfortable sitting and lets you work aloft with confidence. The chair is made of heavy-duty polyester canvas with a ply seat padded with 1 " thick foam. Includes an adjustable safety belt and two roomy pockets for tools. A carrying case is included.

- Maximum load: 220 lbs

HGL 2234

Harken Kevlar Wallet



HGL 2517C	Carbon black

Harken Croakies Eyeglass Strap

HGL 2330	Red

Harken Cap Holder

HGL 2397

Zircon Blocks



The Family Is Growing

How do we know when a product is making a difference? Riggers and sailors send photos and impromptu reviews of how they're using the product in different ways. And then they start asking us to make more. They want them bigger and stronger and they want more sheaves and they want beckets so they can improve the performance of more systems. And you know what? They ask for smaller versions too for dinghy control lines. So here we go. We've been saying all along that Zircon ceramic blocks are uncommonly responsive. Trimmers certainly have been using them to feel tiny changes in breeze and quickly adjust sail shapes in fractions of time and sheet. But they've also been splicing them in under the deck in multi-purchase systems that now ease - easier. Go ahead, try them...anywhere it makes sense. They won't disappoint.

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Max line Ø in	Max line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 2185	29 mm Single	1 1/8	29	1 11/16	43	.37	10.5	1/4	6	175	80	525	240
HAR 2186	29 mm Single w/becket	1 1/8	29	2 1/8	54	.44	12.6	1/4	6	175	80	525	240
HAR 2187	29 mm Double	1 1/8	29	1 11/16	43	.72	20.4	1/4	6	350	160	1050	480
HAR 2188	29 mm Double w/becket	1 1/8	29	2 1/8	54	.79	22.5	1/4	6	350	160	1050	480
HAR 2189	29 mm Triple	1 1/8	29	1 11/16	43	1.07	30.4	1/4	6	525	240	1575	720
HAR 1211	29 mm Triple w/becket	1 1/8	29	2 1/8	54	1.15	32.5	1/4	6	525	240	1575	720
HAR 2190	40 mm Single	1 9/16	40	2 3/8	60	.81	22.9	5/16	8	250	115	750	340
HAR 2191	40 mm Single w/becket	1 9/16	40	2 7/8	73	.93	26.5	5/16	8	250	115	750	340
HAR 2192	40 mm Double	1 9/16	40	2 3/8	60	1.58	44.7	5/16	8	500	230	1500	680
HAR 2193	40 mm Double w/becket	1 9/16	40	2 7/8	73	1.68	47.6	5/16	8	500	230	1500	680
HAR 2194	40 mm Triple	1 9/16	40	2 3/8	60	2.35	66.5	5/16	8	750	345	2250	1020
HAR 1212	40 mm Triple w/becket	1 9/16	40	2 7/8	73	2.47	70	5/16	8	750	345	2250	1020
HAR 2195	57 mm Single	2 1/4	57	3 1/8	79	1.58	44.8	3/8	10	330	150	990	450
HAR 2196	57 mm Single w/becket	2 1/4	57	3 3/4	95	1.81	51.4	3/8	10	330	150	990	450
HAR 2197	57 mm Double	2 1/4	57	3 1/8	79	3.05	86.4	3/8	10	660	300	1980	900
HAR 2198	57 mm Double w/becket	2 1/4	57	3 3/4	95	3.27	92.7	3/8	10	660	300	1980	900
HAR 2199	57 mm Triple	2 1/4	57	3 1/8	79	4.52	128	3/8	10	990	450	2970	1350
HAR 1213	57 mm Triple w/becket	2 1/4	57	3 3/4	95	4.73	134	3/8	10	990	450	2970	1350

See HARKEN 2026 Catalog (page 16)

Carbo Twing Block



Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Max line Ø in	Max line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 2699	Twing	1 9/16	40	3 1/2	89	3	86	3/8	10	606	275	1818	825

See HARKEN 2026 Catalogue (page 21)

One Ton Twing Block

The new Twing block features a spring-loaded side-opening mechanism for true one-handed rigging, even while wearing sailing gloves. Black anodized aluminum sideplates are edged with robust bumpers to protect the block, topsides, and deck. The sheave is aluminum rolling on a bearing system shared with Harken's existing 2.3T high-load snatch block.



Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Max line Ø in	Max line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 3405 *	1T Twing block	1 1/2	38.5	3	78	1.4	143	7/16	11	2205	1000	4409	2000

See HARKEN 2026 Catalogue (page 68)

Fixed Tulip Blocks

This workhorse equipment is designed to mount easily and provide unobtrusive, economical strength. Their wide, line-friendly tulip sheaves make them efficient for applications where slight lead angle misalignments would otherwise lead to off-center loading and increased friction. They are also helpful where the lead angle changes as it does in some outhaul systems as the boom goes in and out and across the boat.

Mastbase block: In these applications, one fixed tulip block can replace a block plus a baseplate plus a shackle or loop.

Over-the-top models are designed to facilitate full 90-degree deflections in rope path facilitating horizontal-to-vertical transitions over cabintops to cockpit floors on offshore catamarans. Their unique divided design allows for one line to be substituted for another in the middle of a system rather than requiring a complete re-rig through a rope clutch.

Footblocks are, by definition, fixed to the deck. Our new tulip sheave design helps realign lead angle in situations where the lead is not perfectly aligned with the block—situations where off-center loading would cause significant additional friction with a narrower conventional sheave.

Crossover blocks are fantastic for helping sailors adjust and cleat multiple lines using the smallest possible number of cleats, reducing weight in the process. Tulip sheaves help more as the lead angles get more acute.

These new line organizers are designed to be installed between a row of clutches terminating halyards and control lines, and corresponding winches. The organizer allows fewer winches to service increasingly busy pit areas. The tulip sheaves keep even very acute leads fair and reduce friction in the process.



9043*



9044*



9045*



9046*



9039*
9040*
9041*

CROSSOVER BLOCKS

DECK ORGANIZERS

Part No.	Description	Sheave Ø in	Sheave Ø mm	Height in	Height mm	Weight oz	Weight g	Base Ø		Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
Crossover Blocks															
HAR 9039 *	45 mm Tulip Crossover Block	1 3/4	45	1 7/16	37	4.6	131	1 7/8	48	1/2	12	2000	907	4000	1814
HAR 9040 *	60 mm Tulip Crossover Block	2 3/8	60	1 7/8	48	10.8	305	2 1/2	63	9/16	14	3000	1361	6000	2721
HAR 9041 *	75 mm Tulip Crossover Block	2 15/16	75	2 3/8	60	19	540	3 1/8	79	9/16	14	3750	1701	7500	3402

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Height in	Height mm	Weight oz	Weight g	Fasteners in	Fasteners mm	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
Deck Organizers																	
HAR 9043 *	3-sheave	1 1/3	33	4 1/8	105	1 1/2	38	7.8	220	5/16	8	1/2	12	2250	1020	4500	2041
HAR 9044 *	4-sheave	1 1/3	33	5 9/16	141	1 1/2	38	10.2	290	5/16	8	1/2	12	2250	1020	4500	2041
HAR 9045 *	5-sheave	1 1/3	33	7	177	1 1/2	38	12.7	360	5/16	8	1/2	12	2250	1020	4500	2041
HAR 9046 *	6-sheave	1 1/3	33	8 7/16	213	1 1/2	38	15.2	430	5/16	8	1/2	12	2250	1020	4500	2041

* Special Order

See HARKEN 2026 Catalog (page 60)



9032 *



9030



9031

MASTBASE BLOCKS



9035 *



9033 *



9034 *

OVER-THE-TOP



9036



9037



9038 *

FOOTBLOCKS

Part No.	Description	Sheave Ø in	Sheave Ø mm	Width in	Width mm	Length in	Length mm	Height in	Height mm	Weight oz	Weight g	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
Mastbase Blocks																	
HAR 9030	45 mm Tulip Vertical Fixed Block	1 3/4	45	1 5/8	42	2 11/16	69	2 1/4	57	6.6	187	1/2	12	2750	1247	5500	2495
HAR 9031	60 mm Tulip Vertical Fixed Block	2 3/8	60	2 1/8	54	3 9/16	91	3	76	14	400	9/16	14	5000	2268	10000	4536
HAR 9032 *	75 mm Tulip Vertical Fixed Block	2 15/16	75	2 9/16	66	4 1/2	114	3 3/4	95	25.5	724	9/16	14	8000	3629	16000	7257
Over-the_Top Block																	
HAR 9033 *	45 mm Tulip Over-the-Top Block	1 3/4	45	1 5/8	42	2 13/16	71	2 3/8	60	7.6	215	1/2	12	2750	1247	5500	2495
HAR 9034 *	60 mm Tulip Over-the-Top Block	2 3/8	60	2 1/8	54	3 5/8	92	3 1/8	80	16	456	9/16	14	5000	2268	10000	4536
HAR 9035 *	75 mm Tulip Over-the-Top Block	2 15/16	75	2 9/16	66	4 9/16	116	3 7/8	99	29	830	9/16	14	8000	3629	16000	7257
Footblocks																	
HAR 9036	45 mm Tulip Foot Block	1 3/4	45	2	50	3 9/16	91	1 5/8	41	6	172	1/2	12	2200	998	4400	1996
HAR 9037	60 mm Tulip Foot Block	2 3/8	60	2 5/8	67	4 9/16	116	2 1/16	53	13	366	9/16	14	3600	1633	7200	3266
HAR 9038 *	75 mm Tulip Foot Block	2 15/16	75	3 1/4	83	5 5/8	143	2 9/16	65	23	660	9/16	14	5750	2608	11500	5216

* Special Order

See HARKEN 2026 Catalog (page 61)



ELEMENT BLOCKS

When Harken sets out to create a block for sailors who have always believed they didn't need Harken, what happens? The new Element block. The name hints at its essence: everything that doesn't contribute durability or strength is stripped away. The result is an economical block that does a Harken job.

Element blocks introduce sideplates that combine forged aluminum and compound curves for strength. They are simultaneously contemporary and very robust. Element's design pairs the minimum amount of metal required to protect the sheave with a proven journal bearing. So size for size, Element is priced significantly lower, than our previously least expensive blocks. Compare them to plain bearing blocks from competitors, you'll be surprised. Element: Harken design and engineering—value-price.

Element blocks accept line from 8 - 16 mm. They are offered in singles, doubles, triples, fiddles, and footblocks in 45, 60 and 80 mm sizes.



Stands up to sun, salt, and impact

- Aluminum sideplates are forged for strength and sheave protection.
- Sideplates are hardcoat-anodized to resist corrosion.
- Bearing sheave of tough composite resists corrosion for a long service life.
- Shackles are strong, corrosion-resistant stainless steel.



6061-T6 aluminum:
Hardcoat-anodized sideplates



Shackle blocks lock in two directions or swivel to keep line from twisting

- Removable headpost lock allows shackle to be fixed or to swivel.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

See HARKEN 2026 Catalogue (page 46)

45 mm Blocks

About Element blocks: see feature page at beginning of this section.



Cam assembly adjusts and locks in a range of positions for crew accessibility.



Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Shackle Pin Ø		Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 6230	Single/swivel	1 3/4	45	4	102	3.6	103	1/4	6	1/2	12	1543	700	3086	1400
HAR 6231	Single/swivel/becket	1 3/4	45	4 3/4	121	4	115	1/4	6	1/2	8	1543	700	3086	1400
HAR 6232	Fiddle/swivel	1 3/4	45	5 1/8	130	4.4	126	1/4	6	5/16	8	1543	700	3086	1400
HAR 6233	Fiddle/swivel/becket	1 3/4	45	5 3/4	146	4.6	130	1/4	6	5/16	8	1543	700	3086	1400
HAR 6234	Fiddle/150 Cam-Matic/swivel/becket	1 3/4	45	5 3/4	146	8.6	245	1/4	6	5/16	8	1213	550	2426	1100
HAR 6235	Fiddle/150 Cam-Matic/swivel	1 3/4	45	5 1/8	130	8.4	241	1/4	6	5/16	8	900	408	1800	816
HAR 6236	Single/150 Cam-Matic/swivel/becket	1 3/4	45	4 3/4	121	8.1	230	1/4	6	1/2	12	600	272	1200	544
HAR 6238	Double/swivel	1 3/4	45	4 1/4	108	6.3	180	1/4	6	1/2	12	1929	875	3858	1750
HAR 6239	Double/swivel/becket	1 3/4	45	5	127	6.8	195	1/4	6	1/2	12	1929	875	3858	1750
HAR 6240	Triple/swivel	1 3/4	45	4 1/4	108	9.3	265	1/4	6	1/2	12	2315	1050	4630	2100
HAR 6241	Triple/swivel/becket	1 3/4	45	5	127	9.6	275	1/4	6	1/2	12	2315	1050	4630	2100
HAR 6242	Triple/150 Cam-Matic/swivel	1 3/4	45	4 1/4	108	14.7	420	1/4	6	1/2	12	1499	680	2998	1360
HAR 6243	Triple/150 Cam-Matic/swivel/becket	1 3/4	45	5	127	15.1	430	1/4	6	1/2	12	1799	816	3598	1632
HAR 6250	Stand-up	1 3/4	45	4 7/8	123	5.3	150			1/2	12	1543	700	3086	1400
HAR 6251	Stand-up/becket	1 3/4	45	5 5/8	143	5.8	164			1/2	12	1543	700	3086	1400
HAR 6252 *	Single Standup w/Boot ‡	1 3/4	45	3 11/16	94	4.3	122			1/2	12	1543	700	3086	1400

‡ Includes padeye. 5 mm (#10) fasteners, fastener circle: 30 mm (1 3/16).

See HARKEN 2026 Catalogue (page 47)

Footblock Dimensions

Part No.	A in	A mm	B in	B mm	C in	C mm	D in	D mm
6237 / 6244	7/16	11	1 5/8	41.5	1 3/4	45	3/8	9.5

Footblocks

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Height in	Height mm	Weight oz	Weight g	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg	Fasteners (FH) mm
HAR 6237	Single	1 3/4	45	3	76	1	25	3.5	100	1/2	12	1543	700	3086	1400	6
HAR 6244 *	Double	1 3/4	45	3	76	1 3/4	45	5.6	160	1/2	12	1018	466	2036	933	6

* Special Order

60 mm Blocks

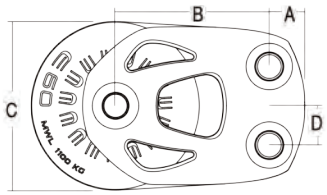
About Element blocks: see feature page at beginning of this section.





Aluminum sideplates direct line to better align with sheaves.







Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Shackle Pin Ø		Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 6220 *	Mastbase/single/swivel	2 3/8	60	4 1/8	105	5.5	155		8	9/16	14	2425	1100	4850	2200
HAR 6222	Mastbase/single/swivel/becket	2 3/8	60	5 1/32	128	6.1	175	5/16	8	9/16	14	2425	1100	4850	2200
HAR 6260	Single/swivel	2 3/8	60	4 3/4	121	6.1	175	1/4	6	9/16	14	2425	1100	4850	2200
HAR 6261	Single/swivel/becket	2 3/8	60	5 3/4	146	7	200	1/4	6	9/16	14	2425	1100	4850	2200
HAR 6262	Fiddle/swivel	2 3/8	60	6 1/2	165	8.4	240	1/4	6	3/8	10	2425	1100	4850	2200
HAR 6263	Fiddle/swivel/becket	2 3/8	60	7 1/8	181	8.75	250	1/4	6	3/8	10	2425	1100	4850	2200
HAR 6264	Fiddle/150 Cam-Matic/swivel/becket	2 3/8	60	7 1/8	181	13	370	1/4	6	3/8	10	1213	550	2426	1100
HAR 6265	Fiddle/150 Cam-Matic/swivel	2 3/8	60	6 1/2	165	12.6	360	1/4	6	3/8	10	900	408	1800	816
HAR 6266	Single/150 Cam-Matic/swivel/becket	2 3/8	60	5 3/4	146	11.2	320	1/4	6	1/2	12	600	272	1200	544
HAR 6269	Double/swivel	2 3/8	60	5 3/4	146	12.4	355	5/16	8	9/16	14	3032	1375	6064	2750
HAR 6270	Double/swivel/becket	2 3/8	60	6 3/4	171	14.7	420	5/16	8	9/16	14	3032	1375	6064	2750
HAR 6272	Triple/swivel	2 3/8	60	5 3/4	146	18.2	520	5/16	8	9/16	14	3638	1650	7276	3300
HAR 6273	Triple/swivel/becket	2 3/8	60	6 1/2	165	18.9	540	5/16	8	9/16	14	3638	1650	7276	3300
HAR 6274	Triple/150 Cam-Matic/swivel	2 3/8	60	5 3/4	146	24.2	690	5/16	8	1/2	12	1499	680	2998	1360
HAR 6275	Triple/150 Cam-Matic/swivelbecket	2 3/8	60	6 1/2	165	24.9	710	5/16	8	1/2	12	1799	816	3598	1632
HAR 6277 *	Stand-up	2 3/8	60	5 1/4	133	13.8	391			9/16	14	2425	1100	4850	2200
HAR 6278	Stand-up/becket	2 3/8	60	6 1/8	155	14.8	419			9/16	14	2425	1100	4850	2200

See HARKEN 2026 Catalogue (page 48)

Footblock Dimensions

Part No.	A in	A mm	B in	B mm	C in	C mm	D in	D mm
6267 / 6268 / 6271 /6276	1/2	12.5	2 5/32	54.5	2 3/8	60	9/16	14

Footblocks

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Height in	Height mm	Weight oz	Weight g	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg	Fasteners (FH) mm
HAR 6267	Single	2 3/8	60	4	102	1 3/16	30	5.6	160	9/16	14	2425	1100	4850	2200	8
HAR 6268	Single/lockoff	2 3/8	60	4	102	1 3/16	30	7.4	210	9/16	14	2425	1100	4850	2200	8
HAR 6271	Double	2 3/8	60	4	102	2 3/16	55	9.3	265	9/16	14	1600	725	3200	1450	8
HAR 6276	Double/lockoff/left	2 3/8	60	4	102	1 3/16	30	7.4	210	9/16	14	2425	1100	4850	2200	8

* Special Order

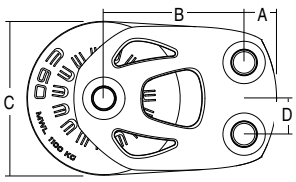
80 mm Blocks

About Element blocks: see feature page at beginning of this section.



Removable headpost lock allows shackle to be fixed or to swivel.





Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Shackle Pin Ø		Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 6221	Mastbase/single/swivel	3 1/8	80	5 1/2	138	12.6	358		10	5/8	16	4850	2200	9700	4400
HAR 6280 *	Stand-up	3 1/8	80	6 9/16	166	23.6	670			5/8	16	4850	2200	9700	4400
HAR 6290	Single/swivel	3 1/8	80	6 3/4	171	16.6	475	3/8	10	5/8	16	4850	2200	9700	4400
HAR 6281 *	Stand-up Fiddle	3 1/8	80	8 11/16	220	28.4	806			9/16	14	4850	2200	9700	4400
HAR 6282 *	Stand-up Fiddle Becket	3 1/8	80	9 11/16	247	29.5	836			9/16	14	4850	2200	9700	4400
HAR 6283 *	Stand-up Becket	3 1/8	80	7 5/8	194	25.8	732			5/8	16	4850	2200	9700	4400
HAR 6291	Single/swivel/becket	3 1/8	80	8	203	18.9	540	3/8	10	5/8	16	4850	2200	9700	4400
HAR 6292	Fiddle/swivel	3 1/8	80	9	229	21.4	610	3/8	10	9/16	14	4850	2200	9700	4400
HAR 6293	Fiddle/swivel/becket	3 1/8	80	10	254	22.4	640	3/8	10	9/16	14	4850	2200	9700	4400
HAR 6296	Double/swivel	3 1/8	80	7 1/2	191	32	915	1/2	12	5/8	16	6064	2750	12128	5500
HAR 6297	Double/swivel/becket	3 1/8	80	8 3/4	222	34.3	980	1/2	12	5/8	16	6064	2750	12128	5500

Footblock Dimensions

Part No.	A in	A mm	B in	B mm	C in	C mm	D in	D mm
6294 / 6295 / 6298 /6299	3/4	19.5	2 13/32	61	3 1/8	80	25/32	19.8

Footblocks

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Height in	Height mm	Weight oz	Weight g	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg	Fasteners (FH) mm
HAR 6294	Single	3 1/8	80	4 1/2	114	1 7/16	36	10.9	310	5/8	16	4850	2200	9700	4400	10
HAR 6295 *	Single/lockoff	3 1/8	80	4 1/2	114	1 7/16	36	14.4	410	5/8	16	4850	2200	9700	4400	10
HAR 6298	Double	3 1/8	80	4 1/2	114	2 9/16	65	20.3	580	5/8	16	3197	1450	6394	2900	10
HAR 6299 *	Single/lockoff/left	3 1/8	80	4 1/2	114	1 7/16	36	14.4	410	5/8	16	4850	2200	9700	4400	10

* Special Order

See HARKEN 2026 Catalogue (page 49)

16 mm

The 16 mm is Harken's smallest block. It is perfect for small synthetic control lines found on high-tech dinghies.

The bearing system uses stainless steel balls in a captive grooved race and has a 113 kg (250 lb) maximum working load—the highest on the market compared to similarly sized blocks.

The 442 uses a spacer and the 404/404HL uses an O-ring to keep the line in the sheave during intermittent loading.

The 467 and 484 use a narrow sheave for extremely small control lines and have a ferrule head for soft attachments. They use the same high load ball system. The 484 features a bronze sheave for added durability.

Use for:

Dinghy control lines	Spinnaker pole trip lines
Big boat leech lines	Outhauls
Downhauls	Cunninghams
Traveler controls	Halyards on prams



Hardened stainless steel inner race for maximum strength-to-weight ratio.



Actual size

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 368	In-line exit *	5/8	16	3	76	.94	27	7/32	5	250	113	1200	544
HAR 376	Forkhead	5/8	16	1 1/8	29	.38	11	7/32	5	250	113	1200	544
HAR 391	Hook-in halyard	5/8	16	1 5/8	41	.5	13	7/32	5	250	113	400	181
HAR 404	Single **	5/8	16	1 1/8	29	.33	10	7/32	5	250	113	1200	544
HAR 404HL *	Single/high-load	5/8	16	1 1/8	29	.33	10	7/32	5	500	226	1200	544
HAR 405	Single/becket	5/8	16	1 1/2	38	.44	12	7/32	5	250	113	1200	544
HAR 406	Double	5/8	16	1 11/16	43	.94	27	7/32	5	450	204	1200	544
HAR 407	Double/becket	5/8	16	2 1/8	54	1	28	7/32	5	450	204	1200	544
HAR 408	Triple	5/8	16	1 13/16	46	1.44	41	7/32	5	700	318	1200	544
HAR 409	Triple/becket	5/8	16	2 1/4	57	1.5	43	7/32	5	700	318	1200	544
HAR 416	Cheek *	5/8	16	1 13/16	46	.44	12	7/32	5	250	113	1200	544
HAR 416HL *	Cheek/high-load	5/8	16	1 13/16	46	.44	12	7/32	5	500	226	1200	544
HAR 417	Single/swivel ***	5/8	16	1 13/16	46	.63	18	7/32	5	250	113	750	339
HAR 421	Through-deck *	5/8	16	2 3/8	60	.63	18	7/32	5	250	113	1200	544
HAR 432	Pivot cheek *	5/8	16	1 3/8	35	.38	11	7/32	5	250	113	750	339
HAR 437	Flip-flop *	5/8	16	1 5/16	34	.75	21	7/32	5	250	113	1200	544

* 4 mm (#8) RH fasteners. ** Contact Harken for replacement O-rings HSB340. *** Shackle pin diameter 4 mm (5/32").

* Special Order

See HARKEN 2026 Catalogue (page 33)

Micro Blocks

Low-friction Micro blocks are compact and lightweight. They are ideal for sailboards, smaller dinghies, and lightly loaded control lines on boats of all sizes.

Micro block sheaves run exclusively on ball bearing systems for fast trim and release under any load. Delrin® ball bearings are UV-stabilized with carbon black for maximum protection. Stainless steel sideplates add strength.

Use for:

Cunninghams/outhauls
Vangs
Traveler controls
Barberhaulers
Flag halyards
Leech cords
Lead car return tackles





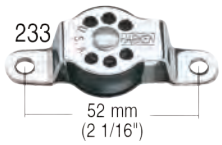






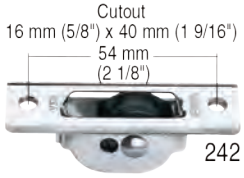


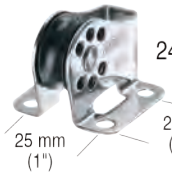
























Micro fiddle with rounded V-Jam, or triples with cam make compact self-cleating tackles.

Delrin is a registered trademark of E.I. du Pont de Nemours and Company or its affiliates.

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Shackle Pin Ø		Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 224	Single	7/8	22	1 1/2	38	.5	14			1/4	6	200	91	1200	544
HAR 225	Single/becket	7/8	22	2	51	.75	21			1/4	6	200	91	1200	544
HAR 226	Double	7/8	22	2	51	1.5	43			1/4	6	350	159	1200	544
HAR 227	Double/becket	7/8	22	2 1/2	64	1.5	43			1/4	6	350	159	1200	544
HAR 228	Triple	7/8	22	2	51	2	57			1/4	6	500	227	1200	544
HAR 229	Triple/becket	7/8	22	2 1/2	64	2.25	64			1/4	6	500	227	1200	544
HAR 230	Triple/471 Carbo-Cam	7/8	22	2	51	3.5	99			1/4	6	500	227	1200	544
HAR 231	Triple/471 Carbo-Cam/becket	7/8	22	2 1/2	64	3.5	99			1/4	6	500	227	1200	544
HAR 232	Traveler	7/8	22	2 3/4	71	1.25	35			1/4	6	200	91	1200	544
HAR 233	Cheek ***	7/8	22	2 1/2	64	.75	21			1/4	6	200	91	1200	544
HAR 234	Single/shackle	7/8	22	2 1/4	57	.75	21	3/16	5	1/4	6	200	91	1200	544
HAR 235	Single/shackle/becket	7/8	22	2 3/4	71	1	28	3/16	5	1/4	6	200	91	1200	544
HAR 242	Through-deck ***	7/8	22	2 5/8	67	1	28			1/4	6	200	91	1200	544
HAR 243	Upright ***	7/8	22	1 1/2	38	1	28			1/4	6	200	91	1200	544
HAR 244	Fiddle/V-Jam *	7/8	22	3 1/2	89	2	57	3/16	5	1/4	6	350	159	1200	544
HAR 245	Fiddle/V-Jam/becket **	7/8	22	4	102	2	57	3/16	5	1/4	6	350	159	1200	544
HAR 292	Single/swivel	7/8	22	2 3/8	60	1	28	5/32	4	1/4	6	200	91	1200	544
HAR 377	Forkhead	7/8	22	1 21/32	42	.56	16			1/4	6	200	91	1200	544

* Use w/225 or 235. ** Use w/226. *** #10 (5 mm) RH fasteners

* Special Order

See HARKEN 2026 Catalogue (page 34)

Line/Wire High Strength Blocks

Lightweight, low-friction wire blocks carry wire halyards and high-strength control lines on boats of all sizes.

High-load composite bearings carry axial loads. Hard Lube-anodized sheave for strength and corrosion resistance.

25 mm (1") wire blocks use low-friction thrust washers. 38 mm (1.5") and 51 mm (2") wire blocks feature sideload balls between the sheave and the sideplate to minimize friction from unfair leads.

466 features a forkhead and becket making it useful for vangs, halyards and control lines.

Use for:

Wire halyards
Vangs
Control lines





High-load composite bearings handle wire and high-strength line.





Sideplates rotate to insert preswaged/ Nico-pressed wire fittings.



© Medora Media / Doug Wake



Cutout
302 11 mm (13/32") x 39 mm (1 17/32")
306 13 mm (17/32") x 59 mm (2 5/16")
310 14 mm (9/16") x 73 mm (2 23/32")







Part No.	Description	Sheave ø in	Sheave ø mm	Weight oz	Weight g	Shackle Pin Ø		Max Wire Ø in	Max Wire Ø mm	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 300	Single	1	25	1	28	3/16	5	3/32	2	5/32	4	1000	454	2000	907
HAR 301	Cheek ‡ *	1	25	1.25	35			3/32	2	5/32	4	1000	454	2000	907
HAR 302	Through-deck *	1	25	1	28			3/32	2	5/32	4	1000	454	2000	907
HAR 304	Single	1 1/2	38	2.75	78	1/4	6	1/8	3	3/16	5	1500	680	3000	1361
HAR 305	Cheek ‡ *	1 1/2	38	3.25	92			1/8	3	3/16	5	1500	680	3000	1361
HAR 306	Through-deck *	1 1/2	38	3.25	92			1/8	3	3/16	5	1500	680	3000	1361
HAR 308	Single	2	51	5.25	149	5/16	8	3/16	5	1/4	6	2000	907	4000	1814
HAR 310	Through-deck **	2	51	5.75	163			3/16	5	1/4	6	2000	907	4000	1814
HAR 312	Single/becket	1	25	1.25	35	3/16	5	3/32	2	5/32	4	1000	454	2000	907
HAR 313	Single/becket	1 1/2	38	3	85	1/4	6	1/8	3	3/16	5	1500	680	3000	1361
HAR 320	Ferrule head	1 1/2	38	3	85			1/8	3	3/16	5	1500	680	3000	1361

‡ Fasteners included. * #10 (5 mm) RH fasteners ** 6 mm (1/4") RH fasteners. *** 8 mm (5/16") RH fasteners
* Special Order

See HARKEN 2026 Catalogue (page 42)

Fly Blocks

Harken soft-attach Fly blocks are designed to provide strength without mass, providing sailors with big power in a low-aero package. Designed specifically for high-tech line, these efficient blocks have an incredible working load for their small size. Fly blocks are perfect for use on foiling dinghies and sportboats and for vang cascades and backstay systems on Grand-Prix racers.

18 mm

18 mm blocks feature an integrated stainless steel inner race and rivet, stainless steel ball bearings, and composite fiber-reinforced sideplates.

29 & 40 mm

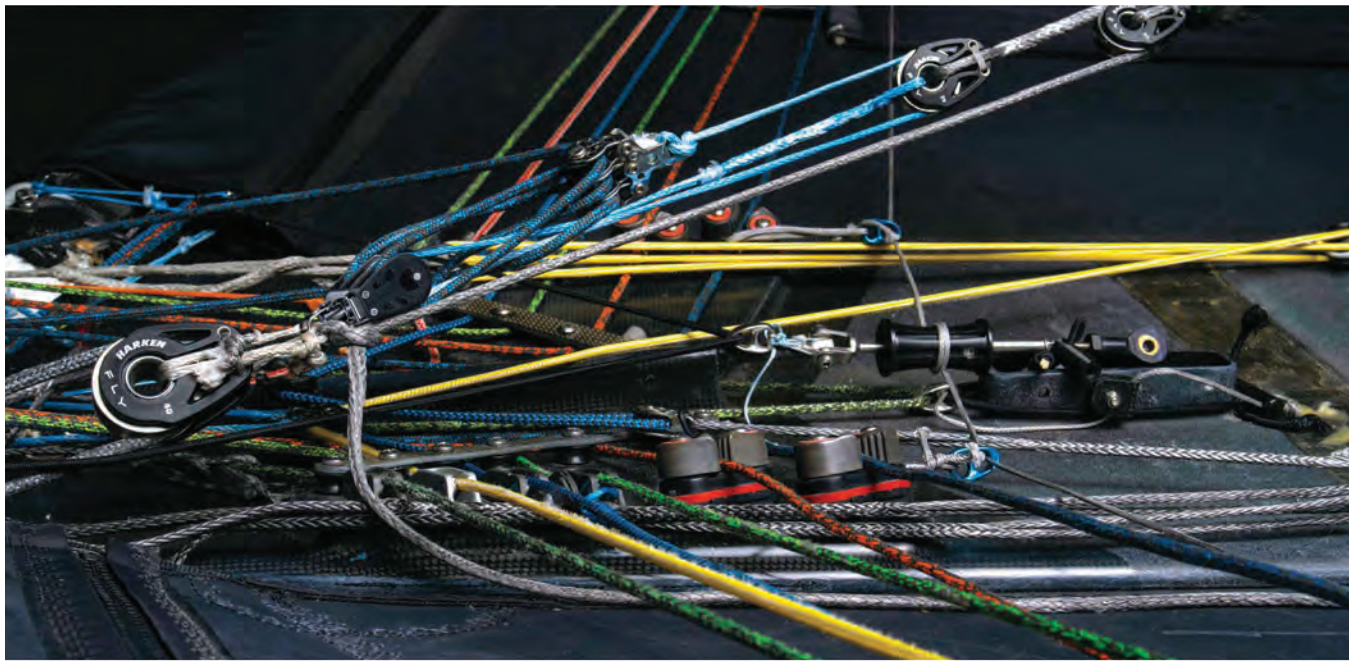
29 and 40 mm blocks feature a one-piece titanium outer race/sheave, stainless steel ball bearings and inner race, and composite fiber-reinforced sideplates.



Use the 2161 "tight cinching" 18 mm in applications where the block needs to be secured extremely close to the deck.



2161 2698 2158 2180 2171* 2173*



Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 2158	18 mm Double	23/32	18	1 3/32	28	.6	17	3/16	5	450	204	1500	680
HAR 2161	18 mm Single/narrow	23/32	18	1 3/32	28	.25	7.2	3/16	5	275	125	992	450
HAR 2171 *	29 mm Single ‡	1 1/8	29	1 3/4	44	.92	26	9/32	7	770	350	1540	700
HAR 2173 *	40 mm Single ‡	1 9/16	40	2 5/16	58	2.2	62.2	11/32	9	1435	650	2870	1300
HAR 2180	18 mm Triple	23/32	18	1 3/32	28	1	28.4	3/16	5	600	272	1100	499
HAR 2698	18 mm Single	23/32	18	1 3/32	28	.25	7.2	3/16	5	275	125	992	450

‡ Lashing line not included.
* Special Order

See HARKEN 2026 Catalogue (page 14)



CARBO AIR BLOCKS



These smooth-running powerful performers make trimming easy, no matter how hard the wind blows. Carbo Air blocks are made of tough reinforced composite in a size and style to fit any system: singles, doubles, triples, quads, and quints; ratchets and fiddles; soft and hard attach; 18 - 75 mm. Perfect for main, jib and spinnaker sheets on dinghies and sportboats; control lines on boats of all sizes.

High-strength, lightweight

- Lightweight, strong and reliable fiber-reinforced composite construction.
- Open Air block design eliminates unnecessary material to reduce weight.

Stands up to sun, salt, and time

- Ball bearings, sheave, and sideplates are UV-stabilized.

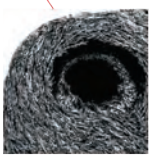
Low-friction efficiency for fast trim and release

- Free-running ball bearings roll on curved races, efficiently dispersing load for a higher strength block.





Delrin® acetal resin, UV-stabilized:
Ball bearings



Carbo composite:
Sideplates, sheave



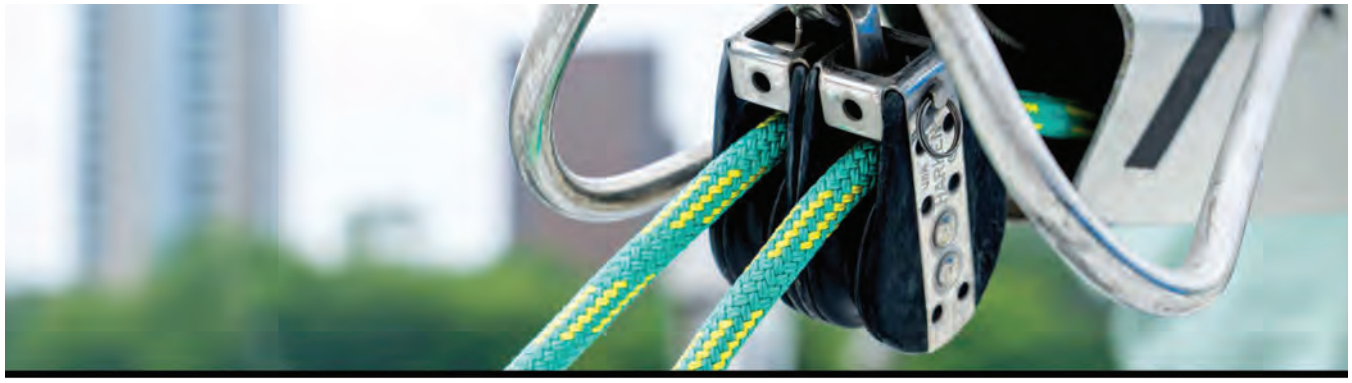


Shackle blocks lock in two directions or swivel to keep line from twisting

- Cam-Lock or U-Lock allows shackle to be fixed or to swivel.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.
Delrin is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

See HARKEN 2026 Catalogue (page 18-24)



CLASSIC BLOCKS

The timeless styling of our Classic block line enhances your boat's traditional look. Strong, dependable and exceptionally free-running, these compact blocks are the foundation of the Harken block line. We offer them in multiple configurations for dinghies, scows, beachcats, iceboats, and small offshore racers and cruisers.





Delrin® UV-stabilized:
Ball bearings



316 Stainless steel:
Sideplate straps

Corrosion-resistant, maintain beauty and strength over time

- Ball bearings, sheave, and sideplates are UV-stabilized.
- Corrosion-resistant stainless steel straps reinforce blocks.

Fast trim and release under load

- Free-running ball bearings roll on flat races with minimal friction.





Shackle blocks lock in two directions or swivel to keep line from twisting

- Set screw allows shackle to be fixed or to swivel.

Delrin is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.
DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

See HARKEN 2026 Catalogue (page 35-38)



BLACK MAGIC AIR BLOCKS



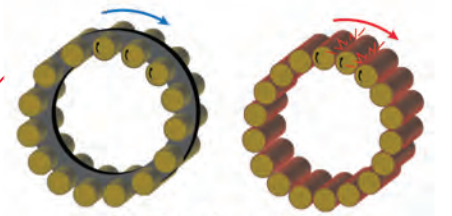
Black Magic Air blocks are a top favorite of Big Boat performance racers and cruisers. These lightweight, free-running, powerful performers are used for sail controls that see lots of action: mainsheet, runner, halyard, and spinnaker systems. Offered in 45 – 150 mm sizes, with low-load versions in 57 and 75 mm ranges.

High-strength, lightweight

- Aluminum sheaves and sideplates.
- CNC sculpted for optimal strength-to-weight.

Stands up to sun, salt, and time

- Sideplates and sheaves Hard Lube-anodized for maximum UV protection and a smooth surface.
- Dissimilar metals isolated to prevent corrosion.



Caged vs. Uncaged Rollers

Low-friction efficiency for fast trim and release

- Center cage keeps Torlon® roller bearings separated and parallel to reduce friction.
- Captive Delrin® ball bearings carry side loads.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

See HARKEN 2026 Catalogue (page 50-58)

Jib Leads & Fairleads

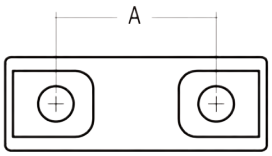
Bolt-Down Fairleads

Harken Bolt-Down Fairleads are used as shallow-angle line deflectors on boats 6 - 21 m (20 - 70'). These weight-saving fairleads are built of 6061-T6 Hard Lube-anodized aluminum for durability. Smooth surfaces and radiused center holes minimize line wear.

Bolt-Down Fairleads are available in multiple configurations with 12-, 14-, and 16-mm hole sizes.

Grand Prix Jib Leads

Strong aluminum jib leads deflect jib sheets to winches, preventing overrides. These jib leads have two small drilled holes through which a loop can be spliced to attach the hobble. This temporarily secures the jib/genoa clew to free-up a winch for mark roundings.



Fastener spacing



TECH TIP

Hex-head bolts are ideal for one-person through-deck fastening as the hexagonal head is held securely by the sides of the inset when being tightened.

See HARKEN 2026 Catalogue (page 101)



Part No.	Description	Length in	Length mm	Width in	Width mm	Height in	Height mm	Max line ø in	Max line ø mm	Weight oz	Weight g	Fasteners ‡ in	Fasteners ‡ mm	A mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
Bolt-Down Fairlead																		
HAR 3274	1 - 12 mm hole	1 7/8	48	11/16	18	1 1/8	28.2	3/8	10	.99	28	1/4	6	32	2000	908	4000	1816
HAR 3275	2 - 12 mm holes	2 7/8	74	11/16	18	1 1/8	28.2	3/8	10	1.73	49	1/4	6	57.4	2000	908	4000	1816
HAR 3276 *	3 - 12 mm holes	3 7/8	99	11/16	18	1 1/8	28.2	3/8	10	2.43	69	1/4	6	82.8	2000	908	4000	1816
HAR 9300 *	1 - 14 mm hole	1 6/7	47	6/7	21.6	1 1/7	29.3	1/2	12	.843	23.9	1/4	6	30	2204	1000	4409	2000
HAR 9301 *	2 - 14 mm holes	3	76	6/7	21.6	1 1/7	29.3	1/2	12	1.6	45.4	1/4	6	58.7	2204	1000	4409	2000
HAR 9302 *	3 - 14 mm holes	3 7/16	87	6/7	21.6	1 1/7	29.3	1/2	12	2.02	57.5	5/16	8	28.7	3968	1800	7936	3600
HAR 9303 *	4 - 14 mm holes	4 9/16	116	6/7	21.6	1 1/7	29.3	1/2	12	2.8	79.2	5/16	8	57.5	3968	1800	7936	3600
HAR 9304 *	5 - 14 mm holes	5 5/7	145	6/7	21.6	1 1/7	29.3	1/2	12	3.56	100.9	5/16	8	86.2	3968	1800	7936	3600
HAR 9305 *	6 - 14 mm holes	6 5/6	174	6/7	21.6	1 1/7	29.3	1/2	12	4.2	119.3	5/16	8	57.5	5952	2700	11905	5400
HAR 3277	1 - 16 mm hole	2 3/8	60	7/8	22	1 1/4	31.8	9/16	14	1.66	47	5/16	8	37	4000	1816	8000	3632
HAR 3278	2 - 16 mm holes	3 9/16	91	7/8	22	1 1/4	31.8	9/16	14	2.82	80	5/16	8	67.5	4000	1816	8000	3632
HAR 3279 *	3 - 16 mm holes	4 3/4	121	7/8	22	1 1/4	31.8	9/16	14	3.95	112	5/16	8	98	4000	1816	8000	3632
Jib Lead																		
HAR 3280 *	Midrange	2 15/16	75	7/8	22	1 7/16	37	1/2	12	2.97	84	1/4	6	55	1500	680	3000	1360
HAR 3281 *	Big Boat	4 15/16	125	1 1/8	29	2 5/16	58	7/8	22	9.72	276	7/16 ‡‡	10 ‡‡‡	96	4250	1930	8500	3860

‡ HH, SH, CH in 6 mm, 5/16" and 8 mm. Size 1/4" in SH only. ‡‡7/16" in HH and SH. ‡‡‡10 mm in HH, SH and CH.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

* Special Order - may have stock

Harken Vang-Master

Harken is now collaborating with Marine Products Engineering to offer Vang-Master rigid pneumatic boom vangs. Vang-Master boom vangs use air pressure to provide extension force to hold the boom up, without the need for metal springs. This reduces parts and weight while keeping operation squeak free, providing an infinitely adjustable, turnkey solution for maintaining optimal mainsail shape. Construction is hardcoat-anodized 6061-T6 aluminum, making them light and strong. Tubing and end fittings are threaded together eliminating fasteners and dissimilar metals to reduce corrosion.

Harken Vang-Masters are designed to be easy to install. Options available are external purchase systems which feature Harken hardware exclusively. They come pre-measured, spliced and finished with line specifically-selected for the application.

Harken distribution makes the vangs easy to obtain, while offering fast turnaround on spare parts and technical service.

Vang-Masters are available in eight standard sizes for boats 5-17 m (18-56 ft). Stainless steel mast and boom fitting and custom lengths are also available. Contact Harken for a price and lead time.



Purchase systems are available for each Vang-Master size with 4:1 or 6:1 mechanical advantage in single- or double-ended configurations.



© Steve Jost



Part No.	Description	Pin centre length (closed) in	Pin centre length (closed) mm	Pin centre length (open) in	Pin centre length (open) mm	Stroke in	Stroke mm	Weight lb	Weight kg	Pin Ø in	Pin Ø mm	Jaw width in	Jaw width mm	Maximum return force lb	Maximum return force kg
HAR VM13240 *	Vang-Master 1	32	813	40	1016	8	203	2.75	1.25	3/8	10	1/4	6	350	159
HAR VM24353 *	Vang-Master 2	43	1092	53	1346	10	254	3.4	1.54	3/8	10	1/4	6	350	159
HAR VM33444 *	Vang-Master 3	34	864	44	1118	10	254	4.35	1.97	1/2	12.7	1/4	6	500	227
HAR VM44656 *	Vang-Master 4	46	1168	56	1422	10	254	5.5	2.49	1/2	12.7	1/2	12	500	227
HAR VM54860 *	Vang-Master 5	48	1219	60	1524	12	305	8.3	3.76	1/2	12.7	1/2	12	800	363
HAR VM66274 *	Vang-Master 6	62	1575	74	1880	12	305	10	4.54	5/8	15.9	5/8	16	800	363
HAR VM76274 *	Vang-Master 7	62	1575	74	1880	12	305	12.9	5.85	5/8	15.9	5/8	16	1500	680
HAR VM87385 *	Vang-Master 8	73	1854	85	2159	12	305	14.6	6.62	5/8	15.9	5/8	16	1500	680

* Special Order - may have stock

See HARKEN 2026 Catalogue (page 166-169)

Vang-Master Purchase Systems

Select Purchase System

Standard purchase systems are available for each Vang-Master size with 4:1 or 6:1 mechanical advantage in single- or double-ended configurations.

Systems are pre-measured, spliced and supplied with line specifically selected for the application.


7500*


7501*


7502*


7503*


7504*


7505*


7506*


7507*


7508*


7509*


7510*


7511*

Part No.	Description	Purchase	Includes	Use with
HAR 7500 *	4:1 Single-ended 40 mm Carbo	4:1	(1) 2655 fiddle, (1) 2658 fiddle w/Cam-Matic/becket, 6 mm line	VM1, VM2, VM3
HAR 7501 *	4:1 Double-ended 40 mm Carbo	4:1	(1) 2638 double, (3) 2636 single, 6 mm line	VM1, VM2, VM3
HAR 7502 *	6:1 Single-ended 40 mm Carbo	6:1	(1) 2640 triple, (1) 2613 triple w/Cam-Matic/becket, 6 mm line	VM1, VM2, VM3
HAR 7503 *	6:1 Double-ended 40 mm Carbo	6:1	(1) 2640 triple, (1) 2638 double, (2) 2636 single, 6 mm line	VM1, VM2, VM3
HAR 7504 *	4:1 Single-ended 57 mm Carbo	4:1	(1) 2621 fiddle, (1) 2676 fiddle w/Cam-Matic/becket, 8 mm line	VM4, VM5, VM6
HAR 7505 *	4:1 Double-ended 57 mm Carbo	4:1	(1) 2602 double, (3) 2600 single, 8 mm line	VM4, VM5, VM6
HAR 7506 *	6:1 Single-ended 57 mm Carbo	6:1	(1) 2604 triple, (1) 2630 triple w/Cam-Matic/becket, 8 mm line	VM4, VM5, VM6
HAR 7507 *	6:1 Double-ended 57 mm Carbo	6:1	(1) 2604 triple, (1) 2602 double, (2) 2600 single, 8 mm line	VM4, VM5, VM6
HAR 7508 *	4:1 Single-ended 75 mm Carbo	4:1	(1) 2690 fiddle, (1) 2697 fiddle w/Cam-Matic/becket, 10 mm line	VM7, VM8
HAR 7509 *	4:1 Double-ended 75 mm Carbo	4:1	(1) 2662 double, (3) 2660 single, 10 mm line	VM7, VM8
HAR 7510 *	6:1 Single-ended 75 mm Carbo	6:1	(1) 2664 triple, (1) 2686 triple w/Cam-Matic/becket, 10 mm line	VM7, VM8
HAR 7511 *	6:1 Double-ended 75 mm Carbo	6:1	(1) 2664 triple, (1) 2662 double, (2) 2660 single, 10 mm line	VM7, VM8

* Special Order

See HARKEN 2026 Catalogue (page 168)

Ball Bearing Cam Cleats



Micro



468

Standard



150

Offshore



280



412





471



365



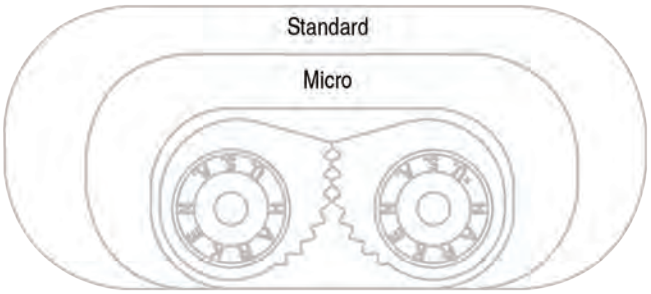
491*

CAM-MATIC

Offshore

Standard

Micro



Part No.	Description	Height in	Height mm	Length in	Length mm	Width in	Width mm	Weight oz	Weight g	Line Ø Min in	Line Ø Min mm	Line Ø Max in	Line Ø Max mm	Fastener Spacing in	Fastener Spacing mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg	Pawls
HAR 150	Cam-Matic *	1 3/16	30	2 9/16	65	1 1/4	32	2.5	71	1/8	3	1/2	12	1 1/2	38	300	136	750	340	Aluminum
HAR 280	Offshore Cam-Matic ‡	1 7/16	37	3 3/8	85	1 1/2	38	5.25	148	1/4	6	5/8	16	2 1/16	52	500	227	1000	454	Aluminum
HAR 468	Micro Cam-Matic **	7/8	22	1 7/8	48	15/16	24	.93	26	3/32	2	1/4	6	1 1/16	27	200	91	400	181	Aluminum
HAR 365	Carbo-Cam *	1 3/16	30	2 9/16	65	1 1/4	32	1.44	42	1/8	3	3/8	10	1 1/2	38	200	91	500	227	Plastic carbon-matrix
HAR 412	Double Cam-Matic *	2 1/16	53	3 17/32	81	1 1/4	32	4.5	126	5/16	8	3/8	10	2 7/16	62	500	227	750	340	Aluminum
HAR 471	Micro Carbo-Cam *	7/8	22	1 7/8	48	15/16	24	.67	19	1/8	3	1/4	6	1 1/16	27	150	68	300	136	Plastic carbon-matrix

* #10 (5 mm) FH fasteners. ** #8 (4 mm) RH fasteners. ‡ 6 mm (1/4") FH fasteners.
* Special Order

Cam Kits



472*



473*
326*



469*
327*



499*
497*



498*
496*



474*
458*



470
459*

Part No.	Description	Cam	Fairlead	Weight oz	Weight g
HAR 470	Cam-Matic/X-Treme Angle Fairlead	468	476	1.9	55

* Special Order

13 - RIGGING HARDWARE

See HARKEN 2026 Catalogue (page 74)

Cam Cleat Accessories

















Micro	Standard	Offshore
297	145	283
294 *	296	
293	295	
475 *	298	
476	375	
495 *	494	
424	425	
281.PAIR	137.PAIR	282.PAIR
	201.PAIR	

* Special Order

Wedge kits and risers are available to improve cam angles. Underdeck shims are included with angled risers and wedges for easy mounting.



424
425

Lightweight, fiber-reinforced Flairleads feature stainless wearguards for long life and are available in various colors for color-coding cams.



438

The 438 adapter plate is perfect for use on masts and booms. It raises the cleat off the mast to improve the cleating angle and control.

Harken Cam Cleat Accessories

HAR 137NP	Large S/S eye strap
HAR 145	Cam-Matic wedge kit
HAR 150KIT	Cam-Cleat rebuild kit
HAR 281NP	Eyestrap for Micro-Cam
HAR 282NP	Eyestrap for 280 offshore cam
HAR 283	Offshore cam wedge kit
HAR 293	Flat Micro-Cam riser
HAR 295	Flat Cam-Matic riser
HAR 296	Angled Cam-Matic riser
HAR 297	Micro-Cam wedge kit
HAR 298	Cam-Matic wire fairlead kit
HAR 375	Xtreme angle fairlead
HAR 424B	Micro fairlead - Black
HAR 424BL	Micro fairlead - Blue
HAR 424G	Micro fairlead - Green
HAR 424R	Micro fairlead - Red
HAR 424Y	Micro fairlead - Yellow
HAR 425B	Standard fairlead - Black
HAR 425BL	Standard fairlead - Blue
HAR 425G	Standard fairlead - Green
HAR 425R	Standard fairlead - Red
HAR 425Y	Standard fairlead - Yellow
HAR 438	Cam cleat adapter plate
HAR 494	Fast release fairlead

See HARKEN 2026 Catalogue (page 75-76)

Harken Grip&Go Winch Handles



Lightweight and fast-acting, the Grip&Go ball bearing locking winch handle makes grinding winches easy. Racers will manoeuvre faster and cruisers will have confidence in a reliable and easy to use winch handle.

- Easy one-hand operation: Ergonomically-designed, full-length grab bar locks/unlocks patented locking mechanism to remove the handle from the winch
- Marine-grade stainless steel locking mechanism
- SpeedGrip models offer an independent swivel between knob and hand grip keeps wrists and arms in best power position for fast trimming with palm at low loads and powerful two-handed grinding when loads are high
- Carbo version is UV-stabilized, fibre-reinforced composite for protection against exposure to sun and salt
- Aluminum version is anodized for maximum corrosion protection

HAR B10HOT	SpeedGrip Grip&Go/Carbo, Length: 9-1/2" x Height: 7-1/8"
HAR B10GGASG	SpeedGrip Grip&Go/Aluminum, Length: 10" x Height: 8-5/16"
HAR B10GGAD	Standard Grip&Go/Double grip/Aluminum, Length: 10" x Height: 12-1/3"

Harken Ball Bearing Handles



These robust low-friction ball bearing handles match a wide range of cranking needs for both racers and cruisers. Handles feature a ball bearing grip that efficiently transmit power into the winch. All handles fit international standard winch sockets.
Locking vs Plain: Lock-in handles are easy to engage and release with a thumb switch. Racers prefer plain handles because they are faster to insert.
Handle Length: 10" (254 mm) is the most comfortable handle length for most sailors. Published power ratios are based on this length. 8" (203 mm) handles grind faster because they swing through a smaller circle, but power is reduced by 20%. 8" (203 mm) handles are ideal for smaller boats and light air where speed is more important than power.
SpeedGrip handles are designed for the serious racer and effective in both light and heavy air conditions. The unique grip permits low-load fast cranking using the palm, and powerful two-handed grinding when loads are high. The low profile B8ASGLP is made for fast, one-handed cranking where speed is the concern, not power.









Part #	Length	Description	Height
Standard			
HAR B10ADL	10"	Locking aluminum double	11-1/2"
HAR B10AL	10"	Locking aluminum	7"
HAR B10AP	10"	Plain aluminum	7"
HAR B8AL	8"	Locking aluminum	6-5/8"
HAR B8AP	8"	Plain aluminum	6-5/8"
SpeedGrip			
HAR B10ASG	10"	SpeedGrip aluminum	7-7/16"
HAR B8ASG	8"	SpeedGrip aluminum	7-3/16"
HAR B8ASGLP	8"	SpeedGrip low profile aluminum	4-13/16"

Harken Accessories & Service Kits

HAR BK4512	Winch service kit (10 pawls/20 springs)
HAR S00008003	Winch pawl, 8 dia
HAR BK4513	Tube winch grease, 100ml
HAR BK4521	Pawl oil, bottle



BK4512



BK4513



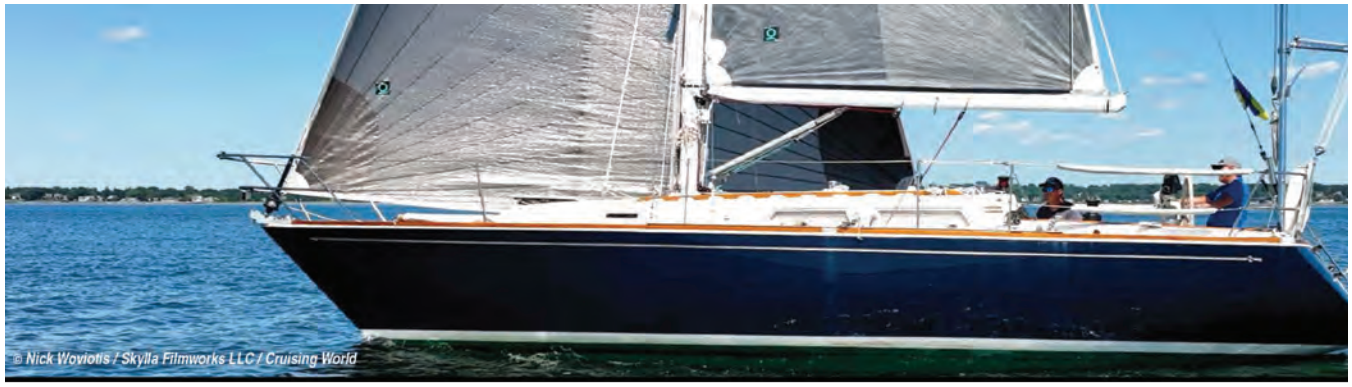
BK4521


S00008003

► *Also See* McLube Sailkote & OneDrop pg 06-022

► *Also See* Winch Handle Accessories pg 13-090

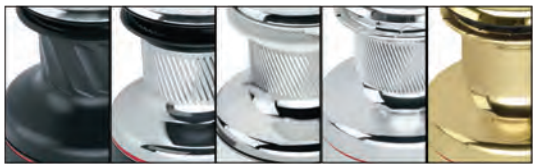
See HARKEN 2026 Catalogue (page 234-236)



RADIAL LINE WINCHES

Harken Radial Line winches have successfully balanced the need for a secure grip and line longevity with smooth, controlled easing while under load. Details sailors will appreciate: smaller winches that carry higher loads, stress-free seasonal maintenance, and one-person installation with easy upgrades to power. Nine sizes in multiple styles and finishes: aluminum, chrome, and bronze; 1-, 2-, and 3-speed self-tailing; manual, electric, or hydraulic drives.





Maximum holding power with minimum line wear

- Nonabrasive diagonal ribs on gripping surface hold line securely and reduce line wear; ribs shaped for each winch size and drum material.

Smooth, controlled easing

- Patented angle of ribs drives line wraps down when easing to keep them on area of drum that provides best control.

High-strength, lightweight

- Weight savings of 25 to 50 percent compared to Harken Classic winch line.
- High-strength composite roller bearings and bushings reduce friction under load.
- Load-carrying gears and pins are 17-4 PH stainless steel for strength, corrosion resistance.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

See HARKEN 2026 Catalogue (page 206-213)



PERFORMA WINCHES

Harken Performa winches combine the high-efficiency of the Radial line with the sandblasted grip of Harken carbon-fiber racing winches for powerful hybrids. Optimized to handle the high-strength line used on sport-boats and performance cruisers, Performa winches are a great solution for crew who don't wish to invest in carbon winches or who need racing winches in smaller sizes. Winches come in self-tailing, plain-top, or Quattro styles; manual, electric (12- or 24-volt), or hydraulic drives. Available in sizes 20 to 80 to complement Harken's carbon line.



Maximum holding power for high-tech line

- Sandblasted drums and ribs optimized for halyard and sheeting applications using small-diameter, high-strength line.

Trim and ease sails quickly and easily

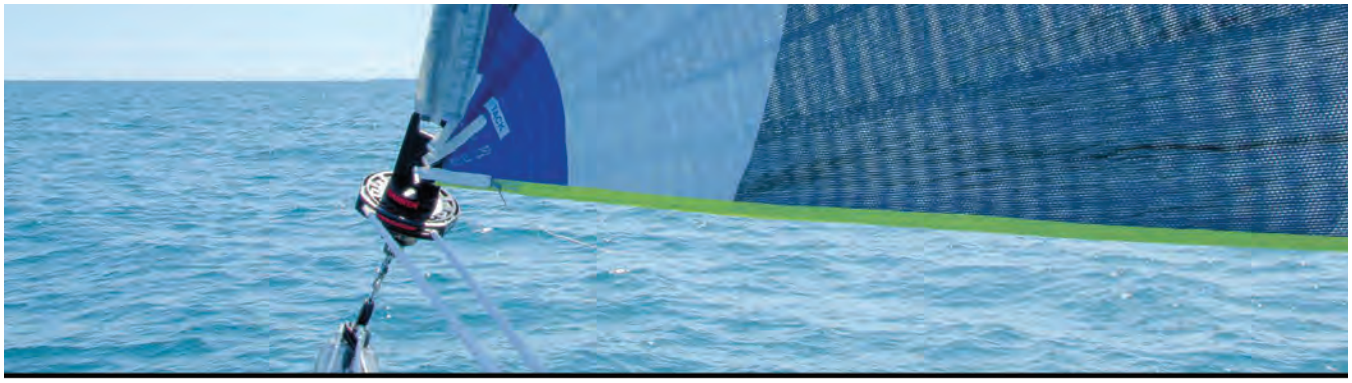
- Patented angle of ribs drives line wraps down when easing to keep them on area of drum that provides best control.
- Transfer high loads to the winch with fewer wraps.

High-strength, lightweight

- Lightweight aluminum drum features an integrated skirt.
- High-strength composite roller and ball thrust bearings reduce friction under load.
- Load-carrying gears and pins are 17-4 PH stainless steel for strength, corrosion resistance.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

See HARKEN 2026 Catalogue (page 214-217)



REFLEX FURLING

In a quickly-evolving environment, the Harken Reflex furling system is pushing free-flying sail furling forward. The patented Reflex system provides sailors confidence that their free-flying asymmetrical spinnakers, gennakers, and code sails will furl completely with speed and control. Pull the furling line and the compact drive unit reacts reflexively to rotate the torsion cable, immediately transferring torque to the head. The head swivel reacts instantly, spinning from top to bottom where perfect furls must start. Reflex furling requires much less luff tension to transfer torque than earlier technology, making it the perfect solution for today's budding cable-less code sail technology which requires about half the luff loads previously required. And whether the Reflex torsion cable is specified, or in applications where the head swivel and a tack plate are sewn directly to the sail, Reflex furling's quick release geometry allows crews to use multiple sails with the same bottom unit.

Three sizes:

Unit 1 is rated at 1.5T MWL for boats to 11 m (36').
Unit 2 is rated at 2.5T MWL for boats up to 14 m (45').
Unit 3 is rated at 4.5T MWL for boats up to 17.4 m (58').



Unit 1: 7351.10
Unit 2: 7352.10
Unit 3: 7353.10

Complete even roll-up, tight wrap

- Low-friction ball bearing tack swivel allows the upper part of the sail to furl first.

Strong, lightweight

- Large diameter hardcoat-anodized 6061-T6 aluminum drive sheave.
- Torlon® ball bearings reduce friction, simplify maintenance.

Holds line securely

- Flexible polycarbonate alloy cowling allows rope to be easily fed into drive sheave without tools; keeps rope captive.
- Offset holes in drive sheave grip rope securely when furling.
- Stripper and feeder work together to prevent furling line from jamming.



Torlon is a registered trademark of Solvay Advanced Polymers L.L.C.

See HARKEN 2026 Catalogue (page 176-182)



MKIV & MKIV OCEAN JIB REEFING & FURLING

MKIV furlers are some of the most preferred products in the Harken product line due to their high performance, reliability and ability to be reconfigured for racing. Now, Harken introduces MKIV Ocean offering MKIV quality, specifically configured for the cruising sailor. It is engineered with strength, longevity, ease of use, at the right price without extra features cruisers might not need.

For occasional racers, the MKIV line is engineered with ease, durability, and winning in mind. The split drum can be removed easily for use with racing sails, providing the longest possible luff length. The independent swivel supports optimal sail shape.



MKIV

MKIV Ocean



Foil joints

Low-friction efficiency for easy furling and reefing

- Multiple rows of Torlon® ball bearings in high-load areas minimize friction.
- Stacked bearing races evenly distribute radial and thrust loads; drum and halyard swivel turn freely under load.
- Foils rotate around headstay so headstay load is isolated from the furling unit for easy furling.
- Large inner spool diameter increases mechanical advantage for powerful reefing and furling.

Stands up to sun, salt, and time

- Aluminum line guard, torque tube, and swivels deep-saturation hardcoat-anodized, UV-stabilized for durability.
- Line guard polyurethane-coated for wear protection.
- Specially formulated low-stretch black line is abrasion and UV-resistant; standard on units 0, 1, 2.
- Aerodynamic (MKIV) and round (MKIV Ocean), foils handle extreme reefing loads.
- Triple-interlock foil joints withstand years of torque loading: foil connectors geometric shape interlocks with foil; secures with syringe-injected adhesive; screws provide final lock.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

See HARKEN 2026 Catalogue (page 186-191)



Glomérule, TRICAT 30, 9.14 m (30'), naval architect: Jack Michal / Antoine Houdet © Tricat / Antoine Houdet

CB TRAVELERS & GENOA LEAD CARS



Harken ball bearing traveler and genoa lead cars with multipart purchases allow easy adjustment of loaded sails from the cockpit. Whether racing or cruising, these smooth-rolling systems pay huge dividends in sail control and are safer and faster than playing the sheet. Patented CB (captive bearing) systems are available in four sizes to fit boats from the smallest dinghies to big boats. Non-CB systems (CRX, Mini-Maxi, and Maxi) are offered for larger yachts.

Strong, corrosion-resistant cars and track stand up to sun, salt, and time

- One-piece, 6061-T6 aluminum cars Hard Lube-anodized, UV-stabilized.
- Cars CNC sculpted to remove excess weight.
- Track is 6061-T6 aluminum, hardcoat-anodized.

Low-friction ball bearing cars for easy adjustment under load

- Torlon® bearings roll smoothly under both high and low loads.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.
Torlon is a registered trademark of Solvay Advanced Polymers L.L.C.

See HARKEN 2026 Catalogue (page 108-122)





Easy loading and maintenance

- CB wire retaining clips and composite corner keepers keep ball bearings captive when car is off the track.



Choice of end-boom or mid-boom configurations

- Use with high-beam track when raising traveler out of cockpit.



Cost-effective retrofit options

- CB+ cars can be modified to run on old style Harken non-CB track supplied until 2003; upgrade cars without replacing track. Look for the plus sign on the end of the car to confirm that it is a CB+ car.

Replacement kits restore traveler performance

- Harken replacement traveler kits are the fastest, easiest way to replace an old traveler with one that fits and works correctly. Take the guesswork out of picking the right parts.
- Five boxed kits come in three sizes: two Small Boat, two Midrange, and one Big Boat.
- Kits meet installation requirements of boats from 5.5 – 13.4 m (18 – 44').
- Kits include car and end controls; purchase track and fasteners separately.

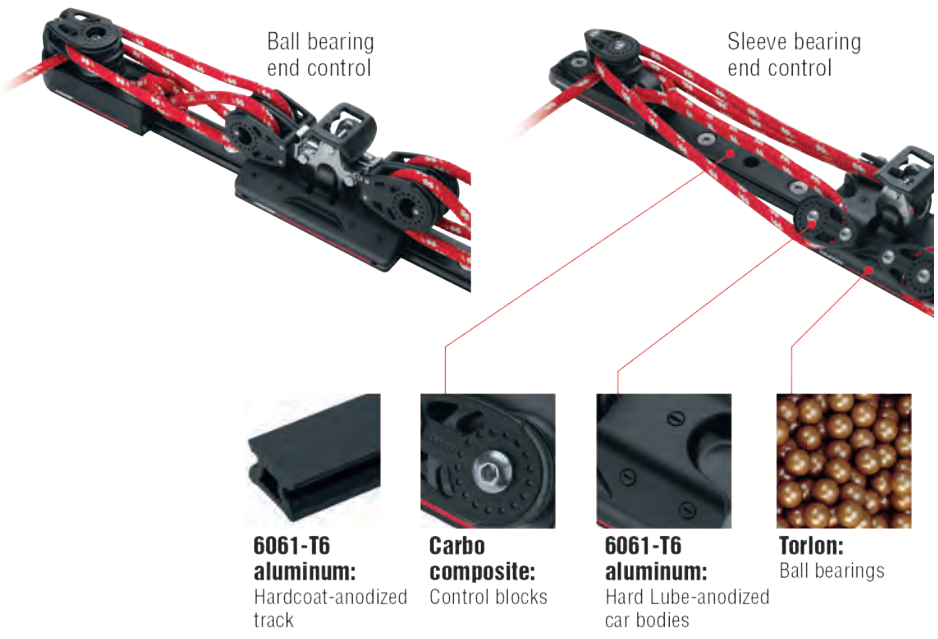


Ball or roller bearing control block options

- Stand-up toggles with ears attach Carbo or Black Magic control blocks for 2:1 up to 6:1 systems.
- Pair with Carbo ball bearing end controls for reduced friction and smooth-running system.
- Carbo-Cam or Cam-Matic cleats keep weight minimal.

Sleeve bearing control block options

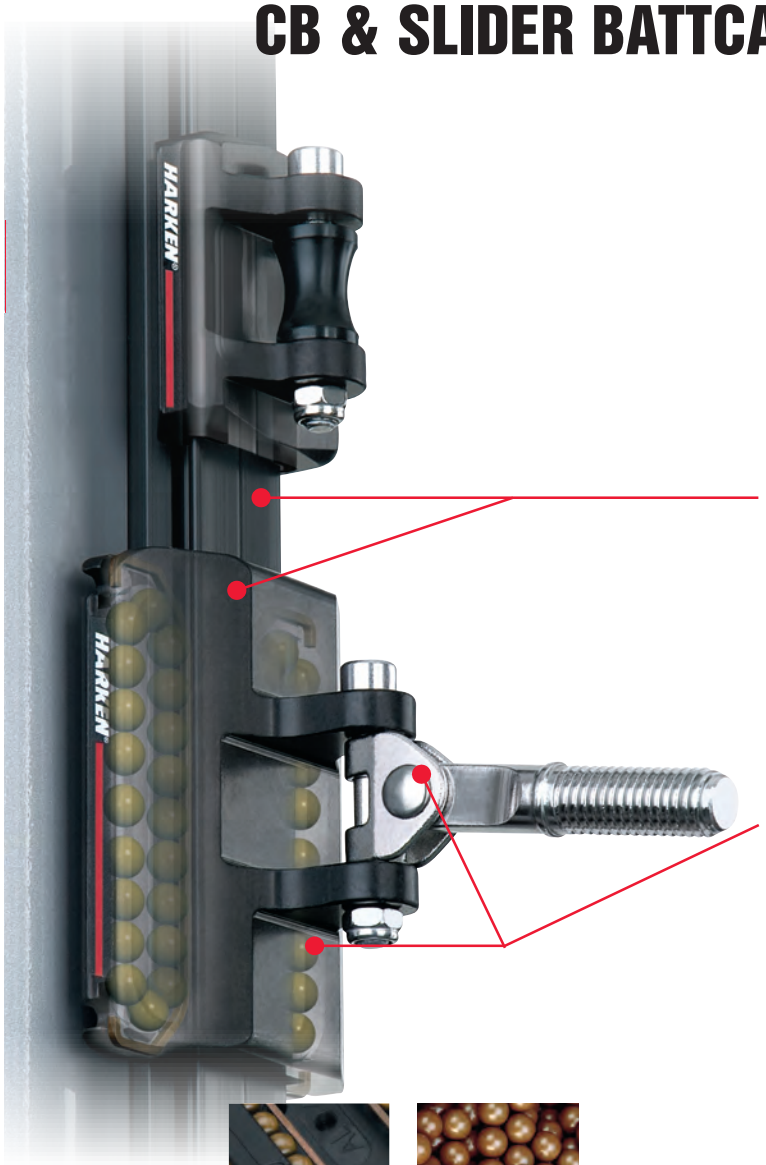
- Cars feature built-in sleeve bearing control blocks for value-oriented options for installation of 2:1 to 4:1 systems.
- Pair with sleeve bearing end controls for durability and strength.
- Carbo-Cam or Cam-Matic cleats keep weight minimal.



See HARKEN 2026 Catalogue (page 108-122)


Derek M. Baylis, *Wylie 65, 19.8 m (65')*, *Wyliecat Performance Yachts © Erik Simonson*

CB & SLIDER BATTCAR SYSTEMS



Favored by skippers and crew, Harken Battcar systems let you raise, douse, and reef the main instantly from the cockpit, even when close reaching in a big breeze. Battcar systems outperform in-mast or in-boom furling, cost far less, and sails don't need to be recut. Four sizes fit monohulls to 27 m (90'); multihulls to 21 m (70').

Strong, corrosion-resistant cars and track stand up to sun, salt, and time

- One-piece, 6061-T6 aluminum cars Hard Lube-anodized, UV-stabilized.
- Track is 6061-T6 aluminum, hardcoat-anodized.

Low-friction ball bearing cars for easy adjustment under load

- High-strength Torlon® ball bearings circulate smoothly for fast sail hoists, douses, and reefs.
- Batten toggle moves freely in all directions to prevent sail from binding when reefing under load.

Sails can be raised/lowered without sticking in mast groove

- Slider cars ride on low-friction plastic inserts.





6061-T6 aluminum:
Hard Lube-anodized cars; hardcoat-anodized track



Torlon® thermoplastic:
Ball bearings

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.
Torlon is a registered trademark of Solvay Advanced Polymers L.L.C.

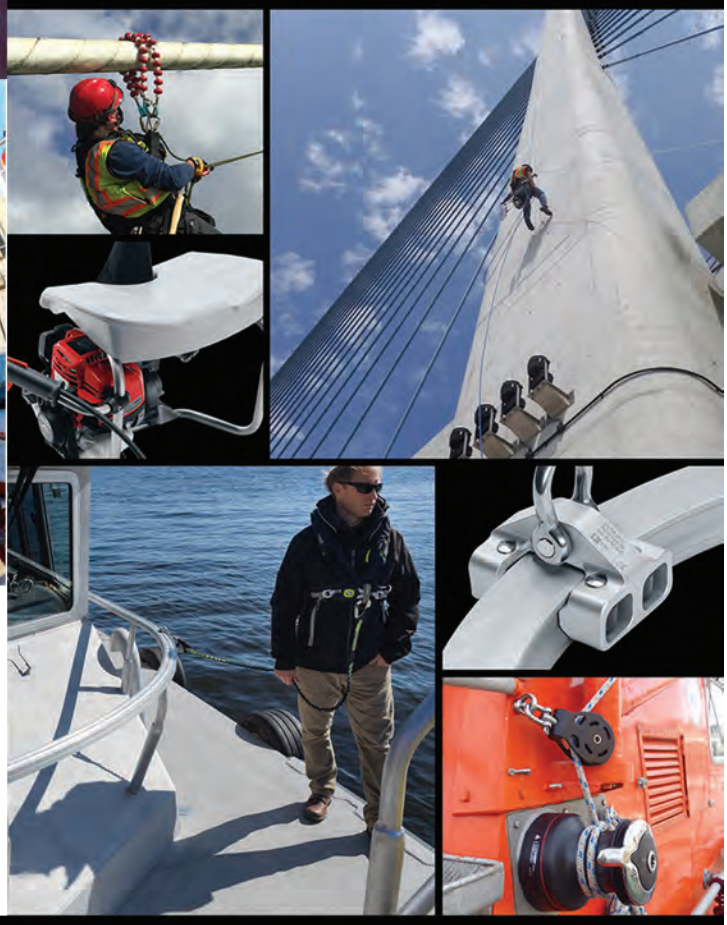
See HARKEN 2026 Catalogue (page 142-164)











A Lasting Partnership

At Harken Industrial, we build more than products, we build relationships. When you partner with us you gain access to world-renowned service, two state-of-the-art manufacturing facilities in the US and Italy, in-house testing facilities for loads up to 100 tons, and professionals with decades of experience designing products that stand up to the harshest conditions. Our team offers sales and support from 11 offices around the world and is backed by a wide distributor network. At Harken Industrial, we value our next project with you as much as our first, so we dedicate ourselves to making sure you are satisfied with both the process and the end product.

Access Rail System

Harken designed the Access Rail system so crews of very large yachts would have a secure system that allows freedom of movement, and the ability to lock into position while working outboard along the hull. The Access Rail system is made up of two joined cars that allow the attachment of the personal suspension and the required fall-arrest systems. Its CE certification is among the most respected marks in the world and unique in the marine industry.

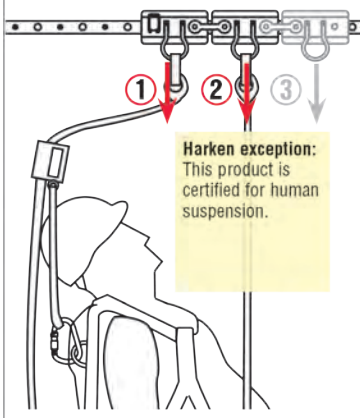
Linked cars are constructed of strong, lightweight, one-piece solid aluminum. The pinstop is easy to release, and the car moves smoothly along the track before locking into another position. Patented wire retaining clips keep balls captive, making cars easy to load and maintain. Composite corner keepers help keep ball bearings captive when the car is off the track.

Cars and track come in black hardcoat-anodized or clear-anodized finishes for corrosion protection, durability, and to match the yacht's aesthetics. Stainless steel systems can be special ordered from Harken's Custom Division.

Use the IN10567 car when the track is mounted on a brow or angled on surfaces. The wheel toggle attachment overhangs the edge of the mounting surface so the side of the hull is not chafed.



Pinstop car allows movement of cars along track. Open to move; close to lock in place.



The system has two anchorage points—one anchorage point for a personal suspension system and the second for the fall-arrest system. Add an optional car and coupler to work as a tool service carrier.



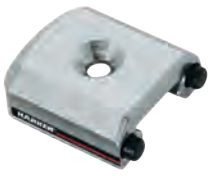
IN9606.CLEAR

IN10567.CLEAR



IN1643.CLR

IN1650.CLR



IN9561.CLEAR



IN1642.CLEAR



IN1649
IN1651

Harken exception: This product is certified for human suspension.

13 - RIGGING HARDWARE

See HARKEN 2026 Catalogue (page 138)

Access Rail System



© David Servais / SD Boatworks



Wire retaining clips keep balls captive, making cars easy to load and maintain. Composite corner keepers help keep ball bearings captive when the car is off the track. For a cost-effective option, CB+ cars can be modified to run on Harken non-CB track.

Car Assembly

Part No.	Description	Length in	Length mm	Width in	Width mm	Maximum working load lb	Maximum working load kg	Fits track
HAR IN9606.CLEAR *	27 mm Midrange 2-car Access Rail car assembly with coupler	10 3/4	273	2 3/4	70	300	136	IN1643, IN1650
HAR IN10567.CLEAR *	27 mm Midrange 2-car Access Rail car assembly with wheel toggle	10 3/4	273	5 15/16	150	300	136	IN 1643, IN1650

Access Rail cars must only be used with track mounted using 8 mm (5/16") fasteners. Use only endstops listed below.
To order black hardcoat-anodized, remove ".CLEAR" from end of part number.

Removable Pinstop & Track Endstop

Part No.	Description	Length in	Length mm	Width in	Width mm	Weight oz	Weight g	Height above track in	Height above track mm	Fasteners in	Fasteners mm
HAR IN1642.CLEAR *	Pinstop	2 5/16	59	1 15/16	49	4.8	136	1 5/16	33		
HAR IN9561.CLEAR *	27 mm Midrange track endstops (sold in pairs)	2 1/4	57	2	51	6	170	5/16	8	5/16 FH	8 FH

To order black hardcoat-anodized, remove ".CLEAR" from end of part number.

Track

Part No.	Description	Length ft/in	Length m	Mounting hole spacing in	Mounting hole spacing mm	Fasteners in	Fasteners mm	Endstop	Splice link ‡
HAR IN1643.3M.CLR.SER *	27 mm Midrange pinstop track for countersink fasteners	9' 10 1/16"	3	3 15/16	100	5/16 FH	8 FH	IN9561.CLEAR ‡	IN1649
HAR IN1643.3.6M.CLR *	27 mm Midrange pinstop track for countersink fasteners	11' 9 3/4"	3.6	3 15/16	100	5/16 FH	8 FH	IN9561.CLEAR ‡	IN1649
HAR IN1643.6M.CLR *	27 mm Midrange pinstop track for countersink fasteners	19' 8 1/4"	6	3 15/16	100	5/16 FH	8 FH	IN9561.CLEAR ‡	IN1649
HAR IN1650.3M.CLR.SER *	27 mm pinstop track for caphead fasteners	9' 10 1/16"	3	3 15/16	100	5/16 SHCS	8 SHCS	IN9561.CLEAR ‡	IN1651
HAR IN1650.3.6M.CLR *	27 mm pinstop track for caphead fasteners	11' 9 3/4"	3.6	3 15/16	100	5/16 SHCS	8 SHCS	IN9561.CLEAR ‡	IN1651

To order black hardcoat-anodized, remove ".CLR" or ".CLEAR" from end of part number.
Harken exception: This product is certified for human suspension.
‡ Purchase one splice link for each track section.
* Special Order

► Also See McLube Sailkote & OneDrop pg 06-022

See HARKEN 2026 Catalogue (page 139)

ILCA Kicker/Vang System

This year, an entirely new ILCA vang system makes its debut. All three components are upgrades from our existing system that remains the Class standard after more than 20 years. Here are some keys to the improved performance sailors will experience.

NEW

The Upper block is now a 25mm Fly block with stainless balls and a unique pin shaped and angled to remain in place even under zero tension.

The middle double block is in fact a Zircon fiddle block with a unique twist (we call it the 'twiddle' in Pewaukee). Its slim shape slides easily along the purchase system it inhabits, to remain upright where conventional double blocks tip twist or tangle. A fiddle is a better choice where the line moves in uneven sequence around the two Zircon sheaves.

The Fly bottom unit is also quite distinctive.

Every sheave is larger diameter for more power and wider for less friction, so the unit will better enable today's increased vang loads. And yet, by rendering it of our proven Carbo nylon-reinforced composite material, the unit is 21% lighter than our current stainless version. The whole unit is a bit more aero friendly to our eye and shouldn't foul the cunningham or outhaul controls. All sheaves are Harken Fly with stainless bearings running in stainless races. The last turn before the micro Cammatic is a lightweight stainless ferrule which replaces the fairlead in earlier designs. The cleating angle has been made to match our existing standard but there's a wedge in there for those who would like to experiment. The system's design anticipates that sailors may wish to remove some system purchase to reduce the amount of line in the cockpit. The system enables this and easily converts from 15:1 to 12:1—and back again.

NOTE: 1253.ILCA and 1252.ILCA are ILCA distribution only. Replacement parts 1250.ILCA and 1251 are available for order through Western and Transat Marine.



1250.ILCA



1251

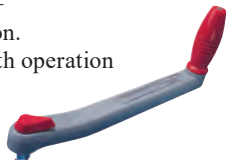


1252.ILCA

Part No.	Description	Sheave Ø in	Sheave Ø mm	Length in	Length mm	Weight oz	Weight g	Max Line Ø in	Max Line Ø mm	Maximum working load lb	Maximum working load kg	Breaking load lb	Breaking load kg
HAR 1253.ILCA	Kit - ILCA Vang System	Includes 1250.ILCA, 1251, and 1252.ILCA											
HAR 1250.ILCA	25 mm Single	1	25	2 9/16	65	1.2	34	3/16	5	606	275	1212	550
HAR 1251	29/18 mm Zircon twisted fiddle	1 1/8 / 23/32	29/18	2 5/8	66	0.64	18.2	3/16	5	200	91	600	273
HAR 1252.ILCA	ILCA Vang lower	1 / 23/32	25/18	-	-	6.3	179	3/16	5	1000	453	2000	906

See HARKEN 2026 Catalogue (page 15)

Sea-Dog "It Floats" Winch Handles



- Made of injection molded fibreglass/nylon.
- Ball bearings in the handle ensure smooth operation under load
- Floating

SED 604080 8" long
SED 604100 10" long

Beckson Winch Handle Holder



Large winch handle holder for 10" top action winch handles, standard or lock-in.

- Overall length: 13-1/2" x W: 3-1/2"

BEC HH-3

Sea-Dog Winch Handle Holder



- Flexible dip molded PVC
- L: 11-1/2", opening: 2-1/2" x 1-7/8"

SED 724200

► *Also See* Harken Winch Handles pg 13-078

Harken Dinghy Clew Hook



- Designed for lasers and other loose footed dinghies

HAR 433


303-M


307-M

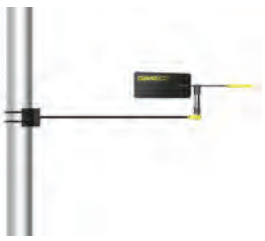

7301-C

Lev-O-Gage Meters

Sailing clinometers use flex-tube design and have engraved white numerals.

LEV 303-M 6.5", 50° Senior
LEV 307-M 3.5", 10° Lev-O-Gage II
LEV 7301-C 3.5", 45° Clinometer

Davis Blacksmith Horizontal Carbon Fiber Wind Vane



- Made from super lightweight 3D carbon fiber and duraluminum to withstand the rigors of hard racing
- A dinghy race pro gooseneck wind vane for Laser, Finn, Banshee, Sunfish, Optimist, El Toro and Sabot.
- Feature precise balance - effective and efficient in 0.8 knot up to 40 knots wind conditions
- Handmade dinghy carbon gooseneck wind vane
- 3D carbon & duraluminum
- Adjustable mast clam
- 12" x 7.8" / 30 x 20 cm
- 0.8 oz / 25 g

DIN 3188 **
** While Stock Lasts

Davis Blacksmith Olympic Boat Carbon Fiber Wind Vane



- Made from super lightweight 3D carbon fiber and duraluminum to withstand the rigors of hard racing
- Feature precise balance: effective and efficient in 0.8 knot up to 40 knots wind conditions
- Handmade carbon masthead wind vane for boats up to 20 ft
- J-base for side, top, or front mounting
- 9" x 9" / 23 x 23 cm
- 0.5 oz / 13.9 g

DIN 3184 **
** While Stock Lasts

Davis Blacksmith Sport Boat Carbon Fiber Wind Vane



- Made from super lightweight 3D carbon fiber and duraluminum to withstand the rigors of hard racing
- Feature precise balance: effective and efficient in 0.8 knot up to 40 knots wind conditions
- Handmade carbon masthead wind vane for boats 16-28 ft
- J-base for side, top, or front mounting
- 9" x 10" / 23 x 25 cm
- 0.7 oz / 20 g

DIN 3186 **
** While Stock Lasts

Davis Blacksmith Crazy Wind Vane



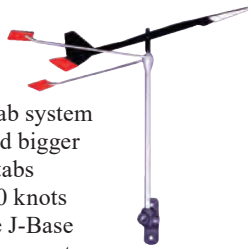
Traditional wind indicators tend to be fragile and easily bent or get broken. Not anymore! Davis Instruments introduces new Optimist Pro Wind Vane, made from black fibreglass and duraluminum.

- Handmade Optimist wind vane for mast head mounting
- 7 x 11" / 18 x 28 cm
- 0.5 oz / 14 g
- Carbon-free

DIN 3180 **
Accessories:
DIN 3182 ** Pin Set
** While Stock Lasts



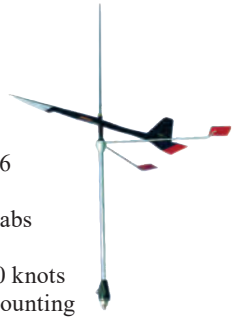
Davis Windtrak 10 Wind Vane



- Sapphire jewel suspension bearing
- Large fin-low inertia 10" (25mm) vane
- Easy-to-read, fully adjustable tacking tab system
- For cruising and racing boats 15 feet and bigger
- Reflector tape on the vane and tacking tabs
- Wind tunnel tested to wind speeds of 80 knots
- Includes glass reinforced polycarbonate J-Base for side, top or front of mast mounting on most dinghies, smaller boats and sport boats
- 9.25" (23.5 cm) tall
- Weighs 1.2 ounces (31 g)

DIN 3120
Parts & Accessories:
DIN 3101 10" Replacement vane
DIN R3102 Reference tab for 3120
DIN 3200 Windtrak light (formerly Windex)

Davis Windtrak 15 Wind Vane



- Sapphire jewel suspension bearing
- Large fin-low inertia 15" (38mm) vane
- Easy-to-read, fully adjustable tacking tab system
- For cruising and racing boats 15 feet (4.6 m) and bigger
- Reflector tape on the vane and tacking tabs
- Includes 10" bird-proof spike
- Wind tunnel tested to wind speeds of 80 knots
- Includes through-bolt or drill and tap mounting socket; 5/16" -18 stainless stud, washers and nut
- 14" (32 cm) tall (24" with bird-proof spike)
- Weighs 3.6 ounces (101 g)

DIN 3150

Parts & Accessories:

DIN 3151 15" Replacement vane
DIN 3200 Windtrak light (formerly Windex)

Davis LED Windtrak Light



- Non-dazzling lighting system that allows "reading of the wind" at night.
- Mounts directly onto the masthead fitting of the Windtrak 10 and 15
- Waterproof with non-corroding, silver parts
- 12V

DIN 3200 (formerly Windex)

Davis Windtrak Offset Masthead Mount



- Extend your Windtrak 10.Sport or Windtrak 15 vane away from masthead obstructions and turbulence
- 13″ (33 cm) arm comes with hardware to allow for side or top mounting and offset angles up to 20 degrees
- All parts are aluminum or stainless steel

DIN 1705 (formerly Windex)

Raymarine Smart Wind Transducer



The Raymarine RSW wind transducer is a professional-level wind sensor for leisure sailors, with an all new design engineered for simplicity and accuracy.

- Expert-level accuracy without black box processors or calibration tables
- Integrated 3D motion sensor accounts for vessel pitch and roll to automatically deliver true wind accuracy, as well as compensating for the effects of airflow and upwash against the sails for true wind direction
- Smart Wind technology delivers superior wind measurement by compensating for mast wind and bend
- Rotating mast compatible without extra sensors
- Lightweight and durable carbon fibre arm
- Wind rating: 185 kph (115 mph)
- IPx6/IPx7
- 12V
- Transducer: L: 21.29" (excluding cable) x W: 1.85" x H: 12.04"
- Wired gateway: L: 6.13" x W: 1.88" x H: 1.21"

RAY E70670



Davis Black Max Wind Direction Indicator

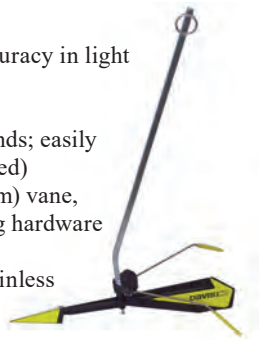


- Hgh impact plastic indicator
- Comes with a stainless arm that quickly attaches to your mast or boom
- High visibility 8" (20 cm) vane
- Designed to withstand years of punishment
- Comes with an unbreakable storage tube

DIN 1295 **

** While Stock Lasts

Davis Windtrak Telo-Cat

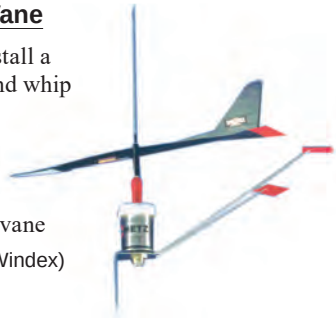


- Teflon bearing system for extreme accuracy in light or heavy weather.
- Designed for catamarans
- Installs on the headstay bridle in seconds; easily removed for trailering (no tools required)
- Complete with high visibility 8" (20 cm) vane, adjustable tacking arms, and mounting hardware to fit most catamarans
- Made of high impact plastic with a stainless steel shaft and tacking arms

DIN 1450 ** (formerly Windex)

** While Stock Lasts

Davis Windtrak AV Wind Vane



- Complete kit allows you to install a Windtrak 15" vane to any brand whip antenna
- Comes with Teflon bearing washers, adjustable stainless tacking arms and reflectors underneath the tabs and wind vane

DIN 3160 (formerly Windex)

Davis Spar-Fly Wind Vane

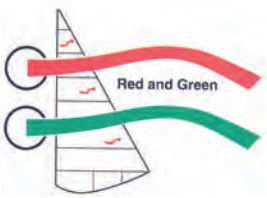


- Combines needle bearing balance, high impact plastic and marine grade metals for unsurpassed sensitivity and durability
- Bright red in colour.
- Comes with both a top mount fitting and quick release side mount
- Overall length: 14-1/2"

DIN 1310 ** Complete
DIN 1311 ** Spare vane

** While Stock Lasts

Davis Air-Flow Tels



- Lightweight, rips top nylon
- Tels attach to sails with waterproof adhesive disc
- Each kit includes 14 Tels and full instructions on where to apply and how to read them

DIN 950

ROCNA®
ANCHORS // ROCK SOLID

TITAN®
MARINE PRODUCTS



Give your customers
***the best*:**

Stock Rocna and Vulcan anchors

Rocna.com

The Perfect Anchor Partner:
Premium Chains, Anchor Rodes, and Accessories.

Stock Titan Marine Products.

titanmarineproducts.com

Running Rigging	Samson	14-002 to 003
	Maffioli	14-004
	Novabraid	14-005 to 006
Ropes	Nylon Rope	14-007 to 008
	Polypropylene / Floatline	14-008 to 009
	Polysteel	14-009
	Accessory Cord / Whipping Twine	14-010
Accessories & Splicing	Sail Needles / Splicing Tools / Rope Cutters	14-011
	Shock / Bungee Cord / Velcro	14-012 to 013
Anchor & Dock Lines	Dock Lines / Anchor Lines	14-014 to 016
	Chafe Guards / Snubbers / Accessories	14-016 to 017
Logging Equipment		14-017
Fenders & Buoys	Fenders / Buoys	14-018 to 023
	Fender Holders / Covers	14-023 to 024
	Fender Lines / Hangers	14-024 to 025
	Dock Bumpers	14-026 to 028
	Mooring Whips	14-028
Dock	Cleats / Ladders	14-029 to 030
	Lighting	14-030 to 031
Anchors & Accessories	Anchors	14-032 to 035
	Rope / Rope/Chain Rodes	14-035
	Chain / Chain Markers	14-036
	Anchor Swivels / Rollers / Chocks	14-037 to 041
Windlasses	Maxwell	14-042 to 047
	Endurance	14-047
Mooring	Hooks / Pike Poles	14-048 to 049

Elongation
@10%B.S.=1.30%
@20%B.S.=2.23%
@30%B.S.=3.16%
Elastic elongation for rope stabilized from 200D2



Samson XLS3

Cruising sailors who desire optimal performance will appreciate the low-stretch polyester construction, smooth rendering, and long life of the cover over a polyester core.

- Easy to splice
- Excellent abrasion resistance
- Sold by the foot
- 500' reels

Part #	Colour	Ave. Strength	Weight per/100'
SAM 435-6MM-BK	Solid Black	2,400 lbs	2 lbs
SAM 435-6MM-BL	Solid Blue		
SAM 435-6MM-GR	Solid Green		
SAM 435-6MM-RD	Solid Red		
SAM 435-6MM-WH/BL	White w/Blue tracer		
SAM 435-6MM-WH/GR	White w/Green tracer		
SAM 435-8MM-BK	Solid Black	4,100 lbs	3.5 lbs
SAM 435-8MM-BL	Solid Blue		
SAM 435-8MM-GR	Solid Green		
SAM 435-8MM-RD	Solid Red		
SAM 435-8MM-TN	Solid Tan		
SAM 435-8MM-WH	Solid White		
SAM 435-8MM-WH/BL	White w/Blue tracer		
SAM 435-8MM-WH/GR	White w/Green tracer		
SAM 435-8MM-WH/RD	White w/Red tracer		
SAM 435-10MM-BK	Solid Black	6,300 lbs	5.2 lbs
SAM 435-10MM-BL	Solid Blue		
SAM 435-10MM-GR	Solid Green		
SAM 435-10MM-RD	Solid Red		
SAM 435-10MM-TN	Solid Tan		
SAM 435-10MM-WH	Solid White		
SAM 435-10MM-WH/BL	White w/Blue tracer		
SAM 435-10MM-WH/GR	White w/Green tracer		
SAM 435-10MM-WH/RD	White w/Red tracer		
SAM 435-11MM-BK	Solid Black	7,300 lbs	6.2 lbs
SAM 435-11MM-BL	Solid Blue		
SAM 435-11MM-GR	Solid Green		
SAM 435-11MM-RD	Solid Red		
SAM 435-11MM-TN	Solid Tan		
SAM 435-11MM-WH	Solid White		
SAM 435-11MM-WH/BL	White w/Blue tracer		
SAM 435-11MM-WH/GR	White w/Green tracer		
SAM 435-11MM-WH/RD	White w/Red tracer		
SAM 435-12MM-BK	Solid Black	8,700 lbs	7.3 lbs
SAM 435-12MM-BL	Solid Blue		
SAM 435-12MM-GR	Solid Green		
SAM 435-12MM-RD	Solid Red		
SAM 435-12MM-WH	Solid White		

Elongation
@10%B.S.=0.50%
@20%B.S.=0.80%
@30%B.S.=1.00%



Samson Ultra-Lite

Ultra-Lite is great for light-wind sheets. This lightweight, floating double braid has a 24-strand MFP cover and a blended core of MFP and Dyneema fiber.

- Black, red or green cover with yellow tracer.
- Sold by the foot
- 500' reels

Part #	Cover	Ave. Strength	Weight/100'
SAM 441-GR-1/4"	Black	2,200 lbs	1.9 lbs
SAM 441-BK-1/4"	Green		
SAM 441-RD-1/4"	Red		
SAM 441-GR-5/16"	Black	2,900 lbs	2.5 lbs
SAM 441-BK-5/16"	Green		
SAM 441-RD-5/16"	Red		
SAM 441-GR-3/8"	Black	4,400 lbs	3.2 lbs
SAM 441-BK-3/8"	Green		
SAM 441-RD-3/8"	Red		

Elongation
@10%B.S.=0.44%
@20%B.S.=0.62%
@30%B.S.=0.79%
Elastic elongation for rope stabilized from 200D2



Samson WarpSpeed II

High strength, low stretch, and very low weight make WarpSpeed II the high-performance racer's choice for double braid ropes. The strength member in this double braid is 100% SK78 fiber. The cover is a flexible 24-strand ployester that provides good handling, excellent performance in stoppers and clutches, and enhanced abrasion resistance. The cover can be stripped when desired for greater weight savings.

- Matching tracer & core colours
- Sold by the foot
- 500' reels

Part #	Cover	Ave. Strength	Weight/100'
SAM 440-BK-1/4"	Black	5,100 lbs	1.6 lbs
SAM 440-BL-1/4"	Blue		
SAM 440-GR-1/4"	Green		
SAM 440-RD-1/4"	Red		
SAM 440-BK-5/16"	Black	7,000 lbs	2.5 lbs
SAM 440-BL-5/16"	Blue		
SAM 440-GR-5/16"	Green		
SAM 440-RD-5/16"	Red		
SAM 440-BK-3/8"	Black	9,800 lbs	3.8 lbs
SAM 440-BL-3/8"	Blue		
SAM 440-GR-3/8"	Green		
SAM 440-RD-3/8"	Red		
SAM 440-BK-7/16"	Black	14,000 lbs	4.9 lbs
SAM 440-BL-7/16"	Blue		
SAM 440-GR-7/16"	Green		
SAM 440-RD-7/16"	Red		
SAM 440-BK-1/2"	Black	22,000 lbs	7.1 lbs
SAM 440-BL-1/2"	Blue		

Samson MLX3



MLX3 is a lightweight, core-dependent line that has excellent strength and moderate stretch. The core is coated to match the cover, making the line strippable for greater weight savings.

- Can be tapered
- Moderate stretch
- Excellent abrasion resistance
- Great for performance cruising or racing
- Sold by the foot
- 500' reels

Elongation
@10%B.S.=0.49%
@20%B.S.=0.74%
@30%B.S.=1.00%

Part #	Colour	Ave. Strength	Weight per/100'
SAM 436-8MM-GY/BL	Grey w/Blue tracer	4,500 lbs	3.1 lbs
SAM 436-8MM-GY/GR	Grey w/Green tracer		
SAM 436-8MM-GY/RD	Grey w/Red tracer		
SAM 436-8MM-GY/YE	Grey w/Yellow tracer		
SAM 436-10MM-GY/BL	Grey w/Blue tracer	7,700 lbs	4.7 lbs
SAM 436-10MM-GY/GR	Grey w/Green tracer		
SAM 436-10MM-GY/RD	Grey w/Red tracer		
SAM 436-10MM-GY/YE	Grey w/Yellow tracer		

Samson Tech12



This Samthane-coated 12-strand is made with 100% Technora fiber and offers excellent heat resistance in addition to a high resistance to flex fatigue.

- Easy to splice
- Works well around sheaves and winches
- Non-rotational
- Negligible creep
- Wire rope replacement
- High strength
- Flexible
- Sold by the foot
- 600' reels

Elongation
@10%B.S.=0.63%
@20%B.S.=0.96%
@30%B.S.=1.20%
Elastic elongation for rope stabilized from 200D2

Part #	Ave. Strength	Weight/100'	Colour
SAM 890-BK-3/16"	5,600 lbs	1.3 lbs	Black
SAM 890-BK-1/4"	8,200 lbs	1.9 lbs	

Samson Validator 12



Validator-12 is a 12-strand construction made of 100% Vectran fiber. This easy-to-splice,exceptionally low creep line is extremely strong and lightweight.

- High strength-to weight ratio
- Extremely low stretch
- Samthane coated
- Non-rotational
- Heat resistant
- Excellent durability
- Abraision resistant
- Wire rope replacement
- Sold by the foot
- 600' reel

Elongation
@10%B.S.=0.49%
@20%B.S.=0.78%
@30%B.S.=0.98%
Elastic elongation for rope stabilized from 200D2

Part #	Ave. Strength	Weight/100'	Colour
SAM 446-BK-3/8"	19,500 lbs	4.6 lbs	Black

Samson AmSteel



This efficient 12-strand construction of Samthane-coated Dyneema fiber makes AmSteel an economical alternative to AmSteel-Blue.
AmSteel is a non-rotational rope that yields high strength and low stretch; equivalent to wire rope with 1/7th the weight. In addition, the product is flexible, easily spliced, and resists flex-fatigue and abrasion.

- Sold by the foot
- 600' reels

Elongation
@10%B.S.=0.46%
@20%B.S.=0.70%
@30%B.S.=0.96%
Elastic elongation for rope stabilized from 200D2

Part #	Ave. Strength	Weight/100'
SAM 870-GY-1/4"	7,400 lbs	1.5 lbs
SAM 870-GY-5/16"	11,900 lbs	2.5 lbs
SAM 870-GY-3/8"	14,200 lbs	3.5 lbs

Samson AmSteel Blue - SK-78



A high-performance 12-strand single (7/64" is 8 strand) braid of 100% Dyneema fibre, AmSteel-Blue yields the maximum strength-to-weight ratio, very low stretch, and is stronger than the same sized wire rope - but it's so light, it floats. It's the highest strength single braid Samson makes. Samthane coating enhances its already high abrasion and cut resistance. Adding a cover is recommended for areas controlled by winch or rope clutches.

- Sold by the foot
- 600' reels

Elongation
@10%B.S.=0.46%
@20%B.S.=0.70%
@30%B.S.=0.96%
Elastic elongation for rope stabilized from 200D2

Part #	Colour	Ave. Strength	Weight/100'
SAM 872-BL-7/64"	Blue	1,600 lbs	.3 lbs
SAM 872-BL-1/8"	Blue	2,500 lbs	.5 lbs
SAM 872-BK-3/16"	Black	5,400 lbs	1.0 lbs
SAM 872-BL-3/16"	Blue		
SAM 872-BK-1/4"	Black	8,600 lbs	1.6 lbs
SAM 872-BK-5/16"	Black	13,700 lbs	2.7 lbs
SAM 872-BL-5/16"	Blue		
SAM 872-BK-3/8'	Black	17,600 lbs	3.4 lbs
SAM 872-BL-3/8"	Blue		
SAM 872-BK-1/2"	Black	30,600 lbs	5.9 lbs
SAM 872-BK-5/8"	Black	52,800 lbs	10.2 lbs

Samson Lightning



This 12-strand construction blends Vectran and Dyneema fibers into a reliable, lightweight line with very low stretch and exceptionally low creep. It is great for use where static loads are anticipated and weight is an issue.

- Sold by the foot
- 500' reels

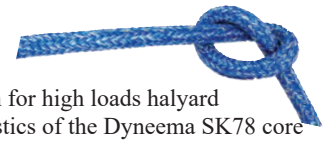
Elongation
@10%B.S.=0.59%
@20%B.S.=0.68%
@30%B.S.=0.77%
Elastic elongation for rope stabilized from 200D2

Part #	Colour	Ave. Strength	Weight/100'
SAM 379-BL-7/64"	Black	1,400 lbs	0.4 lbs
SAM 379-BK-7/64"	Blue		
SAM 379-RD-7/64"	Red		
SAM 379-BK-1/8"	Black	2,100 lbs	0.5 lbs
SAM 379-RD-1/8"	Red		

Yachting Line GRAND PRIX

Our Grand Prix line is dedicated to all those sailors who are looking for top performance on board. These products are designed to provide maximum performance on small monotypes and modern cruiser racer. Racing line products offer excellent performance, ensuring extremely low elongation in both racing and cruising.

Maffioli Powergrip 78



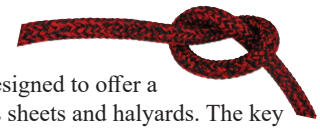
Powergrip 78 is a perfect solution for high loads halyard thanks to the excellent characteristics of the Dyneema SK78 core in addition to the special cover in blend HT Polyester/Cordura branded fibers.

- Construction: Double braid
- Core: Polyurethane coating Dyneema SK78
- Cover: H.T. Polyester + Cordura branded fibres
- Good abrasion resistance
- Sold by the foot
- 656' (200m) reels

Part #	Colour	Size	daN	g/m
MAF TRPWGR080-AZ	Light Blue	8mm	3.380	45.4
MAF TRPWGR080-GA	Dark Grey			
MAF TRPWGR080-RD	Red			
MAF TRPWGR100-AZ	Light Blue	10mm	5.150	64.7
MAF TRPWGR100-GA	Dark Grey			
MAF TRPWGR100-RD	Red			
MAF TRPWGR120-AZ	Light Blue	12mm	6.950	92.1
MAF TRPWGR120-RD	Red			

daN = deka-Newtons to lbs force (breaking strength) (conversion factor = 2.24)
g/m = grams per metre (conversion factor to lbs/100' = 0.0672)

Maffioli Powertech 78



The new Powertech 78 has been designed to offer a perfect solution for both high loads sheets and halyards. The key feature of this versatile rope is heat resistant Technora/Polyester cover in addition to the high-tech Dyneema SK78 core.

- Construction: Double braid
- Core: Polyurethane coating Dyneema SK78
- Cover: Technora + H.T. Polyester
- Characteristics: Excellent abrasion and heat resistance, good grip on winches
- Sold by the foot
- 656' (200m) reels

Part #	Colour	Size	daN	g/m
MAF TRPWTH080-AZ	Light Blue	8mm	3.380	49.7
MAF TRPWTH080-RD	Red			
MAF TRPWTH100-AZ	Light Blue	10mm	5.150	70.6
MAF TRPWTH100-RD	Red			

Maffioli Powersprint 78



- Construction: Double braid
- Core: Novabraid 78
- Cover: H.T. Polyester
- Characteristics: High strength, low stretch, excellent handling
- Sold by the foot
- 656' (200m) reels

Part #	Colour	Size	daN	g/m
MAF TRPWSP080-GR *	Silver	8mm	3.500	47.1

* Special Order - may have stock

Yachting Line ONE DESIGN.

Recommended for: Dinghies – main sheet, jib sheet, spinnaker sheet, cunnigham or vang.
One design and keel boats – spinnaker sheet (boats up to 45 feet) main sail sheet (boats up to 30 feet), control lines.

Maffioli Swiftcord

- Construction: Single braid
- Core: Dyneema SK78+ non-slip fiber
- Characteristics: Extremely lightweight, good durability, and great comfort
- Sold by the foot
- 656' (200m) reels



Part #	Colour	Size	daN	g/m
MAF TRSWIF050-AZ	Light Blue	5mm	835	13.7
MAF TRSWIF050-BK	Black			
MAF TRSWIF060-AZ	Light Blue	6mm	1,250	19
MAF TRSWIF060-BK	Black			
MAF TRSWIF080-AZ	Light Blue	8mm	2,300	31.2
MAF TRSWIF080-BK	Black			
MAF TRSWIF100-AZ	Light Blue	10mm	3,600	46.9
MAF TRSWIF100-BK	Black			

Novabraid Dinghy Braid

Dinghy Braid is carefully constructed with a high tenacity polyester parallel core with an 8 plait polyester cover. Both core and cover are pre-stretched and heat set resulting in a strong, low stretch and easy to handle line. Ideal for control lines on dinghies and small keel boats. Colours are made of Firebrite 2000 polyester. A single green tracer distinguishes Novabraid Dinghy Braid from the rest.

- Lightweight
- Low stretch
- Easy handling
- Sold by the foot
- 656' reels



Part #	Colour	Size	AATS*	Weight /100'
NBR DB532B	Blue	5/32"	850 lbs	.667 lbs
NBR DB532BK	Black			
NBR DB532G	Green			
NBR DB532R	Red			
NBR DB316B	Blue	3/16"	1,340 lbs	.833 lbs
NBR DB316BK	Black			
NBR DB316G	Green			
NBR DB316R	Red			
NBR DB014BK	Black	1/4"	1,800 lbs	1.82 lbs
NBR DB014B	Blue			
NBR DB014G	Green			
NBR DB014R	Red			

*AATS Approximate Average Tensile Strength

Novabraid Nova Lite

Nova Lite is a double braid rope constructed of plaited multi filament polypropylene cover and core. Novabraid's unique construction process provides for a stronger, lightweight line that is easy to handle. With no water absorption, Nova Lite floats making it ideal for sheets on dinghies and small keel boats as well as man over board life saving and heaving lines.

- Lightweight
- Low stretch
- UV resistant
- Easy running
- Sold by the foot (600' reels)



Part #	Colour	Size	AATS*	Weight /100'
NBR LT316OT	Orange/Teal	3/16"	1,514 lbs	.73 lbs
NBR LT316PT	Purple/Teal			
NBR LT316YR	Yellow/Red			
NBR LT014OT	Orange/Teal	1/4"	1,510 lbs	1.10 lbs
NBR LT014PT	Purple/Teal			
NBR LT014TP	Teal/Purple			
NBR LT014YR	Yellow/Red			
NBR LT516OT	Orange/Teal	5/16"	1,730 lbs	1.80 lbs
NBR LT516PT	Purple/Teal			
NBR LT516TP	Teal/Purple			
NBR LT516YR	Yellow/Red			
NBR LT038PT	Purple/Teal	3/8"	3,220 lbs	2.90 lbs
NBR LT038YR	Yellow/Red			
NBR LT012YR	Yellow/Red	1/2"	3,598 lbs	-

- 1200' reels:

NBR LT012YRX1200' 1/2", Yellow/Red
NBR LT038YRX1200' 3/8", Yellow/Red

*AATS Approximate Average Tensile Strength

Novabraid Nova Lite HP

Nova Lite High Performance is a double braided rope constructed with a multi-filament polypropylene (MFP) cover and a blend of spectra and MFP in the core. Designed for applications where a UV resistant, light weight, low stretch and easily handled line is essential. A urethane coating covers the core for protection when the cover braid is stripped.

- Lightweight
- Coated core
- High strength
- Low elongation
- No water absorption
- Sold by the foot
- 600' reels



Part #	Colour	Size	AATS*	Weight /100'
NBR LTHP014GBK	Green/Black	1/4"	2,845 lbs	1.90 lbs
NBR LTHP014RG	Red/Green			
NBR LTHP516GBK	Green/Black	5/16"	3,663 lbs	2.70 lbs
NBR LTHP516RG	Red/Green			
NBR LTHP038BY *	Blue/Yellow	3/8"	5,000 lbs	3.20 lbs
NBR LTHP038GBK	Green/Black			
NBR LTHP038RG	Red/Green			

*AATS Approximate Average Tensile Strength
* Special Order - may have stock

Novabraid Polyspec

A double braided rope constructed with a 100% polyester cover and a 100% Spectra core. It is designed for general marine, industrial, and commercial applications where extra low elongation and extremely high strength to weight ratios are required. This product often replaces wire of the same diameter.

- Specific gravity of 1.20
- High strength to weight ratio
- Extra Low elongation
- Sold by the foot
- 600' reels



Part #	Colour	Size	AATS*	Weight /100'
NBR PS316WBY	White/Blue/Yellow	3/16"	1,950 lbs	.9 lbs
NBR PS316WGY	White/Green/Yellow			
NBR PS316WRY	White/Red/Yellow			
NBR PS014WBY	White/Blue/Yellow	1/4"	3,370 lbs	2.0 lbs
NBR PS014WGY	White/Green/Yellow			
NBR PS014WRY	White/Red/Yellow			
NBR PS516GRY	Green/Red/Yellow	5/16"	4,026 lbs	2.9 lbs
NBR PS516RGY	Red/Green/Yellow			
NBR PS516WGY	White/Green/Yellow			
NBR PS516WRY	White/Red/Yellow			
NBR PS038RGY	Red/Green/Yellow	3/8"	8,600 lbs	4.0 lbs
NBR PS038WBY	White/Blue/Yellow			
NBR PS038WGY	White/Green/Yellow			
NBR PS038WRY	White/Red/Yellow			

*AATS Approximate Average Tensile Strength

Novabraid Spectec-12

A hollow braided 12-strand rope using 100% Spectra fibre with a single ply construction. Spectec-12 yields one of the highest strength to weight ratios available in a synthetic rope. It comes standard with a urethane coating that provides additional abrasion resistance while remaining easy to handle and splice.

- Specific gravity of 0.98
- Very High strength
- Extra Low elongation
- Easy handling
- Fully spliceable
- Sold by the foot
- 600' reels



Part #	Colour	Size	AATS*	Weight /100'
NBR SPEC014BK	Black	1/4"	6,500 lbs	1.7 lbs

*AATS Approximate Average Tensile Strength

Novabraid XLE Performer

XLE Performer Series is an extra low elongation, 100% polyester double braid. This high tenacity polyester fibre rope is easy to handle and splice while offering maximum abrasion resistance. Colours are made of solution dyed Firebrite 2000 polyester and are available in red, green, blue and black. This super strong, low stretch double braid is ideal for all running rigging applications on performance cruisers and racing boats.

- Sold by the foot
- 600' reels



Part #	Colour	Size	AATS*	Weight /100'
NBR XLE316BK	Black	3/16"	830 lbs	1.06 lbs
NBR XLE316BL	Blue			
NBR XLE316BW	Blue/White			
NBR XLE316GR	Green			
NBR XLE316GW	Green/White			
NBR XLE316R	Red			
NBR XLE316RW	Red/White			
NBR XLE316W	White			
NBR XLE316WBK	White/Black			
NBR XLE316WB	White/Blue			
NBR XLE316WG	White/Green			
NBR XLE316WR	White/Red			
NBR XLE014BK	Black	1/4"	1,950 lbs	2.0 lbs
NBR XLE014B	Blue			
NBR XLE014BW	Blue/White			
NBR XLE014GR	Green			
NBR XLE014GW	Green/White			
NBR XLE014R	Red			
NBR XLE014RW	Red/White			
NBR XLE014W	White			
NBR XLE014WBK	White/Black			
NBR XLE014WB	White/Blue			
NBR XLE014WG	White/Green			
NBR XLE014WR	White/Red			
NBR XLE014SB	Grey/Blue			

*AATS Approximate Average Tensile Strength

Novabraid XLE Performer continued

Part #	Colour	Size	AATS*	Weight /100'
NBR XLE516BK	Black	5/16"	3,500 lbs	3.4 lbs
NBR XLE516BL	Blue			
NBR XLE516BW	Blue/White			
NBR XLE516G	Green			
NBR XLE516R	Red			
NBR XLE516RW	Red/White			
NBR XLE516W	White			
NBR XLE516WBK	White/Black			
NBR XLE516WB	White/Blue			
NBR XLE516WG	White/Green			
NBR XLE516WR	White/Red			
NBR XLE516GW	Green/White			
NBR XLE038BK	Black	3/8"	4,900 lbs	4.3 lbs
NBR XLE038BL	Blue			
NBR XLE038BW	Blue/White			
NBR XLE038GW	Green/White			
NBR XLE038W	Solid White			
NBR XLE038R	Red			
NBR XLE038RW	Red/White			
NBR XLE038WBK	White/Black			
NBR XLE038WB	White/Blue			
NBR XLE038WG	White/Green			
NBR XLE038WR	White/Red			
NBR XLE716BK	Black	7/16"	6,200 lbs	6.0 lbs
NBR XLE716BW	Blue/White			
NBR XLE716GW	Green/White			
NBR XLE716RW	Red/White			
NBR XLE716SILBK *	Silver/Black			
NBR XLE716SILG*	Silver/Green			
NBR XLE716W	White			
NBR XLE716WBK	White/Black			
NBR XLE716WB	White/Blue			
NBR XLE716WG	White/Green			
NBR XLE716WR	White/Red			
NBR XLE012BKW	Black/White	1/2"	8,500 lbs	7.5 lbs
NBR XLE012BW	Blue/White			
NBR XLE012GW	Green/White			
NBR XLE012RW	Red/White			
NBR XLE012SILBK *	Silver/Black			
NBR XLE012WB	White/Blue			
NBR XLE012WBK	White/Black			
NBR XLE012W	White			
NBR XLE012WG	White/Green			
NBR XLE012WR	White/Red			

- Sold by 1200' reel:

NBR XLE516BW-1200' * 5/16", Blue/White

* Special Order - may have stock

Novabraid Double Braid Nylon

- Designed for general marine, industrial, and commercial use where controlled elongation, high strength, and abrasion resistance are required
- Constructed from the highest quality yarns to resist mildew, rot, and most chemicals
- Balanced core and cover construction insure easy splicing
- Urethane coated cover
- Sold by the foot
- 600' reels



Part #	Size	Colour	AATS*
NBR NBK516	5/16"	Solid Black	3,400 lbs
NBR NBK038	3/8"	Solid Black	5,000 lbs
NBR NBK012	1/2"	Solid Black	8,000 lbs
NBR NBK058	5/8"	Solid Black	14,000 lbs
NBR NBK034	3/4"	Solid Black	19,000 lbs
NBR NBK100	1"	Solid Black	33,500 lbs
NBR NG014	1/4"	White w/Gold tracer	2,400 lbs
NBR NG516	5/16"	White w/Gold tracer	3,400 lbs
NBR NG038	3/8"	White w/Gold tracer	5,000 lbs
NBR NG012	1/2"	White w/Gold tracer	8,000 lbs
NBR NG058	5/8"	White w/Gold tracer	14,000 lbs
NBR NG034	3/4"	White w/Gold tracer	19,000 lbs
NBR NGW014	1/4"	Gold w/White tracer	2,400 lbs
NBR NGW516	5/16"	Gold w/White tracer	3,400 lbs
NBR NGW038	3/8"	Gold w/White tracer	5,000 lbs
NBR NGW012	1/2"	Gold w/White tracer	8,000 lbs
NBR NGW058	5/8"	Gold w/White tracer	14,000 lbs
NBR NGW034	3/4"	Gold w/White tracer	19,000 lbs
NBR NDB038	3/8"	White (Neptune)	5,000 lbs
NBR NDB012	1/2"	White (Neptune)	8,000 lbs
NBR NDB034	3/4"	White (Neptune)	19,000 lbs

*AATS Approximate Average Tensile Strength

Samson Double Braid Nylon

- 100% nylon rope provides strength and engineered elongation
- Surges are cushioned and loads on fittings reduced
- High abrasion resistance and Para + Braid non-rotating feature
- Ideal choice for dock or anchor lines and is fully spliceable
- Sold by the foot
- 600' reels



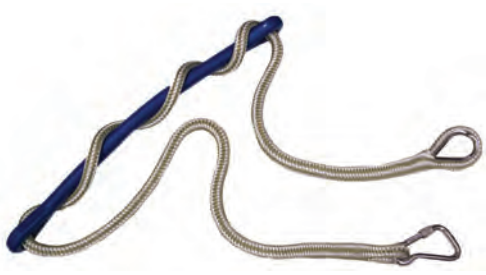
Part #	Colour	Strength
SAM 468-GW-1/4"	Gold	2,100 lbs
SAM 468-GW-5/16"	Gold	2,800 lbs
SAM 468-GW-3/8"	Gold	4,900 lbs
SAM 468-GW-1/2"	Gold	8,200 lbs
SAM 468-GW-5/8"	Gold	13,500 lbs
SAM 468-BK-3/8"	Black	4,900 lbs
SAM 468-BK-1/2"	Black	8,200 lbs
SAM 468-BK-5/8"	Black	13,500 lbs
SAM 472-WH-1/4"	White	2,200 lbs
SAM 472-WH-5/16"	White	3,400 lbs
SAM 472-WH-3/8"	White	4,700 lbs
SAM 472-WH-1/2"	White	8,600 lbs
SAM 472-WH-5/8"	White	15,200 lbs
SAM 472-WH-3/4"	White	18,800 lbs
SAM 472-WH-1"	White	36,000 lbs

Custom Rope Splicing Service

Have your rope order spliced to your specifications

*** Custom Sized Dock Lines * Halyards * Mooring Buoy Tethers ***

*** Tow Lines * Towing Bridles * Rope to Chain Anchor Rode ***







Contact our Sales Department to discuss your needs

Canada Cordage 3-Strand Nylon



- Manufactured of Dupont 707 nylon
- Nylon absorbs shock loads better than any other rope making it ideal for anchor and dock lines
- It can be stored wet, resists most acids, alkalis and organic solvents and will not rot
- White
- Sold by the coil or by the foot

Part #	Sku	Dia x L	Strength	Length
CCI 1/4X50N	handy-coil	1/4" x 50'	1,190 lbs	50'
CCI 3/8X50N	handy-coil	3/8" x 50'	2,592 lbs	50'
CCI 1/2X50N	handy-coil	1/2" x 50'	4,536 lbs	50'
CCI 1/4"N	foot	1/4"	1,190 lbs	1200'
CCI 5/16"N	foot	5/16"	1,836 lbs	1200'
CCI 3/8"N	foot	3/8"	2,592 lbs	600'
CCI 1/2"N	foot	1/2"	4,536 lbs	600'
CCI 5/8"N	foot	5/8"	7,125 lbs	600'
CCI 3/4"N	foot	3/4"	N/A	600'

Samson Pro-Set 3-Strand Nylon



- Premium 3-strand rope
- Manufactured to minimize shrinkage snagging and hockling and to maximize strength, durability and flexibility
- An excellent choice for chain/rope windlasses
- Sold by the foot
- 600' reels

Part #	Dia	Strength	Weight per 100'
SAM 170-1/2"	1/2"	6,300 lb	6.2 lb
SAM 170-9/16"	9/16"	7,900 lb	8.1 lb
SAM 170-5/8"	5/8"	10,000 lb	10.5 lb
SAM 170-3/4"	3/4"	13,500 lb	14.5 lb

Novabraid Nov-Eight



Nov-Eight 8 plait rope combines the strength and tenacity of a durable single braid Nylon Rope with a firm square braid that feeds well in modern anchor windlasses. Easy to handle, Nov-Eight stows in anchor lockers using a fraction of the space of equivalent size and length 3 strand ropes. Nov-Eight resists twisting and hockling making anchor deployment and retrieval easy and stress free. Nov-Eight is ideal for use in marine applications that demand a high level of elasticity built into the rope to absorb shock loads. Built from high tenacity nylon 6.6 yarns, Nov-Eight grabs in the jaws of popular marine windlasses and can be spliced directly to chain to create a strong and durable anchor rode that lasts for many seasons. Nov-Eight is initially soft to the touch but is designed to be firm to use after wetted and dried on its initial use.

- 8 Plait construction
- Stows easily in anchor locker
- Flakes to save space - resists twists and kinks
- Can be spliced direct to chain - no need for thimbles
- Sold by the foot, or by 600' reel

Part #	Size	Weight lbs/100 ft	AATS*
NBR NE012	1/2"	6.2	8,830 lb
NBR NE1/2"X600'			
NBR NE916	9/16"	6.4	9,800 lb
NBR NE9/16"X600'			
NBR NE058	5/8"	9.1	12,840 lb
NBR NE5/8"X600'			

*AATS Approximate Average Tensile Strength

► Also See Rope / Chain pg 14-035 to 036

► Also See Anchor Lines pg 14-016

Canada Cordage 3-Strand Polypropylene

A three-strand, twisted monofilament "polyprop", the lightest, most widely used, most economical rope on the market. Strength is far greater than Manila and other characteristics including long life, ease of handling and excellent resistance to most acids and alkalis. Popular for marine, farm and general applications including commercial fishing lines, towing and mooring lines. Unlike other rope fibres, polyproplylene floats! Supplied in individual shrink wrapped yellow handy-coils and yellow or blue cut lengths, coils or reels.

Blue	Yellow			Hot Pink	
Cut	Cut	Coil	Reel	Reel	Strength
-	-	-	CCI 3/16X2125P	-	520 lbs
CCI 1/4"B	CCI 1/4"Y	-	-	CCI 1/4PX1310	900 lbs
CCI 5/16"B	CCI 5/16"Y	-	CCI 5/16X975P	-	1,368 lbs
CCI 3/8"B	CCI 3/8"Y	CCI 3/8X50P	CCI 3/8X630P	-	1,911 lbs
CCI 1/2"B	CCI 1/2"Y	-	CCI 1/2X335YR	-	3,024 lbs
CCI 5/8"B	CCI 5/8"Y	CCI 5/8X200P	-	-	4,464 lbs
CCI 3/4"B	CCI 3/4"Y	-	-	-	6,120 lbs
CCI 1"B	CCI 1"Y	-	-	-	-



Samson Hollow Braid Polypropylene Rope

- An excellent all-purpose rope
- Made of single braided 8-strand, ultra-violet stabilized polypropylene
- Quick and easy to splice
- Floating
- Black/Blue
- Sold by the foot
- 600' reels



SAM 308-1/4"
SAM 308-5/16"
SAM 308-3/8"
SAM 308-1/2"
SAM 308-5/8"

Canada Cordage Hollow Braid Polypropylene Rope

- An excellent all-purpose rope
- Made of single braided 8-strand, ultra-violet stabilized polypropylene
- Quick and easy to splice
- Floating
- Yellow
- Sold by the foot



CCI HB-Y-5/16" 1000' reel
CCI HB-Y-3/8" 500' reel

Samson Braided Floatline

- This bright yellow rope with red identification tracer is made of 100% polypropylene fibres
- High visibility, permanent flotation, excellent handling qualities and non-torqueing
- Strongest floating line available
- Sold by the foot
- 600' reels



Part No.	Strength
SAM 461-1/4"	1700 lbs
SAM 461-3/8"	3200 lbs
SAM 461-1/2"	5200 lbs
SAM 461-5/8"	7400 lbs

► *Also See* Novabraid Nova Lite pg 14-005

► *Also See* Line Winder pg 17-014

Polysteel Sinking Rope

EsterPro Line is a combination rope manufactured using continuous filaments of high tenacity 7.5 g/d polysteel fibre as a strong inner core being enveloped with polyester fibres. EsterPro rope has a specific gravity of 1.15. An excellent rope for commercial fishing and industrial uses.



- 3575 lbs breaking strength
- Sold by the reel

PSR 11/32"X1800'

Polysteel Rope

Made from filaments, which are extruded on a state of the art computerized production line which monitors all aspects of the manufacturing process to extremely tight tolerances. This results in a fibre, which has a minimum tenacity of 7.5 grams per denier, the highest grams per denier of any fibre commonly used in the manufacturing of polypropylene or polyethylene rope.



- Approximately 40% stronger than polypropylene / polyethylene
- 18% elongation
- Excellent UV protection
- Superior abrasion resistance
- No loss of strength when wet
- Stores wet
- Resists rot and mildew
- Sold by the reel

Part #	Dia. mm	Approx. Weight per coil	Strength
PSR 1/4"X1200'	6	18 lbs	1,650 lbs
PSR 5/16"X1200'	8	24 lbs	2,820 lbs
PSR 3/8"X1200'	10	37 lbs	3,700 lbs
PSR 1/2"X600'	12	31 lbs	5,100 lbs
PSR 5/8"X600'	16	48 lbs	10,640 lbs
PSR 3/4"X600'	18	69 lbs	13,570 lbs
PSR 7/8"X600'	22	90 lbs	18,780 lbs
PSR 1"X600'	24	110 lbs	21,730 lbs
PSR 1-1/8"X600'	28	147 lbs	29,000 lbs
PSR 1-1/4"X600'	30	169 lbs	33,050 lbs
PSR 1-1/2"X600'	36	238 lbs	47,560 lbs
PSR 1-5/8"X600'	40	293 lbs	58,910 lbs
Black			
PSR 3/4"X600'-BLK	18	69 lbs	13,570 lbs
PSR 1"X600'-BLK	24	110 lbs	21,730 lbs

Samson Accessory Cord



- Polyester cover, parallel core and a kernmantle construction
- Great flexibility
- Covers have excellent grip
- Low stretch
- Perfect for one design and small boat running rigging, lacing bimini tops or trampolines

Part #	Size	Strength
Sold by the foot		
SAM 480-2MM	5/64" x 300'	230 lbs
SAM 480-3MM	1/8" x 300'	600 lbs
SAM 480-4MM	5/32" x 300'	1,000 lbs
SAM 480-5MM	3/16" x 300'	1,200 lbs
SAM 480-6MM	1/4" x 300'	2,200 lbs
SAM 480-9MM	3/8 x 300'	4,300 lbs
Full reels only		
SAM 480-4MMX1000'	5/32" x 1000'	1,000 lbs

Samson Nylon Starter Cord



A 100% nylon cord with a white braided cover over a twisted core to provide abrasion resistance, body and flexibility.

- 1000' reels

Part #	Dia.	Strength
SAM 580-#3X1000'	3/32"	540 lbs
SAM 580-#4X1000'	1/8"	650 lbs
SAM 580-#5X1000'	5/32"	850 lbs
SAM 580-#6X1000'	3/16"	1,000 lbs

Samson Nylon Braided Twine



- Put up in 2 lb. tubes
- 100% filament nylon

Part #	Dia	Weight
SAM 305-#30WH	3/32"	2 lb
SAM 305-#36WH	1/8"	2 lb
SAM 318-#72WH	3/16"	2 lb

Canada Cordage Tarred Sisal



- Put up in 5 lb balls, this tarred sisal is for general marine use

CCI TWTARMARHEMP5

Samson Lash-It



Called "the sailor's duct tape" because of its multiple uses on any sailboat. A single braid made from Dyneema fiber with Samthane urethane coating, Lash-It offers a high strength-to-weight ratio: it is stronger than steel, so light it floats, and does not absorb water.

- Comes in 180' tubes

SAM 811-1.75MM 1/16", 500 lb
SAM 811-2.20MM 3/32", 650 lb

Maffioli Braided Line



- HT polyester braid
- Box of 8, assorted colours
- 3 mm diameter
- Length: 20m each

MAF TRSCPY003KTF

English Braid Whipping Twine



- Waxed polyester whipping twine
- Two weights (#4 or heavy #8)
- Length: 25 & 50 meters

ENG 36019010000 #4, White, 50m
ENG 36019010900 #4, Black, 50m
ENG 36019010910 #4, Blue, 50m
ENG 36019010960 #4, Red, 50m
ENG 36019010980 #4, Yellow, 50m
ENG 36029010000 #8, White, 25m

Maffioli Waxed Whipping Twine



- 1.4 mm HT polyester braid in 20 meter lengths
- Convenient storage/dispensing case

MAF TRSCFC0014KTBK Black
MAF TRSCFC0014KTWH White

Sea-Dog Whipping Twine Kit



- White waxed & braided polyester
- 1 mm x 45'
- Includes #15 needle

SED 562569WH-1

Sail Twine



- Pre-waxed, polyester sail twine for whipping, stitching and repairing
- 100% continuous filament
- Comes with 15 gauge x 2-1/2" sailmaker's needle
- Put up in 4 oz roll

SAI 3MBB-4 40 lb test - 170 yd
SAI 7PB-4 100 lb test -110 yd

Osborne Sailmaker's Needles

Manufactured in England to Osbornes' exacting standards. Nickel-plated fine steel with triangular point.

Part No.	(Gauge X Length)
Straight:	
OSE 509-9G-4"	9 x 4"
OSE 509-10G-33/4"	10 x 3-3/4"
OSE 509-12G-31/4"	12 x 3-1/4"
OSE 509-13G-3"	13 x 3"
OSE 509-14G-23/4"	14 x 2-3/4"
OSE 509-15G-21/2"	15 x 2-1/2"
OSE 509-16G-23/8"	16 x 2-3/8"
OSE 509-17G-21/4"	17 x 2-1/4"
Bent:	
OSE 508-9G-6"	9 x 6"
OSE 508-10G-5"	10 x 5"



Osborne Sail Palms



Fine quality rawhide palms of English manufacture. The iron thimble is hide bound, as are both joints, riveted.

OSE 265-L Left hand
OSE 265-R Right hand

Sea-Dog Splicing Fids



- Stainless steel w/hardwood handle

SED 562008-1 1/8-1/2" line, 6-13/16" long
SED 562016-1 1/2" and up, 11" long

Samson Aluminum Fids and Pushers

These fids are for splicing of dual braided nylon or polyester ropes, selected by rope diameter. Each is calibrated for splice measurements.



SAM 901-1/4 1/4"
SAM 901-5/16 5/16"
SAM 901-3/8 3/8"
SAM 901-7/16 7/16"
SAM 901-1/2 1/2"
SAM 901-9/16 9/16"
SAM 901-5/8 5/8"
SAM 901-3/4 3/4"
SAM 901-7/8 7/8"
SAM 901-1" 1"
SAM 913-SMALL Pusher for 1/4" to 1/2"
SAM 914-LARGE Pusher for 9/16" to 1"

Samson Splicing Kit



The Samson splicing kit contains five tubular fids for splicing lines of 1/4" (6mm), 5/16" (8mm), 3/8" (9mm), 7/16" (11mm), 1/2" (12mm), along with a pusher in a convenient plastic tube.

SAM 999-007

Samson Splice Training Kit



Splice training kit comes complete with a fid, pusher, instruction manual and a length of double braid rope.

SAM 999-001 Kit
Accessories:
SAM 996-006 Splicing manual only

Sea-Dog Rope Cutter



- Electric 120V hot blade cuts all types of poly cordage quickly and cleanly
- Powder coated steel
- Includes, wire cleaning brush and blade removal tool
- ETL listed

SED 300090-3

Sea-Dog Rope Cutter



- Easily cuts and heat seals nylon, polyester, polypropylene and Dacron cordage and webbing
- Blade heats to 700° F (400° C)
- Includes replaceable blade and soldering tip
- 110V. UL listed

SED 300097-3

Panther Rope Cutting Gun



- 120V, 150W, 1.5 amp
- Makes quick clean cuts in synthetic ropes, lines, and strapping

PAN 75-7060B Unit
PAN 75-7061 Replacement blade

Sea-Dog Webbing Cam Buckle Straps



Cast 304 stainless steel buckles with an 1" x 8' webbing strap attached. The light duty buckle has a working load limit of 550 pounds and the heavy duty buckle has a working load limit of 880 pounds.

SED 199121-1 Light duty
SED 199122-1 Heavy duty

Sea-Dog Webbing Slide



- Stamped stainless steel
- W; 1-3/8" x H: 7/8" x Slot width: 1"

SED 199011

Scotty Tarp Clips



- Powerful locking jaws provide ultimate gripping power
- Quick and easy to use
- Made from tough reinforced nylon

SCO 300BK Tarp clips, black, 4/pkg
SCO 301BK 60 Tarp clips with display bucket

Novabraid Shock Cord

Unlike hardware variety shock cord, Nova Shock is braided with colour fast solution dyed polyester cover yarns for superior protection against abrasion and ultra-violet light. The core is comprised of parallel strands of round latex rubber, yielding 85% to 100% elongation and recovery even after exposure to freezing conditions.



- Abrasion resistant
- UV stabilized cover
- Continuous length reels
- 250' reels

Part #	Colour	Size	Elongation - Force Newtons 20% - 50% - 80% - 100
NBR S018B-250'	Blue	1/8" (3mm)	9 - 13 - 18 - 22
NBR S018BK-250'	Black		
NBR S018R-250'	Red		
NBR S018W-250'	White		
NBR S316B-250'	Blue	3/16" (5mm)	27 - 36 - 49 - 58
NBR S316BK-250'	Black		
NBR S316G-250'	Green		
NBR S316R-250'	Red		
NBR S316W-250'	White		
NBR S014B-250'	Blue	1/4" (6mm)	27 - 36 - 49 - 58
NBR S014BK-250'	Black		
NBR S014R-250'	Red		
NBR S014W-250'	White		
NBR S516B-250'	Blue	5/16" (8mm)	49 - 67 - 85 - 98
NBR S516BK-250'	Black		
NBR S516W-250'	White		
Sold by the foot, 250' reels			
NBR S038BK	Black	3/8" (10mm)	53 - 75 - 115 - 135
NBR S038W	White		

Sea-Dog Elastic Shock Cords

- Constructed of natural rubber with a polyethylene cover.
- Coated hooks with protective tips
- Assorted colours



Part #	Length	Diameter
SED 650120-1	12"	5/16"
SED 650180-1	18"	11/32"
SED 650240-1	24"	3/8"
SED 650300-1	30"	3/8"
SED 650360-1	36"	3/8"
SED 650400-1	40"	3/8"

Sea-Dog Elastic Shock Cords

- Constructed of natural rubber with a nylon cover
- Stainless steel hooks
- White with blue fleck



Part #	Length	Diameter
SED 651180-1	18"	3/8"
SED 651240-1	24"	3/8"
SED 651300-1	30"	3/8"
SED 651360-1	36"	3/8"
SED 651400-1	40"	3/8"

Just Ducky Bungee Cords



- 100% black polyurethane construction
- Will not crack, break or become brittle
- Withstands saltwater, oil and ozone
- Stretches up to twice its original length and has excellent memory retention

PCS PC12-BK 1/4" x 12"
PCS PC18-BK 1/4" x 18"
PCS PC24-BK 1/4" x 24"

Handiman Shock Cord Crimp Rings



- Stainless steel

Part #	Size	Pkg
HAN 520011	3/8"	6
HAN 520021	3/4"	6
HAN 520031	7/8"	6

Sea-Dog Shock Cord Crimp Rings



- Stainless steel
- 10/pkg

SED 657065-1 1/4"
SED 657085-1 5/16"
SED 657105-1 3/8"

► *Also See* Ring Pliers pg 18-017

Sea-Dog Stainless Steel Shock Cord Hooks

- Formed 304 stainless steel hook and crimps
- Packaged in pairs of 2 hooks and 2 crimps



SED 657066-1 1/4"
SED 657086-1 5/16"
SED 657106-1 3/8"

Sea-Dog Shock Cord Clips



- Injection molded white nylon
- Strong positive closing clip will not corrode
- Suffix (-1) indicates display package.

Part #	Fits Line	Eye Dia	Colour	Pack
SED 652060	1/4"	7/16"	White	Bulk
SED 652060-1	1/4"	7/16"	White	Display
SED 652061	1/4"	7/16"	Black	Bulk
SED 652080	5/16"	9/16"	White	Bulk
SED 652080-1	5/16"	9/16"	White	Display
SED 652081	5/16"	9/16"	Black	Bulk
SED 652100	3/8"	3/4"	White	Bulk
SED 652101	3/8"	3/4"	Black	Bulk

Sea-Dog Bungee Ends

- Allows capping of ¼" bungees with alternate ends
- Sold in pairs
- Constructed of injection molded acetal



SED 653161-1 Terminal end with sleeve
SED 653261-1 Open hook with sleeve
SED 653361-1 Locking hook with sleeve

Davis Super Quick Fist Rubber Clamp



- Mounts with 3 #10 bolt or screw
- Holds objects from 2-1/2" to 7-1/2" diameter
- Approximate capacity is 50 lbs each
- Mounting base: 7/8" x 6"

DIN 544 Each

Airhead 'Wrap It Up'



The hook and loop fasteners are sewn to durable 12" x 1" webbing and reinforced with a bar tack at each end.

AIR WR-123 3 per blister pack, assorted colours
AIR WR-12100 100 pc display, assorted colours

3M Dual Lock Reclosable Fasteners



- 5 times stronger than conventional hook & loop systems
- Bonds to metals, glass and high surface energy plastics
- Interlocking mushroom-shaped heads (type 250 stem density) provide strong, reliable and durable fastening that can be opened and closed multiple times
- Mates with itself or Type 170 and Type 400 stem densities

THR MP-3560 Clear 1" x 4.9 yards, 2/pkg

Sea-Dog
Double Braid Dock Lines



- 100% premium double braided nylon
- Spliced soft eye at one end and whipped at the bitter end and splice point
- 3/8" and 1/2" lines have a 12" eye
- 5/8" lines have a 15" eye

Part #	Colour
SED DB-3/8X10-BK	Black
SED DB-3/8X10-BL	Blue
SED DB-3/8X10-GW	Gold/White
SED DB-3/8X10-GY	Grey
SED DB-3/8X10-NV	Navy
SED DB-3/8X10-WH	White
SED DB-3/8X15-BK	Black
SED DB-3/8X15-BL	Blue
SED DB-3/8X15-GW	Gold/White
SED DB-3/8X15-GY	Grey
SED DB-3/8X15-NV	Navy
SED DB-3/8X15-RD	Red
SED DB-3/8X15-WH	White
SED DB-3/8X20-BK	Black
SED DB-3/8X20-BL	Blue
SED DB-3/8X20-GW	Gold/White
SED DB-3/8X20-GY	Grey
SED DB-3/8X20-NV	Navy
SED DB-3/8X20-RD	Red
SED DB-3/8X20-WH	White
SED DB-3/8X25-BK	Black
SED DB-3/8X25-GW	Gold/White
SED DB-3/8X25-GY	Grey
SED DB-3/8X25-NV	Navy
SED DB-3/8X25-RD	Red
SED DB-3/8X25-WH	White
SED DB-3/8X50-BK	Black
SED DB-1/2X10-BK	Black
SED DB-1/2X10-GW	Gold/White
SED DB-1/2X10-GY	Grey
SED DB-1/2X10-NV	Navy
SED DB-1/2X10-WH	White
SED DB-1/2X15-BK	Black
SED DB-1/2X15-GW	Gold/White
SED DB-1/2X15-GY	Grey
SED DB-1/2X15-NV	Navy
SED DB-1/2X15-RD	Red
SED DB-1/2X15-WH	White
SED DB-1/2X20-BK	Black
SED DB-1/2X20-GW	Gold/White
SED DB-1/2X20-GY	Grey
SED DB-1/2X20-NV	Navy
SED DB-1/2X20-RD	Red
SED DB-1/2X20-WH	White
SED DB-1/2X25-BK	Black
SED DB-1/2X25-GW	Gold/White
SED DB-1/2X25-NV	Navy
SED DB-1/2X25-RD	Red
SED DB-1/2X25-WH	White
SED DB-1/2X30-BK	Black
SED DB-1/2X30-GW	Gold/White
SED DB-1/2X30-WH	White

Sea-Dog
Double Braid Dock Lines, continued



Part #	Colour
SED DB-1/2X35-BK	Black
SED DB-1/2X35-GW	Gold/White
SED DB-1/2X35-NV	Navy
SED DB-5/8X15-BK	Black
SED DB-5/8X15-GW	Gold/White
SED DB-5/8X15-NV	Navy
SED DB-5/8X15-WH	White
SED DB-5/8X20-BK	Black
SED DB-5/8X20-GW	Gold/White
SED DB-5/8X20-NV	Navy
SED DB-5/8X20-WH	White
SED DB-5/8X25-BK	Black
SED DB-5/8X25-GW	Gold/White
SED DB-5/8X25-WH	White
SED DB-5/8X30-BK	Black
SED DB-5/8X30-GW	Gold/White
SED DB-5/8X30-NV	Navy
SED DB-5/8X30-WH	White
SED DB-5/8X35-BK	Black
SED DB-5/8X35-NV	Navy
SED DB-5/8X35-WH	White

Sea-Dog
3-Strand Nylon Dock Lines



- Twisted nylon dockline
- 100% twisted three-strand nylon has excellent flexibility and stretch to absorb shock with a soft feel
- Professionally spliced with five tucks and yacht whipped at the bitter end

SED TW-3/8X10-BK	3/8" x 10', Black
SED TW-3/8X15-BK	3/8" x 15', Black
SED TW-3/8X10-WH	3/8" x 10', White
SED TW-3/8X15-WH	3/8" x 15', White
SED TW-3/8X20-WH	3/8" x 20', White
SED TW-3/8X25-WH	3/8" x 25', White
SED TW-1/2X15-WH	1/2" x 15', White

CMP Cordage
Double Braid Dock Lines



- Cover and core both composed of 100% continuous filament high tenacity Type 6 nylon
- Cover and core both torque balanced to increase strength and reduce rotation under load
- Cover yarn has extra twist to improve abrasion resistance and strength
- Exceeds Cordage Institute standards for strength
- Solution dyed for colour fastness and reduced fading
- Bitter end is heat sealed to prevent fraying and protected with an overall non-corrosive flexible polyolefin shrink tube
- Includes heavy duty reusable storage strap

CMP CDL3810BK	3/8" x 10', Black
CMP CDL3810NY	3/8" x 10', Navy
CMP CDL3810WH	3/8" x 10', White
CMP CDL3810WG	3/8" x 10', White/Gold
CMP CDL3815BK	3/8" x 15', Black
CMP CDL3815NY	3/8" x 15', Navy
CMP CDL3815WH	3/8" x 15', White
CMP CDL3815WG	3/8" x 15', White/Gold
CMP CDL3820BK	3/8" x 20', Black
CMP CDL3820NY	3/8" x 20', Navy
CMP CDL3820WH	3/8" x 20', White
CMP CDL3820WG	3/8" x 20', White/Gold
CMP CDL3825BK	3/8" x 25', Black
CMP CDL3825NY	3/8" x 25', Navy
CMP CDL3825WH	3/8" x 25', White
CMP CDL3825WG	3/8" x 25', White/Gold
CMP CDL3830BK	3/8" x 30', Black
CMP CDL1210BK	1/2" x 10', Black
CMP CDL1210NY	1/2" x 10', Navy
CMP CDL1210WH	1/2" x 10', White
CMP CDL1210WG	1/2" x 10', White/Gold
CMP CDL1215BK	1/2" x 15', Black
CMP CDL1215NY	1/2" x 15', Navy
CMP CDL1215WH	1/2" x 15', White
CMP CDL1215WG	1/2" x 15', White/Gold
CMP CDL1220BK	1/2" x 20', Black
CMP CDL1220NY	1/2" x 20', Navy
CMP CDL1220WH	1/2" x 20', White
CMP CDL1220WG	1/2" x 20', White/Gold
CMP CDL1225BK	1/2" x 25', Black
CMP CDL1225NY	1/2" x 25', Navy
CMP CDL1225WH	1/2" x 25', White
CMP CDL1225WG	1/2" x 25', White/Gold
CMP CDL1230BK	1/2" x 30', Black

CMP Cordage
Double Braid Dock Lines, continued



CMP CDL5815BK	5/8" x 15', Black
CMP CDL5815NY	5/8" x 15', Navy
CMP CDL5815WH	5/8" x 15', White
CMP CDL5815WG	5/8" x 15', White/Gold
CMP CDL5820BK	5/8" x 20', Black
CMP CDL5820NY	5/8" x 20', Navy
CMP CDL5820WH	5/8" x 20', White
CMP CDL5820WG	5/8" x 20', White/Gold
CMP CDL5825BK	5/8" x 25', Black
CMP CDL5825NY	5/8" x 25', Navy
CMP CDL5825WH	5/8" x 25', White
CMP CDL5825WG	5/8" x 25', White/Gold
CMP CDL5830BK	5/8" x 30', Black
CMP CDL5830NY	5/8" x 30', Navy
CMP CDL5830WH	5/8" x 30', White
CMP CDL5830WG	5/8" x 30', White/Gold
CMP CDL5840BK	5/8" x 40', Black
CMP CDL5840WG	5/8" x 40', White/Gold
CMP CDL3425BK	3/4" x 25', Black
CMP CDL3440BK	3/4" x 40', Black

Sea-Dog Dual Braid Anchor Lines



- Gold/White
- Double braided nylon anchor line
- 100% premium double braided nylon anchor lines have excellent flexibility and stretch to absorb shock with a soft feel
- Stainless steel thimble
- Professionally spliced
- Yacht whipped at thimble splice point
- Packaged on an easy to dispense spool

SED DB-3/8X60-G/W	3/8" x 60'
SED DB-3/8X100-GW	3/8" x 100'
SED DB-3/8X150-GW	3/8" x 150'
SED DB-1/2X100-GW	1/2" x 100'
SED DB-1/2X150-GW	1/2" x 150'
SED DB-1/2X200-GW	1/2" x 200'

Sea-Dog 3-Strand Nylon Anchor Lines



- Twisted nylon anchor line
- 100% twisted three-strand nylon anchor lines have excellent flexibility and stretch to absorb shock with a soft feel
- Stainless steel thimble
- Professionally spliced with five tucks and yacht whipped at the bitter end
- Packaged on an easy to dispense spool

SED TW-3/8X100-WH	3/8" x 100'
SED TW-3/8X150-WH	3/8" x 150'

Sea-Dog Poly Anchor Lines



- Hollow braid anchor line with snap
- 100% multi-filament polypropylene
- Plated steel snap

SED POLY-1/4X50-YW
SED POLY-1/4X100-YW
SED POLY-3/8X100-YW

Samson Harbormaster Anchor Lines

- A high-strength, non-twisting, free-running, rot proof 100% dual braid nylon
- Gold-Braid are double braids composed of a braided nylon core with a braided nylon cover
- Includes a pre-spliced, reinforced black synthetic captive thimble
- All Samson dock and anchor lines are treated with Samson's Pro-Gard 1000 marine finish to enhance wet strength and abrasion resistance

Part #	Strength lbs
SAM 605WG-3/8X100	4,900
SAM 605WG-3/8X150	
SAM 605WG-3/8X200	
SAM 605WG-1/2X300	8,200



► *Also See* Rope/Chain pg 14-035

Sea-Dog Mooring Line Chafe Kits

- Leather chafe protectors including waxed twine and a needle for sewing
- Sold in pairs
- Length: 10"



SED 561010-1	3/8" & 7/16"
SED 561012-1	1/2"
SED 561016-1	5/8"
SED 561019-1	3/4"

Davis Mooring Line Chafe Guards



- Removable chafe guards fit 3/8" to 7/8" line (10 mm to 23 mm)
- Velcro brand hook fasteners on the inside of the guard grip the line securely
- Easily reposition when dock lines stretch and chafe protection needs to be moved
- Made of nylon
- Each chafe guard is 16" long (40 cm)
- 2/pkg



DIN 395	White
DIN 397	Black

Falcon Mooring Snubbers



- Made from tough EPDM rubber with a injection molded nylon locking system vulcanized into each end
- Can stretch to twice its resting length
- Unique locking mechanism grips tighter the harder its pulled
- 5-year free replacement guarantee



FAL LLM-1	17" x 3/8" rope
FAL LLM-2	19.5" x 5/8" rope
FAL LLM-3	22" x 3/4" rope
FAL LLM-4	24.5" x 1" rope

Sea-Dog Rubber Mooring Snubbers



SED 561512	17-1/8" with 3/8" eye
SED 561516	19-3/4" with 1/2" to 9/16" eye
SED 561520	21-1/2" with 5/8" to 3/4" eye

Just Ducky Mooring Snubber



- Accepts line up to 3/4" diameter
- 1,000 lb pull rated
- Unharmed by salt, ozone & UV rays
- 24" in length

PCS PLS-BK	Black

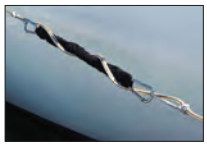
Davis Line Anchor Snubber



- Eases the tension on the anchor chain, rode or snubber line
- Eliminates chain noise and shock loads to chain, anchor roller, or windlass cleats
- 20" in length
- Black

DIN 2420

Davis Line Shockles Line Snubbers



- Eliminates shock loads on dock lines, towing lines, tie downs and preventers
- Progressive tension design with internal stretch limiter

DIN 2415	12", Blue
DIN 2410	20", Black

Airhead Bungee Dock Lines

- Bungee cord hidden inside the rope acts as a built-in snubber
- Two foam floats protect the boat from chafing
- Sliding adjustment at both ends for quick docking
- Recommended for docking boats and PWC's up to 4,000 lbs
- Tensile strength is 2,150 lbs
- Black/blue/red colour scheme



AIR AHDL-4	4', stretches to 5-3/4'
AIR AHDL-5	5', stretches to 7'
AIR AHDL-6	6', stretches to 9'

Sea-Dog Bungee Dock Lines

- Adjustable eyes with rubber chafe protectors and mesh covered bungee centres
- Designed to be used in combination with standard dock lines
- Constructed of polypropylene and natural rubber with a polyester cover
- 3/8" rope dia



SED 306254-1	4' - 5.5', White
SED 306255-1	5' - 6.5', White
SED 306256-1	6' - 7.5', White

Davis Line Mini Shockles



- UV resistant nylon webbing is sewn over elastomer
- 316 S/S wire gate snaps hold up to 300 pounds (136 kg)
- Ten times the capacity of most standard bungee cords
- Black

DIN 2430	12"
DIN 2445	24"

Davis LineGrabber



- Ultra high modulus fiber stands up to UV rays and resists abrasion
- Holds up to 2000 lbs (900 kg) safe working load
- Will not damage braided or twisted line
- 1/4" (6 mm) ultra high modulas fiber
- 9" (23 cm) long

DIN 2460	Pair

Greenfield Anchor Buddy

- Poly-covered bungee stretches from 14' to 50'
- 5/16" chromed steel anchor shackle & snap hook
- Works with vessels up to 4,000 lbs
- Enables you to anchor straight down

The shock is taken out of your anchor line and the anchor isn't pulled loose in waves and swells as with a straight line.



GRN AB4000-RB	Blue
GRN AB4000-B	Black
GRN AB4000-RD	Red

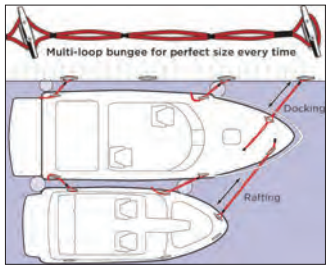
Greenfield Mini Anchor Buddy

- Poly-covered bungee stretches from 7' - 22'
- Ideal solution for shallow water and small craft applications
- Takes the shock out of your anchor line, and makes it much easier to anchor offshore
- For temporary anchoring/mooring only



GRN MB-RB Blue





Greenfield Stretch N Slide

- Versatile multi-loop bungee allows a perfect fit for any span to 7'
- Temporary docking only

GRN SNS-B

Rafting Dogs

Forged steel available in 1/2" and 5/8" sizes.

Part # / Size	LOA	ID Eye
LOG RD-1/2"	5-1/2"	1-1/8"
LOG RD-5/8"	6-3/4"	1-1/4"



Black Log Staples

Part# is the item size x length.



LOG 3/8X4
LOG 3/8X4-1/2
LOG 3/8X5
LOG 1/2X4
LOG 1/2X4-1/2
LOG 1/2X5
LOG 1/2X6

Galvanized Trolling Spring

- Popular as a mooring line shock absorber
- Bright plated

WES 1-1/2"X12" 1-1/2" x 12"



Polyform US®



Our production process is like no other in the world. Polyform US fenders and buoys feature one-piece construction, even wall thickness and reinforced ropeholds. All this sets Polyform US as the standard to measure others. Our products provide unparalleled strength and durability that you can trust to protect your boat every time.

G SERIES

PROTECTED MOORINGS

- Strong single-piece construction
- Even wall thickness for maximum strength and durability
- Molded-in ribs for extra strength
- High gloss finish
- Dependability at an affordable price



G & HTM COLORS:

BLACK | GRAPHITE | LIME | TEAL | BLUE | GREY
WHITE | BURGUNDY | CLASSIC RED | COBALT BLUE | FOREST GREEN | CATALINA BLUE | SAND

SPECIAL ORDER METALLIC COLORS:

BLACK | WHITE
BLUE | GREEN

HTM SERIES

MEDIUM TO HEAVY DUTY

- Even wall thickness for maximum strength and durability
- Reinforced tube ends
- Ribs for extra strength and stability
- Unique Polyform valve for years of service



ELITE FENDER COVERS



- Long-lasting, extra heavy duty knit polyester fabric
- Excellent color-fastness and resistance to sunlight
- Stands up to repeated washings, friction, and seawater



New! Tone-on-tone embroidered logos.

TRUE-FIT FENDER HOLDER KIT



- Fender Holder Kits include two baskets and all connectors needed for correct mounting.
- Every two holders need three TFR 402 swivel connectors and one pair of TFR 403 parallel connectors for proper installation.



Swivel Connector
TFR-404 [Fits 1-1/4" rails]
TFR-402 [Fits 7/8"–1" rails]



Parallel Connector
TFR-403
[Fits all holders]

PolyformUS.com

Polyform US®

FENDERS+BUOYS

Built Stronger to Last Longer.



A SERIES

HEAVY DUTY ONE-PIECE BUOY



- Even wall thickness for maximum strength and durability
- Polyform's unique vinyl valve system
- Redesigned ropehold for improved strength and durability
- Excellent choice for a rafting fender

A COLORS:

RED | WHITE

SPECIAL ORDER COLORS:

BLUE | GREEN | SATURN YELLOW | YELLOW | ORANGE

F SERIES

COMMERCIAL GRADE TWIN-EYE FENDER



- Even wall thickness for maximum strength and durability
- Multiple ribbed reinforced ropeholds
- Unique vinyl valve system seals securely

CM SERIES

MOORING BUOY



- Strong mooring iron made from galvanized steel with vinyl-coated eye
- Larger eye {4-3/8"} and swivel {1-1/2"} provide maximum strength
- Also available with 316 stainless steel mooring iron
- Even wall thickness for strength and durability

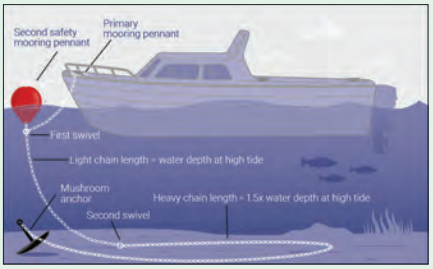
POLYFORM SIZING CHART

BOAT SIZE	FENDER SELECTION	BUOY SELECTION
Up to 10'	G-1	A-0
10' – 15'	G-2, NF-3	S-1, A-0
15' – 20'	G-3, NF-3	S-1, A-1
20' – 25'	F-1, F-02, F-2, F-3, G-4, HTM-1, NF-4	A-1, LD-1
25' – 30'	F-02, F-2, F-3, G-5, HTM-2, NF-5	A-1, LD-1
30' – 35'	F-4, F-5, G-5, HTM-3, NF-5	A-2, LD-2
35' – 40'	F-5, F-6, G-6, HTM-3	A-2, LD-2
40' – 50'	F-6, HTM-4	A-3, LD-3
50' – 60'	F-7, F-8	A-4, LD-4
60' – 70'	F-8, F-10, F-11	A-5
70' – up	F-11, F-13	A-6, A-7

PolyformUS.com

SAFETY:

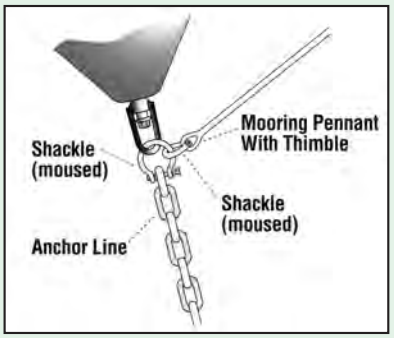
In a hard blow, the holding power of the mooring can be increased by lengthening the mooring pennant. This increases the scope of the mooring providing greater holding power – just be sure to check other boats in the moorage first to ensure you won't foul another moored boat. In adverse conditions, a second mooring pennant can be run to the top eye as a safety in case the primary pennant chafes through or fails. All shackles should be moused to prevent opening. Electricians plastic tie wraps are an excellent means of securing a shackle.

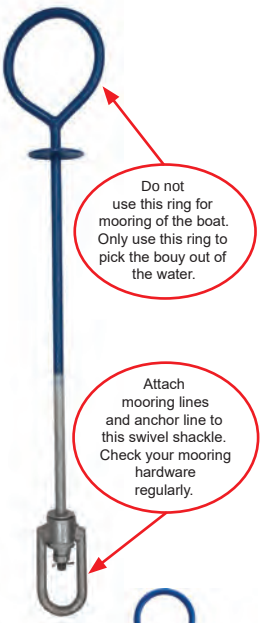


Choose a buoy which has a rating of twice the weight of ground tackle being lifted

MOORING TIP:

When picking up a mooring, always use the top ring to pick the buoy with a boat hook. Then shackle the mooring pennant to the mooring chain shackle, rather than to the buoy itself. This puts all the strain on the anchor chain, rather than the buoy



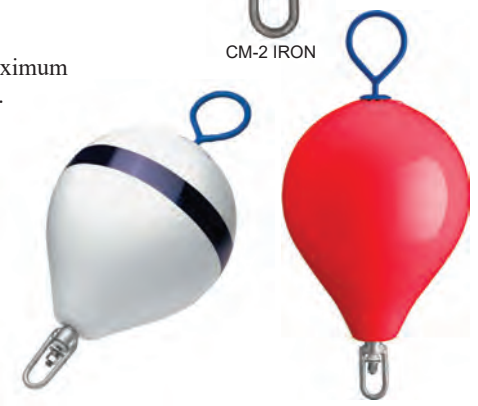


CM-2 IRON

Polyform Mooring Buoys

Offers up to 35% more buoyancy than hard shell buoys. Features a 5/8" centre tube for maximum strength. Soft vinyl surface will not harm boats finish. Easy to inflate or deflate for storage. Mooring irons in either galvanized or stainless steel with swivel and a vinyl coated 4-3/8" diameter eye. *(Stainless steel mooring irons on SKUs ending with S/S)*

Part #	Dia x L	Circ.	Tube Diameter	Volume (Gal)	Iron length w/shackle
POL CM-2-RED	13.5" x 18"	42.4"	.625"	6.6	31"
POL CM-2-RED-S/S					
POL CM-2-WH-STR					
POL CM-3-RED	17" x 22"	53.4	.625"	11.8	35"
POL CM-3-WH-STR					



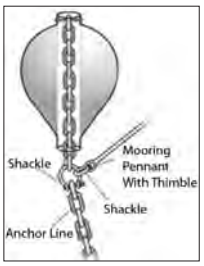
Parts:

POL CM-2-IRON	Galvanized iron only for CM-2
POL CM-3-IRON	Galvanized Iron only for CM-3
POL CM-3-IRON S/S **	Stainless steel iron only for CM-3

** While Stock Lasts

Polyform CC Series Buoys

Because of the flexible centre tube, you will see the CC buoy used in a variety of applications. They are used by longliners, fish farmers to add buoyancy to their pens, and more recently by geophysical researchers to tow sonic cannons in search of gas and oil. Polyform's unique vinyl valve system Reinforced flexible 2" centre tube accommodates a 1-1/2 PVC pipe





POL CC-2-RED Dia: 14" x L: 16.5", 6.1 gallon
POL CC-4-RED Dia: 20" x L: 25.5", 18.3 gallon

CC Series Mooring System

When using the CC series as a mooring ball, please follow these simple instructions to achieve the maximum use and durability of this product:

1) The CC series has a flexible centre tube. If you use a chain, you must first insert a rigid PVC pipe. DO NOT inflate the buoy until you have inserted the pipe.
2) Lubricate with oil both the tube and the pipe prior to inserting. Make the length of the pipe so that you have 3 inches extending beyond the top and bottom of the buoy.
3) Run a suitable size pin for your load through the top of the pipe and attach the shackle to the chain at the bottom of the buoy.

Dock Edge Mooring Buoy



Bright orange polyethylene and filled with closed cellular foam for long life under the most extreme marine conditions.

- Resistant to fire, oil and gas
- Molded in UV inhibitors and fungicides
- 24" diameter, tire style
- 80 lbs buoyancy

DOC 90-027-F

Dock Edge Mooring Buoy Accessories

Collar

- Flared Galvalume collar prevents chain wear or chafing



DOC 90-030-F Mooring buoy collar

Polyform G-Series Fenders

- Economical fenders with molded in ribbed construction from a tough commercial strength marine vinyl in one piece
- Hangs vertically or horizontally for use by trailered boats and in permanent protected moorings
- Reinforced rope holds and ribs for extra strength and stability



Part #	Dia x L	Boat Size	Eye Diameter	Max Circ
G-1	3.5" x 12.8"	up to 10'	.375"	11.0"
G-2	4.5" x 15.5"	10' to 15'	.50"	14.1"
G-3	5.5" x 19"	15' to 20'	.625"	17.3"
G-4	6.5" x 22"	20' to 25'	.75"	20.4"
G-5	8.8" x 26.8"	25' to 35'	.75"	27.6"
G-6	11" x 30"	35' to 40'	.875"	34.5"

White	Black	Blue	Burgundy	Cobalt Blue	Graphite
POL G-1-WHITE	POL G-1-BLACK	POL G-1-BLUE	-	-	-
POL G-2-WHITE	POL G-2-BLACK	POL G-2-BLUE	-	POL G-2-COB-BLUE	-
POL G-3-WHITE	POL G-3-BLACK	POL G-3-BLUE	POL G-3-BURG	POL G-3-COB-BLUE	POL G-3-GRAPHITE
POL G-4-WHITE	POL G-4-BLACK	POL G-4-BLUE	POL G-4-BURG	POL G-4-COB-BLUE	POL G-4-GRAPHITE
POL G-5-WHITE	POL G-5-BLACK	POL G-5-BLUE	POL G-5-BURG	POL G-5-COB-BLUE	POL G-5-GRAPHITE
POL G-6-WHITE	POL G-6-BLACK	POL G-6-BLUE	-	POL G-6-COB-BLUE	POL G-6-GRAPHITE *

Forest Green	Lime	Sand	Teal
-	POL G-2-LIME *	-	POL G-2-TEAL
POL G-3-FOR-GREEN	POL G-3-LIME *	POL G-3-SAND	POL G-3-TEAL
POL G-4-FOR-GREEN	POL G-4-LIME *	POL G-4-SAND	POL G-4-TEAL
-	-	-	POL G-5-TEAL

* Special Order



Polyform HTM-Series Fenders

- Classic center tube design allows for hanging vertically or horizontally
- Reinforced tube ends and ribs add strength and durability
- For medium duty use in permanent protected and unprotected moorings
- Useful protection against pilings and other awkward docking situations
- Valve system allows you to adjust the firmness of the fender
- Hole size 5/8"



Part #	Dia x L	Boat Size	Max Circ
HTM-1	6.3" x 15.5"	20' to 25'	19.8"
HTM-2	8.5" x 20.5"	25' to 30'	26.7"
HTM-3	10.5" x 27"	30' to 40'	33.0"
HTM-4	13.5" x 34.8"	40' to 50'	42.4"

White	Black	Blue	Cobalt Blue	Graphite
POL HTM-1-WHITE	POL HTM-1-BLACK	POL HTM-1-BLUE	-	-
POL HTM-2-WHITE	POL HTM-2-BLACK	POL HTM-2-BLUE	POL HTM-2-COB-BLUE	POL HTM-2-GRAPHITE
POL HTM-3-WHITE	POL HTM-3-BLACK	POL HTM-3-BLUE	POL HTM-3-COB-BLUE	POL HTM-3-GRAPHITE
POL HTM-4-WHITE	POL HTM-4-BLACK	-	-	POL HTM-4-GRAPHITE



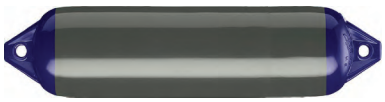
Polyform F-Series Fenders

- Heavy duty classic European style twin-eye fender
- Molded from commercial strength marine vinyl
- One-piece construction
- The strongest fenders made by Polyform
- Designed for rough commercial use
- White with blue tips



POL F-1-WHITE
POL F-2-WHITE
POL F-3-WHITE
POL F-4-WHITE
POL F-5-WHITE
POL F-7-WHITE
POL F-2-GRAPHITE
POL F-3-GRAPHITE

Part #	Dia x L	Boat Size	Max Circ
F-1	6" x 24"	20' to 25'	18.8"
F-2	8.2" x 25"	20' to 30'	25.7"
F-3	8.2" x 30"	20' to 30'	25.8"
F-4	8.5" x 40.5"	30' to 35'	26.7"
F-5	11" x 30"	30' to 40'	34.5"
F-7	15" x 41"	50' to 60'	47.1"



Polyform LD-Series Buoys

- Low-drag buoy is designed for the commercial industry
- One-piece, ribbed buoy creates less than 20% of the drag of standard round buoys
- Comes in red or white with a blue top
- 1" diameter eye



POL LD-2-RED
POL LD-3-RED
POL LD-2-WHITE

Part #	Dia x L	Boat Size	Max Circ
LD-2	11.5" x 24"	30' to 40'	36.1"
LD-3	13.5" x 29"	40' to 50'	42.4"



Polyform G-4 Fender Multi-Packs

- Excellent new boat package
- Four G-4 fenders with custom, multi-use Polyform bag with drawstring closure and carry strap

POL G-4-4PACK-WHITE **
** While Stock Lasts

Dock Edge Value Fender Packages



- One piece construction
- Rubber inflation valve
- Includes 2 white fenders, 2 fender covers and 5' white fenders lines

DOC 77-301F 5.5" x 20" 2/pack
DOC 77-331F 6.5" x 23" 2/pack

Polyform S-1 Buoy



- Elongated shape allows the buoy to sit higher in the water than a round buoy, making it more visible during times of strong currents or waves
- Stronger and more UV resistant than standard foam fishing floats
- Also serves as a very effective fender for boats with little freeboard
- 1/2" diameter eye
- Dia: 6" x L: 15"
- Max circumference: 18.9"

POL S-1-BLUE
*Not recommended for boats over 20'

Polyform Water Ski Buoys



- Made from PVC and feature a rope hold
- Meets American Water-ski Association specifications
- Dia: 8" x L: 8.5"
- 3/8" eye dia
- Max circumference: 25.1"



POL WS-1-GREEN
POL WS-1-ORANGE
POL WS-1-RED
POL WS-1-YELLOW

Polyform Accessories





POL 10	Inflation adaptor
POL PLUG	Spare plug for valve
POL 30	Hand pump
POL 50-1-1/4	Galvanized shackle 1-1/4", fits A-2, A-3, A-4
POL 52-1"	Galvanized shackle 1", fits A-1, LD-2, LD-3 & F-Series
POL 42 **	Blue marking ink, quart

** While Stock Lasts

Polyform A-Series Buoys

The only one-piece reinforced rope hold buoy on the market today. Widely used in commercial fishing, offshore oil and commercial marine as well as recreational marine.

Red	White	Saturn Yellow
POL A-0-RED	POL A-0-WHITE	POL A-0-SAT-YELL
POL A-1-RED	POL A-1-WHITE	POL A-1-SAT-YELL
POL A-2-RED	POL A-2-WHITE	POL A-2-SAT-YELL
POL A-3-RED	POL A-3-WHITE	POL A-3-SAT-YELL
POL A-4-RED	POL A-4-WHITE	POL A-4-SAT-YELL
POL A-5-RED	POL A-5-WHITE	-
POL A-6-RED	-	-

	Dia x L	Maximum Inflation Circumference	Boat Size	Eye Dia
A-0	8" x 11.5"	25.1"	Up to 15'	.6"
A-1	11" x 15"	34.5"	15' to 30'	1"
A-2	14.5" x 19.5"	45.5"	30' to 40'	1.125"
A-3	17" x 23"	53.4"	40' to 50'	1.125"
A-4	20.5" x 27"	64.4"	50' to 60'	1.125"
A-5	27" x 36"	84.8"	60' to 70'	1.25"
A-6	34" x 44"	106.8"	70' and up	1.5"

DUAL VALVE SYSTEM on the A-5 through A-7: "AIR IN" for easy inflation. "AIR OUT" for easy deflation and storage.





Airhead HULL HUGR Fenders



Contour Series

Traditional round fenders roll up, leaving boats unprotected and they're bulky to stow. When boats rock, HULL HUGR stays put. This enables you to fold it up to a very compact size, easy to stow, or use it as a cushion. Constructed of UV and puncture resistant marine grade vinyl / polyester tri-laminate. Six blocks of durable closed-cell foam are sealed inside. There are 3 sizes to fit every boat, dock, and slip.

Contour Standard Fenders



- L: 24" x W: 6" x D: 2-1/2"

AIR HH-1C	Blue
AIR HH-1CB	Black
AIR HH-1CW	White

Contour Large Fenders

- L: 30" x W: 6" x D: 4"

AIR HH-30CB	Black
AIR HH-30CW	White

Flat Series



- Stows compactly under a seat or in a side compartment
- Constructed of durable marine grade tri-laminate with a polycarbonate grommet at each end
- Hang them vertically or horizontally
- Great for mounting to docks and posts
- L: 26"x W: 6" x D: 2 1/2"

AIR HH-1W White

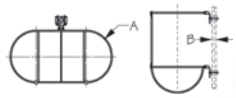
Dock Edge Toon Fenders

The first fender designed especially for pontoon boats. It is designed to attach to various deck styles and contains a dual hooking system to keep the fender from popping up and flying around.

- PVC molded fender that comes in two lengths
- An attachment system that is adjustable so you can hook the fender on the rail and adjust it up or down
- A bottom hook that connects to any of eight receiver attachments that are built into the PVC fender. This hook design will attach to the aluminum trim around the deck of the pontoon boat
- A block of 6" x 6" EVA foam with Velcro attached to the fender for easy adjustment and additional protection
- Aluminum hook "STOPS" that prevent the fender from sliding on the rub rail
- It is a complete system – there is no need to buy extra attachment devices or rope



DOC 53-131-F	6" x 36" Cream
DOC 53-134-F	6" x 36" Beige



Sea-Dog Rail Mount Dual Fender Holder



This fender holder can be used on 7/8" or 1" tubing, adjust to any angle of railing, and can hold any fender style. Folds flat for easy storage when not in use. Constructed of corrosion resistant formed 304 stainless steel. Fenders not included.

- A: 9-1/2" x B: 7/8-1"

SED 327359-1

Polyform True Fit Fender Holders







With its design and 360º swivel connector virtually any spot along the bow or stern rail can become a fender storage area. Because the fender holders and connectors are all available separately single, double, or triple units are easily assembled. The True Fit holders are made of stainless steel.

POL TFR-170	6-3/4"	Holder
POL TFR-230	9"	Holder
POL TFR-280	12"	Holder
POL TFR-370	14"	Holder
POL TFR-402	Swivel connector, 7/8"-1" (Holder to rail)	
POL TFR-404	Swivel connector, 1-1/4" railing (Holder to rail)	
POL TFR-403	Parallel connector, 2/pkg, (Holder to holder)	

Polyform True Fit Fender Holders Kits

- 360º swivel connectors allow any spot on the bow or stern rail to become a fender storage area
- Kit comes with (2) baskets, (3) TFR402 Swivel Connectors and (1) pair of TFR403 Parallel Connectors
- Made of stainless steel
- Easy to add on additional holders



POL TFR-170-2	6-3/4"
POL TFR-230-2	9"
POL TFR-280-2	12"

Windline Stainless Steel Fender Holders

- Constructed of solid stainless steel rod
- Made to hold two fenders
- Easily adjusted to various mounting positions
- Folds away when not in use
- Units fit standard 7/8" or 1" O.D. rails



WIN FND-1	Up to 7"
WIN FND-2	7" to 9"
WIN FND-3	9" to 11"

Dock Edge Reversible Fender Covers



- Third party tested for durability, wicking abilities, UV resistance, and colour fastness
- Fully reversible black/blue cover with durable double cordlock fastener and heavy elastic drawstring
- Antibacterial, dry wick fabric

DOC 96-5669-F	6.5" x 23"
DOC 96-5869-F	8.5" x 27"
DOC 96-5069-F	10" x 30"
DOC 96-5269-F	12" x 34"

Polyform Elite Fender Covers



- Designed to cover the entire fender protecting the ends where most UV breakdown occurs
- Made of heavy duty black polyester which resists sunlight, washing, friction and sea water

Heavy duty elastic bands are sewn inside the hem

Part #	Polyform Fender
POL EFC-A1-BLACK	A1
POL EFC-A2-BLACK	A2
POL EFC-A3-BLACK	A3
POL EFC-1-BLACK	HTM-1, G-4, F-1
POL EFC-2-BLACK	HTM-2, G-5, F-2
POL EFC-2-BLUE	
POL EFC-02-BLACK	F-02
POL EFC-3-BLACK	HTM-3, G-6
POL EFC-3-BLUE	
POL EFC-03-BLACK	F-3
POL EFC-03-BLUE	
POL EFC-4-BLACK	HTM-4
POL EFC-4-BLUE	
POL EFC-04-BLACK	F-4
POL EFC-04-BLUE	
POL EFC-5-BLACK	F-5
POL EFC-5-BLUE	
POL EFC-7-BLACK	F-7



Polyform Fender Fit Series Fender Covers



- Fully protects fenders from damaging UV rays
- Helps to eliminate fender "squeak"
- Minimize hull damage from scuffs and rub marks
- Durable - made from long lasting acrylic yarn

POL FF-F-1/G4-BLACK	F-1 & G-4, Black
POL FF-F-1/G4-NAVY	F-1 & G-4, Navy
POL FF-F-3/G-5-BLACK	F-3 & G-5, Black
POL FF-F-3/G-5-NAVY	F-3 & G-5, Navy
POL FF-HTM-2-NAVY	HTM-2, Navy
POL FF-HTM-4-BLACK	HTM-4, Black
POL FF-HTM-4-NAVY	HTM-4, Navy

CMP Fender Lines



- 100% high tenacity twisted twill nylon
- UV-resistant material will not rot or mildew
- Professional hand spliced 5" eye
- Double sealed heat shrink covered end
- Comes with a reusable strap
- 3/8" x 6'
- Sold in pairs

CMP CFL3806BK	Black
CMP CFL3806NY	Navy
CMP CFL3806WG	White/Gold
CMP CFL3806WH	White

Sea-Dog Fender Lines

- Double braided fender line
- 100% premium double braided nylon
- Professional double braided nylon splice
- Yacht whipped at bitter end and splice point
- 1/4" lines have a 2" eye, 3/8" lines have a 3" eye
- Sold in pairs

SED FL-1/4X6-BK	1/4" x 6'	Black
SED FL-1/4X6-BL	1/4" x 6'	Blue
SED FL-1/4X6-GW	1/4" x 6'	Gold/White
SED FL-1/4X6-GY	1/4" x 6'	Grey
SED FL-1/4X6-NV	1/4" x 6'	Navy
SED FL-1/4X6-RD	1/4" x 6'	Red
SED FL-1/4X6-WH	1/4" x 6'	White
SED FL-3/8X6-BK	3/8" x 6'	Black
SED FL-3/8X6-BL	3/8" x 6'	Blue
SED FL-3/8X6-GW	3/8" x 6'	Gold/White
SED FL-3/8X6-GY	3/8" x 6'	Grey
SED FL-3/8X6-NV	3/8" x 6'	Navy
SED FL-3/8X6-WH	3/8" x 6'	White



Sea-Dog Fender Lines



- 100% premium twisted three-strand nylon
- Professionally spliced with five tucks
- 1/4" lines have a 2" eye, 3/8" lines have a 3" eye
- Sold in pairs

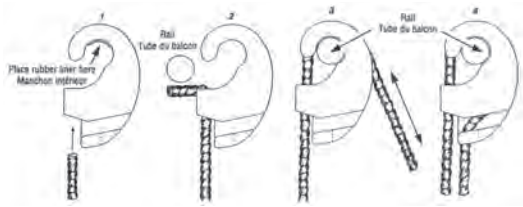
SED FL-1/4X6-WH-TWST	1/4" x 6'
SED FL-3/8X8-WH-TWST	3/8" x 8'

Dock Edge MFP Fender Lines

- Strong and float along the surface of the water
- Can be used for twin eye or centre hole fenders
- Are easily adjustable and will remain soft and pliable
- 2/pkg

DOC 91-566-F	3/8" x 5'	Black
DOC 91-569-F	3/8" x 5'	Navy
DOC 91-561-F	3/8" x 5'	White
DOC 91-562-F	3/8" x 5'	Royal Blue
DOC 91-576-F	3/8" x 8'	Black
DOC 91-571-F	3/8" x 8'	Royal Blue
DOC 91-571-F	3/8" x 8'	White
DOC 91-572-F	3/8" x 8'	Royal Blue





Transat Fender Hanger



Solid one piece plastic construction. For rope sizes to up to 1/2" and rails up to 1".

- Finger tip adjusting
- No moving parts - nothing to break
- Durable - high impact UV protected
- Secure - will not slide or scratch
- Flexible - 1/4" to 1/2" rope of any material
- Value - no more lost fenders
- Versatile - Use as a tarp/load tiedown

TSM FH01

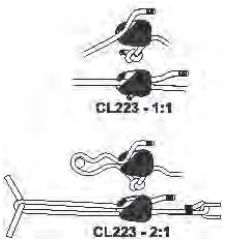
Sea-Dog Nylon Fender Mate



- Brackets made of white reinforced nylon
- Clamps securely onto both 7/8" and 1" round tubing and 3/16" and 1/4" life line cable
- Double locking action, locks clamp onto rail or wire and still allows full adjustment of the height of the fender
- When the proper height is reached, the final locking action clamps the rope quickly and securely

SED 327200-1





Clamcleat Fender Hangers

- Ideal for hanging and adjusting fenders
- Nylon construction

CLM CL223/R	Small, Black, 1/8"-1/4"
CLM CL234/R	Large, Black, 1/4"-1/2"
CLM CL234W/R	Large, White, 1/4"-1/2"

Davis Fender Tender II



- Clip your fenders to rails, lifelines, side wing windows or cleats
- Simplify the handling and relocation of boat fenders
- Easy to adjust with no more knots
- Made of sun-resistant white plastic

DIN 393 2/pkg

Taylor Pontoon Rail Hanger



- Finally, a fender adjuster designed specifically for the 1" square tube rails of Pontoon boats
- The mounting structure clamps securely to square tubing yet can be repositioned quickly and easily
- Height adjustment for lines up to 5/8"
- 36 piece countertop merchandiser

TAY 11391

Perko Snap Type Fender Hook



- Chrome plated zinc
- For rope up to 1/4"
- Plate size 1-9/16" x 1-3/8"

PER 1309-DP-CHR 2/pkg

Perko Fender Lock



- Chrome plated zinc
- Eye is permanently attached to fender for quick and easy installation
- Flange diameter: 1-1/2"
- I.D. of eye 3/8"

PER 1299-DP-CHR 2/pkg
Parts:
PER 1299-DP-99A Spare eye, 2/pkg

Scotty Fender Holder



Quickly and easily remove or reposition your boats fenders
Fits into all Scotty post rod holder mounts

- Rope up to 7/8"

SCO 327 2/pkg

Sea-Dog Gunwale Fender Hook

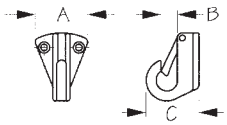




- This fender hook can be used for quick and easy placement of fenders
- Designed to be installed on gunwale for use with up to 3/8" line
- Spring loaded hook keeps line captive against surface
- Corrosion resistant investment cast 316 stainless with rubber gasket
- Installs with (2) #8 FH fasteners (not included)

SED 672560-1

Sea-Dog Fender Hooks





- Chrome plated cast brass or stainless steel
- Spring closure hook for quick fender attachment
- Fasteners: #8 FH

Part #	A	B	C	Material
SED 672410	1-5/16"	5/16"	1"	S/S
SED 672510-1	1-5/16"	5/16"	1"	Chromed
SED 672520-1	1-1/4"	7/16"	1-5/16"	Chromed

Sea-Dog Rail Mount Fender Holder



- Injection molded nylon and stainless steel
- Clam cleat allows for easy attachment of fenders using up to 1/4" line
- Attaches to 7/8" - 1" tubing

SED 327110-1

Taylor Fender Lock



- Stainless steel low profile fender lock

TAY 1010 Stainless
Parts:
TAY 1009 Locking peg



Attwood Dock Fender

- Lightweight polymeric material is soft to the touch and easy on hulls
- Resistant to UV, chalking, splitting, and crushing
- One piece construction
- Four 5/16" mounting holes
- Guaranteed for life
- 45" x 6" x 4"

ATT 93537-1





Dock Edge Slant "P" Bumpers

- Constructed of marine grade flexible PVC
- Unaffected by oil, gas or salt water
- UV and fungus inhibitors prevent fading, yellowing, deterioration from sunlight and unsightly blotching

DOC 1106-F 3 x 8', white
DOC 1117-F 3 x 8', black



Dock Edge Full Face Bumper

Constructed of marine grade PVC and are unaffected by oil, gas or saltwater, these units are ideal for larger applications, this profile provides extra strength and security against damage to boats or property. Double internal channels with cross girder adds additional protection from impacts and provides a large contact area.

DOC 1104-F 4-1/2" x 8', white



Dock Edge Commercial Grade "P" Profile Dock Bumper

- Very strong Profile is reinforced by internal support
- Constructed of marine grade flexible PVC
- Unaffected by oil, gas or salt water
- UV and Fungus Inhibitors prevent fading, yellowing, deterioration from sunlight and unsightly blotching

DOC 1200-F 3" x 8' white





Dock Edge Heavy Slant "P" Bumpers

- Very strong profile is reinforced by two internal supports
- Constructed of marine grade flexible PVC
- Unaffected by oil, gas or salt water
- UV and fungus inhibitors prevent fading, yellowing, deterioration from sunlight and unsightly blotching

DOC 1210-F 3-1/8" x 8' straight bumper, white
DOC 1054-F Corner bumper, white



Dock Edge Dock Guard Bumpers

- This roto-molded bumper is fabricated from soft vinyl with UV inhibitors and fungicides
- Each piece has angled ends to deflect craft and molded-in ribs for additional strength
- The contours of each piece protects above as well as the dock face, providing excellent gunnel protection
- Mounts easily in minutes and is suitable for all applications

DOC 73-104-F 3-3/4" x 10" corner bumper, black
DOC 73-107-F 3-3/4" x 17" straight bumper, black

Dock Edge Corner Bumper



- Air-filled bumper is constructed from nylon reinforced vinyl
- Features a built-in air valve for inflation or deflation if necessary
- Comes with stainless mounting screws
- 9" x 9" x 3-5/8"

DOC 1057-1-F White



Dock Edge Protect

- Heavy duty bumpers are manufactured from PVC with UV inhibitors and fungicides
- Excellent shock absorption qualities and will not mark or mar the hull of your boat
- The 1059-F can be folded to create a corner piece

DOC 1058-F 2-1/2" x 12", straight
DOC 1059-F 2-1/2" x 8", corner



Dock Edge DockSide Dock Bumpers

- Air filled heavy-wall molded PVC & integral inflation valve
- Angled ends to deflect craft
- Use straight bumpers in pairs to form inside corners
- Excellent gunnel protection

DOC 1060-W-F	6-5/8" x 15-1/2" straight
DOC 1062-W-F	8" x 23" straight
DOC 1064-W-F	6-1/2" x 12" x 12" corner



Dock Edge DocKushion

No need for fenders any more! This bumper design incorporates a soft expanded foam core surrounded by U.V. stabilized integral polyurethane skin foam. This creates the softest but most durable bumper you can treat your boat to. A molded in backer allows strong secure mounting. Unique male and female sockets at the ends make joining the pieces a snap for a seamless look. Connect DocKushion lengths end-to-end for long runs.

- Dimensions: H: 3-3/4" x D: 2"

DOC 1150-F	48" straight
DOC 1151-F	9" corner
DOC 1152-F	2" end caps, 2/pkg

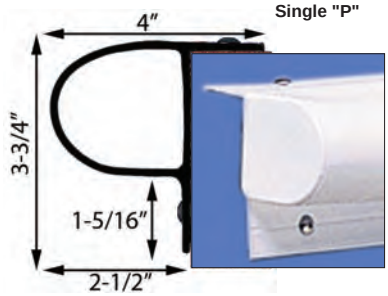
Dock Edge Air Cushion Premium Bumpers

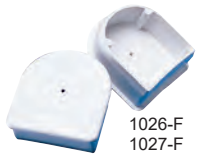
Constructed of marine grade flexible PVC they will not chip or crack and are unaffected by oil, gas or saltwater. Air trapped inside these profile cushions impact just like a pressurized fender. Easily installed on any horizontal or vertical surface. Large "P" section with large air volume provides excellent protection. Use large corners, end plugs and connectors.

- White
- 8' length's

DOC 1001-F	Single 'P'
DOC 1002-F	Double 'D'
DOC 1004-F	Single 'D'

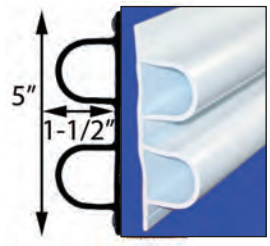
Single "P"

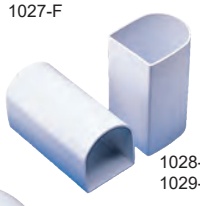




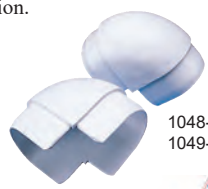
1026-F
1027-F

Double "D"



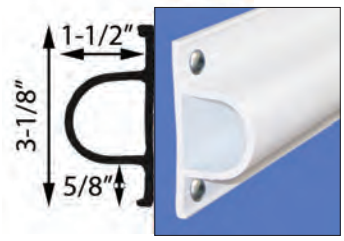


1028-F
1029-F



1048-F
1049-F

Single "D"





1006-F

Air Cushion Connectors

Connect the above Air Cushion Profiles with DOCK EDGE + connectors, corners and end plugs for the Air Cushion System.

NOTE: Using a clear PVC solvent on all connectors, plugs and corners, will seal the profile and create an internal air cushion for added impact protection.

DOC 1026-F	Large end plug, single 'P', 2/pkg
DOC 1028-F	Large connector, single 'P', 2/pkg
DOC 1048-F	Large corner, single 'P', 2/pkg
DOC 1027-F	Small end plug, single & double 'D', 4/pkg
DOC 1029-F	Small connector, single & double 'D', 4/pkg
DOC 1049-F	Small corner, single & double 'D', 4/pkg

Stainless steel mounting screws with square head driver.

DOC 1006-F	100/pkg



Dock Buddy - Dock

- Heavy duty, grey PVC construction
- 4 heavily reinforced stainless D-rings
- Heavy duty smooth strake along entire dockside
- Includes carry bag, foot pump & repair kit
- One year limited warranty

DBP DB911 9' x 11"

Accessories:

DBP DBC911 Cover



RB4511

Dock Buddy - Rafting

- Heavy duty, grey PVC construction
- 2 heavily reinforced stainless D-rings
- Includes carry bag, foot pump & repair kit
- One year limited warranty

DBP RB4511 4.5' x 11"
DBP RB911 9' x 11"
DBP RB915 9' x 15"

Dock Edge Inflatable Dock Wheels



- Smooth rolling wheels offer substantial dock cushioning and feature molded-in valves to adjust the level of firmness
- Heavy-duty hot dipped galvanized hardware mounts securely to the corner of the dock
- Integrally molded ribs both top and bottom

DOC 95-078-F 9"
DOC 95-072-F 12"

Dock Edge Dock Wheels



- 700 lb capacity
- Roto-molded from polyethylene and UV stabilized
- Rolls easily over virtually any terrain
- Easily mounted on a 1-1/2" OD axle
- Sold by each

DOC 90-021-F Dia. 18" x 6" tread
DOC 90-024-F Dia. 24" x 8" tread



Dock Edge Mooring Whips

Fibreglass mooring whips are exceptionally strong, attractive, and do not obstruct your view. Each whip mounts with a cast aluminium, powder coated base with built-in cleat (included). These whips act as a spring to maintain your boat at a safe, convenient distance from the dock. Complete with double braided nylon whip lines, spring lines, and stainless steel mounting hardware. Some mooring areas may be too rough for any type of tie-up system. Weight is more critical than boat length when selecting the correct size of the whip.

DOC 3200-F 8' for boats up to 18' and/or 2500 lbs, pair
DOC 3400-F 12' for boats up to 23' and/or 5000 lbs, pair
DOC 3600-F 14' for boats up to 28' and/or 10,000 lbs, pair
DOC 3800-F 16' for boats up to 33' and/or 20,000 lbs, pair

Parts:

DOC 3000-F Spare mooring whip base

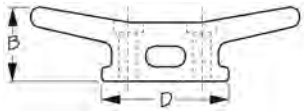


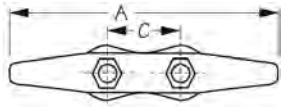


Dock Edge Mooring Arms

- Retain your watercraft a safe and convenient distance from the dock face applying vector based forces to the bow and stern of the watercraft allowing it to freely follow wave and water action
- Arms are manufactured from cross-wound fiberglass and have polyethylene tie-retainers and stainless steel hardware
- Hot-dipped galvanized cleats and mooring lines are included

DOC 3034-F 4' arm, boats to 1500 lbs, each
DOC 3036-F 6' arm, boats to 5000 lbs, each



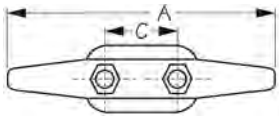


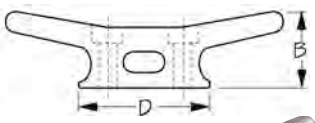
Dominion Chain Open Base Hex Head Cleats



- Galvanized iron

Part #	A	B	C	D	Fastener
DOM 208	8"	2-1/8"	1-11/16"	3-1/4"	5/16" HH
DOM 210	10"	2-1/2"	2-3/8"	4-1/16"	3/8" HH
DOM 212	12"	2-7/8"	3-3/8"	5-1/2"	3/8" HH
DOM 214	14"	3-1/2"	4-1/4"	6-1/8"	1/2" HH



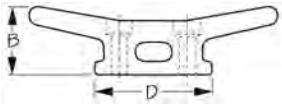


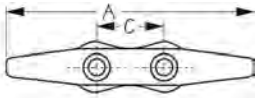
Dominion Chain Hex Head Dock Cleats



- Galvanized iron

Part #	A	B	C	D	Fastener
DOM 808	8"	2-3/4"	2"	4"	1/2" HH
DOM 810	10"	3-1/2"	2-1/2"	4-13/16"	1/2" HH
DOM 812	12"	3-3/4"	3-7/16"	7"	5/8" HH
DOM 815	15"	4-1/2"	3-1/2"	7"	3/4" HH
DOM 818	18"	5-1/8"	3-7/8"	7-1/2"	3/4" HH





Sea-Dog Open Base Flat Head Cleats



- Galvanized iron

Part #	A	B	C	D	Fastener
SED 040103	3.5"	1"	13/16"	1-5/8"	#8 FH
SED 040104	4"	1-1/8"	7/8"	1-7/8"	#10 FH
SED 040105	5"	1-5/16"	1-1/16"	2-3/16"	#12 FH
SED 040106	6"	1-3/8"	1-1/4"	2-3/16"	1/4" Bolt
SED 040106-1	6"	1-3/8"	1-1/4"	2-3/16"	1/4" Bolt
SED 040108	8"	2-1/8"	1-11/16"	3-1/4"	5/16" Bolt
SED 040108-1	8"	2-1/8"	1-11/16"	3-1/4"	5/16" Bolt
SED 040110	10"	2-1/2"	2-3/8"	4-1/16"	3/8" Bolt
SED 040112	12"	2-7/8"	3-3/8"	5-1/2"	3/8" Bolt
SED 040114	14"	3-1/2"	4-1/4"	6-1/8"	1/2" Bolt

► *Also See* Deck Cleats pg 04-012 to 014

Dock Edge Classic Dock Cleats



Made from marine grade aluminum and powder coated white.

- Use hex head bolts

DOC 2504W-F 4-1/2" x 2"
DOC 2508W-F 8" x 4"

Dock Edge Flip Up Classic Dock Cleats



- Fold down, low profile cleat that flips up for easy use
- All surfaces are smooth and rounded
- Made from marine grade aluminum with optional powder coated finish
- Use 3/8" carriage bolts

DOC 2606P-F Aluminum finish, 6" x 3-3/4"
DOC 2606W-F Powder finish, 6" x 3-3/4", White
DOC 2608W-F Powder finish, 8" x 3-3/4", White
DOC 2606B-F Powder finish, 6" x 3-3/4", Black
DOC 2608B-F Powder finish, 8" x 3-3/4", Black

Dock Edge Flip Up Dock Cleats



- 3-1/2" x 2-1/4" cleat
- Fold down, low profile cleat that flips up for easy use
- All surfaces are smooth and rounded
- Made from marine grade aluminum with optional powder coated white
- Use 3/8" carriage bolts

DOC 2603P-F Aluminum finish
DOC 2603W-F Powder coat finish

Dock Edge Premium Flip Up Dock Cleat



- Fold down, low profile cleat that flips up for easy use
- Double pivot design allows for easier rope attachment and added strength
- Cast from solid marine grade Almag 35 aluminum and powder coated white
- Size: 7.5" x 7" x 0.75"
- Uses 2 x 3/8" carriage bolts

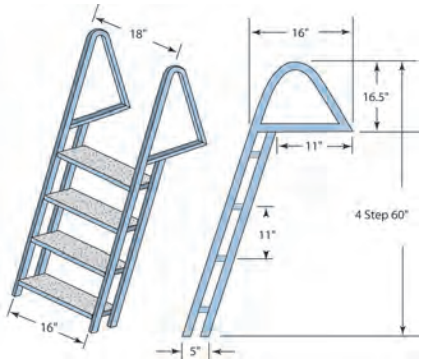
DOC 2616-WF White

Dock Edge Roto-Molded Dock Ladder



- Roto-molded ladder swings up and out of the way, locking in place when not in use
- Will not corrode with exposure and will not fade or crack
- Molded-in UV inhibitors and fungicides
- 4 Steps, polyethylene, stainless steel assembly hardware
- H: 67-1/2" x W: 30" x D: 20"

DOC 2064-F 4-step



Tie Down Engineering Dock Ladder

- Galvanized steel dock ladder

TIE 28274 4-step

Accessories:

TIE 27271 Speed release

► *Also See* Deck Ladders pg 04-030 to 032

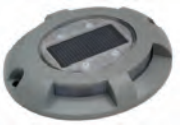
Dock Edge LED Solar DockLites



- Automatic on-at-dusk
- 6 lumen output
- 6 bright white LEDs
- Fresh water rated (IP65)
- 10 hour run time
- Solar recharged batteries
- 4-3/8" x 4" x 3/4"

DOC 96-262-F Packaged, pair

Dock Edge LED Solar Panoramic Dock Lite



- Automatic on-at-dusk
- 5 lumen output
- 4 bright white LEDs
- Salt water rated (IP65)
- 8 hour run time
- Replaceable batteries, (1 x AAA NiMH 1.2V)
- L: 5" x W: 4-1/2" x H: 3/4"

DOC 96-286-F

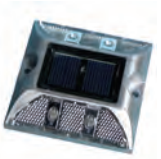
Dock Edge LED Solar DockLite



- Automatic on-at-dusk
- 6 lumen output
- 6 bright white LEDs
- Salt water rated (IP65)
- 12 hour run time
- Extended duty solar charged batteries
- L: 4.3" x W: 4.3" x H: 0.8"

DOC 96-255-F Plastic housing

Dock Edge LED Solar HD Aluminum DockLite



- Automatic on-at-dusk
- 5 lumen output
- 4 bright white LEDs
- Salt water rated (IP65)
- 10 hour run time
- Matte finish aluminum construction
- Solar recharged batteries
- 4-1/4" x 4-1/4" x 1"

DOC 96-263-F

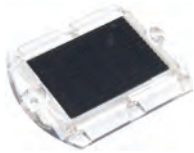
Dock Edge LED Solar Dock & Deck Light Ultra



- Runs for 20 hours on a full charge
- Installs easily in minutes
- Made from polycarbonate
- Automatic on-at-dusk
- 4.53" x 4.13" x 0.79"
- 2V, 200mAh solar panel
- Ni-MH 1200mAh battery
- IP 68 waterproof rating
- 12 LEDs with 8 lumen output
- 2 x 1/4" PH fasteners

DOC 96-287-F

Dock Edge LED Solar Dock & Deck Light Ultra



- Runs for 20 hours on a full charge
- Installs easily in minutes
- Made from polycarbonate
- Automatic on-at-dusk
- 4.49" x 3.54" x 0.43"
- 5V, 60mAh solar panel
- LiFePO4 (Lithium Iron Phosphate) 3.2V 500mah battery
- IP 68 waterproof rating
- 6 LEDs
- 8 lumen output
- 2 x #10 PH fasteners

DOC 96-310-F

Dock Edge LED Solar DockLite



- Flush mount accent light
- Automatic on-at-dusk
- 6 lumen output
- 1 bright white LED
- Salt water rated (IP65)
- 12 hour run time
- 3.5" polished cast aluminum body
- Requires a 1" x 2-1/4" install hole
- Low profile 5/8"
- Replaceable batteries (1 x AAA NiCD 1.2V)

DOC 96-274-F

Dock Edge LED Solar Motion Sensor Light



- Staineless steel construction
- Post and surface mountable
- 40 lumen output
- 2 bright white LED (2 colour)
- Fresh water rated (IP65)
- 10 hour run time
- Illuminates for 15 seconds when motion detected
- 3 meters and 90° detection angle vertical and horizontal
- Blue LED illuminated in standby
- Replaceable batteries (1 x LiFePO4 3.2V)
- 16.5 x 7.5 x 5 cm

DOC 96-280-F

Dock Edge LED Solar Piling Lite



- 40 lumen output
- 4 bright white LEDs
- Salt water rated (IP65)
- 10 hour run time
- 360° illumination
- Installs easily with no wires
- Rugged broad-based, white ABS pillar
- Fits piling diameters 7" and up
- Replaceable batteries, (2 x AA NiMH 1.2V)
- 9-3/4" x 7-1/4" x 7-1/4"

DOC 96-264-F

Dock Edge LED Solar Light & Cleat



- 40 lumen output
- 4 bright white LEDs
- Salt water rated (IP65)
- 12 hour run time
- Mounted on top of a steel base, housed inside a Colonial style vinyl pillar
- Easy to install and NO WIRES
- Each kit includes, pillar, stainless steel cleat, mounting base, solar light and rechargeable batteries
- Replaceable batteries, (2 x AA NiMH 1.2V)
- H: 12" x W: 4"

DOC 96-250-F

Dock Edge LED Solar PostLite



- Change colours with a flip of a switch
- 10 lumen output
- 6 installed LED lighting colours to choose from
- Fresh water rated (IP65)
- 12 hour run time
- 360° lenticular light diffusing lens and domed reflector maximize light output
- Universal fittings or 1-5/8", 1-7/8", 2-3/8", brock post and 3-1/4" ID posts, universal flat surfaces
- Replaceable batteries, (1 x AAA NiCD 1.2V)
- Light only; Dia: 3-7/8" x H: 4-1/4"

DOC 96-258-F

Dock Edge LED Solar Piling CapLite



- Automatic On-At-Dusk
- 10 lumen output
- 6 installed LED lighting colours to choose from
- Salt water rated (IP65)
- 12 hour run time
- Mounts easily to conventional 4" x 4" wooden posts, flat or conical mount
- 360° illumination
- Weatherproof, durable UV resistant ABS
- Wildlife deterrent spike
- Replaceable batteries, (1 x AAA NiCD 1.2V)

DOC 96-268-F

ROCNA ANCHORS // ROCK SOLID



Rocna Original Anchors

The best multi-purpose anchor that sets in all ocean floors for vessels of all sizes, from small runabouts to superyachts

- Instant Set: The roll-bar ensures that it always lands on the ideal angle for penetration, plus reinforces the blade for massive strength
- Setting skids elevate the heel and correctly direct the tip, for reliable setting in soft seabeds
- Self-launching: The shank is high tensile steel, and designed so the anchor self-launches
- Rock solid holding power: Of all anchor types, a concave blade gives the greatest resistance, and through clever design Rocna provides the largest blade area possible; the result - massive holding power
- Resistant to wind and tide shifts: The sharp chisel tip combines with a very high weight on tip (average of 33%), which ensures an instant reliable set with every use.
- No lead in the tip and no dragging is also environmentally friendly

Dedicated attachment points for:
- Buoyed retrieval line
- Tandem anchor
- Securing to the bow

Galvanized		Stainless Steel	
RCA 4KG-GALV	4kg	**RCA 4KG-S/S ***	4kg
RCA 6KG-GALV	6kg	**RCA 6KG-S/S ***	6kg
RCA 10KG-GALV	10kg	**RCA 10KG-S/S ***	10kg
RCA 15KG-GALV	15kg	**RCA 15KG-S/S ***	15kg
RCA 20KG-GALV	20kg	**RCA 20KG-S/S ***	20kg
RCA 25KG-GALV	25kg	**RCA 25KG-S/S ***	25kg
RCA 33KG-GALV	33kg	**RCA 33KG-S/S ***	33kg
RCA 40KG-GALV	40kg	**RCA 40KG-S/S ***	40kg

* Special Order - may have stock

► Also See Kingston Anchor Rollers pg 14-038 to 039

VULCAN



Vulcan Anchors

The Vulcan is carefully designed to offer the greatest possible compatibility across a wide range of vessel bow configurations, particularly powerboats with a bow pulpit. The Vulcan capitalizes on finely tuned design elements and proven performance advantages for an extremely quick and reliable set across a range of seabeds combined with rock solid holding power.

- Features a unique combination of shank and fluke geometry - including an innovative roll-palm at the rear of the fluke - which self-rights the anchor on the seabed without the use of a roll-bar. This is assisted by the V-bulb which extends fluke ballast downward to gain maximum leverage and efficiency
- The omission of a roll-bar along with a carefully designed shank profile ensures a snug fit on the bows of a widely expanded range of vessels. Platforms, bowsprits, prods, stays, and other protrusions are easily cleared with no hassle or inconvenience
- The Vulcan's shank shape encourages self-launching and self-stowing upon retrieval on the majority of bow rollers, with a liquid smooth action, ensuring ease of use for all operators
- In addition to the use of high tensile steel, shank strength is optimized by a unique I+V profile shank design, granting improved resistance to bending courtesy of a computer optimized I-beam geometry. This visually elegant innovation also improves setting performance, with the lower V edge cutting into the seabed and minimizing resistance to a deep and secure burial

Galvanized		Stainless Steel	
RCA VLC4GS	4kg	**RCA VLC4SS ***	4kg
RCA VLC6GS	6kg	**RCA VLC6SS ***	6kg
RCA VLC9GS	9kg	**RCA VLC9SS ***	9kg
RCA VLC12GS	12kg	**RCA VLC12SS ***	12kg
RCA VLC15GS	15kg	**RCA VLC15SS ***	15kg
RCA VLC20GS	20kg	**RCA VLC20SS ***	20kg
RCA VLC25GS	25kg	**RCA VLC25SS ***	25kg
RCA VLC33GS	33kg	**RCA VLC33SS ***	33kg
RCA VLC40GS *	40kg	* Special Order	
RCA VLC55GS *	55kg		

SIZING GUIDELINE

To choose the correctly sized Rocna, match your vessel's length with the most appropriate displacement range, also bearing in mind conditions of intended use (if in doubt, give preference to the larger anchor model).

For multi-hulls: use the chart as instructed, then select the model one size larger.

Our sizing is conservative.

Unlike other manufacturers, our sizing recommendations are intended to provide an anchor adequate for use in most all conditions. We base our calculations on 50 knots wind, associated surge, and poor holding bottoms.

This chart is a guidline only, so if you require further information, please contact your local distributor or visit rocna.com.

Vessel Length	Vulcan or Rocna Models									
ROCNA Model	4	6	9 Vulcan Only	10 Rocna Only	12 Vulcan Only	15	20	25	33	40
4m - 13'	≤4,400 lb									
5m - 16'	≤2,200lb	≤11,000lb								
6m - 20'	≤1,100lb	≤7,7000lb	≤15,400lb							
7m - 23'	≤1,100lb	≤4,400lb	≤13,200lb	≤15,400lb	≤19,800lb					
8m - 26'		≤2,200lb	≤11,000lb	≤13,200lb	≤17,600lb	≤26,400lb				
9m - 30'		≤1,100lb	≤8,800lb	≤11,000lb	≤15,400lb	≤22,000lb	≤35,200lb			
10m - 33'			≤6,600lb	≤8,800lb	≤13,200lb	≤18,700lb	≤30,800lb	≤48,400lb		
11m - 36'			≤4,400lb	≤6,600lb	≤11,000lb	≤15,400lb	≤26,400lb	≤44,000lb		
12m - 39'					≤8,800lb	≤13,200lb	≤22,000lb	≤39,600lb	≤66,000lb	
14m - 46'						≤8,800lb	≤13,200lb	≤28,600lb	≤50,600lb	≤88,000lb
16m - 52'							≤6,600lb	≤19,800lb	≤39,600lb	≤70,400lb
18m - 59'								≤11,000lb	≤30,800lb	≤55,000lb
20m - 66'									≤22,000lb	≤39,600lb
22m - 72'									≤13,200lb	≤26,400lb
24m - 79'										≤15,400lb
Anchor Weight	9lb/4kg	13lb/6kg	20lb/9kg	22lb/10kg	27lb/12kg	33lb/15kg	44lb/20kg	55lb/25kg	73lb/33kg	88lb/40kg
Recommended G40 Chain	1/4"-6mm	1/4"-6mm	1/4"-7mm	1/4"-7mm	5/16"-8mm	5/16"-8mm	5/16"-9mm	3/8"-10mm	3/8"-10mm	7/16"-11mm
Blade Surface Area*	71in²	91in²	113in²	123in²	136in²	160in²	177in²	219in²	263in²	301in²

* Weights and areas may vary slightly

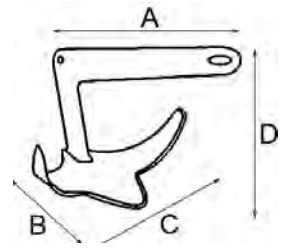
Vessel displacement units: 1 t (metric tonne) = 1,000 kg = 2,205 lb

Transat 'Bruce' Style Anchors

- An excellent quality, highly polished, stainless steel or galvanized steel 'Bruce' style anchor.

Stainless	Galvanized	Weight Kg	A	B	C	D	Recommended for boats to:
TMS Q91002S	-	2	13.5"	5.5"	8.25"	7.5"	20'
TMS Q91005S	**TMS Q91105G**	5	18.5"	9"	11"	12.5"	26'
TMS Q91007S	**TMS Q91107G**	7.5	20"	10"	11.5"	12.5"	30'
TMS Q91010S	**TMS Q91110G**	10	23"	11.5"	12.5"	14.5"	33'
-	**TMS Q91113G**	13	22.5"	11"	15.5"	12.5"	35'
TMS Q91015S	**TMS Q91115G**	15	26"	14.5"	14.5"	17"	38'
TMS Q91020S	**TMS Q91120G**	20	28"	15.5"	16"	19"	44'
TMS Q91030S	**TMS Q91130G**	30	30"	16"	17"	22"	50'
-	**TMS Q91150G**	50	32"	20"	27"	20"	-





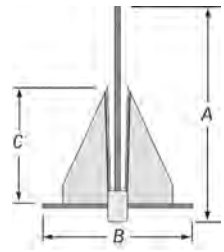
Boat size recommendations are for boats of average windage and proportions in 30 knots of wind, average bottom conditions, and moderate protection from open seas. Remember that the loads in 42 knots of wind are twice as much as in 30 knots.
Use three-strand nylon rope, 6-12 ft of chain and a minimum of 5:1 scope.
Also, a minimum of 6 ft of chain should be used for every 25 ft of water depth.
For storm conditions use an anchor one or two sizes larger.

Danforth Standard Anchors

- Traditional holding power associated with Danforth anchors
- Shank is made of high strength steel
- Steel flukes are strong and wide
- Each anchor has a hot dipped galvanized coating

Part #	Holding Power (lbs)	Weight (lbs)	Boats to	A	B	C
DAN S-300	300	5	17'	19-1/2"	14-3/4"	10-1/2"
DAN S-600	600	9	27'	24"	18-1/4"	12"
DAN S-920	920	14	31'	28-1/4"	21-1/2"	14-1/4"
DAN S-1300	1300	16	36'	31-3/4"	24"	16-1/2"
DAN S-1600	1600	25	40'	35"	26-3/4"	19"
DAN S-2000	2000	43	45'	40-1/4"	31"	22"
DAN S-3000	3000	70	55'	50"	38"	26-1/2"
DAN S-3500	3500	100	60'	54"	41"	28-3/4"





Danforth Anchor Selection

The selection of the proper anchor for your requirements depends strictly on holding power, because holding power is the only true measure of an anchor's ability to hold your boat. Be sure then, before you consider weights, sizes, styles, shapes or materials of construction, that you know what holding power you need and what holding power each anchor offers. All Danforth anchors have holding power ratings on their labels.

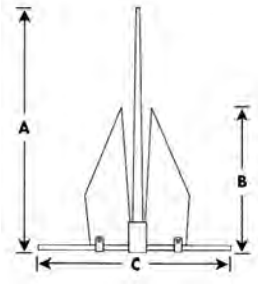
Fortress Anchors

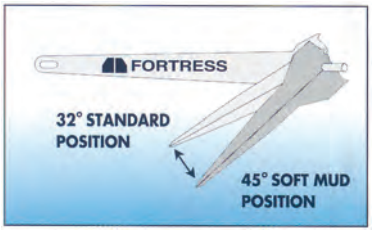


The Fortress is widely regarded as the most effective, most efficient anchor on the market today. Rather than depending upon weight, Fortress's large fluke areas, precision machined shape, and accurate fluke-shank pivot angles allow it to readily penetrate the sea bed and bury itself deeply, to provide unparalleled security at minimum weight. Completely rustproof, the Fortress is made of hardened high tensile strength anodized marine grade aluminum - magnesium alloy which has the strength of steel but at only half the weight. Can be easily disassembled for compact stowage, or for parts replacement.

- Lifetime parts replacement warranty

Part #	Working Load lbs	lbs	A	B	C	Boat Length
FOR FX-7	700	4	24"	14"	19"	16'-27'
FOR FX-11	900	7	27"	16"	22"	28'-32'
FOR FX-16	1250	10	31"	18"	25"	33-38'
FOR FX-23	2000	15	36"	21"	29"	39-45'
FOR FX-37	3000	21	40"	24"	32"	46-51'
FOR FX-55	4000	32	46"	27"	37"	52-58'

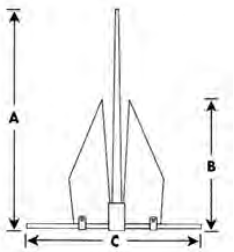




Fortress Guardian Anchors

The Guardian is the utility anchor from Fortress. Guardian represents an excellent value for boaters who do not require the ultimate performance of Fortress, yet want the security of a quality, dependable, lightweight anchor. The Guardian is fully machined - no welds - out of hi-tech aluminum alloy and can be easily disassembled for compact stowage or for parts replacement.

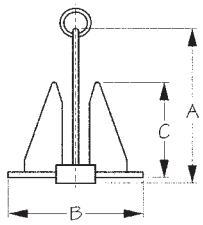
- One year parts replacement warranty





Part #	lbs	A	B	C	Boat Length
FOR G-5	2.5	19"	11"	16"	12-16'
FOR G-7	4	22"	13"	18"	17-22'
FOR G-11	6	25"	15"	20"	23-27'
FOR G-16	7	29"	17"	23"	28-33'

Greenfield Slip-Ring Anchors

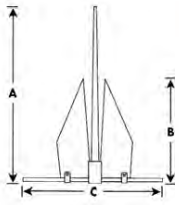




- Made of solid steel
- Self-releasing
- Lightweight, easy to store
- Coated with no-mar resistant plastisol finish protectant

Part #	lbs	Boat Size	Colour	A	B	C
GRN 669-6-B	6	18'	Black	19"	18"	13-1/2"
GRN 669-6-W	6	18'	White	19"	18"	13-1/2"
GRN 669-6-Y	6	18'	Yellow	19"	18"	13-1/2"
GRN 669-11-B	11	22'	Black	23"	19"	17"
GRN 669-11-R	11	22'	Blue	23"	19"	17"
GRN 669-11-W	11	22'	White	23"	19"	17"
GRN 669-11-Y	11	22'	Yellow	23"	19"	17"

Tie Down Super Hooker Anchors





- An economical anchor
- A good choice for less demanding anchoring situations
- Well made, strong, and have a hot-dipped galvanized finish

Part #	lbs	A	B	C	Holding Power
TIE M-4S	4	19-1/2"	10-1/2"	14-3/4"	240 lbs
TIE M-8S	9	24"	12"	18-1/4"	480 lbs
TIE M-13S	14	28-1/4"	14-1/4"	21-1/2"	740 lbs
TIE M-18S	18	31-3/4"	16-1/2"	24"	1050 lbs
TIE M-22S	25	35"	19"	26-3/4"	1300 lbs

Tie Down Hooker Anchor Kits

All kits come with a 3/8" x 100' anchor line, a thimble and two 5/16"shackles. Kits are display packaged.

- Boats 20-24'
- 1 x 10HQ quick set anchor
- 1/4" x 4' galvanized chain

TIE 95090 5 lb anchor



95090

- Boats 17-24'
- 1 x S600 Super Hooker anchor
- 1/4" x 6' galvanized chain

TIE 95095 9 lb anchor

- Boats 25-30'
- 1 x S920 Super Hooker anchor
- 1/4" x 6' galvanized chain

TIE 95100 13 lb anchor



95095 / 95100

Greenfield Mushroom Anchor



- Heavy no-mar plastisol protectant coating
- Black

GRN 515-B 15 lbs, boats to 16'

Greenfield River Anchors



- Designed for river and mud bottom lakes
- Great for pontoon and bass boats
- Heavy no-mar plastisol protectant coating
- Black

GRN 514-B 14 lbs, boats to 16'
GRN 520-B 20 lbs, boats to 22'
GRN 530-B 30 lbs, boats to 24'

Greenfield Navy Anchors



- Classic navy style anchor
- Heavy no-mar plastisol protectant coating
- Black

GRN 910-B 10 lbs, boats to 14'
GRN 915-B 15 lbs, boats to 18'
GRN 920-B 20 lbs, boats to 24'
GRN 928-B 28 lbs, boats to 28'

Greenfield Richter Anchors



This anchor combines the penetration of a grapnel anchor, the easy retrieval of a slip ring anchor and the weight of a river anchor. Designed for use in all weather conditions and bottom conditions.

- Heavy no-mar plastisol protectant coating
- Black

GRN 614-B 14 lbs, boats to 18'
GRN 618-B 18 lbs, boats to 22'
GRN 625-B 25 lbs, boats to 26'

Greenfield Grapple Buddy



- Galvanized steel
- Complete with 50' nylon line
- H: 8-3/4" x W: 8"

GRN GB-G

Galvanized Folding Anchors

- Galvanized cast folding anchors
- Easy to store, these folding anchors make an ideal back up anchor on larger boats and can be used as a primary anchor on smaller boats
- Takes a 1/2" line through the eye



WES .7KG 1.5 lbs, boats to 7'
WES 1.5KG 3 lbs, boats to 10'
WES 2.5KG 5 lbs, boats to 13'
WES 3.2KG 7 lbs, boats to 16'
WES 4.0KG 9 lbs, boats to 18'
WES 6.0KG 13 lbs, boats to 22'

Scotty Anchor Kit



- 50' (15m) premium nylon line
- 1.5 lb (0.6 kg) Folding Anchor
- Watertight buoyant container - doubles as a bailer
- Nylon snap hook, for easy attachment to vessel
- For still water use

SCO 797

Airhead Folding Anchor Kit



- 3-1/3 lb 4-fluke folding anchor will hold in mud, sand, gravel and rock
- Coated anchor to protect finishes and is kept in a durable padded nylon storage case
- 25' long marine-grade rope, with an in-line buoy, is spliced to the anchor and a heavy-duty stainless steel snap hook

AIR A-2

Camco Anchor Rope



- Works for all brands of electric anchor winches in fresh and salt water use
- Professional eye splice, stainless steel thimble, and traditional thread whipping
- Reflective tracer
- Stainless steel anchor shackle included
- Rope: Nylon braid over nylon double braid core
- Break strength: 800 lbs

CAM 69080 3/16" (5mm) x 100'

Camco Anchor Rope



- Eye splice, 316 stainless steel thimble, white thread whipping
- 2 reflective tracers
- 1 m x 15 mm nylon protective sleeve attached

CAM 69081 6mm x 90'

Maxwell Rope/Chain



Spliced sets of Pro Set 3 strand nylon rope and chain.

MAX PRC-1/2"X250' 1/2" x 200' Proset & 1/4" x 50' chain
MAX PRC-1/2"X350' 1/2" x 300' Proset & 1/4" x 50' chain
MAX PRC-5/8"X250' 5/8" x 200' Proset & 5/16" x 50' chain
MAX PRC-5/8"X350' 5/8" x 300' Proset & 5/16" x 50' chain

Titan Premium Anchor Rodes



- High test G43 ISO calibrated hot dip galvanized chain
- 8-plait hand-spliced, 100% high tenacity twisted twill nylon rope with a heat-sealed bitter end
- Pre-installed reinforced PVC depth markers and Type IV Grade A hot dip galvanized anchor shackle included

TIT 8P12150H1415 1/2" x 150' rope & 1/4" x 15' chain
TIT 8P12150H1450 1/2" x 150' rope & 1/4" x 50' chain
TIT 8P12200H1415 1/2" x 200' rope & 1/4" x 15' chain
TIT 8P12200H1450 1/2" x 200' rope & 1/4" x 50' chain
TIT 8P12250H1450 1/2" x 250' rope & 1/4" x 50' chain
TIT 8P58150H5125 5/8" x 150' rope & 5/16" x 25' chain
TIT 8P58150H5150 5/8" x 150' rope & 5/16" x 50' chain
TIT 8P58200H5150 5/8" x 200' rope & 5/16" x 50' chain
TIT 8P58250H5150 5/8" x 250' rope & 5/16" x 50' chain



CMP Global Grade 30 Galvanized Chain



- ISO hot dip galvanized
- Sold by the foot or barrel

! Not for windlass use!

Part #	Size	Length	Working Load	Weight per 100'
CHN CMG33/16	3/16"	Cut	800 lbs	40 lbs
CHN CMG33/16"X250'	3/16"	*250'		
CHN CMG31/4	1/4"	Cut	1,300 lbs	71 lbs
CHN CMG31/4"X141'	1/4"	*141'		
CHN CMG31/4"X400'	1/4"	400'		
CHN CMG31/4"X800'	1/4"	800'		
CHN CMG35/16	5/16"	Cut	1,900 lbs	100 lbs
CHN CMG35/16"X92'	5/16"	*92'		
CHN CMG35/16"X550'	5/16"	550'		
CHN CMG33/8	3/8"	Cut	2,650 lbs	152 lbs
CHN CMG33/8"X63'	3/8"	*63'		
CHN CMG31/2	1/2"	Cut	4,500 lbs	265 lbs
CHN CMG31/2"X36'	1/2"	*36'		

*Plastic Pail

CMP Global Grade 43 Galvanized Chain



- ISO high test, hot galvanized
- High carbon steel
- Sold by the foot or barrel
- Calibrated for windlasses

Part #	Size	Length	Working Load	Weight per 100'
CHN CMG41/4	1/4"	Cut	2,600 lbs	75 lbs
CHN CMG41/4"X400'	1/4"	400'		
CHN CMG41/4"X800'	1/4"	800'		
CHN CMG45/16	5/16"	Cut	3,900 lbs	107 lbs
CHN CMG45/16"X275'	5/16"	275'		
CHN CMG45/16"X300'	5/16"	300'		
CHN CMG45/16"X550'	5/16"	550'		
CHN CMG43/8	3/8"	Cut	5,400 lbs	152 lbs
CHN CMG43/8"X400'	3/8"	400'		
CHN CMG41/2	1/2"	Cut	9,200 lbs	256 lbs
CHN CMG41/2"X200'	1/2"	200'		

Stainless Steel Chain



- High quality 316 stainless steel chain is the ultimate in corrosion resistance
- Sold by the foot

! Not for windlass use!

Part #	Inside Length	Inside Width	Breaking Strength
CHN SS3/16"	24 mm	10.2 mm	3200 lbs

Titan Stainless Steel Chain



Titan AISI 316L stainless steel chain is designed to offer superior corrosion resistance, appearance and strength. Made in Germany, *each link is precisely calibrated to meet current DIN 766 windlass specifications*, and manufactured with an extra treatment to provide exceptionally smooth and clean surfaces.

- Please check manufacturer's specification prior to use.

Part #	Chain Size	Inside Length	Breaking Strength
CHN TITAN-6MM-SS	1/4"	18.5 mm	6,744 lbs
CHN TITAN-8MM-SS	5/16"	24 mm	11,240 lbs
CHN TITAN-10MM-SS	3/8"	28 mm	18,000 lbs

Why Use Titan Stainless Steel Chain?

- Falls into smaller anchor lockers and won't pile up (like galvanized chain) due to low friction
- Works well with Brait rope

Greenfield Coated Chain

- Anchor lead chain fits most anchor/rode combinations
- Over-sized end links for easy shackle attachment
- PVC coated, hot dip galvanized for years of service

! Not for windlass use!



GRN 2115-B	1/4" x 4', Black
GRN 2115-RD	1/4" x 4', Red
GRN 2115-W	1/4" x 4', White
GRN 2115-Y	1/4" x 4', Yellow
GRN 2116-W	5/16" x 5', White

Import Galvanized Chain



- An inexpensive hot galvanized anchor chain
- Packaged on reels or in a wooden box

! Not for windlass use!

CHN 1/4"X100FT	Reel
CHN 1/4"X200FT	Box
CHN 5/16"X70FT	Reel
CHN 5/16"X200FT	Box
CHN 3/8"X200FT	Box

AnchoRight Anchor Chain Markers



- Long lasting chain markers are screwed in place and won't pop out
- Flexible scale intervals
- Sets include chain markers, guide plate, flexible guide plate scales, and fasteners (Phillips screwdriver required)

ANC S0606I	1/4", 6 colours
ANC S0608I	1/4", 8 colours
ANC S0806I	5/16", 6 colours
ANC S0808I	5/16", 8 colours
ANC S0810I	5/16", 10 colours
ANC S1006I	3/8", 6 colours
ANC S1008I	3/8", 8 colours
ANC S1012I	3/8", 12 colours
ANC S1208I	1/2", 8 colours
ANC POS12	POS display with 12 sets



Typical installation on a anchor with an elongated attachment point, which stops possible swivel binding.

Titan Self-Righting Anchor Swivels

Swivels provide self-righting function - if the anchor comes up upside-down, it will flip it over into the correct orientation. Streamlined shape provides smooth retrieval over the bow roller.

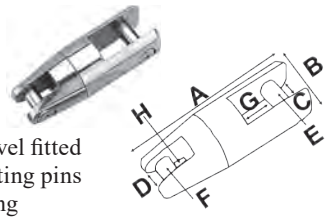
- For use with Vulcan and Rocna
- Manufactured from high strength Duplex Stainless Steel - highly corrosion resistant and much stronger than 316L
- Attaches directly to anchor

Please check manufacturer's specification prior to use.



Part #	Anchor Size	Chain Size	Work Load
TIT TS31SUK01	6 - 15 kg	1/4", 5/16" 7-8mm	3,900 lb
TIT TS31SUK05	25 - 55 kg	5/16", 7/16" 10-11mm	7,200 lb

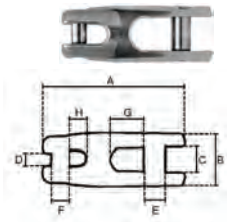
Gloma Anchor Swivels



- 316 stainless steel anchor swivel fitted with double threaded flush fitting pins
- Smooth profile avoids snagging

Part #	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Break Load
GLO 801	92	28	16	10	10	8	20	10	2,560 kg
GLO 802	118	38	21	14	13	12	28	12	7,730 kg
GLO 803	128	50	28	16	15	14	32	14	9,760 kg

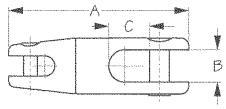
Gloma Fixed Anchor Swivels



- 316 stainless steel
- Fixed anchor connector with double threaded flush fitting pins
- Smooth profile avoids snagging

Part #	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	BL kg
GLO 801-F	73.5	28	16	10	10	8	20	10	2,560
GLO 802-F	95	38	20	14	13	12	28	12	7,730
GLO 803-F	115	50	28	16	15	14	32	14	9,760

► *Also See* Swivels pg 13-026





Sea-Dog Anchor Swivels

- AISI 316 stainless steel

Part #	A	B	C	Chain Sizes
SED 182608-1	3-9/16"	5/8"	13/16"	1/4"-5/16"
SED 182612-1	4-11/16"	13/16"	1-1/16"	5/16"-1/2"
SED 182614	5-1/2"	1-1/8"	1-3/16"	1/2" - 5/8"

Kingston Roller Wheels

Machined from dense Acetal polymer which is both strong and resilient, making it well suited for the marine environment.

- 5-year warranty with original receipt
- Machined from dense acetal polymer
- Low absorption of moisture
- UV resistant and won't yellow, fade, or crack


W1-24


W1-3


W2-24


W25-24


W25-25

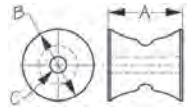

W25-3


W25-35


W3-35

Part #	Wheel Diameter	Wheel Width.	Pin Hole
KIN W1-24	1"	2-3/8"	3/8"
KIN W1-3	1"	2-7/8"	3/8"
KIN W2-24	2"	2-3/8"	3/8"
KIN W25-24	2-3/8"	2-3/8"	3/8"
KIN W25-25	2-3/8"	2-1/2"	3/8"
KIN W25-3	2-3/8"	2-7/8"	3/8"
KIN W25-35	2-3/8"	3-3/8"	3/8"
KIN W3-35	3"	3-3/8"	1/2"

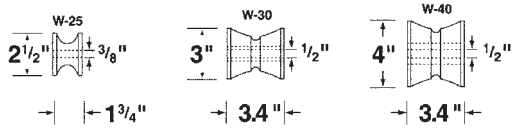
Sea-Dog Replacement Wheels



- Constructed of natural rubber and feature a brass insert for added strength

Part #	A	B	C
SED 328059-1	1-3/4"	2-1/2"	7/16"
SED 328069-1	2-15/16"	2-3/4"	5/8"
SED 328079-1	3-3/8"	3"	5/8"





Windline Marithane Wheels

- Hand-casted elastomer wheels
- Self lubricating bushings



WIN W-25
WIN W-30
WIN W-40

Kingston Anchors bow rollers are designed using 100% US stainless steel and are handcrafted in Kingston, ON Canada.
Bow rollers are available in satin-like "Polished" finish. The roller wheels are milled from Delrin, a strong dense polymer material. Bow rollers and wheels are warranted for 5 years against breakage and 1 year against defects in material and workmanship.

Kingston Anchor Roller



- Bent tabs control the rode, providing protection from chafing
- Suited for QuickSet, Fluke, Danforth, Slip-Ring, and Plow style anchors up to 35 lbs
- Acetal UV-resistant roller wheels
- Uses W2-16 Kingston Anchors roller wheel
- Uses flat bail BAF-8.1/2-1.78
- L: 15-7/16" x W: 1-9/16"
- 3 x 3/8" fasteners

KIN BR-15-P Polished

Kingston Anchor Roller



- Three pin positions secure the anchor when stowed
- Suited for QuickSet and plow style anchors up to 35 Lb (15.88 Kg)
- Uses W25-25 Kingston Anchors roller wheel
- Uses 3" Quick release pin (QRP-3)
- L: 15-1/2" x W: 2-7/8"
- 3 x 3/8" fasteners

KIN BR-16-P Polished

Kingston Anchor Roller



- Extended tabs rest against pivoting fluke anchors,holding the anchor in place with the rounded bail controlling the rode
- Suited for QuickSet, Fluke, Danforth, Lightweight, Slip-Ring, and Plow style anchors up to 35 lbs
- Acetal UV-resistant roller wheels
- CNC cut bow roller wheels won't yellow, fade, or crack
- Uses W25-3 Kingston Anchors roller wheel
- Uses 10" round bail BAR-10-3.4
- L: 19-11/16" x W: 3-1/4"
- 3 x 3/8" fasteners

KIN BR-20-P Polished

Kingston Anchor Roller



- Suited for QuickSet, Fluke, Danforth, Lightweight, Slip-Ring, Plow and Bruce/Claw style anchors between 20 to 50 Lb (9.07 to 22.67 Kg)
- Uses W2-25 Kingston Anchors roller wheel
- Uses 10" Round Bail BAF2-20-3
- L: 19-1/2" x W: 3"
- 3 x 3/8" fasteners

KIN BR-22-P Polished

Kingston Anchor Roller



- Extended tabs rest against pivoting fluke anchors and hold the anchor securely in place with the rounded bail controlling the rode
- Suited for QuickSet, Fluke, Danforth, Lightweight, Slip-Ring, and Plow style anchors up to 50 lbs
- Acetal UV-resistant roller wheels
- CNC cut bow roller wheels won't yellow, fade, or crack
- Uses W25-35 Kingston Anchors roller wheel
- Uses round bail BAF2-20-3.78
- L: 23-7/16" x W: 3-13/16"
- 4 x 3/8" fasteners

KIN BR-24-P Polished

Kingston Rocna Anchor Roller



- Designed for use with plow and Rocna style anchors weighing up to 36kg/80lbs
- Made in Canada from 304L US stainless steel
- Adjustable roller wheel placement
- Adjustable quick release locking pin holds the anchor in place
- 6" bail contains the rode/chain within the bow roller
- Dimensions: L: 27" x W: 3-3/8"

KIN KR-1015-P Polished

Kingston Rocna Anchor Roller



- Designed for use with plow and Rocna style anchors weighing up to 36kg/80lbs
- Made in Canada from 304L US stainless steel
- Adjustable roller wheel placement
- Adjustable quick release locking pin to holds the anchor in place
- 6" bail contains the rode/chain within the bow roller
- Dimensions: L: 31-1/4" x W: 3-3/8"

KIN KR-2025-P Polished

Kingston Vulcan Anchor Roller



- Designed for use with plow and Rocna-Vulcan style anchors weighing up to 36kg/80lbs
- Made in Canada from 304L US stainless steel
- Adjustable roller wheel placement
- Adjustable quick release locking pin to holds the anchor in place
- 6" bail contains the rode/chain within the bow roller
- Weight: 20 lbs
- Dimensions: L: 26" x W: 3-3/8"

KIN KV-915-P Polished

Kingston Vulcan Anchor Roller



- Designed for use with the Vulcan 25 kg anchor
- Quick release locking pin that will hold the anchor securely in place when stowed in the anchor roller
- Rounded bail that controls the rode, keeping it inside the roller
- Weight: 20 lbs
- Dimensions: L: 34" x H: 12" x W: 5"

KIN KV-2025-P * Polished

* Special Order

Kingston Bruce Anchor Roller



- Has three wheels, four pin positions, and is specifically designed to self-launch Bruce and Claw anchors up to 50 lbs
- Acetal UV-resistant roller wheels
- CNC cut bow roller wheels won't yellow, fade, or crack
- Uses 3x W2-24 Kingston Anchors roller wheels
- Uses 3" quick release pin (QRP-3)
- L: 24-11/16" x W: 2-7/8" x D: 8"
- 3 x 3/8" fasteners

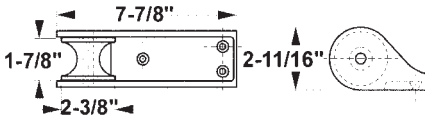
KIN BRUCE-25-P Polished

Kingston Anchor Roller



- Suited for QuickSet, Fluke, Danforth, Lightweight, Slip-Ring, Plow and Bruce/Claw style anchors up to 50 Lb (22.68 Kg)
- Hangs low on the bow to keep the anchor out of sight lines
- Uses W25-35 Kingston Anchors roller wheel
- Round bail welded to bow roller
- L: 23-1/2" x W: 3-3/4" x D: 9-1/8"
- 4 x 3/8" fasteners

KIN DELTA-23-P Polished

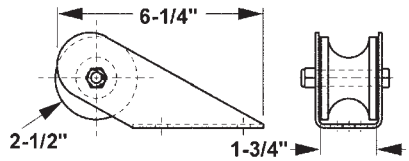


Sea-Dog Bow Roller



- Investment cast stainless steel

SED 328050



Sea-Dog Bow Roller



- 304 stamped stainless steel

SED 328052 Bow roller
Parts:
SED 328059-1 Replacement wheel

Sea-Dog Medium Fairlead Bow Roller



- 304 stamped stainless steel
- Rubber wheel accommodates rope up to 1" in diameter
- Installs with three 3/8" bolts (not included)
- L: 9"

SED 328057

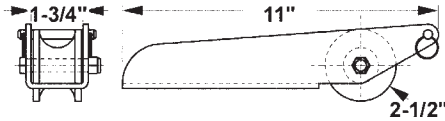
Sea-Dog Large Platform Bow Roller



Designed to handle most fluke style anchors and mount in or under the anchor slot of a platform or bow plank

- 304 stamped stainless steel
- Rubber wheel accommodates rope up to 1-1/2" in diameter
- Installs with six 3/8" bolts (not included)
- L: 5-5/8" x H: 3-7/8"

SED 328076

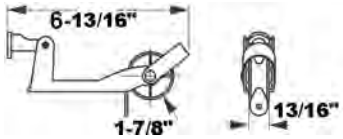


Sea-Dog Bow Roller



- 304 stamped stainless steel

SED 328053 Bow roller
Parts:
SED 328059-1 Replacement wheel

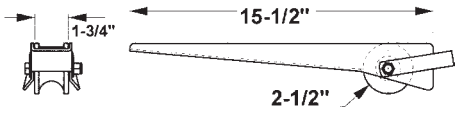


Sea-Dog Bow Roller



- Electro-galvanized steel
- Lift & lock anchor roller
- Use #10 RH fasteners

SED 328040-1

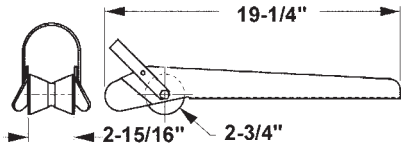


Sea-Dog Sea Hook Bow Roller



- 304 stamped stainless steel
- Fits most welded steel Danforth style anchors

SED 328054 Bow roller
Parts:
SED 328059-1 Replacement wheel



Sea-Dog Medium Anchor Bow Roller



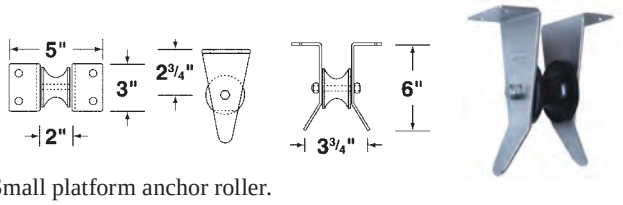
- 304 stamped stainless steel

SED 328064 Bow roller
Parts:
SED 328069-1 Replacement wheel

► *Also See* Replacement Rollers pg 14-037

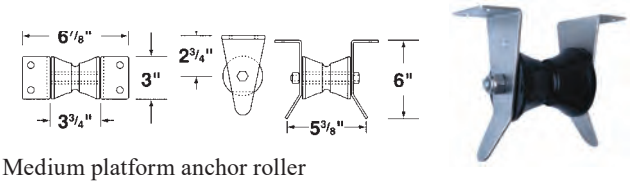
Windline Stainless Steel Anchor Rollers

- Made of grade stainless steel with electro-polished finish
- Roller wheels are hand-casted from Marithane
- Wheel will not wear or chafe chain or rope.



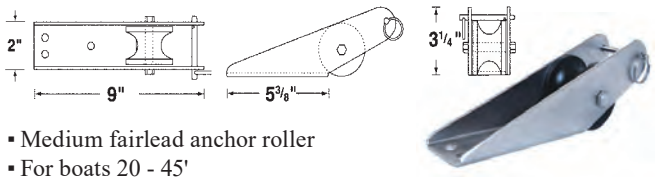
- Small platform anchor roller.
- For boats 18 - 30' with anchor platform or bow planks
- Handles anchors up to 20 lbs. with rope to 1/2" and chain to 3/8"
- Pre-drilled for 3/8" fasteners

WIN AR-4



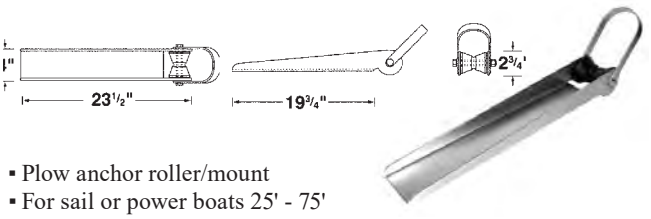
- Medium platform anchor roller
- For boats 28 to 48' with anchor platforms or bow planks
- Handles anchors from 20 to 50 lbs. with rope to 1-1/2" and chain to 1/2"
- Pre-drilled for 3/8" fasteners

WIN AR-5



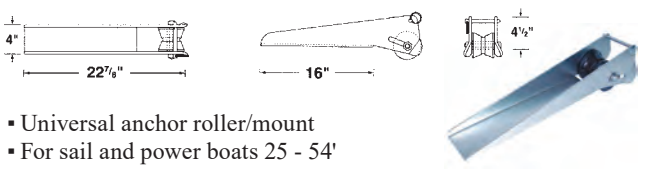
- Medium fairlead anchor roller
- For boats 20 - 45'
- Will handle anchoring gear with rope to 1" and chain to 3/8"
- Pre-drilled for 3/8" fasteners

WIN AR-7



- Plow anchor roller/mount
- For sail or power boats 25' - 75'
- Securely stows plow-type anchors weighing 20 - 60 lbs
- With rope to 1-1/2" and chain to 3/8"
- No mounting holes

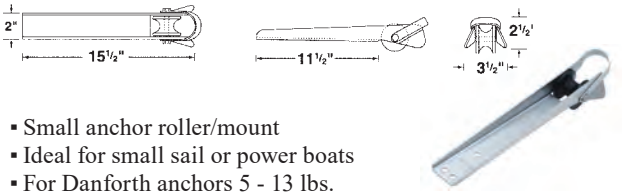
WIN CRM-1



- Universal anchor roller/mount
- For sail and power boats 25 - 54'
- For plow-type anchors 25 - 45 lbs and most sizes of pivoting fluke Danforth anchors using rope to 1-1/2" and chain to 1/2"
- No mounting holes

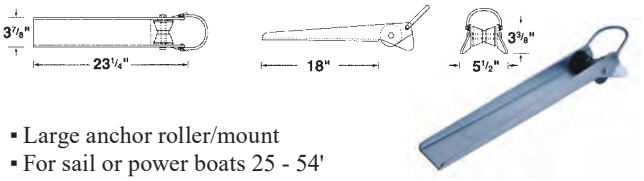
WIN URM-1

Windline Stainless Steel Anchor Rollers



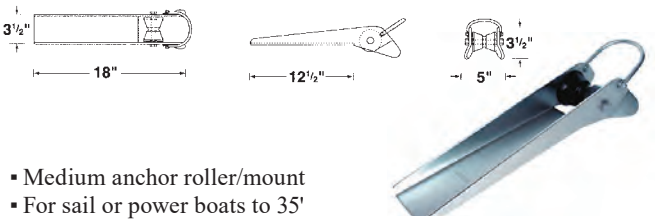
- Small anchor roller/mount
- Ideal for small sail or power boats
- For Danforth anchors 5 - 13 lbs.
- Accommodates rope to 1" and chain to 3/8"
- Pre-drilled for 3/8"fasteners

WIN URM-2



- Large anchor roller/mount
- For sail or power boats 25 - 54'
- Securely stows Danforth anchors 12 - 60 lbs
- Holds rope to 1-1/2" and chain to 1/2"
- No mounting holes

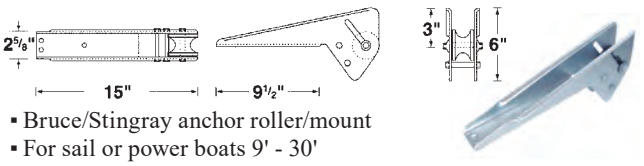
WIN URM-3



- Medium anchor roller/mount
- For sail or power boats to 35'
- Handles Danforth anchors 13 - 28 lbs.
- Holds rope to 1-1/2" and chain to 1/2"
- Ideal for use where deck space is limited
- No mounting holes

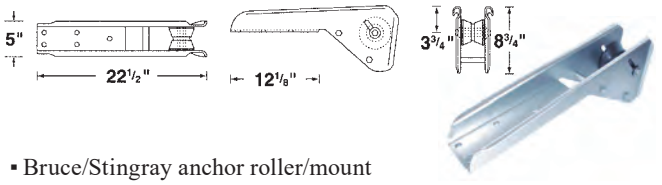
WIN URM-4

Weight: 4.5 lbs.



- Bruce/Stingray anchor roller/mount
- For sail or power boats 9' - 30'
- Handles Bruce anchors up to 16.5 lbs. using chain or rope to 3/8"
- Pre-drilled for 3/8" fasteners

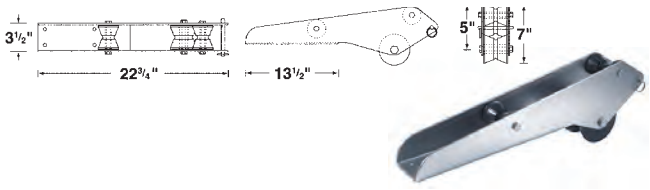
WIN BRM-2



- Bruce/Stingray anchor roller/mount
- For large boats with Bruce anchors 22 to 66 lbs
- Holds rope to 1-1/2" and chain to 1/2"
- The sliding wheel locks the anchor flukes against base without clamps or pins
- Pre-drilled for 1/2" fasteners

WIN BRM-3

► *Also See* Replacement Rollers pg 14-037



Windline Stainless Steel Anchor Roller

- Bruce/Stingray anchor roller/mount
- Unit firmly secures the Bruce 22 lb anchor to eliminate movement while underway
- Holds rope to 1-1/2" and chain to 1/2"
- Pre-drilled for 3/8" fasteners

WIN BRM-4

Sea-Dog Stainless Steel Chain Stoppers

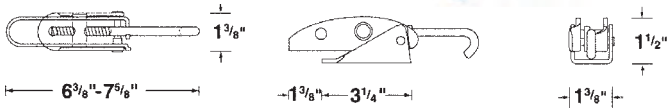


- Use for Sea-Dog and comparable bow rollers
- Mounts alone or inside most bow rollers
- Use 5/16" FH fasteners

Part #	Chain Sizes	W x D x H
SED 321820-1	3/16" - 1/4"	2-3/4" x 2-3/8" x 1-13/16"
SED 321825-1	5/16" - 3/8"	3-5/8" x 3-1/8" x 2-7/16"

Windline Heavy Duty Anchor-Tite Anchor Holder





- Flip-lever, stainless steel tensioner
- Locks the anchor in place, yet allows for quick release
- For anchors up to 90 lbs and any size chain or shackle

WIN AT-3





Wichard Large Chain Grips

- Eases tension on the anchor chain, reducing chafing on rub rail and roller chock
- Designed to avoid accidental release of the chain
- Duplex stainless steel grade for increased mechanical and corrosion resistance

- For 8mm (5/16") chain; fits 17mm (5/8") rope
- Working Load: 1,050 lb

WIC 2994 3-11/32"" long

- For 10mm (3/8") chain; fits 22mm (7/8") rope
- Working Load: 1,580 lb

WIC 2995 4-1/16" long

Sea-Dog Chain Gripper Plate



- 316 stainless
- Fits anchor chain sizes: 5/16", 3/8", 7/16" and 1/2"
- Two holes for a bridle application
- 3" x 4" x 5/16" thick

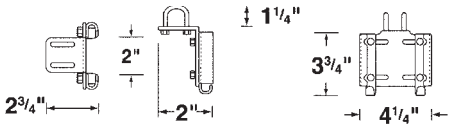
SED 321850-1

Windline Stainless Steel Rail Mount Anchor Chocks

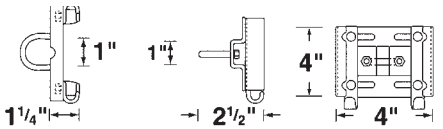


- Designed to fit Danforth anchors to 35 lbs
- All stainless steel
- For 7/8" or 1" OD tubing

WIN PM-1 Rail mount (horizontal)



WIN PM-2 Stanchion mount (vertical)





Sea-Dog Deck Anchor Chock



- Cast 316 stainless steel
- Suitable for 5 - 20 lb anchors
- Use #10 FH fasteners

SED 322150-1



278F



Scotty Anchor Locks

- Lock and release system for small boats
- The #276 and #277 come with deck mounts and are removable
- The #278F is permanently mounted to the boat

SCO 276	Comes w/#241 side/deck mount
SCO 277	Comes w/#244 flush mount
SCO 278F	Anchor lock (fixed)

Attwood "Lift and Lock" Anchor Controls

- Anchor roller and built in lock and release mechanism
- Support an anchor up to 20 lbs with 1/4" to 7/16" line

Deluxe:



- High impact reinforced nylon
- Stainless steel shafts
- Easy pull-up, lock, and release

ATT 13702-4

Standard:



- Economical steel/zinc plate anchor lift
- Nylon pulley system
- Steel sheave controls anchor from any position

ATT 13700-7

MAXWELL
ANCHORING EXCELLENCE



THE GLOBAL STANDARD IN INNOVATIVE ANCHORING SOLUTIONS



For over 50 years the name Maxwell has been synonymous with providing the highest quality anchoring solutions for superyachts, pleasure boats and commercial vessels.

WWW.MAXWELLMARINE.COM

MAXWELL

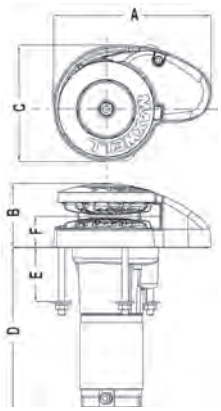
Maxwell RC6 Rope/Chain Windlass



- The RC6 features Maxwell's revolutionary, and patented, new Wave Design chainwheel
- Designed with the smaller, trailer boat market in mind the in-line, vertical gearbox and motor means quick and easy installation by either the boat yard or the DIY aftermarket customer
- The RC6 is a Low Profile unit (no optional capstan)

MAX RC6-12V 1/2" rope x 1/4" chain

Dimensions	
	RC6-12V
A	7-3/4" (196 mm)
B	3-3/16" (80 mm)
C	5-3/4" (145 mm)
D	8-1/4" (209 mm)
E	2-1/2" (65 mm)
F	1-9/16" (39 mm)



Standard Equipment

- Dual direction solenoid
- Emergency crank handle
- Up/down remote control panel
- Circuit breaker/isolator panel



Maxwell RC Series Rope/Chain Windlasses

- The ingeniously designed rope/chain gypsy (chainwheel) is able to accommodate a wide range of chain pitch differences within the specified chain size diameters
- Sleek, Low Profile and MAX-Grip capstan drum versions are available to suit individual user preference.
- Simple two piece installation saves time and money and allows easy retrofitting without disassembly of the windlass.
- Dual direction, power up and down operation via helm station controls or foredeck foot switches.
- Huge, through deck hawse pipe throat ensures easy entry of the rope/chain rode into and out of the anchor locker.
- Cone type clutch/brake mechanism permits manual, 'free fall' anchoring.
- Sealed oil bath and marine-grade hard anodised, alloy gearbox provides high efficiency output drive via precision worm and wormwheel.

Exclusive Maxwell 3 YEAR Limited Warranty

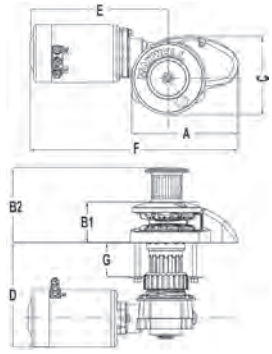
MAX RC8-6-12V	1/2" rope x 1/4" chain
MAX RC8-6-12VCAP *	1/2" rope x 1/4" chain, w/Capstan
MAX RC8-8-12V	5/8" rope x 5/16" chain
MAX RC8-8-12VCAP *	5/8" rope x 5/16" chain, w/Capstan
MAX RC10-8-12V	5/8" rope x 5/16" chain
MAX RC10-8-24V	5/8" rope x 5/16" chain
MAX RC10-8-12VCAP	5/8" rope x 5/16" chain w/Capstan
MAX RC10-10-12V	5/8" rope x 3/8" chain
MAX RC10-10-12VCAP *	5/8" rope x 3/8" chain w/Capstan
MAX RC12-10-12V *	5/8"-3/4" rope x 3/8" chain
Parts:	
MAX P103310	Chainwheel for RC8-6, 6-7mm-1/4"
MAX SP5102	Solenoid for RC6 and RC8-6, permanent magnet, dual direction,12V DC
MAX 131AI	Emergency windlass crank replacement for Freedom
MAX P100019	Pressure arm upgrade kit for Freedom
MAX P100033	Chain wheel assembly kit for Freedom

* Special Order

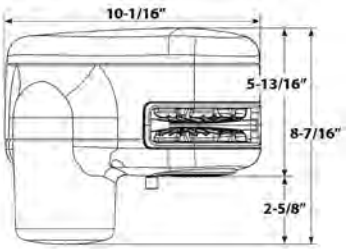
► *Also See* Switches & Breakers pg 14-047

Specifications						
Model	RC6-12V	RC8-6-12VCAP	RC8-8-12V RC8-8-12VCAP	RC10/8-12V	RC10/10-12V	RC12 -10-12V
Maximum Pull	770 lbs (350kg)	770 lbs (350kg)	1320 lbs (600kg)	1540 lbs (700kg)	1870 lbs (850kg)	2500 lbs (1134kg)
Chain Speed	79 ft/min 24 m/min	92 ft/min 28 m/min	105 ft/min 32 m/min	79 ft/min 24 m/min	79 ft/min 24 m/min	79 ft/min 24 m/min
Rope Speed	69 ft/min 21 m/min	79 ft/min 24 m/min	92 ft/min 28 m/min	65 ft/min 20 m/min	65 ft/min 20 m/min	65 ft/min 20 m/min
Motor	500W	600W	1000W	1000W	1200W	1200W
Rope Size	1/2" (12 mm)	1/2" (12 mm)	9/16-5/8" (14-16 mm)	9/16-5/8" (14-16 mm)	5/8" (16 mm)	5/8"-3/4" (16-20 mm)
Chain Short Link	1/4" (6/7 mm)	1/4" (6/7 mm)	5/16" (8 mm)	5/16" (8 mm)	3/8" (10 mm)	3/8" (10/11 mm)
Net Weight	18.7 lbs (8.5kg)	27.5 lbs (12.5kg)	36.3 lbs (16.5kg)	42 lbs (19 kg)	44 lbs (20 kg)	71 lbs (32 kg)

Dimensions				
Model	RC8-6-12VCAP	RC8-8-12V RC8-8-12VCAP	RC10/8-12V RC10/10-12V	RC12 -10-12V
A	8-5/16" (210 mm)	8-5/16" (210 mm)	9-1/8" (230 mm)	11-5/8" (293 mm)
B1	3-5/16" (83 mm)	3-5/16" (83 mm)	3-1/2" (89 mm)	5-1/8" (128 mm)
B2 (with capstan)	5-3/4" (146 mm)	5-3/4" (146 mm)	6-5/8" (168 mm)	9-1/4" (233 mm)
C	6-3/16" (156 mm)	6-3/16" (156 mm)	6-3/4" (170 mm)	8-1/8" (206 mm)
D	7-7/8" (200 mm)	8-1/4" (208 mm)	10" (251 mm)	8-3/8" (210 mm)
E	9-5/8" (245 mm)	10-3/4" (272 mm)	10-3/4" (272 mm)	11-5/8" (294 mm)
F	15" (383 mm)	16-1/4" (410 mm)	16-3/4" (424 mm)	19" (482 mm)
G	2-1/2" (65 mm)	2-1/2" (65 mm)	4" (100 mm)	3-5/8" (90 mm)

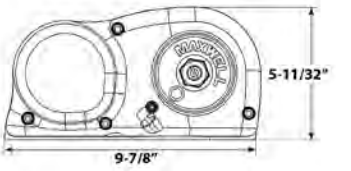


Maxwell HRC 6 & 8 Series Horizontal Rope/Chain Windlasses

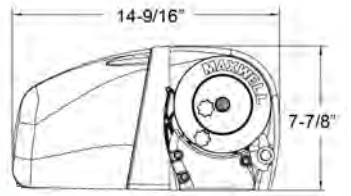


HRC FF-6/8





- Now incorporating Maxwell's automatic free-fall technology (HRC 6/8 only). Simply activate the windlass free fall lever, operate your optional down control (helm station or foot switch) and the windlass will freefall your anchor. Ready to lift the anchor? Activate the up control and the free fall device automatically disengages so you can power up your anchor
- Die cast, marine-grade, alloy case is hard anodized for unsurpassed marine protection. Simple 'bolt down' installation ensures effortless and rapid on-deck installation and set up
- Guarranteed trouble free rode transition from rope to chain, by means of an innovative, proven and patented pressure arm system, within a safe enclosed design
- Integrated composite nylon (HRC 6/8 only), through deck hawse pipe for ease of installation and smooth, snag-free operation
- High efficiency spur gearbox incorporating a robust non-backwind mechanism. High speed, jam-free retrieval of rope and chain controlled from a remote panel mounted Up/Down switch
- Emergency 'free fall' function in the event of on board power failure
- Revolutionary new chainwheel
- Heavy duty, dual direction motor incorporating new technology features, including integrated wiring for quick electrical installation, is easily removed for simple routine electric brush maintenance
- 3 Year warranty



HRC 10





MAX HRCFF612V	HRC FF-6
MAX HRCFF812V	HRC FF-8

Parts:

MAX P104704	Replacement Pressure Arm (current)
MAX P102837	Pressure arm (old white) HRC 6 and 8

HRC10 Series Windlass

All new HRC10 Horizontal Series fully automatic rope/chain windlasses have been designed to meet the demands for use on larger vessels up to 16 metres (52 feet), which require a completely above deck installation system. The HRC10's flawlessly handle rope up to 16mm (5/8") and chain up to 10mm (3/8") in size, including the thick rope to chain splice.

- The stainless steel pressure arm always exerts maximum control pressure on the rode (rope, splice or chain)

MAX HRC10812V	HRC10

Parts:

MAX 7037	Spring-pressure arm for HRC10 and RC 6/8/10

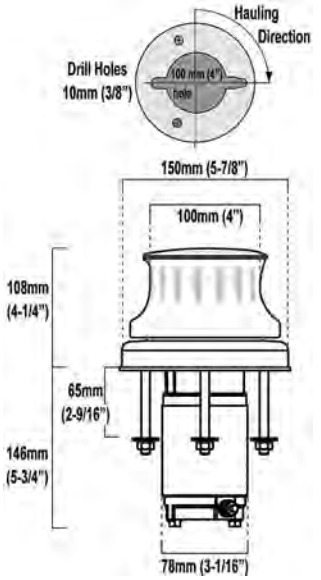
Standard Equipment

- Dual direction solenoid
- Emergency free fall lever
- Up/down remote control panel
- Circuit breaker/isolator panel

Specifications			
Model	**HRC FF-6**	**HRC FF-8**	**HRC-10**
Maximum Pull	410 kg (900 lbs)		700kg (1540 lbs)
Chain	6mm (1/4")	8mm (5/16")	8mm (5/16")
Rope Size	12mm (1/2")	14mm (9/16")	14-16mm (9/16"-5/8")
Line Speed	33 m/min (108 ft/min)		20 m/min (65 ft/min)
Power	12	12/24V	12/24/48V
Motor Watts	600W		1000W
Breaker	50 Amp	70 Amp	-
Weight	11.5kg (25 lbs)		13kg (28.5 lbs)

Maxwell Capstan Windlass





- An extremely versatile vertical or horizontal (clockwise-non-reversing) capstan or general purpose electric winch
- Use as an anchor winch, pot hauler or davit winch
- Utilizes a fully sealed gearbox driven by a vertically mounted, high efficiency permanent magnet motor
- Generates up to 386 kg (850 lbs) of line pull
- Anodized marine aluminum with chrome manganese bronze top parts
- Comes complete with foot switch & breaker panel

MAX ANCHORMAX

Maximum line pull	330kg (740lb)
Speed	@ nominal working load 32m/min
Voltage	12/24V
Power	500W
Weight	5.5kg (17.6lb)
Maximum boat LOA	10m (33ft)
Max. boat weight	4 tonnes

► Also See Switches & Breakers pg 14-047

MAXWELL

Maxwell Vertical Windlasses

Designed for automatic handling of all-chain anchor rode plus independent rope handling . All exterior parts are stainless or chrome bronze making them virtually maintenance free. The motor and gear box are below decks freeing up valuable deck space and keeping them from the elements. All VWC electric windlasses come complete with dual direction controls, chain pipe, chain wheel, circuit breaker/isolator panel, foot switch and an emergency crank handle.All VWC windlasses are available in 12 volt or 24 volt DC. Models 1000 and larger are available with hydraulic motors. Three year warranty.

Model VWC 1000

- Intended for boats 34' to 45'
- Chain wheels to fit all Acco brand 1/4" and 5/16" hi-test chains
- Three year warranty

MAX VWC1000-12V105 12V with rope capstan & 5/16" chainwheel
MAX VWC1000-12V111 * 12V with rope capstan & 1/4" chainwheel

Model VWC 1500

- Intended for boats 35' to 55'
- Chain wheels to fit all Acco brand 1/4", 5/16" and 3/8" hi-test chains
- Three year warranty

MAX VWC1500-12V105 12V with rope capstan & 5/16" chainwheel
MAX VWC1500-12V100 * 12V with rope capstan & 3/8" chainwheel
MAX VWC1500-24V105 * 24V with rope capstan & 5/16" chainwheel

Model VWC3500

- Intended for boats 45' to 70'
- Chain wheels to fit all Acco brand 5/16", 3/8" and 1/2" BBB, G40 or G30 chains
- Available without rope capstan
- Opposite rotation available for twin installations

MAX VWC3500-HYD058 * Hydraulic motor

* Special Order

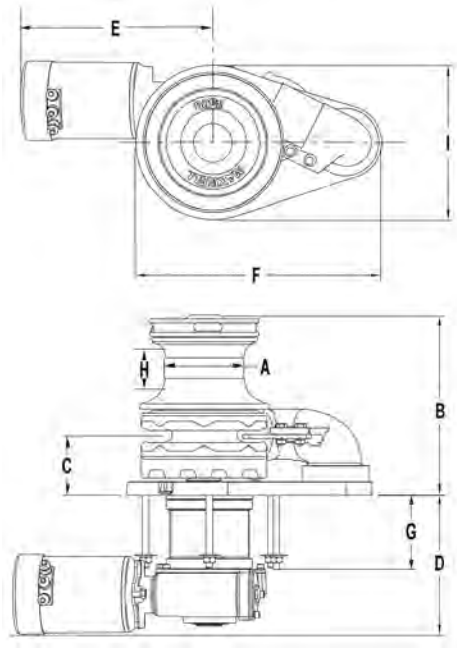


Standard Equipment

- Dual direction solenoid
- Emergency crank handle
- Up/down remote control panel
- Circuit breaker/isolator panel
- 2x foot switches

Specifications			
Model	**1000**	**1500**	**3500**
Maximum Pull (lbs)	1540	1870	3500
Chain Sizes	1/4"-3/8"	1/4"-3/8"	3/8"-1/2"
Line Speed (per min.)	60'	60'	50'
Motor (watts)	1000	1200	1200
Weight (lbs)	52	52	106

Circuit breaker recomended: 24V 80 amp, 12V 135 amp (not included)



Dimensions			
Model	**1000**	**1500**	**3500**
A	80 mm 3-1/8"	80 mm 3-1/8"	110 mm 4-5/16"
B	195 mm 7-11/16"	195 mm 7-11/16"	254 mm 10"
C	56 mm 2-7/32"	56 mm 2-7/32"	83 mm 3-9/32"
D	252 mm 9-5/16"	252 mm 9-5/16"	219 mm 8-5/8"
E	262 mm 10-11/32"	272 mm 10-23/32"	281 mm 11-1/8"
F	224 mm 8-27/32"	224 mm 8-27/32"	342 mm 13-7/16"
G	100 mm 4"	100 mm 4"	100 mm 4"
H	44 mm 1-3/4"	44 mm 1-3/4"	29 mm 1-1/8"
I	165 mm 6-1/2"	165 mm 6-1/2"	215 mm 8-15/32"

► *Also See* Switches & Breakers pg 14-047

Maxwell 3500 Horizontal Windlass



Designed for fully automatic handling of all chain anchor rodes plus independent rope handling ability. Marine-grade epoxy powder-coated alloy casing. Simple installation with flush deck mounting and no under deck parts. The horizontal windlass comes standard as a single direction winch but is easily upgraded to a fully automatic dual direction ability. Included with the standard winch are:

- Dual direction solenoid (included)
- Chain pipe & chain wheel for specified chain size
- Emergency crank handle
- Intended for boats 45' to 70'
- 1200 watt motor
- Chain wheels to fit all Acco brand 3/8" and 1/2" chains
- Circuit breaker recomended
- L: 20-9/32" x W: 21-5/8" x H: 12-7/16"

Specifications	
Model	**3500**
Max. Pull	1590 kg (3500 lbs)
Line Speed	15 m/min (50 ft/min)
Motor Watts	1200
Max. Chain	13 mm (1/2")
Weight DC	57 kg (125 lbs)

MAX HWC3500-12V058 * 12V, 3/8" chain

Also available in Hydraulic:

MAX HWC3500-HYDDCW016 * Hydraulic, 1/2" chain

* Special Order

Standard Equipment

- Dual direction solenoid
- Emergency crank handle
- Up/down remote control panel
- Circuit breaker/isolator panel
- 2x foot switches

Maxwell Chain/Chainwheel Chart

Size	Grade	HRCFF8	HRC10	RC6	RC8	RC10	4" 3132 500 Series	5" 3173 1000-1500 Series	6" 3231 2200-2500 Series	7" 3182 3500-4000 Series
3/16"	BBB	-	-	-	-	-	3132-#201C*	-	-	-
1/4" 1/4"	G-43 BBB	- -	- -	P103314* P103314*	P103310 P103310	- -	3132-#203C* 3132-#203C*	3173-#111C* 3173-#110C*	3231-#046C* 3231-#046C*	- -
5/16" 5/16"	G-43 BBB	P102860* P102860*	P103315* P103315*	- -	P103311* P103311*	P103308* P103308*	- -	3173-#105C* 3173-#105C*	3231-#033C* 3231-#033C*	3182-#033C* 3182-#033C*
3/8" 3/8"	G-43 BBB	- -	P103316* P103316*	- -	- -	P103309* P103309*	-- -	3173-#100C* 3173-#114C*	3231-#058C* 3231-#054C*	3182-#058C* 3182-#054C*
1/2"	G-43	-	-	-	-	-	-	-	-	3182-#201C*

* Special Order

To order, use the prefix MAX, for example use: MAX 3132-#201C.

*Note: (1) All above chain is I.S.O. short link. N.A.C.M. metric long link cannot be used. (2) Chains not listed above may work in some applications. We can try to match your chain wheel/chain requirement if you would provide us with either an 6' chain sample or your existing chain wheel.

Maxwell Auto Anchor 560



Panel mount rode counter for electric or hydraulic windlasses using all-chain or rope/chain rode.

- Control and monitoring from the helm
- Large LCD display with adjustable red backlighting shows length of anchor rode deployed
- Display in feet or metres
- One-touch automatic function deploys and retrieves a preset length of anchor rode
- Manual operation also available
- Vessel is protected during anchor retrieval by preset windlass stopping point and docking alarm
- Safety lock protects windlass from accidental deployment
- Settings are saved on exit or if the battery fails
- Simple installation and set up with pre-programmed calibrations for rope/chain rodes
- Cover for weather protection

**Note A sensor extension cable (ordered separately) must be used to connect the sensor to the console unit (see parts below)*

MAX P102944 12V or 24VDC

Parts:

MAX SP4157 15 meter extension cable

MAX SP4153 20 meter extension cable

MAX P102923 Sensor and magnet kit, grey

Maxwell Wireless Remote Control for Windlasses and Thrusters



Remote for full windlass control and chain counting with the option of thruster operation.

- Controls bow and stern thrusters independently and together
- Preset the length of rode to deploy
- Counts rope/chain or all-chain rode
- Choice of feet, metres or fathoms rode measurement
- Logs windlass operating hours to assist with maintenance
- Console unit is shockproof, waterproof and will float
- High level wireless transmission security includes unique ID and registration for every unit
- Rubber over moulding for grip and non slip protection
- Console holder and protective cover
- Displays signal strength and battery level
- Auto stop and docking alarm when the anchor is close to docking
- Connects to DC, AC and Hydraulic systems
- Operates in parallel with other control equipment eg. toggle switches, foot switches and other electronic controllers

***Note The sensor cable is fitted with a female plug to connect directly to the male connector on the AA702 base station. If a longer length is required, an extension cable can be added (see below)**

MAX P102981

Parts:

MAX SP4157 15 meter extension cable

MAX SP4153 20 meter extension cable

Endurance Marine Capstan Deck Winch

- Gear box machined from 5083 aircraft aluminum for maximum strength and corrosion resistance
- Includes deck switch, 80A breaker, and heavy duty 100A marine solenoid
- Twin sun gears drive 6 tempered planetary gears to provide greater power and reduced noise
- 1" splined heat-treated shaft
- Installs in limited space
- Retrofits previous models (600 / 800 / 1000 / 2000)
- 12V, 1000W motor (2.3 HP)
- Pulling capacity: 2500 lbs
- Lift capacity: 700 lbs
- Gear ratio: 121:1
- Suitable for vessels up to 35'
- H: 6" x W: 13" x L: 6"
- Weight: 20 lbs



END WCH2500

Maxwell Waterproof Foot Switches

Foot operated, waterproof deck switches for all anchor windlasses. These heavy duty (rated 150A @ 12V) switches do not require additional solenoids. Mounts into a 2" diameter hole. 3/8" stud terminals. 12 to 24 volts.

Switch with Trim Ring

- Trim ring diameter: 4", depth: 2-1/4"
- S/S wood screws included



MAX P19001 Stainless steel trim ring

Switches with Covers

- Hinged, protective cover that guards against accidental use of the windlass
- Cover diameter: 4-1/4" with a 3/4" hinge pocket





MAX P19006 Black
MAX P19007 White
MAX P100735 Stainless steel

Parts:

MAX P104894 Replacement diaphragm
MAX P104896 Hinged cover, White

Sea-Dog Foot Switch

- Normally OFF ♦ Momentary ON
- Stamped S/S ring and rubber cover
- Rated 25 amps @ 12VDC
- Depth: 3-5/16", Dia: 4-1/2"
- Uses # 8 Round head fasteners



SED 420430-1

Maxwell Waterproof Foot Switches



- Compact foot operated, waterproof deck switches (rated 5A @ 12V) for all anchor windlasses
- Used with a solenoid
- Switch cover ring diameter: 7cm, Depth from deck top: 2cm.
- Stainless steel woodscrews included

MAX P104809 White
MAX P104810 Black

Maxwell Up/Down Remote Panel



Easy to use panel-mounted Up/Down switches for remote windlass operation from the helm, flybridge or cockpit. Suitable for use with dual-directional solenoids.

- Manufactured from marine-grade materials
- Splashproof
- Suitable for 12 and 24 Volt DC use
- Includes on/off switch and power indicator light
- H: 3-3/8" x W: 2-3/8"

MAX P102938

Maxwell Standard On/Off Breaker Panels

- A thermally operated (manual reset) 12V breaker
- Reliable, automatic over current protection
- Black panel comes complete with a power-on indicator light
- Panel size: 4" x 4"



MAX P102902 * 50 amp
MAX P102903 * 70 amp
MAX P100790 80 amp
MAX P100791 135 amp

* Special Order

Maxwell Reversing Solenoids



Use these on all Maxwell winches if dual direction is required.

All models except 500 series:

12 volt includes:

MAX SP5104 12 Volt S.W. reversing solenoid

24 volt includes:

MAX SP5105 24 Volt S.W. reversing solenoid

► *Also See* Blue Sea Systems Circuit Breakers pg 02-055

Sea-Dog Marine Mooring Hook





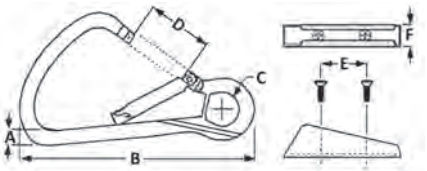
Cast 316 stainless steel snap makes attaching a line to a mooring buoy a simple and quick process. The kit includes the snap hook, keeper plate, and fasteners for attaching the keeper plate to a boat hook.

- Makes mooring buoy hook-up quick and easy
- Max. line diameter: 7/8"
- Overall length: 4-5/8"

SED 491055-1

Parts:

SED 491056-1 Keeper plate only



Sea-Dog Marine Large Mooring Hook

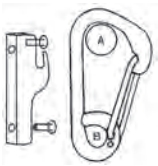


- Convenient and easy solution for attaching a mooring line to a buoy or cleat
- When using the keeper plate, these channeled snaps fit onto the end of boat hooks or other poles
- Large size works on cleats up to 24”
- WLL: 2,185 lb; not intended for any kind of lifting
- Investment cast 316 s/s with 304 s/s keeper plate
- Kit includes snap hook, keeper plate, and fasteners (#8 FH)

Part #	A	B	C	D	E	F
SED 491058-1	1/2"	8-1/8"	1-3/16"	2-1/2"	1-11/16"	3/4"

Wichard Mooring Hook





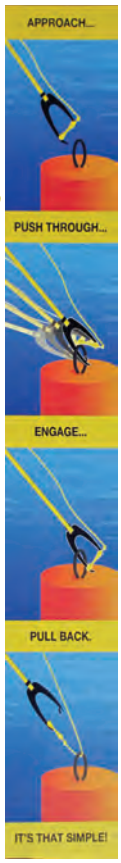
- Hook and plate can be fitted to any pole
- Makes mooring buoy hook-up quick and easy

Part #	Stock	Length	B	A
WIC 92327	15/32"	4-5/8"	5/8"	1"









MoorFast by RWO

- Also known as the "Happy Hooker"
- Threads a rope through a ring or cleat up to 2m away from the safety of your own deck and brings it back on board
- Unique "claw" shape scoops up buoy rings and shackles that lie flat
- Guide a loop safely over a cleat or bollard from your deck
- Attach your rope to the end of the feeder line and a simple "push-pull" action threads the feeder line and, by continuing to pull, brings your rope back to your hand

RWO R9700 **

** While Stock Lasts

Panther Happy Hooker



- Easily moor a rope, or retrieve from a distance, all in one simple motion
- Fastens to almost any type of extension pole with bolt or hose clamp (not included)

PAN 85-B203MAR Plastic

PAN 85-B203STN Stainless steel



Sea-Dog Telescoping Boat Hooks

- Injected molded nylon/aluminum
- Rubber covered hook area and rubber tip and handle for extra grip
- Remove hook tip to screw on brush

SED 491013-1	1 section 72"
SED 491021-1	2 section 24" - 36"
SED 491024-1	2 section 48" - 96"
SED 491034-1	3 section 36" - 96"
SED 491036-1	3 Section 56 - 144"



Sea-Dog Fixed Boat Hook

- Injected molded nylon/aluminum
- Rubber covered hook area and rubber tip and handle for extra grip
- Remove hook tip to screw on brush

SED 491012-1 48"



Davis Telescoping Boat Hooks

- The threaded end accepts cleaning accessories
- A highly visible, soft vinyl top covers the thread and protects the boat's finish when fending off
- Unbreakable Lexan head
- Floating design



DIN 4122	53" - 96"	2 sections
DIN 4132	38" - 96"	3 sections
DIN 4152	54" - 144"	3 sections
DIN 5141	Replacement end, fits most 1" poles	

Garelick Boat Hooks

- Anodized aluminum tubing with rolled edges for added comfort
- Permanently attached glass reinforced head with vinyl tips
- Vinyl non-slip safety grips



Premium Telescoping



- Adjustable, 3 sections, 1-1/4" diameter

GAR 55170	42" - 96"
GAR 55175	56" - 144"

Standard Telescoping



- Adjustable, 2 sections, 1-1/8" diameter

GAR 55190 48" - 90"

Fixed Length



- Fixed length 1" diameter

GAR 55006	6'
GAR 55008	8'

Shurhold Dock-A-Reni Boat Hook Accessory



- Makes a Loop - Dock Line Holding Tool
- Use any boat pole
- No special storage necessary
- Simple & safe to use
- Plastic - no rusting
- UV resistant

SHU 134





Soo-Line Aluminum Pike Poles

- Non-blackening anodized finish
- Poles are light, strong and buoyant
- Made with a straight pike and knob type grip securely crimped in 1-1/4" O.D. tubing

DOM 500A-8'
DOM 500A-10'
DOM 500A-12'
DOM 500A-14'
DOM 500A-16'
DOM 500A-20'

Parts:

DOM 530P Pole plug for pike



Soo-Line Pike Pole Gaff



- Drop-forged, heat-treated carbon steel
- Threaded screw type to fit Soo-Line pike poles

DOM 322 Straight pike and hook

@shockwaveseats

www.shockwaveseats.com

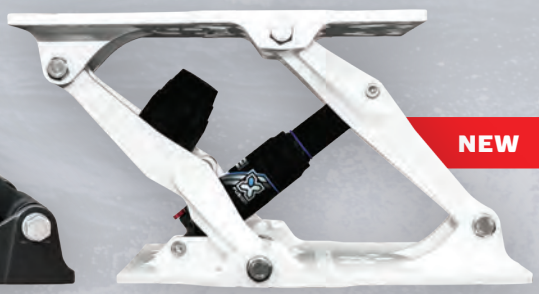
SHOCKWAVE
MARINE SUSPENSION SEATING

Find Your Ideal Suspension Seat Base

Shockwave now offers three suspension bases aimed at the specific needs of recreational boaters, designed to provide relief from the shock of wave impact.







S5-SS

- Electropolished 316 stainless steel
- Highly corrosion resistant
- Ideal for high salinity waters and heavy seas
- FOX Rhythm air spring shock with adjustable rebound and compression
- Built to last a lifetime

S5-AL

- Anodized and powder coated A360 aluminum
- 4-link forward action
- Suited to moderate seas, freshwater and cabin use
- FOX Rhythm air spring shock with adjustable rebound
- Tried and trusted

S5-LW

- Anodized and powder coated A360 aluminum
- 3-link forward action
- Ideal for light seas, freshwater and cabin use
- X-Fusion O2 R air spring shock
- Light weight and budget-friendly

Shockwave. The Future of Marine Suspension Seating.

See the S5 suspension base range and accessories as well as our S5 Corbin seats in section I5 or explore the S5 marine suspension base range here:

FEEL **BETTER.** TRAVEL **FARTHER.**

15 - SEATING

Seating	15-002 to 005
Seat Hardware	15-006 to 015
Table Bases & Tables	15-015 to 017



Shockwave S5 Corbin Seats

SHOCKWAVE has once again teamed up with world renowned seat manufacturer Corbin, to design the dynamic S5 Corbin seat. Precision engineering and a state of the art design process have paved the way for a lightweight, robust seat, that sets the standard for true comfort and performance.
The S5 Corbin seat comes equipped with folding armrests and a storage pocket on the seat back, and is the perfect complement for all of the S5 suspension modules.
Available in a variety of custom colors and fabrics - and with machined aluminum seat frames and fibreglass seat backs - these seats will outlast any marine seat on the market.

- Certified MIG and TIG welded components
- 5086 and 6061 marine grade aluminum components
- High energy absorption, form fitting, low point load, Corbin design cushions
- Closed cell non hygroscopic foam
- H: 23.9" x Overall W: 23.5" x Seat W: 19.5" x Seat D: 17.4"
- Mounting hardware included

SHO SW-04920-B	Black
SHO SW-04920-W	White

Tempress ProBax Elite Seats



- ProBax is the only seat clinically proven to provide optimal long-term back and upper body support
- Patented base and back dual core foam support system
- Water resistant and durable for prolonged use
- Sewn with UV and abrasion-resistant polyester thread and covered in 30-oz. marine-grade vinyl
- Universal seat bolt pattern is molded into the frame to accept any 5-1/4" mounting system or pedestal
- Stainless steel mounting hardware with Loctite patch is included
- H: 27" x W: 24" x D: 27.5"



TMP 68350	Black/Grey/Carbon
TMP 68351	Blue/Grey/Carbon
TMP 68352	Charcoal/Grey/Carbon
TMP 68354	White/White/Pearl White
TMP 68355	White/Grey/Carbon
TMP 68358	White/Blue/Carbon
TMP 68359	White/Black/Carbon
TMP 68360	Black/Charcoal/Carbon
TMP 68364	White/Grey/Pearl White



ProBax Fisherman's Seat

- All the features as above but with no armrests

TMP 68150	White/Grey/Carbon



Tempress ProBax Seats

- ProBax is the only seat clinically proven to provide optimal long-term back and upper body support
- Patented base and back dual core foam support system
- Water resistant and durable for prolonged use
- Sewn with UV and abrasion-resistant polyester thread and covered in 30-oz. marine-grade vinyl
- Universal seat bolt pattern is molded into the frame to accept any 5-1/4" mounting system or pedestal
- Stainless steel mounting hardware with Loctite patch is included
- H: 23.5" x W: 18.5" x D: 19.5"

TMP 68452	Charcoal seat, Charcoal/Grey/Carbon cushion
TMP 68453	Black seat, Black/Grey/Carbon cushion
TMP 68454	White seat, White/Grey/Carbon cushion
TMP 68455	White seat, White/Blue/Carbon cushion
TMP 68472	Black seat, Black/Charcoal/Carbon cushion
TMP 68480	White seat, White/White/Pearl White cushion

Tempress Elite Helm Seats



- Rotationally molded helm seat that incorporates the patented NaviStyle StylePanel system
- Contoured StylePanels create a comfortable seating surface that is ergonomically correct without the excessive use of foam
- Built in lumbar support and a rolled front edge

High Back



- H: 26" x W: 23.5" x D:27.5"

TMP 57010	White shell / White cushions
TMP 57017	Charcoal shell / Grey cushions

Low Back



- H: 22" x W: 23.5" x D:27.5"

TMP 57027	Charcoal shell / Grey cushions
Accessories:	
TMP 57005	Mounting plate

Tempress Fisherman's Elite Seat



- Rotationally molded seat incorporates the NaviStyle StylePanel system for superior comfort
- Contoured StylePanels create a comfortable seating surface that is ergonomically correct without the excessive use of foam
- Built in lumbar support and a rolled front edge contribute to seating comfort
- Handy rear grab bar
- H: 22" x W: 20" x D: 21"

TMP 56102	Black seat, Charcoal/Grey cushion
Accessories:	
TMP 57005	Mounting plate

Tempress Navistyle High-Back Seats



- Subtle curves provide lumbar support while the tapered sides allow for the lateral movements
- Features "no-pinch" hinge, with automatic locking mechanism that secures the seat in the folded position
- Mount to any seat swivel or slide with the built in stainless steel T-nuts, and included stainless steel mounting hardware
- H: 21-3/4" x W: 18" x D: 19-1/2"

TMP 54800	White seat, White cushion
TMP 54901	Grey seat, Grey/Blue cushion
TMP 54907	Charcoal seat, Charcoal/Grey cushion

Tempress Armrest Brackets



- Compatible with NaviStyle, All-Weather and Profile Guide Series

TMP 90110	Black pads
TMP 90112	Grey pads

Tempress Seat Covers

Designed with enough stretch to be considered a universal seat cover. 3 sizes to choose from; small fold-down, large fold-down, and XL non-folding helm.

- Fade resistant black 600 denier polyester
- Water repellent top coat
- Stainless steel eyelets
- Adjustable cord for optimal fit

Fits Navistyle Low Back, All Weather and Profile
W: 18" x H: 18" x D: 19"

TMP 58006 Small

Fits Navistyle High Back and ProBax
W: 19" x H: 24" x D: 19"

TMP 58005 Large

Fits Elite Helm and ProBax Captains
W: 24" x H: 26"

TMP 58007 X-Large



Springfield Fish Pro 1 Seat



- Backrest is fitted with ergonomically molded cushions and extended sides for extra support
- Durable injection molded shell with pinch proof centre pivot point allows seat to fold down flat
- Weather resistant marine grade vinyl upholstery
- 5" x 12" universal mounting pattern
- Channel for optional armrests
- H: 26" x W: 20" x D: 22"

SPR 1041634-1 Charcoal/Grey

Springfield Yachtsman Premium Package



- One piece white molded shell made from LLDPE plastic with UV inhibitors for years of carefree use
- Cushions are made from plush foam padding covered with marine grade vinyl
- Heat seal channels and quick dry construction
- 2-7/8" locking Trac-Lock 360° rotating swivel
- Slide travels 5-1/4" fore and aft
- 15" fixed height pedestal with 9" round floor base
- Anodized finish
- 5 year warranty on substrate/frame, 1 year on upholstery/ cushions
- Seat: H: 24.75" x W: 21.25" x D: 21.25"

SPR 1001416-L White/Grey

Springfield Console Helm Flip Up Seat



- Flip up bolster with plush cushion for comfortable leaning position
- Marine grade vinyl with high density foam padding
- Cushioned arm rests flip up and out of the way
- Universal mounting pattern: 5" x 12"
- H: 23" x W: 25" x D: 20" (seat width: 19")

SPR 1042035-W * White

* Special Order - may have stock

Springfield Fish Pro 100 Seat



- Contour lumbar cushion cradles your back for maximum support
- Deep mesh pocket on back of seat
- Folds down easily
- Concealed pinch proof centre pivot point
- Weather resistant marine grade vinyl
- Universal mounting pattern: 5" x 5" and 5" x 12"
- H: 21.5" x W: 19.5" x D: 23.5"

SPR 1041733 Charcoal/Grey

Springfield Ocean Flip Up Seat



- Heavy-duty marine grade vinyl over plush foam padding
- Roto-molded, composite shell
- Pocket on back for additional storage
- H: 22.5"H x W: 21" x D: 22.5"
- Up position: D: 16.5"
- Mounting pattern 5" x 12"

SPR 1040900 White

Wise Quantum Seats



- Two-piece polymer seat with folding lock
- Long-lasting comfort and durability with high density, 2 lb. molded foam pack
- Form fitting seat cover in mixed texture, heavy duty marine grade vinyl
- UV treated and mildew resistant
- Mounts on any pedestal or flat surface with a 5-1/4” hole pattern
- Seat slide compatible
- Includes stainless steel mounting screws
- H: 22" x W: 18.25" x D: 22" (Seating D: 16.5")



WIS 3340-1788 ** Jazz Black/Marble/Charcoal
WIS 3340-1789 ** Mariner Blue/Charcoal/Marble
** While Stock Lasts

Wise Lund Style High Back Seats



- High impact marine-grade plastic frame with OEM grade powder coated “no-pinch” hinges
- Compression foam padding and 28 oz marine grade vinyl
- Mildew resistant and UV treated
- Mounts on any pedestal or mounting surface with a 5-1/4” hole pattern
- Mounting fasteners included
- H: 22.5” x W: 17” x D: 19.75” (Seating D: 16”)

WIS 8WD640PLS-660 ** Grey/Navy
** While Stock Lasts



Tempress High Back All-Weather Seats

- Bullet proof design and heavy duty construction
- Features a double contoured seat pan and fitted cushions
- Stainless steel hinge pins secure the fold down back
- Included 1/4" x 20 t-nuts allow mounting to any standard marine swivel, slide, or seat spider
- Accepts the Quick Disconnect Mounting kit (45933)
- H: 18 1/2" x W: 18 1/4" x D: 18"

TMP 45602 Grey seat, Grey cushion
TMP 45607 Grey seat ,Grey/Blue cushion
TMP 45608 Black seat, Grey/Charcoal cushion

Springfield Skippers Deluxe Seat



Contemporary injection molded fold down seat features clean lines that create a modern look and feel. Interlocking hinge design offers a great structural support and fit. Comes with universal bolt pattern to accommodate most mounting applications.

- Complete with cushions
- H: 18" x W: 19-1/2" x 17"

SPR 1061057 Grey/Charcoal

Tempress Low Back All Weather Seats

- All-Weather features a double contoured seat pan that eliminates pressure points
- Stainless steel hinge pins secure the fold down back



Complete

Designed specifically for the fisherman who wants comfort and convenience of a removable seat.

- Includes seat, quick disconnect, and cushion
- H: 18" (with mount) x W: 18-1/4" x D: 17"

TMP 45150 White
TMP 45153 Grey

Seat Only

- Included 1/4" x 20 t-nuts allow mounting to any standard marine swivel, slide, or seat spider
- Will also accept the quick disconnect mounting kit. (see below)
- Dimensions: H: 17-1/2" x W: 18" x D: 17"



TMP 45040 White
TMP 45043 Grey

Seat & Quick Disconnect Only

Includes a positive lock quick disconnect mount, allowing installation and removal of the seat, quickly and easily.

- H: 18" (with mount) x W: 18" x D: 17"



TMP 45130 White
TMP 45133 Grey

All-Weather Cushions

- Tailored to fit Tempress seats
- High-density, resilient, urethane foam covered with a vinyl that is mildew, abrasion and stain resistant
- Snap-on cushions are easily removable for maintenance or storage



TMP 54030 Grey
TMP 54035 White

Quick Disconnect - Mount Only



TMP 45830 White
TMP 45833 Grey

Quick Disconnect Retrofit Kits

The kit includes the mount, adapter plate for the seat bottom, and the locking flap.

- Hardware included



TMP 45930 White
TMP 45933 Grey

► Note:

Quick Disconnect Mounts do not work with the Tempress NaviStyle seats or any other manufacturers seat.

*The QD mount works **only** with Tempress All-Weather and Profile Seat Shells.*

Wise Low Back Seats





- High impact plastic frame
- Compression foam padding
- Plastic sealed to resist moisture
- Heavy duty 28 oz. marine grade vinyl
- UV treated to resist mildew and fading
- H: 19" x W: 16" x D: 18.5" (seat only 14")

WIS 8WD734PLS-660 ** Grey/Navy
WIS 8WD734PLS-664 ** Grey/Charcoal
** While Stock Lasts

Wise Low Back Boat Seat



- Injection molded high-impact plastic frames
- Compression foam padding
- Heavy 28 oz marine grade vinyl
- Mildew resistant & UV treated
- W: 16" x H: 18.5" x D: 15"

WIS 8WD3313-713 ** Green
** While Stock Lasts

Springfield Skippers Chair Seat Package



- Injection molded fold down seat
- Interlocking hinge design offers a great structural support and fit
- Comes with universal bolt pattern to accommodate most mounting applications
- Comes with 15" pedestal & cushions
- H: 18" x W: 19-1/2" x D: 17"

SPR 1001003 Grey/Charcoal

Springfield Newport Chair Seat Package



- Newport seat shell
- Newport white cushion set
- Mounting plate
- 2-3/8" trac-lock locking swivel
- Manual pedestal with 9" floor base
- Adjusts from 13-1/4" to 16-1/4"
- Seat: H: 18" x W: 20" x D: 15"

SPR 1060100-L

Springfield Folding Deck Chair



- Folds flat; locking bar keeps legs locked in place for extra stability
- Can be used with or without padded head and leg rests (included)
- Premium blue canvas cover
- Wood arm rests
- Aluminum frame
- H: 32" x W: 26" D: 27"
- Seat: W: 19" x D: 16"

SPR 1080120

Springfield Folding Deck Chair



- Durable and weather-resistant
- Plastic substrate with heavy-duty aluminum double tubing
- Weather resistant marine grade vinyl
- Folds easily for transportation
- H: 31" x W: 25.5" x D: 20"
- Seat height: 18"

SPR 1080021

Tempress Folding Bench Seat



Made with a lightweight corrosion proof aluminum frame back and a heavy duty plastic base. This allows for extreme durability, lightweight, and easy installation in a wide variety of configurations. The 31" long bench seat folds with black powder coated hinges, and is covered in 30 oz marine grade UV stable vinyl. The high density foam inside provides perfect support and cushioning for those days when the weather gets rough. Measures 31" across and 17.5" deep and has a nice tall 18" back rest. Bottom cushion is a thick 4.5" and back cushion is 4" thick.

TMP 54930

Wise Livewell Cooler Seat



- Stainless steel arms
- Extra heavy duty 28 oz marine grade vinyl
- Molded plastic bases are scuff and mar resistant
- High density foam padding
- UV treated & mildew resistant
- Plastic sealed to resist moisture
- 62 qt insulated capacity
- Height: 34.75" x W: 32" x D: 18"
- Height to top of seat: 19"

WIS 8WD437SS-784 ** Bright White
** While Stock Lasts

Wise Deluxe Lounger Seats



- Extra heavy duty 26 oz marine grade vinyl
- Molded plastic base w/vinyl finish are scuff and mar resistant
- Compression foam padding
- Storage inside
- UV treated & mildew resistant
- Plastic sealed to resist moisture
- Seat Height: 28" x W: 17.5" x Reclined: 64.5"
- Base Height: 10" x W: 13-1/2" x L: 36"

WIS 8WD707P-1-711 ** Navy
WIS 8WD707P-1-717 ** Grey
** While Stock Lasts



Smooth Moves Ultra with Box Mount



- Same as the other Ultra suspension, but with a low profile mounting box, and a Smooth Moves heavy duty swivel
- Designed for those that want their seat cushion to be 11.5"-13.5" off the floor of the boat

SMV UBOX2S

Smooth Moves Seat Suspensions



UGAR5S

The Ultra model is a mechanical suspension system with a four spring design and a hydraulic shock. It can be easily installed in most boats with pedestal style seating utilizing your existing seat and simple hand tools. The adjustable spring tension accommodates passenger weights from 100 to 300 pounds. The slide allows for fore and aft adjustment of up to 6 inches.

Kit includes: Ultra mechanism in shroud boot, 4.75" pedestal, spider/swivel, small seat plate (Small seat plate works with most seat configurations)



- H: 13" x L: 16" x W: 11"
- Weight: 45 lbs

SMV UGAR5S	Suspension kit, H: 13" with post (#167.1)
SMV ULTRAH	Suspension mechanism only, H: 9" (#165)
Accessories:	
SMV SMUSPLG	Large seat plate, 5" x 12" bolt pattern (#174)





Shockwave Sentinel Marine Suspension System

The Shockwave S5 suspension bases protect boaters from the shock of wave impact, reducing injury and providing greater comfort. The base provides 4" of vertical travel and 1.5" forward travel, mitigating deceleration associated with wave contact. Easy to mount and adapt to current seating. Designed and manufactured in Canada.

- 4-link forward action design for higher loads, more stability, and a smoother ride
- Anodized and powder coated A360 cast aluminum with 316 stainless hardware
- FOX Rhythm air spring shock absorber with adjustable rebound
- Best suited for moderate to heavy seas, freshwater, or cabin use
- Weight capacity: Up to 300 lbs
- Weight: 27.5 lbs
- L: 18.5" x W: 11.2" x H: 8.8"



SHO SW-07823-B	Black
SHO SW-07823-W	White

NEW



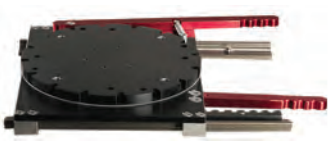
Shockwave S5-LW Suspension Base

The Shockwave S5 suspension bases protect boaters from the shock of wave impact, reducing injury and providing greater comfort. The base provides 4" of vertical travel and 1.5" forward travel, mitigating deceleration associated with wave contact. Easy to mount and adapt to current seating. Designed and manufactured in Canada.

- Entry-level, 3-link forward action suspension base
- Anodized and powder coated A360 cast aluminum with 316 stainless hardware
- X-Fusion O2 R air spring and shock with adjustable rebound
- Best suited for lighter seas, fresh water, or inside cabin usage
- Weight capacity: Under 250 lbs
- Weight: 20.5 lbs
- L: 18.5" x W: 12" x H: 8.6"



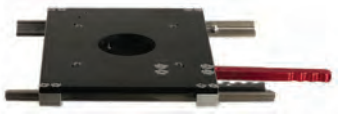
SHO SW-05026-B	Black
SHO SW-05026-W	White



Shockwave Seat Slide/Swivel

The ultimate in adjustability for your S5 suspension module, this swivel and slide system is designed specifically for the S5 and built to the same high level of durability and corrosion resistance. The slide offers 5 inches of fore-aft travel and the 360-degree swivel locks in place in any of 16 positions for excellent flexibility.

SHO SW-05488



Shockwave Seat Slide

Purpose-built S5 seat slide offers a full 5 inches of fore-aft travel allowing for comfortable seating options for a wide variety of occupants and uses.

SHO SW-05489



Shockwave High Pressure Pump

The high-pressure shock pump is required for setup and operation of the Shockwave S5 suspension module. It features an integrated pressure gauge and bleed valve for simple adjustment with a maximum inflation pressure of 350 psi.

SHO SW-01983



Garelick Suspension System

- Absorbs up to 75% of shock, jolt and vibration
- Adjustable compression allows for maximum comfort
- Low profile design adds only 2" of height
- High tensile anodized aluminum and stainless steel hardware
- Heavy duty forward hinge allows shock absorption to occur in the vertical plane only, thus eliminating unnecessary side sway
- 13" x 7"

GAR 77000

Attwood Quick Disconnect Mounts

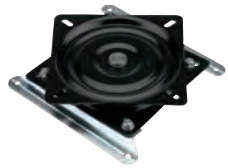
NEW

- Allows easy attachment and removal of boat seats
- Durable engineered plastic and coated structural steel frame
- Mounts directly to existing seats and standard pedestals
- Suitable for Jon boats, fishing boats, pontoons, and more



ATT 11602D1 6-1/4"
ATT 11603D1 7"

Garelick Seat Swivel



- 360° self-lubricated poly bearing swivel
- Heavily plated to resist corrosion
- 6-7/8" square swivel on 7-3/4" extended bottom that allows easy mounting from the top side

GAR 75018 **
** While Stock Lasts

Garelick Heavy Duty Ball Bearing Seat Swivel



- For marine and outdoor use
- 7" square top and bottom
- Plates on 5-1/4" centre slots

GAR 75020 304 stainless steel, poly bearings

Springfield Non-Locking Seat Swivel



- 4 mounting hole pattern
- 0° Tilt
- 360° self-lubricated poly bearing swivel
- Stainless steel
- 6-3/4" square x 1-1/8" high

SPR 1100009

Springfield Non-Locking Seat Swivel



- 4 mounting hole pattern
- Non-locking swivel
- 360° self-lubricated poly bearing swivel
- Corrosion-resistant E-coat finish
- 6-3/4" square x 1-1/8" high

SPR 1100007

Springfield Removable Seat Bracket



- Use with a 7" x 7" swivel or pedestal
- Marine grade plastic

SPR 1100015

Springfield Seat Mount & 7" Swivel Combo



Combination of the 1100007 swivel & 1100015 bracket in one package.

SPR 1100115

Springfield Seat Swivel



- Locking swivel rotates 360°
- With 4 hole mounting pattern
- Handle length: 6.5"
- H: 6-3/4" x W: 6-3/4" x D: 1-1/8"

SPR 1100018

Swivl-Eze Seat Swivel

NEW



- Rotates 360 degrees, with zero degree tilt
- Black powder coat finish
- 5-1/4" mounting hole pattern
- 6-1/4" square

SWI 17720

Garelick Clamp-On Seat Swivel



- All metal design
- Quick mounting and dismount
- 360° self-lubricated poly bearing swivel
- Vinyl covered clamps
- Adjusts from 8" to 18"
- Plate dimensions: 6" x 6"

GAR 75007 **
** While Stock Lasts

Springfield Jon Boat Seat Clamp



- Adjustable seat clamp to fit most bench seats
- E-coated steel to resist corrosion
- Adjustable 8"-20.5" with swivel
- 360° ball bearing swivel, 6-7/8" square
- 4 hole mount pattern

SPR 1104010

Garelick Low Profile Seat Slides

Common Features
- Allows helm or boat seats to adjust fore and aft
- Slide mounts under seat in between seat and pedestal base
- Convenient handle provides solid locking at any position
- Compatible with most 360° spiders
- Wobble-free design/operation
- Anodized aluminum with stainless steel hardware

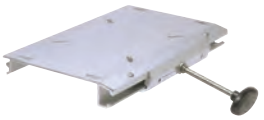
75091 : Full Length Size for roto-molded seats. For low profile installations where slide mounts directly to deck.



- 7" (18cm) fore and aft travel
- W: 8.5" x L: 13" x H: 1.63"
- Lock handle is angled upward

GAR 75091

75081 : Full Length Size for roto-molded seats. For use on any seat needing reinforcement underneath.



- 7" (18cm) fore and aft travel
- W: 8.5" x L: 13" x H: 1.63"
- Required on all Roto molded seats

GAR 75081

75080 : Standard Size for wood or plastic seats.
- 6" (15cm) fore and aft travel
- W: 8.5" x L: 8" x H: 1.63"



GAR 75080
Parts:
GAR 06.388 Locking Handle 6"

Springfield Heavy Duty Rails



- Slide rails for large seats
- High-strength aluminum
- Travels 7" fore and aft
- L: 12" x W: 2-1/2" x H: 2"

SPR 3100534-L3M

Springfield Quick Seat Mount



- Easy to install and remove from boat
- Travels 6-1/2" side to side
- Locking mechanism prevents tipping forward in sudden stop situations

SPR 1100017

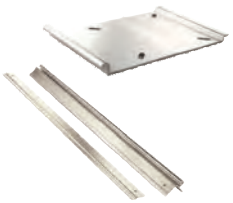
Swivl-Eze Rail Seat Mount



- Great for mounting seats in Jon boats
- Constructed of quality aluminum
- 15" rails

SWI SP-15900

Swivl-Eze Bench Style Seat Mount



- Great for mounting seats in Jon boats
- Constructed of quality aluminum
- 4 hole mount pattern

SWI SP-15100 Seat plate only, 10" x 7" x 1"
SWI SP-15200 30" locking guide rails

Wise Universal Mounting Plate



- 4 x 1/2" pre-drilled & 4 x 1/4" counter sunk holes
- 1/2" polyethylene construction
- Fits most marine seats and hardware

WIS 8WD399-710 **
** While Stock Lasts

Garelick Low Profile Locking Seat Swivel



- Standard seat hole pattern
- Convenient handle provides solid lock at any position
- 8 position locking swivel, locks in at 45º increments or free swivels
- Anodized aluminum for added protection from saltwater corrosion
- W: 8.5" x L: 8" x H: 4"

GAR 75096

Garelick Slide with Swivel



- Low profile seat slide with locking swivel
- Allows helm or boat seats to ajust fore and aft
- Provides 6" fore and aft travel
- Free swiveling or locks every 45°
- Spider swivel casting not included
- Wobble-free design/operation
- Anodized aluminum with stainless steel hardware
- Fits standard seat hole pattern (5-5/8" - 6" centre)
- L: 13" x W: 8.5" x H: 3.875"

GAR 75090

Garelick Combination Seat Slide & Swivel Spider



- Fore & aft travel, 360º seat rotation
- Wobble free design
- Compatible with any 2-7/8" dia tube
- Convenient handles provide solid locking at any position

GAR 75083S Fluted/Smooth, Satin

Garelick 360º Swivel Positive Seat Mount Tops

- Provides full circle rotation for seating
- Secondary twist control drag affords selected drag for rotation
- Internal delrin bearing cup engages in 10º increments for positive lock when tightening
- Dual quick lock handles - lever actuated, provides stable wobble free support; positive lock engages immediately
- Fits most 2-7/8" dia stanchion bases
- Meets ABYC-H31, Type A seating standards

99026



GAR 99026 Fluted
GAR 99036 Smooth
Parts:
GAR 99027 Bearing cup for 99025/26
GAR 99127 Bearing cup for 99036/22000

Garelick Millennium 2000 Seat Slides



21000

- Smooth fore and aft travel and 360º seat rotation
- Compatible with 2-7/8" dia tube
- Smooth positive lock action slide - convenient spring loaded lock and release lever (left or right)
- Secondary twist control drag handle affords selective drag for rotation
- Positive quick lock engages immediately

GAR 21000 Fluted, left
GAR 22000 Smooth, left
GAR 22001 Smooth, right

Garelick Anodized Spider Top



- 4 prong spider swivels 360º and locks
- Fits most 2-7/8" dia stanchion bases

GAR 99023S Fluted/Smooth, Satin
Parts:
GAR 99028 Bearing cup for 99023

Garelick Reinforcement Plate



For roto molded seats when a fore and aft seat slide is not used. Accepts 99023, 99025, 99026 and 99036 swivels.

- 13" x 7-3/4" x 3/16"
- Mounting holes 12-1/2" x 5"

GAR 99070 **
** While Stock Lasts

Garelick Fixed Height Pedestals





- Solid base support for a variety of seat hardware
- Mounts fore and aft seat slides and 360º spider combinations
- 2-7/8 diameter post

GAR 75431S	9"	Smooth, Satin
GAR 75430S	12"	Smooth, Satin
GAR 75415S	15"	Smooth, Satin
GAR 75432S	18"	Smooth, Satin
GAR 75434-S	30"	Smooth, Satin
GAR 75531S	9"	Fluted, Satin
GAR 75530 **	12"	Fluted
GAR 75530S	12"	Fluted, Satin
GAR 75532S	18"	Fluted, Satin
GAR 75533S	24"	Fluted, Satin
GAR 75534S	30"	Fluted, Satin

** While Stock Lasts

Garelick Adjustable Height Seat Bases



- Standard Friction Lock
- Seat rises and lowers, locking in at desired height
- 2-7/8" dia. stanchion tube, 9" dia. base plate
- Anodized protective finish helps prevent saltwater corrosion and weathering.

GAR 75436-GS	12" - 17"	Smooth, Satin
GAR 75437-GS	18" - 24"	Smooth, Satin
GAR 75535S	12" - 18"	Fluted, Satin

Garelick Adjustable Height Seat Bases



- Positive Pin Type Lock
- Stainless steel locking pin in secures base at specific 1" increments
- Anodized protective finish helps prevent saltwater corrosion and weathering
- 2-7/8 diameter post

GAR 75438-GS	12" - 17"	Smooth, Satin
GAR 75628 **	18" - 24"	Fluted
GAR 75628-GS	18" - 24"	Fluted, Satin
GAR 75635S	12" - 17"	Fluted, Satin

** While Stock Lasts

Springfield Stainless Adjustable Mainstay Pedestal



- 4" locking adjustable pedestal with 12" round base
- 316 stainless steel with mirror finish
- Rim welded for maximum strength
- 650 Newton air cylinder

SPR 1270646-SS * 18"-28"
* Special Order - may have stock

Garelick Gas Rise Pedestals



75637

- Touch activated lever, gas rise
- High tensile aluminum construction
- Precision fit, no wobble 2-7/8" dia. pedestal base with Millennium Slide and Swivel

GAR 75636-GS Low 12" - 15", Satin
GAR 75637S Medium 14" - 18", Satin

Garelick Adjustable Seat Base


75435

- Stainless steel lock pin secures to base in 1" increments
- Positive lock spider rotates 360°
- Fluted bearing cup fits into matching ribbed stanchion profile

GAR 75435 ** 12" - 17"
GAR 75435S 12" - 17", Satin
** While Stock Lasts

Springfield Seat Pedestals



- 7" x 7" square base and seat mount
- Rugged, all steel construction with e-coat protection
- For use with standard boat seats

SPR 1561106 13", fixed
SPR 1561107 12"-18", adjustable

Wise Seat Pedestals



- Black painted steel pedestals
- Base dim: 6-7/8" x 6-7/8"

WIS 8WD1251 ** 7"
WIS 8WD1250 ** 13"
** While Stock Lasts

Springfield Plug-In Power Rise Pedestal



- High-strength aluminum post
- Includes Trac-LockTM locking or non-locking air-ride swivel
- Fits any 2-3/8" Plug-In base (sold separately)
- Adjusts 13-1/4" to 17-1/4"
- 6 bolt holes, 8" bolt pattern

SPR 1300601-AP

Springfield Adjustable Seat Pedestal



- Uses a sealed gas powered cylinder to supply height adjustment to your helm seat
- Easy to reach handle
- Select height from 14-1/2" to 19-1/2"
- Manufactured for saltwater use
- Anodized finish
- 9" base diameter
- 360° locking swivel

SPR 1250100

Springfield Trac-Loc III Seat Mounts

Swivel Only, 2-7/8" Series


1100021-L1

- Rotates 360°
- High-strength aluminum with powder coat finish
- Bolt Pattern: 5-1/2" x 5-1/2"
- With bushing and tension knob for snug fit
- Central locking handle easy to reach with left or right hand

SPR 1100021-1 2-7/8" post, non-locking
SPR 1100021-L1 2-7/8" post, locking
Parts:
SPR 2171001 Replacement 2-7/8" bushing

Slide and Swivel, 2-7/8" Series


1100521-L1

- Rotates 360°
- High-strength aluminum
- 7-1/4" x 13" seat mounting platform
- Travels 5-1/4" forward and backward on self-lubricating pads
- Central locking handle easy to reach with left or right hand

SPR 1100521-1 2-7/8" post, non-locking
SPR 1100521-L1 2-7/8" post, locking
Parts:
SPR 2171001 Replacement 2-7/8" bushing


1100031-L1

Swivel Only, 2-3/8" Series


1100031-1

- Rotates 360°
- High-strength aluminum with powder coat finish
- Bolt Pattern: 5-1/2" x 5-1/2"
- With bushing and tension knob for snug fit

SPR 1100031-1 2-3/8" post, non-locking
SPR 1100031-L1 2-3/8" post, locking
Parts:
SPR 2171000 Replacement 2-3/8" bushing

Slide and Swivel, 2-3/8" Series


1100531-1

- Rotates 360°
- High-strength aluminum
- 7-1/4" x 13" seat mounting platform
- Travels 5-1/4" forward and backward on self-lubricating pads
- Adds 1-1/4" to height of pedestal

SPR 1100531-1 2-3/8" post, non-locking
Parts:
SPR 2171000 Replacement 2-3/8" bushing

Springfield Heavy Duty Mainstay Pedestal



- Power assisted adjustments from 15" to 20"
- Energy absorbing urethane mount between post and base
- Four rotational locking positions
- Rigid keyed aluminum extrusion design
- Convenient front operating handle for height adjustment
- Anodized for maximum corrosion protection
- Includes swivel/mount #1100521-1
- Three year warranty

SPR 1250301 Hydraulic pedestal with slide

Springfield Tru-Lock 1000 Slide and Swivel



- Rotates 360°; pivot handle rotates with chair
- Large pivot area for stability
- 7-1/4" x 13" platform
- Travels 5-1/4" forward and backward, with 8 locking positions
- Universal upper mounting pattern: 5" x 5" and 5" x 12"
- Easy to install and remove with separate lower mounting plate (mounting pattern 4" x 5-5/8")

SPR 1100360

Springfield Mainstay Pedestals



- 2-3/8" pedestal with 9" round base, and anodized finish
- Air-powered height adjustment
- Available with locking Trac-Lock swivel or slide & swivel
- 6 bolt holes, 8" bolt pattern

SPR 1250206-L	10"-12", swivel
SPR 1250256-L	10"-12", slide and swivel
SPR 1250200-L1 *	12"-15", swivel
SPR 1250250-L1	12"-15", slide and swivel

* Special Order

Springfield Pedestal with Slide and Swivel



Package includes:

- 12" pedestal with 9" round anodized base
- 2-7/8" high-strength anodized aluminum post
- H: 15" x W: 12-1/4" x D: 12-1/4"
- Available with locking Trac-Lock slide and swivel

SPR 1240716-L

Springfield Clipper Pedestal



- 2-3/8" adjustable pedestal with 10" round base
- Anodized finish
- Manually adjustable from 13" to 18" in one inch increments
- Includes non-locking Trac-Lock swivel

SPR 1440334

Springfield Plug-In Stand Up Package



- Power-Rise Stand-Up post (#1303013), 22-1/2" to 29-1/2"
- Overall height: 33" to 40"
- Quik-Tilt seat mount (#1615254-EC)
- Gray Pro Stand-Up Seat (#1040213)
- Fits any 2-3/8" Plug-In base (sold separately)

SPR 1301037

Springfield Plug-In Pedestal Package



Package includes:

- Trac-lock locking swivel seat mount (1100031-L1)
- Plug-in fixed height post, anodized finish
- Plug-in 9" diameter base with satin finish (1300750-1)

SPR 1300712-L1 Package

Parts:

SPR 1300712	2-3/8" post only, 12"
SPR 1300713	2-3/8" post only, 13"
SPR 1300750-1	Base only, 9"

Springfield Thread-Lock Pedestal Package



Package includes:

- Thread-Lock 13" fixed height post (3793013-A)
- Trac-Lock non-locking swivel seat mount (1100031-1)
- Thread-Lock 9" base (3790001-SL)

SPR 1793313 Package

Springfield Belle Adjustable Seat Pedestal



- Adjustable post / 10" base / seat mount
- Adjusts from 13" to 17" (easy grip handles)
- Rotates 360°
- Fits standard boat seats
- Corrosion-resistant powder-coat finish

SPR 1440248

Springfield Posi-Locking Manual Posts



- 2-3/8" inner post with 2-7/8" locking adapter
- Adjusts in 1" increments
- 9" round anodized base
- Use with 2-7/8" Trac-Lock slide or swivel
- Second generation

SPR 1240748-MLNS	11-7/8" to 14-3/4"
SPR 1240749-MLNS	15.25" to 21.2"

Springfield Taper-Lock Posts



- 2-3/8" manual adjustable post, with posi-lock system
- Adjustable height
- Trac-lock non-locking swivel (1100031-1)
- Use with any taper-lock base (sold separately)

SPR 1603825	13"-16", with swivel
SPR 1603824	21"-31", with swivel

Springfield Taper-Lock Power Rise Pedestal



Allows for easy removal from its base yet remains firmly in place when required.

- 2" or 2-3/8" dia. Taper-Lock posts
- Trac-Lock III swivel seat mount
- Down: 13" from deck to top of seat mount
- Up: 19-1/8" from boat deck to top of seat mount
- Available with seat lock

SPR 1601002-L 2-3/8", with locking cam

Springfield Taper-Lock Post



- 2-3/8" Diameter
- Polished finish
- Additional post lengths available
- Use with 2-3/8" trac-lock, non-locking swivel (1100031-1) (sold separately)
- Use with any Taper-Lock base (sold separately)

SPR 1600610 13"

Springfield Taper-Lock Bases



- For use with Taper-Lock pedestals
- Aluminum with a satin finish
- Diameter 9"

SPR 1600003 Flush mount
SPR 1600010 Surface mount

Garelick Detachable Stanchion Plate



- Plate mounts to deck surface for base attachment
- Allows base and seat to be removed
- 9.25"(23 cm) diameter machined anodized aluminum, 3 stainless cap screws, and allen wrench included

GAR 75056-GS Satin

Springfield Kingpin "Hi-Lo" Series Pedestals



- Two position removable seat pedestals
- 1-3/4" diameter post and reinforcement ring
- 3/4" sockets
- Satin finish

SPR 1610411-A 11"
SPR 1610415-A 15"

Springfield Kingpin Standard Post



- 1-3/4" diameter post and reinforcement ring
- 3/4" sockets
- Anodized finish

SPR 1610413-A 13"

Springfield Kingpin Hi-Lo 3-Piece Package



- 11" Standard post, satin finish
- Hi-lo swivel, E-coat finish
- 1-3/4" diameter post and reinforcement ring
- 7" X 7" standard base, satin finish
- Deck mount, requires a 2-1/2" hole in deck
- Depth of cup: 3"
- Overall height: 12-3/4"

SPR 1615431-1

Springfield Kingpin Power Rise Pedestal



- Adjustable height to be used as a seat or leaning post
- 1-3/4" diameter post and reinforcement ring
- Rotates 360°, adjusts from 16" to 22-3/8"
- Use with standard Kingpin base (sold separately)

SPR 1612401-A

Springfield Kingpin Power-Rise Package



- Power-rise stand-up pedestal (24-3/4" to 31-1/2")
- Quik-tilt seat mount (1615254-EC)
- Grey pro stand-up seat (1040213)
- 1-3/4" diameter post and reinforcement ring
- Use with any standard Kingpin base (sold separately)

SPR 1611433

Springfield Kingpin Seat Mount



- For use with Kingpin posts and pedestals
- Provides a full 360° rotation and 3-degree lean-back angle
- Plated steel with heavy spring
- 1-3/4" diameter post and reinforcement ring

SPR 1615201-EC

Springfield Kingpin Bases



1620001

For use with Kingpin posts and pedestals.

- Stainless steel construction
- Plastic bushing

SPR 1620001 7" x 7"
SPR 1620004 6" x 8"

Springfield Regatta Pedestals



- 2-7/8" locking pedestal with 9" low-profile base combination
- For use with any 2-7/8" locking Trac-Lock or Cam-Lock (sold separately)
- Permanent mold base made from high magnesium content aluminum for corrosion resistance

SPR 1280104-SAL1 4.5" Anodized
SPR 1280106-MAL 6" Anodized

Springfield Brite Bolster Seat Hinges



- Converts your seat from a sit-down to a stand-up
- Brite dip aluminum offers durability

SPR 1042501-BD1 Pair

Tempress Universal Seat Stand



- Wide base for stability
- Rubber coated feet won't damage floors or slip
- L: 22.5" x W: 22.5" x H: 15"
- 1.5" square aluminum tubing, powder coated black

TMP 90113

Swivl-Eze Lakesport 238 Series

- 2-3/8" posts and 9" diameter machined bases
- Ergonomic positive-locking handles with S/S components
- Engineered to exceed ABYC standards
- Hard anodized aluminum base pedestal tubes
- Bead blasted finish pounds the aluminum surface and closes up porosity



818440



818441

Seat Mounts

- 3° tilt
- Anodized aluminum

SWI 818440 "AN" Non-Driver Position
SWI 818441 "AO" Driver Position

Fixed Height Bell Pedestal w/Seat Mount



- Anodized aluminum

SWI 238913LSM1 13"

Manual Adjustable Height Bell Pedestal w/Seat Mount



- Anodized aluminum

SWI 2385400 14" to 20"

Swivl-Eze 238 Series

- 2-3/8" hard anodized aluminum pedestal tubes
- Aluminum bases are bead-blasted and clear coated
- Stainless steel springs
- Slider has gear-tooth lock mechanism; locks solidly, disengages easily
- Slider rides smoothly on acetal linear bearings
- Ergonomically designed handles are easy to reach



238143-7



238152-1

Seat Mounts Without Slider

- 3° tilt

SWI 238152-1 Black powder coated steel, right handle
SWI 238153-1 Black powder coated steel, forward handle

Seat Mount With Aluminum Slider



SWI 238164-1 ** 0° tilt, right handle
** While Stock Lasts

Fixed Height Extension Posts



SWI 238609-1 9" fixed
SWI 238611-1 11" fixed
SWI 238612-1 12" fixed
SWI 238613-1 13" fixed
SWI 238615-1 15" fixed

Pro Pole Extension Post

SWI 238027-1 27"

238027-1

238512-1

Adjustable Height Power Pedestal

SWI 238512-1 13" - 16.5", bulk

Socket Bases



- Bases are interchangeable between LakeSport 238 Series and 238 Series.



SWI 238312-1 9" round
SWI 238322-1 9" D-shape
SWI 238300-1 Base splash guard, plastic

Pedestal Kits



23811-7

- Black powder coat seat mount
- Anodized post

SWI 23811-7 11" Post, 9" round base
SWI 23813-7 13" Post, 9" round base

Swivl-Eze 278 Air System Series

- Heavy-duty casting easily supports popular oversized helm seats
- Rigid mount and wider seat interface creates pedestal robustness
- Improved slider motion facilitates easy fore and aft movement
- Dampening gas spring absorb impact

Seat Mount



- Composite, 3° tilt

SWI 278AO3AM-1

Seat Mounts With Slider



- Aluminum
- With friction control
- 3° tilt

SWI 278AO3AGL-1 Long handle
SWI 278AO3AGS-1 Short handle

Air Pedestal Base - Below Deck



- Aluminum
- Extends 2.75" below deck

SWI 278AOP0912-BD-1 9"-12"

Air Pedestal Bases



- Aluminum

SWI 278AOP1215-1 12"-15"
SWI 278AOP1519-1 15"-19"

Swivl-Eze Lock'N-Pin 3/4" Pin Series

- The 3/4" system gives you outstanding economical performance
- Lock'n-Pin prevents unintentional detatchment
- The patented Lock'N-Pin system leads the industry in safety
- Lock'N-Pin prevents unintentional detachment for seats

Seat Mount



- Black E-coated
- 3° tilt
- 2.75" steel pin w/spring

SWI SP-1002

Adjustable Height Post - Power Pedestal



- Brushed aluminum
- Non-threaded, steel pin

SWI 3004-R 15" - 18"

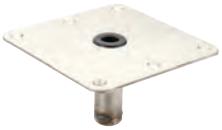
Adjustable Height Post - Manual



- Brushed aluminum
- Pro Post
- Threaded steel pin

SWI 2244-ADJ-T 25" x 31"

Base



- Stainless steel
- Non-threaded, Acetal bushing

SWI SP-67739 7" x 7"

Pedestal Package



- 11" brushed aluminum post
- E-coated seat mount
- 7" x 7" non-threaded aluminum base

SWI 97749-7

Garelick Swivel Stanchion Foot Rest



- Solid aluminum casting
- Fits on 2-7/8" stanchion
- Adjusts for desired height
- No slip strip surface on foot rest

GAR 75004S Satin finish

Garelick Foot Rest/Cockpit Steps





- Heavy duty wrap around aluminum extrusion with brushed anodized aluminum finish
- Use with helm seats as a foot rest or as a boarding step mounted inside the coaming
- W: 7-1/2" x W: 15" x D: 8-1/4"

GAR 27415 White polymer step
GAR 27515 Teak step

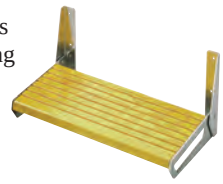
Garelick Foot Rest/Cockpit Step



- Heavy duty wrap around aluminum extrusion with brushed anodized aluminum finish
- 4 Positions provides 5" of vertical height adjustment
- Angled 18° down for a comfortable foot rest position
- H: 7-1/2" x W: 15" x D: 8-1/4"

GAR 27516 Teak

Garelick Foot Rest/Cockpit Step



- Used in conjunction with Helmsmen Seats
- Can be used as cockpit step when boarding
- Sturdy aluminum stamping supports
- Varnished traction grooved step
- Folds up when not in use
- W: 15" x H: 7-1/2" x D: 8-1/2"D

GAR 26015 Oak treads

Garelick Foot Rest/Cockpit Step



- Black vinyl construction
- Use with helm seats as a foot rest or as a boarding step mounted inside the coaming
- W: 15" x H: 7-1/2" x D: 8-1/2"D

GAR 27315

Springfield Drop Down Footrest



- Polished high strength aluminum
- Mounts to bottom of the chair and flips up for out of the way clearance
- 8-1/2" x 13-1/2" platform

SPR 1580030 *
* Special Order - may have stock

Springfield Table Pedestal Kit



- 27" Thread-Lock pedestal package
- 2-3/8" diameter post, anodized aluminum
- High strength black plastic table mount
- 7" diameter aluminum floor base, satin finish with 5-3/4" mounting hole pattern

SPR 1690727-SL

ITC SurFit Table Legs and Bases





Optimum stability for removable tables is provided by the SurFit system. Tapered end cap is permanently affixed to the steel leg. The plastic cap is precision molded to the matching taper of the cast aluminum base creating the tightest fit of any system. The natural lubricity of the plastic makes insertion and removal a simple matter of twist in/twist out. All parts receive a "baked on" black corrosion and chip resistant powder coating.

No.	Description	Dia
ITC 81TL27-BH	27" table leg	2"
ITC 81TR1000-B	Recessed base	6-1/2"
ITC 81TS1000-B	Surface base	6-1/2"

Garelick Adjustable Table Pedestal



- Converts dinettes to berths
- Adjusts to any position from 14-1/2" to 30-3/4"
- 2-7/8" stanchion tubing is welded to 9" diameter cast aluminum base at each end
- In lower position inside tube goes below deck 6"
- Anodized

GAR 75225-S

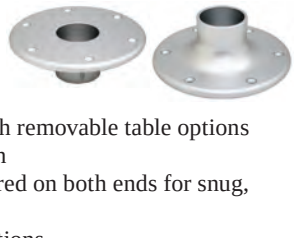
Garelick Table Pedestal



- Fluted anodized finish
- Ideal for dinette/berth applications
- Stable, no-wobble design
- Height range: 14-1/2" to 30-3/4"
- Pedestal descends 6" below deck level when fully retracted

GAR 75325-S

Garelick 2-1/4" Table Pedestals



- Provides smaller boats with removable table options
- All aluminum construction
- Fluted stanchions are tapered on both ends for snug, wobble - free fit
- Flush or surface mount options

GAR 75347	Flush mount post only, 30-1/4" height
GAR 75348	Surface mount post only, 27-5/8" height
GAR 75345-S	Flush mount socket only, 7" dia, Satin finish
GAR 75346S	Surface mount socket only, 7" dia, Satin finish
GAR 99139	Plug cap only

NOTE: Flush mount bases require drilling into deck and extend 2.75" below deck

Garelick 2-7/8" Table Pedestals



- Provides larger boats with removable table options
- All aluminum construction
- Fluted stanchions are tapered on both ends for snug, wobble - free fit
- Anodized satin finish

GAR 75358S	Short post only, 28-3/4" height
GAR 75357S	Long post only, 31-1/2" height
GAR 75355S	Flush mount socket only, 9-1/4" dia
GAR 75356S	Surface mount socket only, 9-1/4" dia,

NOTE: Flush mount bases require drilling into deck and extend 2.75" below deck

Springfield 3-Stage Table Pedestal



- Gas powered pedestal with 12-1/2" table mount and 12" diameter floor base with 11" hole pattern
- Adjusts to any position between 12-3/4" to 28"
- No pumps or power needed - simply release to raise, or push down to lower
- Load capacity 120 lbs (cylinder assists with loads up to 50 lbs)
- Nylon clamping bushings with stainless steel hardware
- 5 year warranty

SPR 1660230

Taco Table Pedestal



- Tapered on the top and the bottom for a secure fit into the base, while also allowing for easy removal and storage
- Fixed 28" height, 3" diameter
- Satin anodized finish, with ribbed design
- Will fit the Z10-4070BLY76MM base

TAC Z769071VEL282

Taco Powermatic Table Supports

Table support
- 2-3/8" ID, 19-3/4" x 7-1/4"

TAC Z20-3160PCS



Base support
- 3" ID, 9-7/8" Dia. base

TAC Z10-4070BLY76MM



Garelick Quick Release Table Pedestal Systems



75650

- Quick release levers allows effortless take-down of table system for storage
- Deck ring mounts nearly flush with deck for minimal interference when table is stowed
- No need to drill large centre hole in deck as required with other table hardware systems
- Marine grade polymer components resist corrosion
- Stanchion post is 2-1/4" anodized aluminum w/ribbed finish and tapered at both ends
- System height is 27" from deck surface to underside of table top



75640

GAR 75640	Quick Release System: deck ring, socket base, table mounting socket, stanchion tube
GAR 75650	Includes complete Quick Release System (75640) and a 15" x 28" rectangular white polymer table top and two recessed cup holders

Parts:

GAR 75646	Quick release deck ring, 6.25" dia
GAR 75648	Table adapter socket, black



75646

Garelick Side Mount Table Legs

- Bright finish anodized aluminum
- Stainless steel mounting bracket
- Extends 15.625" and elevates 18.5"

GAR 75343-10 Aluminum leg & bracket



75343-10

- Stainless steel finish
- Extends 17.75" and elevates 20.5"

GAR 75342-31 Stainless leg only

GAR 75402 S/S bracket only



75402

► Also See Brackets pg 04-078

► Also See Magma Slide Mount pg 05-018

Springfield Table Package



- Table package includes table top, 27" Threadlock table post (3691027), table base (3690001-SL), and table mount (3660704-L)
- Surface mount
- Table dimensions: 18" x 30" (oval)

SPR 1690106

Springfield Party Platter Table Top Package



- Light-weight, molded heavy-duty marine grade plastic
- Comes with a two piece 2-3/8" post and twist lock base
- Overall height: 31"
- Table: 15-1/2" x 18"

SPR 1690901



Table Base



Floor Base w/cap



Leg

ITC 'Redwood' Table Parts

- 2" diameter anodized aluminum legs
- Floor bases are surface mount
- Bases are powder coated on top and bottom
- Black plastic table base, glass filled for added strength
- Positive snap-on table base with capability to rotate

ITC TL5000-S-27-DB	27" leg - Silver
ITC TS5020-PS	Floor base, 7" diameter - Silver
ITC TS5003-B	Table base, 5" diameter - Black

Sea-Dog Table Brackets



- Stamped 304 stainless steel
- Two wall plates and two table brackets
- Table: W: 3-3/8" x H: 2-1/8"
- Wall: W: 1-3/4" x H: 2-3/4"

SED 221320-1





Camco Bamboo Folding Table

- Attractive natural bamboo top for an "at home" feel
- Aluminum legs fold flat for transportation, and telescope out when in use
- Folds and unfolds in just seconds
- Each leg securely clicks into place when fully extended
- Carrying handle makes it easy to transport
- Top: 31.4" x 23.6", Height: 18"-26"

CAM 51893





Camco Bamboo Folding Table

- Attractive natural bamboo top for an "at home" feel
- Very sturdy design with lightweight telescoping aluminum leg
- Folds flat for easy storage with included bag
- Convenient carrying handle
- Height is adjustable from 18" - 26"

CAM 51895 Table top 25.5" x 19.75", 16 lbs





Camco Aluminum Folding Table

- Lightweight and durable
- Breaks down into three compact parts: a roll-up top, cross bar supports and folding legs
- Comes with a convenient storage bag
- Weather and rust resistant
- Once assembled, the tabletop is 43.3" x 27.7" and stands 32" tall, comfortably seating 4-6 people

CAM 51892



Camco Aluminum Folding Tables

- Folds to only 2" wide for compact storage

CAM 51890 Small, 12" × 10" top, 16.5" tall, supports up to 130 lb
CAM 51891 Large, 18.5" × 12" top, 23.7" tall, supports up to 110 lb



CURT

BOATERS TRUST THE TOWING EXPERTS

MARINE TRAILER JACKS

- Swivels up and out of the way for travel
- 6" wheel for trailer mobility
- Pull-pin keeps jack securely locked in place
- Side-wind handle easily raises or lowers trailer coupler



ROCKERBALL™ TRAILER BALL

- ShockDrop™ Technology dampens jerking and jarring from bumps and potholes for smoother towing
- Reduces shock loads to the vehicle during sudden braking or acceleration



MARINE WINCHES

- Crank-style boat winch for boat trailers or hoisting applications
- Added torque plate prevents handle from rounding out on pinion shaft
- Winches are available in 900 - 1,400 lb. capacities with various sizes and strap options





TRUST THE TOWING EXPERTS | curtmfg.com

LIPPERT

16 - TRAILERING

Boat Stands	Brownell	16-002 to 005
Boat Covers	Carver Boat Covers	16-006 to 010
	Transhield Shrinkable Boat Covers	16-011
	Boat Cover Accessories	16-012 to 013
Trailering	Tie Downs	16-014
	Trailer Jacks	16-015
	Trailer Winches / Winch Straps	16-016 to 018
	Trailer Lights	16-019 to 021
	Trailer Wiring	16-021 to 022
	Trailer Rollers	16-023
	Trailer Parts / Trailer Brakes	16-024 to 030
	Trailer Locks / Wheel Chocks	16-031 to 033
	Motor Supports / Motor Carriers & Carts	16-033 to 034
	Launching Wheels / Dollies	16-034 to 035
Keel Guard	Hull Protection	16-036 to 037
Lettering		16-037



BROWNELL MANUFACTURES THE SAFEST AND HIGHEST QUALITY BOAT STANDS AND EQUIPMENT ON THE MARKET.

MADE IN THE U.S.A.

BROWNELL
BOAT STANDS & EQUIPMENT

Keep your staff, customers and their boats safe. Make sure everyone in your yard goes through **The Brownell Safety Training Program** and receives their certificate of completion. **Go to boatstands.com to sign up.**

BROWNELL SAFETY SYSTEM • QUALITY STANDARDS •

BROWNELL BOAT STANDS & EQUIPMENT ARE MADE IN AMERICA FIRMLY ADHERING TO THE

THE BROWNELL SEVEN STANDARDS OF QUALITY

- Only first-rate American steel
- 60 years of perfected manufacturing techniques
- All products carry a certified safe working load
- Precision Acme #4 threads
- Daily redundant quality control
- 7-ply marine-grade plywood
- Highest-quality casters

BROWNELL
BOAT STANDS & EQUIPMENT

SERVICE STATIONS

- Floor-mounted pedestal base or bench mount base available
- Locking pin secures the unit at 45deg intervals for easy access
- Accommodates lower units up to 400HP and outboards up to 50HP
- Holds lower units, sterndrives, and small outboards for seasonal maintenance or repairs





IBEX 2025 INNOVATION AWARDS WINNER

Boat Lift Systems

- BL8 hydraulic or BL8AIR pneumatic boat lift system
- Lifting range 27" – 59"
- Capacity at horizontal extension: 8,000 lbs at 10", 6,000 lbs at 14", 4,000 lbs at 18"





- BL3 hydraulic or BL3AIR pneumatic boat lift system
- Lifting range 20"-50"
- SWL 3,000 lb capacity per jack

2026 Catalog is live on our website!

Visit our website and view our 2026 catalog with our full product line of stands and shop equipment

SD3 HEAVY DUTY DRIVE JACK

- Ideal for outboard lower units or stern drives
- Adjusts on three axes for easy installation or removal
- Cart handle provides easier maneuverability and additional leverage



STERN DRIVE RACKS

- SD1 single unit drive rack with 500lb capacity
- SDR4 four unit drive rack unit with 2,500lb capacity



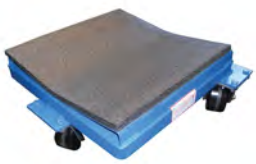


BOAT DOLLIES





- Dollies for small craft, pontoon boats and motorboats of various sizes up to 35,000lbs
- High quality casters
- Phenolic, iron and poly wheel options for various surfaces







BROWNELL
BOAT STANDS & EQUIPMENT



Brownell Adjustable Boat Stands

These strong, steel, adjustable stands eliminate the need for cumbersome cradles and wooden shoring. Use wooden keel blocks to support the weight of the boat and Brownell stands to stabilize. The stands nest together making storage easy.

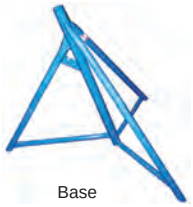
For full stand, order both Base and Top.



VEE TOP-16, 22, 27



FLAT TOP 27, 16



Base



Sailboat

	Full Stand		Top Only	Length / Top	Base Only	Height	Weight
Size 4 Flat	24" to 36"	30 lbs	**BBS FLAT-TOP-22**	23" Flat / Grey	**BBS SB-4BASE**	20"	14 lbs
Size 3 Flat	35" to 52"	39 lbs	**BBS FLAT-TOP-27**	27" Flat / Orange	**BBS SB-3BASE**	31"	21 lbs
Size 2 Flat	48" to 65"	46 lbs	**BBS FLAT-TOP-27**	27" Flat / Orange	**BBS SB-2BASE**	44"	28 lbs
Size 1 Flat	64" to 79"	54 lbs	**BBS FLAT-TOP-27**	27" Flat / Orange	**BBS SB-1BASE**	60"	36 lbs
Size 4 Vee	24" to 36"	30 lbs	**BBS VEE-TOP-22**	23" Vee / Grey	**BBS SB-4BASE**	20"	14 lbs
Size 3 Vee	35" to 52"	39 lbs	**BBS VEE-TOP-27**	27" Vee / Orange	**BBS SB-3BASE**	31"	21 lbs
Size 2 Vee	48" to 65"	46 lbs	**BBS VEE-TOP-27**	27" Vee / Orange	**BBS SB-2BASE**	44"	28 lbs
Size 1 Vee	64" to 79"	54 lbs	**BBS VEE-TOP-27**	27" Vee / Orange	**BBS SB-1BASE**	60"	36 lbs

For full stand, order both Base and Top.



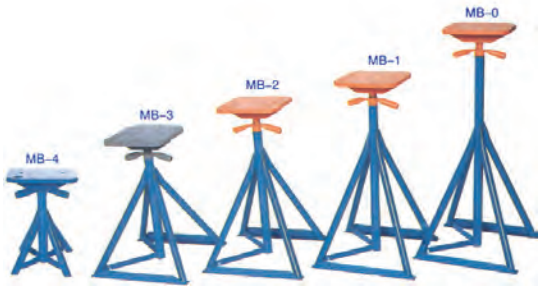
VEE TOP-16, 22, 27



FLAT TOP 27, 16



Base



Motorboat

	Full Stand		Top Only	Length / Top	Bottom Only	Height	Weight
Size 4 Flat	18" to 25"	21 lbs	**BBS FLAT-TOP-16**	16" Flat / Blue	**BBS MB-4BASE**	14"	8 lbs
Size 3 Flat	25" to 38"	34 lbs	**BBS FLAT-TOP-22**	23" Flat / Grey	**BBS MB-3BASE**	21"	18 lbs
Size 2 Flat	29" to 46"	37 lbs	**BBS FLAT-TOP-27**	27" Flat / Orange	**BBS MB-2BASE**	25"	19 lbs
Size 1 Flat	33" to 50"	38 lbs	**BBS FLAT-TOP-27**	27" Flat / Orange	**BBS MB-1BASE**	29"	20 lbs
Size 0 Flat	41" to 58"	39 lbs	**BBS FLAT-TOP-27**	27" Flat / Orange	**BBS MB-0BASE**	37"	21 lbs
Size 0X Flat	54" to 72"	46 lbs	**BBS FLAT-TOP-27**	27" Flat / Orange	**BBS MB-0XBASE**	50"	28 lbs
Size 4 Vee	18" to 25"	21 lbs	**BBS VEE-TOP-16**	16" Vee / Blue	**BBS MB-4BASE**	14"	8 lbs
Size 3 Vee	25" to 38"	34 lbs	**BBS VEE-TOP-22**	23" Vee / Grey	**BBS MB-3BASE**	21"	18 lbs
Size 2 Vee	29" to 46"	37 lbs	**BBS VEE-TOP-27**	27" Vee / Orange	**BBS MB-2BASE**	25"	19 lbs
Size 1 Vee	33" to 50"	38 lbs	**BBS VEE-TOP-27**	27" Vee / Orange	**BBS MB-1BASE**	29"	20 lbs
Size 0 Vee	41" to 58"	39 lbs	**BBS VEE-TOP-27**	27" Vee / Orange	**BBS MB-0BASE**	37"	21 lbs

Parts:

BBS O-PLY Orange top plate only

Do's and Don'ts List

The following is a list of Do's and Don'ts to insure that safety is not being compromised. This list should in no way be construed as totally complete to all users of boat stands due to the infinite variables of application, but rather should be in addition to safety precautions already taken.

1) Do not use boat stands to suspend a boat in mid-air.
2) Use blocking along center line of the boat to rest all the weight on.
3) Use the safety chains on all side sailboat stands, chaining the pairs together from port to starboard.
4) Never allow anyone other than qualified, experienced, or authorized persons to move or adjust boat stands when in use.
5) Use a pair of boat stands, one placed port and one placed starboard for each 8' of boat's length.
6) Use extra boat stands when used for fin keel and/or bow-heavy sailboats.
7) Never allow anything (such as canvas) to be tied to the boat stand.
8) Use boat stands on firm, stable ground.
9) In windy or open areas, remove masts when boats are placed on boat stands.
10) Apply boat stands so the adjusting screw is as perpendicular to the hull as possible when they are outboard.
11) Replace any boat stand that is damaged or rusted badly.
12) Keep screws greased.
13) If it is necessary to remove a boat stand from under a boat, place another boat stand beside it first.
14) Do not use boat stands for jobs they were not intended for.
15) Do not use boat stands to hold boats up when in transit (i.e. on a truck or trailer).
16) If boats are left on boat stands unattended for a long time, they should be checked for security and locked.
17) Use plywood under boat stands if the ground is soft.
18) Use a V-stand under the bow of all fin keel sailboats.
19) Use a V-stand under the stern of stern heavy or fin keel sailboats.
20) Do not place blocks on top of boat stands to increase their reach.

Brownell Stackable Keel Stands

For full stand, order both Base and Top.

Full Stand			Top Only	Top	Bottom Only
Size 4 Flat	15" to 24"	22 lbs	BBS K-TOP	Flat-Top	BBS K-4BASE
Size 1 Flat	20" to 32"	36 lbs	BBS K-TOP	Flat-Top	BBS KS1-BASE
Size 28 Flat	28" to 42"	37 lbs	BBS KF-TOP	Flat-Top	BBS KS28 BASE
Size 1 Vee	20" to 32"	36 lbs	BBS KV-TOP	V-Top	BBS KS1-BASE
Size 28 Flat	28" to 42"	37 lbs	BBS KV-TOP	V-Top	BBS KS28-BASE


K-4


KS1-V


KS28V

Brownell Bow / Stern Boat Rack Stands


BRS


BRB

- Load rated: 20,000 lbs per set

Part #	Type	H x W x D	Weight
BBS BRB16	Bow	16" x 24.5" x 30"	69 lbs
BBS BRB	Bow	28" x 24.5" x 30"	69 lbs
BBS BRS41	Stern	31.5" x 41.5" x 30"	75 lbs

Brownell Tall Stern Rack



- For use with forklifts and hydraulic trailers
- Compact for storage when not in use
- Can be used with boat stands on each side for extra stability
- Capacity: 20,000 lb each
- Dimensions: 54" x 41.5" x 48"
- Weight: 126 lb

BBS BRS41X *

* Special Order - may have stock

Brownell Hydraulic Boat Lift



- Powered by hydraulic jacks for smooth and easy operation
- Lifting range: 20" - 50"
- Adjustable base and arm
- Safety pins for added protection
- No-flat 10" tires and hand grip for easy mobility
- Capacity: 3,000 lb per jack; complete system utilizes four jacks
- Weight: 263 lbs

BBS BL-3

Brownell Dispensing Dolly



- Convenient, mobile rack for dispensing rolled materials, including shrinkwrap, fibreglass, carpet, and more
- Holds four 200 lb rolls
- No-flat tires
- 72" x 36" x 48"
- 208 lbs

BBS SWD1 *

* Special Order - may have stock

Brownell Molded Flat Top Pad



- Protection for boat bottom finishes
- Mount to any Brownell stand or adjustable trailer top
- Provides drainage for moisture elimination
- Fasteners included

BBS TLC-PAD

Brownell Boat Dolly



- High capacity boat dolly with four 6" x 2" phenolic wheels with locking casters
- One pair accommodates boats to 8,000 lb
- Dimensions: 39" x 24"
- Height: Min 15" - 21"
- Weight: 84 lb

BBS BD-2 * Each

* Special Order

Brownell Pontoon Dolly



- The safest, most convenient way to display or repair pontoon boats
- Ideal for show rooms, boat shows, repair shops and storage
- Three 4" x 2" phenolic wheels with casters – won't scratch showroom floors
- High density foam surface protects against scratches
- Capacity: 2,000 lb
- Dimensions: 19" x 19.5" x 9"
- Weight each: 30 lb.

BBS PD-2 Pair

Brownell Adjustable Pontoon Dolly



- Increased ground clearance and open centre section allow use with pontoons and tritoons with lifting strakes, foils, and other below-the-waterline control surfaces
- Dual 24" long bunks distribute vessel load
- Adjusts from 2" to 19"
- Corner bumpers for surface protection
- Four 4" x 2" non-marking casters
- Capacity: 2,500 lb
- Dimensions: 24" x 32" x 17"
- Weight: 59 lb

BBS PD-3 * Each

* Special Order - may have stock

CARVER by COVERCRAFT

WHAT MAKES A CARVER BOAT COVER BETTER? **QUALITY.**

TIE-DOWN KIT NOW INCLUDED WITH MOST BOAT COVERS

We Stock Styled-To-Fit® Boat Covers in Sun-DURA® - Mist Gray!

Better known as “semi-custom” covers, Styled-To-Fit® Boat Covers are the best selling, most popular category of covers. Styled-To-Fit® Boat Covers are designed to accommodate all popular hull styles and boat configurations. The cover is not “custom” to the specific boat, but a highly fitted cover designed to accommodate the primary characteristics of the boat style. Styled-To-Fit® Boat Covers are great for travel*, mooring and storage.

Search Carver’s Online Selection Guide to Find Your Styled-To-Fit® Boat Cover Part Number
www.CarverCovers.com





All Carver Boat Covers Feature:

- Join seams are folded four-ply, no raw edges
- Double stitch construction for added strength and durability
- Weather-resistant anti-wick thread used throughout construction
- Double reinforced tie-down loops sewn into hem for the purpose of tying the cover down
- All covers are designed and engineered in Landrum, South Carolina and all of our production takes place in our state-of-the-art manufacturing facilities so we are able to ensure the quality and promptness of each and every product that carries the Carver by Covercraft name.

Styled-To-Fit® Boat Covers Feature:

- 1/4” strong & durable shock cord encased into hem for a snug fit
- A motor cover is sewn into outboard model boat covers
- Tie-down kit included with most boat covers
- Trailerable*

Sun-DURA® Features:

- 100% Solution-Dyed Marine Polyester, 600 Denier x 600 Denier, 7.6 oz.
- Sun-DURA® colors are part of the polyester fiber itself so the color goes completely through the fiber instead of being just on the surface
- Breathable to help allow interior moisture to escape
- 100% Polyurethane Finish Coating
- Excellent UV and mildew resistance
- Excellent resistance to fading and rot
- Extremely water repellent
- Excellent sun blockage
- Excellent against cold-cracking
- 7 Year Limited Warranty

Mist Gray
Color Code: -11

Additional fabric & color options available by special order

*Trailerable boat covers must be properly installed and tied down. Tie-Down Kit now included (12 straps). If your cover is 20’ or larger, an additional tie-down kit (sold separately, see part number 61000) is highly recommended to properly secure your cover.

Canadian Drop Ship Program

Out of stock? No problem! All non-stock Carver covers, including Custom-Fit Boat Covers, are available by special order. Shipment is via FedEx International Economy for delivery in 2-3 business days from date of shipment. Don’t miss a sale!

Follow this link from the Western Marine website for approximate dealer cost and part number:
dealerguide.carvercovers.com

Call Western Marine for an exact cost and lead time.

Protecting The Things That Move You®

CARVER by COVERCRAFT

Trailerable Flex-Fit™ PRO Universal Boat Cover

- Strong and durable Poly-Flex II 5.3 oz. solution-dyed polyester with a urethane coating. Superior in water repellency, fade resistance, mildew resistance, and breathability
- Heavy-duty 1/4" shock cord sewn into hem for a snug fit
- Double stitch construction and reinforced tie-down loops for added strength and durability
- Weather resistant anti-wick thread throughout construction
- Join seams are folded 4-ply, no raw edges
- 3 Year Limited Warranty





Description	Centerline	Beam	Flex-Fit™ PRO Order No.
V-Hull Fishing Boats V-Hull Narrow Bass Boats Jon Boats Open Jon Boats Drift Boats	14' - 16' 14' - 16' 14' - 16' 14' - 16' 14' - 16'	78"	CAR 79001
V-Hull Runabouts I/O or O/B Tri-Hull Boats I/O or O/B Tri-Hull Bass Boats	14' - 16' 14' - 16' 14' - 16'	86"	CAR 79002
Fish & Ski Boats I/O or O/B Wide Bass Boats Tournament Ski Boats	16' - 19' 16' - 19' 16' - 19'	96"	CAR 79003
V-Hull Boats I/O or O/B Tri-Hull Boats I/O or O/B	17' - 19' 17' - 19'	96"	CAR 79004
V-Hull Runabout Boats I/O or O/B	20' - 21'	102"	CAR 79005
V-Hull Runabout Boats I/O or O/B	22' - 23'	102"	CAR 79010
V-Hull Low Profile Cuddy - Cabin Boats I/O or O/B	19' - 22'	102"	CAR 79006
V-Hull Center Console Fishing Boats *w/ High Bow Rails* V-Hull Center Console Fishing Boats *w/ Shallow Draft Hull* Bay Style Center Console Fishing Boats *w/ Shallow Draft Hull*	17' - 19' 17' - 19' 17' - 19'	102"	CAR 79011
V-Hull Center Console Fishing Boats *w/ High Bow Rails* V-Hull Center Console Fishing Boats *w/ Shallow Draft Hull* Bay Style Center Console Fishing Boats *w/ Shallow Draft Hull*	20' - 22' 20' - 22' 20' - 22'	102"	CAR 79012
Pontoon Boats	20' - 22'	102"	CAR 79009



Poly Flex II - Slate Gray
100% Marine Polyester
Lightweight, strong & good resistance to tearing



Trailering straps included for quick and easy tie-down



Mesh storage bag included



Reinforced tie-down loops for added strength and durability



Durable and water repellent, yet breathable polyester fabric

Carver Styled-to-Fit Boat Covers

To find the Styled-to-Fit boat cover that best fits your boat, measure the centerline and beam of your boat. Then find the boat illustration and description that best matches your boat.

- Sun-Dura fabric; 100% solution-dyed marine polyester
- Grey in colour
- Search Carver's online selection guide to find your styled-to-Fit cover part number. www.carvercovers.com



Carver V-Hull Runabouts - O/B

Cover accommodates hand/bow rails & windshields:
- 14'6" to 15'6" boats - up to 4" hand rails
- 16'6" to 19'6" boats - up to 8" bow rails
- Boats 20'6" and up - up to 12" bow rails

- Attached motor cover

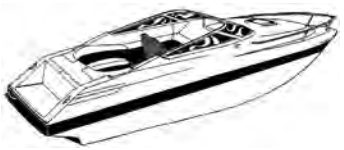
Outboards	Centre Line Length	Beam Width
CAR 77014S-11	14' 6"	74"
CAR 77015S-11	15' 6"	80"
CAR 77016S-11	16' 6"	86"
CAR 77017S-11	17' 6"	90"
CAR 77018S-11	18' 6"	96"
CAR 77019S-11	19' 6"	96"
CAR 77020S-11	20' 6"	102"



Carver V-Hull Runabouts - I/O

Stern Drives	Centre Line Length	Beam Width
CAR 77116S-11	16' 6"	86"
CAR 77117S-11	17' 6"	90"
CAR 77118S-11	18' 6"	96"
CAR 77119S-11	19' 6"	96"
CAR 77120S-11	20' 6"	102"
CAR 77121S-11	21' 6"	102"
CAR 77122S-11	22' 6"	102"
CAR 77123S-11	23' 6"	102"

► *Also See* Cover Accessories pg 16-012 to 013



Carver V-Hull Low Profile Cuddy Cabin Boats - I/O

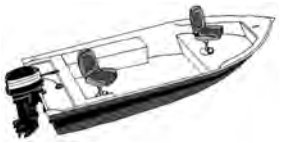
Cover accommodates bow rails:
- 17'6" to 20'6" boats - up to 12" bow rails
- Boats 21'6" and up - up to 24" bow rails

Stern Drives	Centre Line Length	Beam Width
CAR 77719S-11	19' 6"	96"
CAR 77720S-11	20' 6"	102"
CAR 77721S-11	21' 6"	102"
CAR 77722S-11	22' 6"	102"



Carver V-Hull Fishing Boats
No Motor Hood - Wide Series

No Motor Hood	Centre Line Length	Beam Width
CAR 70112S-11	12' 6"	70"
CAR 70113S-11	13' 6"	72"
CAR 70114S-11	14' 6"	72"
CAR 70115S-11	15' 6"	74"
CAR 70116S-11	16' 6"	76"



Carver V-Hull Fishing Boats - Wide Series

- Attached motor cover

Motor Hood	Centre Line Length	Beam Width
CAR 71112S-11	12' 6"	70"
CAR 71113S-11	13' 6"	72"
CAR 71114S-11	14' 6"	72"
CAR 71115S-11	15' 6"	74"
CAR 71116S-11	16' 6"	76"
CAR 71117S-11	17' 6"	85"



Carver V-Hull Fishing Boats - Narrow Series

- Attached motor cover

Motor Hood	Centre Line Length	Beam Width
CAR 70122S-11	12' 6"	60"
CAR 70124S-11	14' 6"	68"



Carver V-Hull Fishing Boats w/Walk-Thru Windshield - Narrow Series

- Coverage is provided for bow mounted trolling motor
- Attached motor cover

Motor Hood	Centre Line Length	Beam Width
CAR 72N16S-11	16' 6"	90



Carver V-Hull Fishing Boats w/Walk-Thru Windshield - Wide Series

- Coverage is provided for bow mounted trolling motor
- Cover accommodates windshield height up to 24"
- Attached motor cover

Motor Hood	Centre Line Length	Beam Width
CAR 72317S-11	17' 6"	100"
CAR 72318S-11	18' 6"	100"
CAR 72319S-11	19' 6"	100"



Carver Aluminum Fishing Boats - Outboards

- For boats with high windshields mounted forward
- Attached motor cover

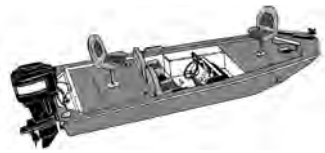
Motor Hood	Centre Line Length	Beam Width
CAR 79017S-11	17' 6"	88"



Carver V-Hull Fishing Boat w/Side Consoles

- Attached motor cover
- Coverage provided for bow mounted trolling motor and side console with windscreen. Accommodates console hight to 14"

Motor Hood	Centre Line Length	Beam Width
CAR 72216S-11	16' 6"	92"
CAR 72217S-11	17' 6"	92"
CAR 72218S-11	18' 6"	92"



Carver Jon Style Bass Boats

- Attached motor cover
- Coverage provided for trolling motor, depth finders, and pedestal seats. Designed for single console. If motor is mounted on a jack plate order one size larger

Motor Hood	Centre Line Length	Beam Width
CAR 77814S-11	14' 6"	68"
CAR 77815S-11	15' 6"	70"
CAR 77816S-11	16' 6"	72"
CAR 77817S-11	17' 6"	74"



Carver Centre Console Bay Style Fishing Boats

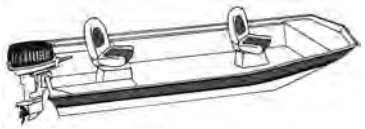
- Covers up to 55" center console and up to 8" bow rails
- Attached motor cover

Stern Drives	Centre Line Length	Beam Width
CAR 71018S-11	18' 6"	94"
CAR 71020P-10 **	20' 6"	96"
CAR 71020S-11	20' 6"	96"

** While Stock Lasts



Carver Open Jon Boats



- Attached motor cover

Stern Drives	Centre Line Length	Beam Width
CAR 74198S-11	10' 6"	58"
CAR 74200S-11	12' 6"	58"
CAR 74201S-11	14' 6"	60"
CAR 74201EXS-11	14' 6"	72"



Carver Whaler Style w/Bow & Side Rails

- Attached motor cover
- Accommodates bow rails up to 12" and will fit boats with a side or centre console

Motor Hood	Centre Line Length	Beam Width
CAR 71613P-10 **	13' 6"	70"
CAR 71613S-11	13' 6"	70"
CAR 71614P-10 **	14' 6"	70"
CAR 71614S-11	14' 6"	70"
CAR 71615S-11	15' 6"	78"
CAR 71616S-11	16' 6"	78"
CAR 71617S-11	17' 6"	78"

** While Stock Lasts



Carver Blunt Nose Inflatable Boats

- Outboard motor will be covered over within the body of the cover. If motor extends past the tubes, add length to the centreline of boat to determine the correct cover size.

No Motor Hood	Centre Line Length	Beam Width
CAR 7INF8BS-11	8' 6"	60"
CAR 7INF9BS-11	9' 6"	60"
CAR 7INF10BS-11	10' 6"	66"
CAR 7INF11BS-11	11' 6"	68"



Carver Pontoons w/Semi-Enclosed Rails

- For Pontoons with rails that partially enclose the deck, leaving a 1' to 3' of deck forward of the front gate and aft of the rear gate
- Designed to accommodate transom-mounted motor, standard ski pylon, and bimini top stored lying flat
- Cover is designed for STORAGE ONLY

	Deck Length	Deck Width
CAR 97622S-02	22' 6"	102"
CAR 97624S-02	24' 6"	102"



Carver Sport-Type Inflatable Boats

- Outboard motor will be covered over within the body of the cover. If motor extends past the tubes, add length to the centreline of boat to determine the correct cover size.

Part #	Centre Line Length	Beam Width
CAR 7INF8S-11	8' 6"	56"
CAR 7INF9S-11	9' 6"	60"
CAR 7INF10S-11	10' 6"	66"
CAR 7INF11S-11	11' 6"	68"
CAR 7INF12S-11	12' 6"	70"
CAR 7INF13S-11	13' 6"	74"
CAR 7INF14S-11	14' 6"	74"
CAR 7INF15S-11	15' 6"	76"
CAR 7INF16S-11	16' 6"	82"



Carver Sport-Type Centre Console Inflatable Boats

- Outboard motor will be covered over within the body of the cover. If motor extends past the tubes, add length to the centreline of boat to determine the correct cover size.
- 1/4" draw rope encased in hem

Part #	Centre Line Length	Beam Width
CAR INFCC13DRS-11	13' 6"	78"
CAR INFCC14DRS-11	14' 6"	78"
CAR INFCC15DRS-11	15' 6"	81"
CAR INFCC16DRP-10 **	16' 6"	90"
CAR INFCC16DRS-11	16' 6"	90"
CAR INFCC17DRS-11	17' 6"	98"

** While Stock Lasts



Carver Centre Console Inflatable Boats

- Outboard motor will be covered over within the body of the cover. If motor extends past the tubes, add length to the centreline of boat to determine the correct cover size.
- 1/4" shock cord encased in hem

Part #	Centre Line Length	Beam Width
CAR INFCC10BNS-11	10' 6"	66"
CAR INFCC12BNS-11	12' 6"	70"

TRANSHIELD®
Advanced Protective Cover Technology

Keeping nature's forces at bay isn't as simple as wrapping plastic around your boat. Take control and protect against the forces of nature with Transhield.



One piece cover.
Waterproof exterior.
Soft inner lining.
Removes moisture. Prevents mold and mildew.
No tape required making installation and removal quick and easy.
No film residue to clean.
Supports 31 lbs./sq.ft. or about 2' of snow.



REMOVES MOISTURE
prevents mold and mildew

Transhield Shrinkable Boat Covers

- Thicker than conventional film (18 mil vs. 7 mil)
- Patented fabric removes water vapor, keeping boat dry
- Reusable up to two storage seasons
- Reusability offers the ability to remove cover to work on boat during off season
- No tape applied to boat, making removal quick and easy
- Suitable for transport

V-Hull



TRA 1311	16'-18'
TRA 1306	18'-19'
TRA 1285	19'-21'
TRA 1340	21'-23'
TRA 1408	23'-25'
TRA 1487	25'-27'

Pontoon Universal



- Includes ratchet strap

TRA 11186	20', 4' height
TRA 11185	22', 4' height
TRA 11183	24', 4' height
TRA 11184	26', 4' height

Over Wake Tower



- Measurement includes 2' for swim step
- V-Bow
- Original design

TRA 1392	16'-18'
TRA 1598	18'-20'

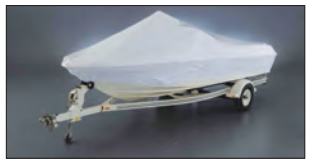
- V-Bow
- Fuller fit with extra material

TRA 11345	21'-23'
TRA 11180	23'-25'
TRA 11181	25'-27'

- Wide Bow
- Fuller fit with extra material

TRA 11575	21'-23'
TRA 11179	23'-25'
TRA 11182	25'-27'

North West Style V Hull



- With high windshield

TRA 4673	16'
TRA 4674	18'
TRA 4675	20'

PWC - Large



TRA 4016	125"-140"

Transhield Boat Vents



Transhield offers snap-together boat vents. The snap-together boat vent provides a watertight seal and allows 1.5 sq in airflow.

TRA P0076

Transhield Accessories

TRA 1735	Zipper door cover, W: 33" x H: 28"

LifeSafe Heatshrink Tape



- Repair tape for heatshrink

LIF 152809	2" x 180'

Shurtape Heat Shrink Tape



- UV-resistant polyethylene tape
- Excellent conformability and flexibility
- Maintains a watertight seal in marine shrink applications and vapour barrier seaming for boat storage
- Can also be used for patching, repairing, bundling, wrapping and sealing applications on a variety of surfaces
- 9.0 mil thickness

SHU PE900-96MMX55M	4", straight edge

Carver Universal Centre Console Covers



Console covers provide protection for the console, electronic equipment and controls. Additionally, the new design now accommodates the forward console seat. A heavy-duty adjustable strap system provides a improved fit and heavy-duty shock cord in the hem.

- Sun-Dura fabric

Part #	Centre Line Length	Beams Up To
CAR 84002S-11	Medium	D: 45 x W: 36 x H: 46"
CAR 84003S-11	Large	D: 50 x W: 40 x H: 60"

Carver Motor Covers



Each motor cover has 1/4" draw rope sewn into the hem for easy installation and snug fit. Simply measure your outboard and determine those dimensions that most closely match your particular model

- P-10=Performance Poly-Guard fabric - Grey
  S-11=Sun-Dura fabric

Part #	L x H x W	Fits
CAR 70000S-11	18" x 10" x 12"	MC-2.5-5 HP
CAR 70001S-11	20" x 14" x 20"	MC-10-35 HP
CAR 70002S-11	25" x 15" x 18"	MC-40-70 HP
CAR 70003S-11	25" x 26" x 19"	MC-75-90-100-115 HP
CAR 70006S-11	30" x 40" x 24"	MC-200-250 HP
CAR 70010P-10 **	16" x 11" x 11"	MC-10-35 HP

** While Stock Lasts

Carver Inflatable Boat Mounting Hardware



Bimini top mounting kits for inflatables are available in Hypalon and PVC/Vinyl. Kits will accommodate any size Carver round tube bimini top. Each kit contains 4 D-Rings, 2 universal deck hinges, special adhesive and detailed instructions

CAR HPKIT Hypalon
CAR VLKIT PVC/Vinyl

Carver Bimini Top Brace Kits



Bimini top braces are specially designed to hold your top up and out of the way when top is folded and not in use. Each package contains 2 aluminum braces which can be cut down to the desired length, 2 deck hinges, 2 unique hinged jaw slides that make installation easy by eliminating the need to disassemble the main bow. All screws necessary for mounting are included. 1 pair per package

- 48" round tube fixed brace kit (Aluminum) 62010
- 27" to 44" round tube adjustable brace kit (Aluminum) 62014

CAR 62010 48"
CAR 62014 22" to 44" adjustable





Carver Universal Tower Top

Universal tower clamps accommodate a wide range of tower diameters from 1-7/8" up to 2-3/8" making these tower bimini among the easiest to install. Available in premium Sunbrella 100% marine acrylic with matching zippered storage boot and 7/8" heavy-wall anodized aluminum tubing. Each tower bimini comes standard with one set of tower clamps, high grade domestic black nylon fittings and front and rear hold down straps.

- No need to drill into towers
- Fits widths 74" to 82"
- 26" high and 5' long

CAR A2678UBD-02 Black



Carver 3 Bow Bimini Top Kit with Storage Boot

Premium 100% solution dyed marine acrylic cover in jet black, with 7/8" anodized aluminum round tubing, hardware, and storage boot. Ready to assemble.

- Ideal for: Centre Console Fishing Boats, Centre Console Bay Style Boats, and Whaler Style Boats
- Top Height: 54", Top Length: 6'

CAR A5469UB-02 67" to 72"

Carver Bimini Top Quick Release Pins



Use these convenient quick release pins on your bimini's brace kit or main mounting points. These pins replace the screw connecting your deck hinge and outside eye end. Allowing you to quickly lay your bimini top down if using them on your brace kit or remove the top completely when using them on your main top mounts.

- 6" cable-loop end secures under deck hinge.

CAR QR Pair

Epco 8' Boat Cover Straps



- 1" wide weather-resistant polyproplyene webbing, weather proof side release buckle, holds down your boat cover or tarp on trailer easily

EPC CS-12 12/pkg

Sea-Dog Deck Mount Bow Sockets



Recessed base design allows for a water tight seal without the use of gaskets.

SED 327410-1 2/pkg

Sea-Dog Rail Mount Bow Sockets



Designed to fit snugly on a 7/8" round rail without the use of fasteners. The rail mount bow sockets aid in assembling a rounded support structure for a cover and can be easily removed from the boat when the cover is not in use.

SED 327400-1 2/pkg

Sea-Dog Deck Mount Bow Sockets



- Die cast zinc chrome plated
- Recessed base design allows for a water tight seal without the use of gaskets

SED 327415-1 2/pkg

Carver Boat Cover Reinforcement Kit



This repair kit is an ideal way to prolong the life of your boat cover. Kit includes one yard self adhesive material. Use it to add extra padding to stress points from windshields or trolling motors. Simply cut to desired size and apply to clean, dry surface

CAR 61050

LifeSafe Boat Cover Repair Tape



- Prolong the life of your boat cover
- Adds strength and tear-resistance along seams, stress points, creases and corners
- Extra strong tape resists stretching, wrinkling and tearing

LIF RE1136 ** 8-3/4" x 10'

** While Stock Lasts

► *Also See* Tear-Aid Tapes pg 06-012

Camco Boat Cover Support Kit



- Height adjusts 30" to 50" in 2.5" increments to fit different boat styles
- Easy to install
- Self-standing with support plates on the top and bottom
- Bottom support plate is equipped with a foam pad to prevent sliding
- The nylon strap assembly is 50-ft long and fits most boats up to 22 feet in length

CAM 41970

Carver Boat Cover Support System



Eliminates areas that could collect water and allow it to pool. Designed for simplicity with two pre-installed, adjustable 20' straps that snap quickly to the rear tow hooks and one 40' adjustable strap to cradle the bow. System fits up to 28' boats. For pontoon boats, two systems can be easily joined to create a "frame" for the boat cover. Each system comes with one adjustable (22" to 70") support pole with snap and vinyl end, system center, strap set and simple installation instructions.

CAR 60008

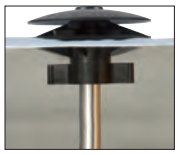
Carver Support Pole Kit



- Anodized aluminum construction
- Keeps weather covers tight
- Eliminates pockets that trap water
- 4 piece adjustable (22 to 70")
- Pole has a snap and vinyl end

CAR 60000

Carver Support Pole Kit w/Vent



Replace a conventional support pole with one that provides an air vent to reduce moisture, heat and mildew under the cover. Includes a 4 piece adjustable (22" to 70") anodized aluminum pole, boat vent and simple installation instructions.

CAR 60002 Pole kit w/vent

Sea-Dog Boat Hook Cover Support Crown



A crown that fits the tip of an adjustable boat hook or any universal threaded device, used to support a mooring cover or canvas. The unique figuration has strap or line attachment details designed to secure the support crown in the correct location.

- Dia: 6-1/2" x H: 2"

SED 491110-1

Vico Boat Vent III



- 40% more venting than VENT II
- Overhanging top to allow in less moisture
- 30 teeth on the washer for a better grip
- Ergonomic reversible nut for easy installation

VCO BV3-BLK-LT

Vico Boat Cover Poles



- Telescoping cam lock support poles have been tested to hold up to 170 lbs
- Die cast collar and stainless steel components
- Aluminum tubing is anodized, heat treated, and has a ribbed profile for increased strength and light weight
- Fully synthetic TPR rubber grey bottom crutch tips that will not scuff or mar your boats flooring
- 3 tip options: snap, swedge, or plug

VCO XP28A-2-TIP 16.5" - 28"
VCO XP47A-2-TIP 27" - 47"
VCO XP59A-2-TIP 33" - 59"
VCO XP70A-2-TIP 38.5" - 70"

Carver Boat Tie Down Kit



Constructed of heavy-duty 1" black polypropylene webbing and convenient quick-release buckles. Unlike bungee cords, these durable tie-downs don't stretch, so they won't tear your cover or damage your boat. Each kit contains twelve 12-foot straps.

CAR 61000

Vico Ratchet Tie Downs



To use, just tug on the rope until it is tight, and tie off the remaining rope. To release, pull on the rope the same as when tightening it and release the trigger lock.

- Lightweight, durable and extremely tough

Micro 1/8" Ratchet

- Includes 6' of 1/8" rope and hook

VCO RAR-16-011 Use 1/8" rope

1/4" Ratchet



- A quick-tie down 1/4" ratchet fits all 1/4" rope
- It is compact, easy to use, and virtually unbreakable
- Completely made out of high density, UV resistant plastic, will not get rusty or corrode over time
- Break Load: 176 Lbs

VCO 52620

52620

Epco Gator Tuff Gator Skins



- Made of high durability plastisal
- Fits webbing 1", 1 1/2", & 2"

EPC PAD-2 2/pkg

Epco Gator Tuff Transom Tie Downs

- 2" wide weather-resistant polypropylene webbing
- Vinyl coated black hook, zinc plated 'S' hook and hardware
- Easy-lock over centre painted buckle with hook and loop pad to protect surfaces and secure loose ends
- Max load: 800 lbs



EPC PTTD-2 2" x 2', 2/pkg
EPC PTTD-4 2" x 4', 2/pkg

Epco Gator Tuff Transom Tie Downs

- 2" wide polypropylene webbing
- Heavy gauge zinc plated hardware and self-tightening, easy-lock over centering buckle
- Hook and loop pad to protect surfaces and secure loose ends
- Max load: 1200 lbs



EPC BTDT-2 2" x 2', 2/pkg
EPC BTDT-4 2" x 4', 2/pkg
EPC BTDT-6 2" x 6', 2/pkg

Epco Gator Tuff Transom Tie Downs w/Vinyl Pads

- 2" wide weather-resistant polypropylene webbing
- Heavy gauge zinc plated hardware and vinyl coated hooks
- Easy-lock over centering buckle with large coloured vinyl pad to protect surfaces
- Hook & loop to secure loose ends
- Max load: 1200 lbs



EPC BTDTP-2 2" x 2', 2/pkg
EPC BTDTP-4 2" x 4', 2/pkg

Epco Transom Tie Downs



- 4' stainless adjustable transom ratchet
- 1" wide weather-resistant nylon webbing
- Vinyl coated hooks, stainless quick release and rapid ratchet mechanism
- Max load: 1200 lbs

EPC TR-4S 2/pkg

BoatBuckle Transom Tie Down - Retractable



- 2" wide strap which can be extended to 43"
- Break Strength: 2,500 lbs./ea
- SWL: 833 lbs./ea
- High impact boot and protective plastic coating on the S hook
- Ratchet snugs tight with an easy one hand operation
- Submersible and water resistant

BOB F08893 2/pkg

Boatbuckle Stainless Steel G2 Transom Tie Down - Retractable



- Sleek contour styling
- Comfortable SUR-Grip rubber coated handle and release lever
- One-touch web release
- Break Strength 1,500 lbs./ea
- SWL: 500 lbs./ea
- Length: 43"
- Easy access dual release lever
- Simple, one hand operation
- Adapts to any mounting

BOB F14256 2/pkg

Epco Gator Tuff Gunwale Tie Downs



- 2" wide nylon webbing
- Heavy gauge zinc plated hardware
- Captive 'J' hook
- Self-tightening, easy-lock over centering buckle
- Hook & loop pad to protect surfaces and secure loose ends
- Max load: 1200 lbs

EPC BTD0P 2" x 10', 2/pkg
EPC BTD3P 2" x 13', 2/pkg
EPC BTD6P 2" x 16', 2/pkg

Epco Gator Tuff Ratchet Strap



- 1" x 15'
- Stainless ratcheting handle
- Rated capacity: 750 lbs
- Stainless 3/8 flat 'J' hooks

EPC R15S Each

Camco
Jack Support Stabilizer





- Heavy-Duty stabilizer jack support provides lift and stability
- Provides 7" of lift
- Compatible with up to 10" round jack pads
- Weight rating of 6,000 lbs
- Easy to store; nests if you have more than one
- Durable, UV-stabilized polymer
- 13-1/2" x 15" x 7-1/4"

CAM 44421

Curt Marine Jacks

- Marine jacks have a built-in 6 or 8" caster wheel for trailer mobility and easier coupling
- Extendable height
- Bolt-on hardware included for secure mounting
- Swivel bracket allows jack to fully swing up during travel
- Heavy-duty pull-pin locks jack securely in place
- Side-wind handle



25003

Part #	A		Lift Capacity	Wheel Dia
	Min	Max		
CUR 25003	9-1/4"	19-1/4"	1000 lb	6"
CUR 28113	12-1/2"	23-1/2"	1200 lb	6"
CUR 28116	13"	24"	1500 lb	8"
CUR 28156	12-5/8"	23"	1500 lb	Dual 8"



28156

Parts:

CUR 28277	6" caster assembly
CUR 28912	Caster wheel
CUR 28913	Handle
CUR 28914	Gear kit
CUR 28926	Handle grip

Sierra Deluxe Trailer Jacks

Designed and built to stringent OEM specifications, the Sierra trailer jacks deliver the strength needed to hold your trailer's load when hitched or unhitched.

- 1,500 lb load capacity
- Zinc plated undercoat with tough black textured overcoat provides maximum protection
- Resists corrosion – passed over 400 hours of salt-water spray testing
- Rugged spoked wheel
- Pivots into a horizontal position, ideal for hauling boats, snowmobiles, and smaller sports craft
- Mounting hardware included



054650-10

Deluxe

- 10" travel distance
- 6" wheel
- Single grease port

SIE 054650-10



054655-10

Deluxe Plus

- Comfort grip handle and extended sleeved pull pin included
- 12" travel distance
- Wheel caster rotates independently from inner post for extra mobility
- 8" wheel
- Double grease port

SIE 054655-10

T-H Marine Swing-Up Trailer Jacks



- Zinc plated
- Fits 3", 4", and 5" trailer tongues
- 10" travel
- 2" x 6" wheel
- Mounting hardware included

Offset, No-kick

THM BE-TR-59190-DP	1000 lb
THM BE-TR-59192-DP	1500 lb

Swivel

THM BE-TR-59220-DP	1000 lb

Curt Low Gear Ratio Hand Winches

- Ideal for 20'+ boats
- High quality cold forged steel construction, with solid gears, 600-hour salt spray plating, and oil impregnated, powder coated metal bushings
- Locking lever and broached pinion shaft
- Universal slotted screw holes for flexible mounting
- Two input shafts and quick-detach handle on #29532 model
- Straps and cables not included
- 5 year limited warranty


29520


29526


29532


29538

Part #	Capacity	High Gear Ratio	Low Gear Ratio	Hub	Handle
CUR 29520	2,000 lb	4.1:1	10.25:1	1"	10.6"
CUR 29526	2,600 lb	5.1:1	12.7:1	1"	10.6"
CUR 29532	3,200 lb	5.4:1	17.5:1	1-7/64"	9.6"
CUR 29538	3,800 lb	5.1:1	15.8:1	1-3/4"	9-5/8"

Curt Hand Winches

- Constructed from high-strength, cold-forged steel
- Equipped with a locking lever for increased safety
- Strong pinions eliminate gear-to-shaft bonding failures
- Base features slotted screw holes for flexible mounting


29423


29424


29427


29435

Part #	Capacity	Gear Ratio	Hub	Handle	
CUR 29423	900 lb	3.25:1	3/4"	6-1/2"	-
CUR 29424	1,200 lb	4.2:1	3/4"	7-1/2"	-
CUR 29435	1,400 lb	4.2:1	3/4"	7-1/2"	Includes 20' strap
CUR 29427	1,700 lb	5.1:1	1"	8"	-

T-H Marine Trailer Winches

- Hardened stacked steel gears
- Corrosion resistant


59916
* shown without strap


59918
59926

Part #	Capacity	Gear Ratio	Handle		
THM BE-TR-59916-DP	600 lb	3:1	7-1/4"	1-way ratchet w/neutral	2" x 15' strap and bolt included
THM BE-TR-59918-DP	1,000 lb	4:1	8-1/2"	2-way ratchet w/neutral	2" x 20' strap and bolt included
THM BE-TR-59926-DP	2,000 lb	4:1	8-1/2"	2-way ratchet w/neutral	2" x 20' strap and bolt included

Endurance Manual Brake Hand Winch

- Stainless steel
- Spur gear drum
- Pulling capacity 1400 lbs
- Gear ratio 5:1
- Drum capacity 1/4" x 65'
- H: 10" x W: 9" x L: 8"
- Weight: 7 lbs
- Bare drum; no cable or rope
- Not approved for overhead lifting



END EBW1400SS

Endurance Auto Brake Hand Winch

- Stainless steel
- Spur gear drum
- Lifting capacity 1000 lbs
- Gear ratio 3.8:1
- Drum capacity 1/4" x 88'
- H: 12" x W: 9" x L: 6"
- Weight: 13 lbs
- Bare drum; no cable or rope
- Approved for overhead lifting



END EABW1000SS

To Select Winch Capacity:
Minimum Winch Capacity = Maximum weight of boat, including motor, fuel and gear ÷ 2

Note: If you are pulling a load use a trailer winch and if you are lifting a load use a brake winch.

Endurance Utility Winch

Fast line speed / low amp draw / automatic load-holding brake / free spooling / power in - power out complete with remote control



- Rated line pull: 1500 lbs
- Gear reduction: 261:1
- Drum diameter:50 x 82.5mm
- Motor hp: .8
- Cable supplied: 5/32" x 50'
- Weight: 19.3 lbs
- Bolt pattern: 48 x 76mm

END EU1500 110VAC

Endurance Utility Winch



- General duty, 2000 lb line pull
- Automatic load holding brake
- Power in-out with freewheel
- Single stage planetary
- 1.9 HP, 153:1 gear ratio
- Hand held remote and 5/32" x 50' steel cable included
- Universal bolt mounting pattern
- IP65
- 12.6" x 4.13" x 4.35"
- 16.5 lbs
- Note: Not for overhead applications

END RP2000 12V

Endurance Utility Winches

RP5000



- 12V, general duty
- 3 stage planetary
- Power in-out with freewheel
- Short drum for limited space
- Includes 250 A solenoid, hand-held remote, wiring harness, roller fair lead, and universal mounting plate
- Automatic load holding brake
- IP66
- Note: Not for overhead applications

- 3.1 HP
- 136:1 gear ratio
- 50' of 3/16" steel cable and hook included
- 14.8" x 4.6" x 4.7"
- 22 lbs

END RP3500 3500 lbs

- 3.8 HP
- 165:1 gear ratio
- 50' of 3/16" steel cable and hook included
- 15.6" x 4.6" x 4.7"
- 29 lbs

END RP5000R 5000 lbs

Endurance Davit Winches

NEW



RP1000-1200SSCK

- Built-in mechanical brake
- Approved for overhead applications up to 1,000 lb deadlift
- Compact size fits into tight spaces
- Designed to retrofit existing davit systems
- Full kit includes wiring harness, wired remote control, and marine grade 250A solenoid
- L: 13.5" x W: 5.43" x H: 5.7"
- 20 lb

END RP1000-1200SS Winch only
END RP1000-1200SSCK Winch with full kit

Endurance Davit Winches



EMD2500SS

- 12 VDC, general duty
- 304 stainless steel frame, drum, and fasteners, with gear housing milled from T6 aircraft grade aluminum
- Power in/power out with clutch assembly for free wheel
- New 1000 W 2.3 HP motor provides 2500 lbs pull rating, and dead lift of 750 lbs
- Includes heavy duty double acting 250 A marine solenoid and handheld wired remote control
- 153:1 gear ratio
- 40'/min, 35 RPM
- W: 5" x H: 5" x L: 15"
- 20 lbs

END EMD2500SS 35' 1/4" s/s cable and s/s hook
END EMD2500SSRP 45' 3/16" synthetic rope, 2800 lbs BL

Endurance Davit Winch



Dedicated davit/hoist winch

- 12 VDC, 1000 W
- 304 stainless steel drum and hardware
- Rated: 1000 lbs direct lift capacity
- Bare drum; requires rope or cable
- Built-in mechanical brake: power in-out only, no freewheel
- Line speed at 16'/min under load
- 3 stage planetary gear box
- 165:1 gear ratio
- IP66 rated
- Drum width: 3.6"
- Weight: 63 lbs
- Approved for overhead lifting

END RLW1000-1100 ** Winch only
** While Stock Lasts

Endurance Winch Stands



- Adjustable winch stand, ideal for where you need more clearance, or for dock mounting
- 2000 lbs capacity
- Adjustable 3 setting; from 8" to 20"
- Fits all universal winch mounting plates
- Winch not included

END RSS2000 Powder coated aluminum
END RSS2000SS Stainless steel

Greenfield Skywinch Trailer Winch

The Sky Winch eliminates the hassles and dangers of trailering. Simply leave a bow-line attached to your boat and walk it to your trailer without wading in.
Just place rope into SkyWinch, pull tight, and start cranking. The patented wheel grips the rope and easily pulls most lighter-weight boats under 18'. The crank arm will not spin backwards until released with trigger for controlled payout.



- Accepts ropes to 1/2" diameter and fits most standard trailers with included mounting bracket & hardware
- For best results, use with 1/2" solid-braid rope with break-strength rating that exceeds boat weight

GRN SKYWINCH

Curt Winch Straps




- 2" wide, no-stretch nylon webbing
- Zinc-plated snap hook for easy, secure hookup

Part #		Work Load	Break Strength	Length
CUR 29007	Bulk	1,333 lb	2,000 lb	20'
CUR 29450	Pkg	1,100 lb	3,500 lb	15'
CUR 29451	Pkg	1,100 lb	3,500 lb	20'

Curt Winch Strap



- 2-3/8” wide no-stretch polyester webbing, 23’ length
- Zinc-plated snap hook for easy secure hookup
- Rated 1,600 lb work load limit and 4,800 lb break strength
- Compatible with Curt winches #29520, #29526, and #29532

CUR 29452

Epco Gator Tuff HD Winch Strap



- Heavy duty 2" x 20' winch strap
- Heavy polyester webbing
- It comes with a hook on one end, and includes a nut, bolt and washer
- It is rated for a 6600# load

EPC WSL20HD

Epco Gator Tuff Winch Straps

Wide nylon webbing with heavy duty snap hook, zinc plated to resist weathering. Winch strap comes with or without sewn loop on the end.

- 2" x 20'
- Max load 4000 lbs


WSL20N

EPC WSL20N Looped end
EPC WS20 Standard

T-H Marine Winch Strap



- Corrosion-resistant, zinc plated, heavy duty hook features a wide opening for easy attachment and detachment of winch strap
- Strap: 20' x 2" high impact polyester webbing
- Safe working load: 1,675 lb
- Breaking strength: 5,000 lb

THM BE-TR-59818-DP

T-H Marine Winch Rope



- Lightweight, 3/8" x 20' high-strength polypropylene rope with hook
- Safe working load: 430 lb
- Breaking strength: 1,300 lb

THM BE-TR-59824-DP

Tie Down Winch Straps



- Nylon web winch strap with hook and loop
- W: 2"
- Comes with a heavy duty forged latch hook

TIE 50465 15', 5,000 lbs max
TIE 50470 20', 5,000 lbs max
TIE 50475 25', 5,000 lbs max

Tie Down Engineering Winch Cables




- Galvanized steel 7 x 19
- Zinc plated, forged latch, 7000 lb. hook

TIE 59385 3/16" x 25' 4200#
TIE 59390 3/16" x 50' 4200#
TIE 59395 7/32" x 25' 5600#
Parts:
TIE 50640 Replacement hook

Suncor Stainless Ratchet Straps

- Features stainless steel ratchet buckle, (2) stainless steel harness clips, and high-quality 1" nylon webbing



SUN S0201-0525 5'
SUN S0201-1025 10'
SUN S0201-1625 16'

Anderson LED Side Marker/Clearance Lights



- PC-rated
- Functions as clearance light, side marker, or combination clearance and side marker when properly mounted
- Polycarbonate lens and base are welded together
- Kit includes light, black mounting bracket, lead wire, and screws
- L: 2.48" x H: 1.2" x D: .84" (light)
- L: 2.88" x H: 1.47" x D: .45" (bracket)

AND V203BKA	Amber
AND V203BKR	Red

Anderson LED Side Marker/Clearance Light



- Lens and housing are welded together
- Mounting stud serves as ground when mounted to metallic surface
- 2 LEDs behind coloured transparent lens
- Single hardwired lead wire
- L: 2.12" x H: 1.12" x D: 1.02"

AND V191A	Amber

Anderson Incandescent Side Marker/Clearance Lights



- Lens and housing are welded together
- Mounting stud serves as ground when mounted to metallic surface
- Comes with single 24" lead wire
- L: 2.12" x H: 1.12" x D: 1.02"

AND 151A	Amber
AND 151R	Red

Anderson LED Side Marker/Clearance Lights



- PC-rated clearance/marker light
- Functions as both clearance and side marker when mounted at a 45° angle
- Mounts on 3" centres
- Hardwired power and ground leads
- Multivolt: 12/24V
- L: 4" x H: 2" x D: 1.09"

AND V38A	Amber
AND V38R	Red
Parts:	
AND 138-15A	Replacement amber lens
AND 138-15R	Replacement red lens

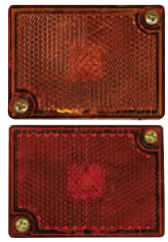
Anderson LED Side Marker/Clearance Lamp - Reflex Lens



- LED clearance/side marker light kits
- Hardwired design
- Sealed lens and housing flush mounts to vehicle
- Includes white grommet
- L: 3" x H: 1.96" x D: .7"

AND 129KA	Amber

Anderson Incandescent Side Marker/Clearance Lights - Reflex Lens



- PC-rated
- "Quick Lock" port
- Grounds through stud, or through additional ground wire port
- 15,000 hour rated bulb
- L: 2.75" x H: 2.05" x D: 1.15"

AND V114A	Amber
AND V114R	Red
Parts:	
AND 114-15A	Replacement amber lens
AND 114-15R	Replacement red lens

Anderson LED Side Marker/Clearance Lights - Reflex Lens



- 2-wire hardwired
- Ground wire terminated with #10 ring terminal
- Two mounting options – use provided centre stud, or two mounting screws (not included)
- L: 3.13" x H: 2" x D: .93"

AND V170A	Amber
AND V170R	Red

Wesbar Side Marker/Clearance Light - Reflex Lens

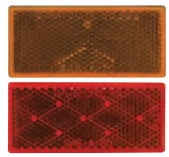


- Built-in reflex reflectors
- Quick Connect/Disconnect wiring method
- Lenses are easily removed for quick replacement
- Black housing
- Stud mount
- 3-1/8" x 2-3/8"

WSB 203113 **	Red
Parts:	
WSB 003337 **	Replacement red lens

** While Stock Lasts

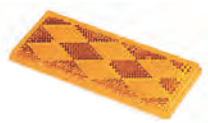
Anderson Reflector Kits



- Adhesive backing for quick and permanent mounting
- Contains two reflectors per pack
- Meets FMVSS 108 standards, DOT compliant
- L: 3.19" x W: 1.42"

AND V483A	Amber
AND V483R	Red

Wesbar Class A Reflex Reflector



These reflectors meet or exceed all applicable DOT and SAE "Class A" specifications. Reflectors have pressure sensitive backs which bond to virtually any smooth, clean surface.

- L: 3-1/4" x H: 1-1/2"

WSB 003357 **	Amber

** While Stock Lasts

Anderson License Lights



- Top mount, single LED hardwired license light
- Surface mounts on 2" centres
- .95" spacer for use as top mount license light
- Terminates with (2) .180 bullet connectors
- Multivolt: 12/24V
- L: 3" x H: 1.25" x D: 1.55

AND 290C-MV-BT2

Anderson License Bracket



- Universal license bracket for use with most PM stud-mounted tail lights
- Corrosion free black plastic flexes on impact
- L: 8" x H: 5.55"

AND V440-09

Anderson LED Light Bar



- For boat trailers 80" or more in overall width
- Stainless steel bar
- Pre-wired with single 60" hardwired lead wire
- Mounts on 8.5" centres
- L: 14.25" x H: 1.19" x D: 1.06"

AND V191-3RL

Anderson LED Stop/Turn/Tail Light



- Voltage regulated design
- Advanced optics fully illuminate lens
- AMP-compatible connector integrated into housing
- Meets FMVSS 108 requirement in horizontal, vertical, or any 360° position
- L: 6.5" x H: 2.31" x D: 1.45"

AND 820R-7

Parts:

AND 421-18 Replacement grommet

Anderson LED Submersible Tail Light Kit - Reflex



- For trailers less than 80" wide
- Hardwired designed, with integral Reflex
- Includes one each of 840/840L LED tail lights, 20' trailer harness, license bracket, mounting hardware, and installation instructions
- Lights: L: 4.84" x H: 4.76" x D: 3.03"
- License bracket: L: 8" x H: 5.55"

AND V941

Anderson LED Submersible Tail Lights



- Exceeds all DOT rear lighting and reflex requirements for all trailers, including those 80" wide and over
- Combination LED stop, turn, tail light, and license light (V856L version only)
- Solid state, fully sealed, submersible construction with potted circuitry to protect against moisture, corrosion, and vibration
- Integral, dedicated side marker diode
- Carriage mounting bolts included
- L: 7.94" x H: 2.88" x D: 2.88"

AND V856 Without license light
AND V856L With license light

Anderson LED Submersible Tail Light Kit - Reflex



- LED rear lighting kit for all trailers, including those trailers 80" wide and over
- Hardwired
- Includes one each of 856/856L LED tail lights, license bracket, mounting hardware, and installation instructions
- Lights: L: 7.94" x H: 2.88" x D: 2.88"
- License bracket: L: 8" x H: 5.55"

AND V947

Anderson LED Submersible Tail Lights - Reflex Lens



- Exceeds all DOT rear lighting and reflex requirements for all trailers, including those 80" wide and over
- Low profile construction
- Advanced lens optics for evenly lit appearance
- Functions include stop, turn, tail light, and license light (-L version only)
- L: 5.38" x H: 4.61" x D: 1.8"

AND M844L-BT3 With license light, .180 bullet connectors
AND V844 Without license light
AND V844L With license light

Anderson LED Submersible Tail Light Kit - Reflex



- LED rear lighting kit for all trailers, including those trailers 80" wide and over
- Hardwired designed
- Low profile design with advanced lens optics for an evenly lit appearance
- Includes one each of 844/844L LED tail lights, 25' trailer harness, license bracket, mounting hardware, and installation instructions
- Lights: L: 5.38" x H: 4.64" x D: 1.8"
- License bracket: L: 8" x H: 5.55"

AND V944

FYI

Multi-Function Lights

6-function: stop, turn, tail, rear reflex, side marker, and side reflex
7-function: stop, turn, tail, rear clearance, rear reflex, side marker, and side reflex
8-function includes all of above plus a license plate illuminator

Anderson Submersible Low Profile Tail Lights



- For boat trailers 80" or more in overall width
- Incandescent combination tail light
- Functions include stop, turn, tail, rear clearance, rear reflex, side reflex, and license light (on -L version only)
- Housing slides out for easy maintenance and bulb replacement while maintaining gasket seal
- Grounds through separate lead wire
- Mounts on slide-on 2" centres, includes mounting hardware

AND V456 Without license light
AND V456L With license light

Anderson Submersible Light Kit



- For boat trailers 80" or more in overall width
- Submersible kit includes one each of the 456/456L incandescent tail lights, 25' trailer harness, license bracket, mounting hardware, and installation instructions
- Integral Reflex
- Light: L: 8" x H: 2.88" x D: 2.98"
- License bracket: L: 8" x H: 5.55"

AND V547

Anderson Tail Lights



- Incandescent combination rear light for vehicles and trailers under 80' wide
- Gaskets on both rear and side lenses
- Mounts on 2" centres
- Grounds through 1/4" mounting studs
- Functions include stop, turn, tail, rear reflex, side marker, side reflex, and license light (on E441L only)
- Mounting hardware included
- L: 4.75 x H: 4.5" x D: 2.81"

AND E441 Without license light
AND E441L With license light

Parts:

AND 440-15 Replacement stop & tail lens
AND 55-15R Replacement side marker lens

Anderson Submersible Tail Light Kit



- Submersible kit provides all legal lighting and reflectors for trailers under 80" wide
- Kit includes one each of 441/441L taillights, two 108A side marker lights, 20' trailer harness, 48" trunk connector, license bracket, mounting hardware, and installation instructions

AND E546



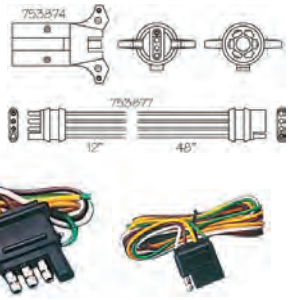
V5414 V5415

Anderson Trailer Adapters

- Full-length plug shell ensures positive latching
- Non-corrosive nylon shell
- 7A max

AND V5414 7 to 4-way, 3.5"
AND V5415 7 to 5-way, 4"

Sea-Dog 4-Wire Trailer Accessories



753874-1 753877-1 Front 753877-1 Back

SED 753874-1 Plug adapter 7 to 4
SED 753877-1 Plug kit 12" & 48", 4-wire pigtails

Sierra T-Connect Trailer Connector



T-trailer connectors come with a standard 4 pole flat "boat" connector already attached. This fits 90% of all trailers today. If you connect to a 7-way RV plug use one of these adapters.

SIE TC44984

Sierra Trailer Connector Adapter



7-Pole RV style blade (tow vehicle) to 5-pole flat (trailer).

SIE TC50000

Sierra Electronic Trailer Light Converter



- Allows cars with separate stop and signal lamps (most imports and many late model domestics) to tow trailers with the "normal" combined stop/signal lamps
- Eliminates the need for additional lamps on the trailer or time consuming rewiring of trailer
- Comes with bare wires for splicing into existing harness

SIE TC43504

Anderson 4-Way Flat Harness



- 30" harness extension
- 4-way flat trailer on one end and matching trunk connector on the other

AND V5401

Anderson Split Harness Kit



- 25', split, four conductor harness
- Flat four-way plug meets SAE J1239 specifications, includes trunk connector
- Colour-coded wire meets SAE J1128 specifications

AND V5425Y

Anderson 3 Wire Plug



- 3-wire weatherproof plug with molded plug housing
- Includes stripped hot wires; ground wire provided with #10 ring terminal and heat-shrink tubing for additional corrosion protection
- For use with 233, 817, 818, 820, 823, 1217, 1218, 1220, 1223 series LED lights

AND 817-49

Anderson 4-way Trailer Connector



- Flat connector with 12" lead wires
- Colour coded wire meets SAE J1128 specifications
- Plug meets SAE J1239 specifications

AND V5400A

Curt Trailer Plug Adapters

NEW

- Simple plug-and-play design


57271


57281


57251

CUR 57241	7-way blade to 4-way flat, plug only
CUR 57251	7-way blade to 5-way flat, plug only
CUR 57271	7-way blade to 4-way flat, up to 5' length
CUR 57281	7-way blade to 5-way flat, up to 5' length

Curt 5-way Flat Connector

NEW



- Splices into existing wiring
- Looped wire can also be used as a wire extension for an existing connector
- Bonded 16-gauge wires and durable molded rubber
- 72" of colour-coded wire

CUR 58551



Pico Looped Trailer Connectors

- Pre-wired molded trailer connectors,male & female with 12" loop wire
- Cut and splice into wiring assembly
- All sets are polarized & colour coded

PIC 1871-BP	2 Pin 16 ga. connector (each)
PIC 1872-BP	3 Pin 16 ga. connector (each)
PIC 1878-BP	2 Pin 10 ga. connector (each)
PIC 1873-BP	4 Pin 16 ga. connector (each)
PIC 1873-PK	4 Pin 16 ga. connector (10/pkg)

Sierra Trailer Connector


Male Female

- Colour coded leads
- Polarized
- Bubble packed on cards

SIE TC44094 4 pole, female, 48" lead

Sierra Trailer Connector



- Polarized connectors plug together only one way to prevent cross connections
- Rugged plastic with molded-in terminals
- Colour coded leads
- 16 ga

SIE WH10300 2 wire, 12" leads

Sierra 4-Way Wiring Harness Kits


TC43744 TC43754

- Shrouded, polarized, flat 4 pole 'Y' connector
- Trailer side wires are split to allow routing of wires down both sides for easy hook up
- Safe colour coded wires

- 6 splice connectors, 4' vehicle side connector and 20' trailer side connector

SIE TC43754

- 2 splice connectors, and 9 trailer wire clips, 4' vehicle side connector and 20' trailer side connector

SIE TC43744

Wesbar Wiring Accessories

Designed for the Do-It-Yourself market, these trailer wiring kits are easy to install. Comes with complete instructions.



4-Way Car End Harness

4-way flat, 4' car end, 18" ground.

WSB 707275 ** Female

** While Stock Lasts

Tie Down Engineering Keel Rollers

Amber and black PVC rollers, bow and keel accessories are made of a high-quality, poly-vinyl material that is cut and fade resistant. Ideal for a variety of boats and trailers, these products are designed to protect the boat from markings and absorb impact while withstanding both salt water and freshwater conditions.















PVC Amber #	PVC Black #	Rubber Black #	Description	Length x Dia.	Shaft	#
TIE 86289	TIE 86402	TIE 86487	3" - Roller Bow	2-7/8" x 3"	1/2"	1
TIE 86290	-	-	3" - End Bell	1-1/4" x 4-1/2"	1/2"	2
TIE 86143	TIE 86405	-	3" - Roller Assembly w/End Bells	5-1/2" x 4-1/2"	1/2"	3
TIE 86287	TIE 86400	TIE 86488	4" - Roller, Bow	3-3/4" x 3-5/8"	1/2"	4
TIE 86288	-	-	4" - End Bell	1-5/8" x 5-1/8"	1/2"	2
TIE 86142	TIE 86404	-	4" - Roller Assembly w/End Bells	7-3/8" x 5-1/8"	1/2"	3
TIE 86284	TIE 86406	-	4" - Keel Roller - Spool Type	3-1/2" x 2-3/4"	5/8"	5
-	-	TIE 86479	4" - Keel Roller - Spool Type	3-1/2" x 2-3/4"	1/2"	5
-	-	TIE 86481	5" - Keel Roller - Spool Type	5" x 3"	1/2"	5
TIE 86158	TIE 86407	TIE 86483	5" - Keel Roller (center guided)	4-1/2" x 3-1/2"	5/8"	6
TIE 86283	TIE 86408	TIE 86482	5" - Keel Roller - Spool type	4-3/4" x 3"	5/8"	7
TIE 86159	TIE 86409	TIE 86484	8" - Keel Roller	7-1/2" x 3-1/2"	5/8"	8
TIE 86169	TIE 86410	-	10" - Keel Roller	9-1/2" x 3-1/2"	5/8"	8
TIE 86199	TIE 86411	TIE 86486	12" - Keel Roller	11-1/2" x 3-1/2"	5/8"	8
TIE 86198	-	-	3-1/2" - End Caps	1-1/4" x 3-1/2"	5/8"	9
-	TIE 86428	-	4" Smooth Wobble Roller	4-1/8" x 4"	3/4"	10
-	-	TIE 86492	4" Wobble Roller	4-1/4" x 4-1/4"	3/4"	11
-	-	TIE 86477	12" Side Guide	12" x 2-1/2"	5/8"	12



















PVC Amber #	PVC Black #	Rubber Black #	Description	H x W x D	Shaft	#
TIE 86291	-	-	15" x 3.5" - Keel Pad	1-1/4" x 15" x 3-9/16"	N/A	13
-	TIE 86420	TIE 86489	2" - "V" Bow Stop	3" x 3-3/4" x 2"	3/8"	14
TIE 86285	TIE 86413	TIE 86490	3" - "V" Bow Stop	3-1/8" x 6-1/8" x 2-3/4"	1/2"	15
-	TIE 86421	TIE 86491	4" - "V" Bow Stop	3-3/8" x 7" x 4"	1/2"	16

Tie Down Engineering Wobble Roller Kit

Kits include (4) 5" ribbed amber rollers, 7/8" & 1.15" bushings, hog ring & washers.

TIE 86144 Ribbed, Amber

Accessories:

TIE 86252 Washers and hog rings Packaged 2/pk for 1 roller assembly



Tie Down Engineering Panel Bracket Assembly



- One-piece assembly includes keel roller, shaft and cap nuts
- Made of poly-vinyl
- 11 guage steel is hot dip galvanized

Part #	Roller Size	W Between Slots	Bracket Width
TIE 86280	8"	6"	8-3/8"
TIE 86281	10"	8"	10-3/8"
TIE 86282	12"	10"	12-3/8"

Tie Down Engineering Hex Head Bolts

- Use for mounting brackets, couplers and winch stands
- Grade 5, zinc plated steel
- Kit contains four bolts, washers and nylock nuts



86253

TIE 86253	3/8" x 3"
TIE 86254	3/8" x 4"
TIE 86256	7/16" x 1"

Tie Down Engineering Roller Shaft & Pal Nuts

TIE 86025	Roller shaft 1/2" x 5-1/4" with 2 pal nuts
TIE 86026	Roller shaft 1/2" x 6-1/4" with 2 pal nuts
TIE 86027	Roller shaft 5/8" x 5-1/4" with 2 pal nuts
TIE 86028	Roller shaft 5/8" x 6-1/4" with 2 pal nuts
TIE 86029	Roller shaft 5/8" x 9-1/4" with 2 pal nuts
TIE 86030	Roller shaft 5/8" x 11-1/4" with 2 pal nuts
TIE 86031	Roller shaft 5/8" x 13-1/4" with 2 pal nuts
TIE 86305	1/2" pal nuts, 4/pkg
TIE 86310	5/8" pal nuts, 4/pkg
TIE 86300	1/2" pal nuts, 50/pkg
TIE 86301	5/8" pal nuts, 50/pkg



Curt Anti-Rattle Hitch Clamp

NEW



- Compatible with hollow and solid 2" shanks
- No-tool installation and easy to adjust clamp lever
- High strength steel and aluminum construction with a durable, clear finish for corrosion resistance
- W: 4.45" x H: 4.77" x D: .8"

CUR 22325

Tie Down Engineering U-Bolt Kits

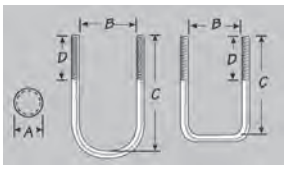
- Used for mounting brackets to trailer frames
- Includes flat washers and nuts
- Zinc plated or galvanized



86220



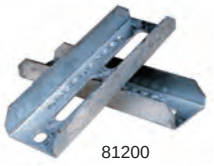
86224



Part #	A" x B" x C" x D"	Material	Shape	Pkg
TIE 86205	1/2 x 3-1/8 x 3 x 1-1/2	Zinc	Square	2
TIE 86206	1/2 x 3-1/8 x 4 x 2	Zinc	Square	2
TIE 86231	7/16 x 3-1/16 x 4-5/16 x 2	Zinc	Square	1
TIE 86220	7/16 x 1-9/16 x 3-9/16 x 2	Galv	Square	1
TIE 86221	1/2 x 1-9/16 x 4-1/16 x 2	Galv	Square	1
TIE 86222	1/2 x 3-1/16 x 3-13/16 x 1-1/2	Galv	Square	1
TIE 86223	1/2 x 2-1/16 x 4-13/16 x 2	Galv	Square	1
TIE 86224	3/8 x 1-3/4 x 4-13/16 x 1-3/4	Galv	Round	1
TIE 86225	1/2 x 2-3/8 x 5-3/8 x 2	Galv	Round	1

Tie Down Engineering Bolster Brackets

- Supports bolster or bunk boards
- Slotted for vertical adjustment and feature non-slip dimples to avoid movement and increase load capacity



81200

TIE 81210	8" with 2-3/4" slot w/swivel bracket 2/pkg
TIE 81215	10" with 3-3/4" slot w/swivel bracket 2/pkg
TIE 81220	12" with 4-3/4" slot w/swivel bracket 2/pkg
TIE 81250	12" with 4-3/4" slot 2/pkg
TIE 81195	8" with 2-3/4" slot 2/pkg
TIE 81200	10" with 3-3/4" slot 2/pkg

Tie Down Engineering Bunk, Swivel & Keel Brackets

Bunk Bracket



81225

- 11 gauge hot dip galvanized steel
- Slotted for vertical adjustment to standard or deep V hulls

TIE 81225	9-1/2" long with 6" slot
TIE 81230	12-5/8" long with 9-1/8" slot

Split Brackets



- Accommodate any size roller length
- Slot allows vertical adjustment for stabilizing boat on trailer
- Slots accept 7/16" or 1/2" bolts. Use 1/2" or 5/8" roller shafts
- Sold in pairs

TIE 81235

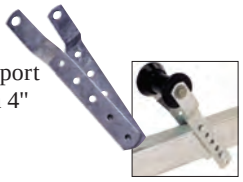
Bolster Brackets



- Adjustable for proper angle of bunk or bolster boards
- Swivel bracket c/w 1/2" x 1" bolts with nylock nuts per pair

TIE 86160

Offset Brackets



Installed

- Adjustable mount on tongue for keel support
- Assembled version comes complete with 4" rubber roller for 2" wide tongue
- Max. depth: 6"

TIE 86121

Curt Bearing Protectors

- Protector maintains pressure, and small reservoir keeps bearings well-lubricated
- Covers prevent dust and debris from entering the bearing protector
- Includes cover



CUR 22178	1.78"
CUR 22198	1.98"
CUR 22244	2.44"

Parts:

CUR 23198	1.98" replacement covers

Curt Bearing Kits

- Complete kit including bearings, races, grease seal,and cotter pin



CUR 2023133979	2,000 lb axles
CUR 2023133980	3,500 lb axles

Dexter Marine Roller Bearing Parts


81304


81167

- 2/pkg

DEX 81304	1-1/16" roller bearings
DEX 81305	1-1/16" bearing cups
DEX 81167	1.98" bearing caps


81305

DEX 81310	Bearing seal: 1.25", fits 1" & 1-1/16" bearings
DEX 81313	Bearing seal: 1.719", fits 1-3/8" bearings
DEX 81323	Bearing seal: 1.68", fits 1-3/8" bearings, triple lip


Bearing seals

Dexter Marine Roller Bearing Kits

- Precision tapered roller bearing kits
- Each kit includes: 2 bearings, 2 bearing cups, seal, cotter pin and dust cap where noted

Part #	Bearing Size	Dust Cap	Spot on Reference	Bearing Code	Cup Code	Seal Code
DEX 81110	1"	No	Green	L44643	L44610	125255UC
DEX 81111	1"	Yes	Green	L44643	L44610	125255UC
DEX 81115	1-1/16"	No	Yellow	L44649	L44610	125255UC
DEX 81116	1-1/16"	Yes	Yellow	L44649	L44610	125255UC
DEX 81121	1-1/16"	Yes	Yellow & White	L44649/L11949	L44610/L11910	125255UC
DEX 81125	1-1/4"	No	Blue	LM67048	LM67010	15234VB
DEX 81126	1-1/4"	Yes	Blue	LM67048	LM67010	15234VB
DEX 81128	1-3/4" x 1-1/4"	Yes	Blue	25580/15123	25520/15245	225255UC 212338UC
DEX 81141	1-3/8" x 1-1/16" †	Yes	Red & Yellow	L68149/L44649	L68111/L44610	171255UC
DEX 81140	1-3/8" x 1-1/16"	No	Red & Yellow	L68149/L44649	L68111/L44610	171255UC


81115


81141

NOTE: Tapered spindles require different sized bearings and cups
† Cup 2.3612" O.D.

Dexter Marine Trailer Parts

Super Lube Hub Kits

Bearing and hub cavity 100% pre-greased. Greased seal and bearings are pre-assembled. Kit includes bearings, seal, super lube bearing cap, cotter key and lug nuts or lug bolts.

Part #	Bearing Size	Description
DEX 81015	2 ea 1" w/lug nuts	4 Stud Super Lube hub kit (1250#)
DEX 81040	2 ea 1-1/16" w/lug nuts	5 Stud Super Lube hub kit (1350#)
DEX 81045	1 ea 1-1/16" & 1-3/8" w/lug nuts	5 Stud Super Lube UHI hub kit (1750#)




81168

Parts:

DEX 81168	Replacement bearing caps, 2/pkg
DEX 81174	Replacement rubber cap grommet, 2/pkg

Hub Kits

Kit includes bearings, seal, bearing cap, cotter key and lug nuts or lug bolts. Factory pre-greased.

Part #	Bearing	Description
DEX 81065	2 ea 1-1/16" w/lug nuts	4 Stud hub kit (1350#)
DEX 81080	2 ea 1" w/lug nuts	5 Stud hub kit (1250#)
DEX 81085	2 ea 1-1/16" w/lug nuts	5 Stud hub kit (1350#)
DEX 81090	1 ea 1-1/16" & 1-3/8" w/lug nuts	5 Stud UHI hub kit


81080

Parts:

DEX 81167	Replacement dust caps 2/pkg

Dexter Marine
Eliminator Vented Disc Brake



- E-Coat finish protects the caliper from salt crystallization
- Stainless steel caliper slide pins are easily accessible with 7/16" hex heads for quick removal
- GalvX coated brake pad backing plates further reduce areas susceptible to corrosion
- All aluminum caliper, 380 series alloy, sheds heat five times faster than traditional cast iron calipers
- Compact design allows short axle overhangs and provides direct brake line routing back to the axle
- Oil impregnated bronze bushings last longer and slide smoother
- Oversize rubber boot is 50% thicker by design and provides a more positive piston withdrawal

DEX 82113 10" "Integral" style brake kit



12114

Parts:

DEX 46304A Caliper assembly w/pads
DEX 81420 Brake pad kit
DEX 12114 Stainless steel slider guide pins, 1/2" dia. (each)



81103

Accessories:

DEX 81103 Reverse backing solenoid kit

Dexter Marine
Trailer Drum Brakes



81097

A highly corrosion resistant drum brake. The GalvX system is composed of inorganic polymers which bond metallic zinc flakes to the metal surface.

- Aluminum wheel cylinder
- Stainless steel springs
- Brake pads are bonded and riveted with bronze rivets to backing plate
- Superior saltwater performance over standard drum brakes



81004

DEX 81097 10" Galv-x drum brake assembly L & R (pair)
DEX 81004 5-Bolt, 10" Drum hub only, with cups & studs (each)

Dexter Marine
Wheel Brake Cylinders



- Fits 10" or 12"
- Aluminum wheel cylinder
- Superior salt water performance
- Includes mounting screws

DEX 11345 LH
DEX 11346 RH

Dexter Lug Nuts & Bolts



DEX 81172 1/2" lug nuts, 5/pkg
DEX 81170 1/2" lug bolts, 5/pkg

Dexter Marine
Master Cylinder Kit



Disc brake master cylinder kit that fits Dexter/Tie Down 70Lp Actuator.

- Includes: Aluminum master cylinder, push rods, breakaway spring, gasket, baffle, rollers, pins, cap, hose, hose clamps and fitting (plastic slide/cuff not included)

DEX 47267NC

Dexter Marine
Flexible Hydraulic Brake Line Kits

Designed to be used on trailers using either surge brake actuators or power brake actuators (vacuum/hydraulic, air/hydraulic, electric/hydraulic). Brake lines provided are DOT/flexible hoses approved for use on all trailer brakes including disc brakes with floating callipers. All fittings are brass.
Add disc or drum brakes to your trailer. All hardware included, you supply the actuator and brakes. The "Add On" Axle Kit must be used with the Single Axle Kit. The Tandem Axle Kit combines both Single Axle and "Add On" Kits into one package.



Single Axle Kit

This brake line kit is designed to be used to replace existing brake lines or installed on a trailer that has not had brakes before
Kit includes: 2- 24" DOT flex hose, 1- 76" DOT flex hose, 1 - 240" DOT flex hose, 5-cable ties, 2-Union "T" connectors, 2 "T" clamps, 8-self taping screws & 4 cable clamps

DEX 80326



"Add-On" Axle Kit

"Add On" Axle Kit to be used with the Single Axle Kit.
Kit includes: 2- 24" DOT flex hose, 1- 76" DOT flex hose, 1 - 38" DOT flex hose, 4-cable ties, 2-Union "T" connectors, 2 "T" clamps, 8-self taping screws & 2 cable clamps

DEX 80327



Tandem Axle Kit

All in one kit includes hardware for tandem axle trailers.
Kit includes: 1- 240" brake line with male end connectors, 2- 76" brake line with male end connectors, 1- 38" brake line with male end connectors, 4- 24" brake lines with male end connectors, 4- three hole female T's, 1- T plug, 4- T clamps, 6- cable clamps, 14- #10 self tapping screws and 9- 15" cable ties

DEX 80328

Dexter Marine
Flexible Brake Line Kit



Two 1/8" ID x 24" flexible 3000 PSI, brake lines are ideal for disc brake installation requirements. Connects from brake caliper to female end of brake line or can be connected to existing steel lines. Flexible line connection required on G4 disc brakes.

DEX 81099

Dexter Marine
10" Brake Kit



- Kit comes with everything needed to replace trailer drum or disc brakes for faster stopping power
- Disc brake actuator features cast ball clamp, oversized master cylinder, with back flow style solenoid installed
- Includes pair of GalvX coated vented rotor disc brakes, disc brake actuator, brake line kit and free backing solenoid
- Includes brake hoses, brass fittings and attachment hardware
- (DOT 3 brake fluid not included)

DEX 82405

Parts:

DEX 12114	S/S slider guide pins, 1/2" dia. (each)
DEX 48804	Master cylinder fill cap and bladder

Dexter Marine
Model 66 Brake Actuators



82400

An all aluminum master cylinder incorporates the shock absorber into the cylinder assembly providing the operator with a warning signal in low fluid conditions. This oversized master cylinder provides enough pressure and fluid volumes to run both tandem and tri-axle configurations.

Other features include:

- For trailers to 6,600 lbs capacity
- Cast ball clamp
- Extended latch lever
- Exterior emergency safety cable lock and release
- Vinyl coated coiled emergency stop cable
- Safety lock pin with back up position
- Available for disc or drum brake applications.
- For 2" trailer ball only

DEX 82400	Disc brake unit
DEX 82401	Drum brake unit

Parts:

DEX 48804	Master cylinder fill cap and bladder

Tie Down Engineering
Hitch Cables & Safety Chains

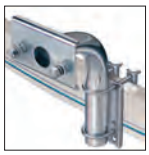


59533 81202 81255

- Replace your noisy chains with self-coiling hitch cables
- Available plain or vinyl coated
- Both use durable galvanized aircraft cable construction
- Hitch cables exceed SAE J684 standards for trailer coupling and automotive type hitches
- NMMA certified

TIE 59533	Black vinyl 36" rated Class 1 2000# trailer
TIE 59535	Galvanized 36" rated Class 2 3500# trailer
TIE 59537	Black vinyl 36" rated Class 2 3500# trailer
TIE 59541	Black vinyl 36" rated Class 3 5000# trailer
TIE 81202	3/16" x 31" zinc plated rated Class 2 trailer 2/pkg
TIE 81203	1/4" x 31" zinc plated rated Class 3 trailer 2/pkg
TIE 81255	Rubber "S" Hook safety chain keepers 2/pkg
TIE 81201	Bow safety chain 3/16" x 15-1/2" 1/pkg

Fulton HD Spare Tire Carrier



- Fits trailer wheels up to 16-1/2"
- Provides 4-3/4" lift and over 7" of offset
- Fits trailer tongue up to 3" wide by 5" high
- Galva-Tech finish for corrosion protection
- Easy bolt-on installation, no cutting or drilling required
- All mounting hardware and instructions included

FUL HDSTC 0101 ** 4, 5 & 6 bolt lug

** While Stock Lasts

Tie Down Engineering
Hi-Mount Spare Tire Carrier



- High mount tire carrier accommodates 4, 5, and 6 lug wheels
- Hot dip galvanized for lasting protection
- Fits all trailer frames up to 3" W x 4" H
- Made of heavy duty steel tubing
- Includes carriage bolts and lug nuts

TIE 86101

Tie Down Engineering
Side Mount Tire Carrier



- Adjustable bolt circle fits both 4 lug and 5 lug wheels
- Offset height raises tire and provides additional ground clearance
- Security holes provide for optional cable and lock (not included)
- Hot dip galvanized for lasting protection
- Fits all trailer tongues up to 3" wide by 4" high
- Extra heavy duty welded steel construction

TIE 86098

Tie Down Engineering Spare Tire Carriers

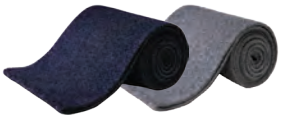
- U-bolt 7/16" in design accommodates 4 & 5 lug wheels
- Fits 8" - 14" tires and most 15", and all trailer frames up to 3" wide
- 3" thread length, overall length 8-3/4"
- Zinc plated for lasting protection



86052

TIE 86091	No brackets
TIE 86092	With brackets

Tie Down Engineering Bunk Carpeting



- All-weather marine grade carpet resists rot and mildew
- 11" x 12'

TIE 86137 Black
TIE 86138 Grey

Tie Down Engineering Bunk Slicks



Bunk slicks secure directly to the tops of 2×4 or 2×6 bunk boards, making launching and loading much easier.
The 10 piece package is sufficient for two 8' bunks.

- Stainless steel mounting hardware included

TIE 86164 3" x 16"

Tie Down Engineering Modular Bunk Glide-Ons

Self-centering bunk glide-ons feature interlocking modular sections that make loading and unloading your boat effortless.



- Fits 2" x 6" bunk boards up to 16' (or two 8' boards)
- Includes 4 x 3' sections and 4 x 1' end sections
- Mounting hardware included

TIE 86295 Black
TIE 86296 White

Tie Down Engineering Bunk Glide-Ons

Self-centering bunk glide-ons make launching and loading your boat easier.



- PVC construction
- Fits 2" x 4" bunk boards
- L: 4'
- Sold in packs of 4 pieces

TIE 86162 White

Tie Down Engineering Adjustable Fender

This fender can accomodate almost all dual-axle trailer sizes and configurations.



- Features a teardrop design
- Made with .080 Aluminum Treadbrite
- Can adjust from 60"-72" in length
- W: 9" x H: 16"

TIE 86269

Fulton Boat Roller Guides



- Non-marring cushioned rollers prevent hull damage and scuffing
- Galva-Tech finish for corrosion protection
- Stainless steel pins hold rollers in position to maintain hull contact under all loading conditions
- Fits all trailer frames up to 3" wide and 5" high

FUL BGR20 0101 ** Height 20", pair
** While Stock Lasts

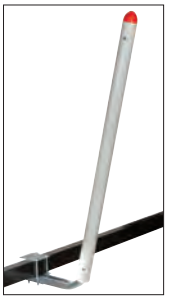
Fulton Boat Guides



- Non-marring marine grade PVC
- Universal mounting system fits all trailer frames up to 3" wide and 5" high

FUL GB44-0101 ** Height 44", pair
FUL GB150-0100 ** Height 50", pair
** While Stock Lasts

Tie Down Engineering Heavy Duty Guides



- 48" high PVC pipe guides your boat on safely and gives you visual aid when backing an empty trailer
- Non-marking PVC pipe is braced inside with metal tubing going 20" up the tube
- All hardware is included and is hot dip galvanized for corrosion protection

TIE 86103 Pair

Tie Down Engineering Floating Guide Post



This post allows you to choose whether to notch it at a specific height or set it in floatable mode, allowing the waterline to automatically adjust the height as it enters or exits the water. The post can remain above the waterline and function regardless of the ramp inclination.

- Overall height adjusts from 48"-60"
- Metal tube made from heavy-duty 14 guage steel, pre-galvanized and powder coated
- 20° slant through the bottom 18" to allow for varying hull shapes
- PVC pipe is non-marring and hides floating slot and holes
- Width can adjust 8"
- Mounting bracket fits 3" or 4" tall frame rails

TIE 86568 Black

Tie Down Engineering Pontoon Trailer Guide-Ons



- Adjustable view height of 24" - 36"
- When the trailer is submerged, the PVC guide rises upward adding an additional 12" of sight
- Bright orange end caps
- Made of 1-1/2" square, 16-gauge steel galvanized tubing and covered by 2" x 20" PVC pipe
- Guide posts extend fully into the PVC tube for additional strength
- Fits cross members 2" x 2", 2" x 3" and 2" x 4"
- All mounting hardware included

TIE 86468 Pair

Tie Down Engineering Adjustable PVC Guide-Ons



Bright orange end caps on these PVC guides provide a visible target when loading your boat. Adapts to most tube and channel trailer frames and galvanized for long lasting protection.

- 48" high with up to 16" of side adjustment
- Heavy-duty steel component parts included

TIE 86105 Pair

Tie Down Engineering Fixed Angle Roller Guide-Ons



Mount these on top or beneath the frame for precise placement.

- 13" rubber rollers
- Galvanized guide mount
- Adjusts up to 13" W on each side
- Fits frames 2"-4" in height
- Hardware included

TIE 86102 Pair

Tie Down Engineering Low Rider Guide-Ons



Ideal for Jon boats, bass boats, and personal watercraft while providing the strength of traditional guide-ons.

- Covers made from high impact, non-marking, molded PVC
- Posts made of 1-1/2" square, 16 gauge steel tubing (galvanized)
- Mounts to trailer cross members 2" W x 2"-4" H
- Mounting hardware included

TIE 86466 Pair

Tie Down Engineering Bunk Board Guide-Ons



86123



86124

- Carpeted bunk boards
- Bunk placement if mounted above frame is 19"
- Outside of the frame there is 5"-11" of side movement
- U-bolts and nuts are zinc plated
- Mounting hardware is galvanized for corrosion protection
- Fits frames 2" & 3" wide up to 4" high
- Sold in pairs with all hardware included

TIE 86123 2' kit
TIE 86124 5' kit

Tie Down Engineering Swing Tongue Kits



- SwingKing bolt-on swing tongue kit converts a normal tongue into a swing tongue
- Pivot hardware included (pull pin with lanyard, bolt, nut, and washers)

TIE 86510 3" x 3" tongue
TIE 86512 3" x 4" tongue
TIE 86514 3" x 5" tongue

Curt Adjustable Tri-Ball Mount



- Adjustable tri-ball mount fits any 2" x 2" receiver tube opening
- Adjustable height allows for precise trailer leveling
- 1-7/8", 2", and 2-5/16" permanently attached trailer balls can be rotated to quickly switch between sizes
- GTW: 6,000 (1-7/8")
  7,500 (2")
  10,000 lbs (2-5/16")
- Shank can be flipped for max drop or rise of 5-3/4"
- Length: 16"
- Includes 3x 5/8" diameter pins and clips

CUR 45799

RockGARD 2" Drop Ball Mount



- Expands completely tight in the receiver, with no ball mount movement in any direction
- Eliminates annoying clatter from loose ball mounts
- Eliminates clanking noises during acceleration and deceleration caused by ball mount shuttling from loose fitting hitch safety pins
- Use with most 2" x 2" square receivers
- 7,500 lbs GVWR and 750 lbs tongue weight rating
- Powder coated finish
- Complete with pin and clip

ROC QUIETITE **
** While Stock Lasts

Curt Hitch Pin with Groove



- Bent handle and grooved pin allow for easier insertion at any angle
- Fits 2" receiver tubes; 5/8" pin dia
- High-strength steel with zinc plated finish

CUR 21505

Curt 2" Forged Ball Mount



- Solid, forged steel construction ball mount
- Fits 2" receiver tubes
- Accepts 1-1/4" trailer ball shank
- 2" shank, 2" drop, 1" rise, 8-1/2" L
- Carbide black powder coat finish

CUR 45340

Curt 2" Loaded Ball Mount



- Fits 2" receiver tubes
- Includes factory-torqued trailer ball
- GTW / TW = 7,500 / 750 lbs
- 2" ball, 2" drop, 8-1/4" length
- Hollow 2" shank
- Chrome-plated finish
- Pin and clip included

CUR 45295

Curt Dual-Length Ball Mounts



- Fits 2" receiver tubes
- Two hitch pin holes for varying length
- Robotically welded steel construction with gloss black finish
- GTW / TW = 7,500 / 750 lbs
- 1” hole

Part #	Length	Drop	Rise
CUR 45220	7-1/2" or 10-1/2"	2"	3/4"
CUR 45230	8-1/8" or 11-1/8"	4"	2"

Curt Straight Tongue Couplers



25131

- Spring and nut posi-lock mechanism allows for easy adjustment
- Holes to accept safety pin or coupler lock
- High-strength steel construction
- Zinc-plated finish
- SAE J684 tested

Part #	Fits Ball Size	SAE Class	Trailer GVW.lbs	Tongue Mount Width
CUR 25131	1-7/8"	I	2,000	3"
CUR 25153	2"	II	3,500	2"
CUR 25138	2"	II	3,500	3"

Curt Trailer Balls



- Fine threads for superior holding strength
- Tested to meet US VESC V-5 specifications
- Chrome-plated finish
- Zinc-plated hardware
- 0" rise
- 40030 = heat treated

Part #	Ball	Max. Trailer	Shank Length x Dia
CUR 40001	1-7/8"	2,000 lbs	1-5/8" x 3/4"
CUR 40002	1-7/8"	3,500 lbs	2-1/8" x 1"
CUR 40015	1-7/8"	2,000 lbs	2-1/8" x 3/4"
CUR 40003	2"	3,500 lbs	1-3/4" x 3/4"
CUR 40018	2"	3,500 lbs	2-1/8" x 3/4"
CUR 40037	2"	7,500 lbs	2-1/8" x 1"
CUR 40090	2"	10,000 lbs	2-5/8" x 1-1/4"
CUR 40005	2-5/16"	7,500 lbs	2-1/8" x 1"
CUR 40030	2-5/16"	15,000 lbs	2-5/8" x 1-1/4"

Curt Trailer Ball Cover



- Protects trailer ball when not in use
- Quality black rubber construction
- Fits 1-7/8" and 2" trailer balls

CUR 21801

Trimax RAZOR Adjustable Tow Hitches



- Stainless steel or powder coated face
- 10,000 lLbs tow rating, ball limited
- 1500 lbs max tongue weight
- Contains free keyed alike 5/8" receiver lock, T3
- Adjusts in 1" increments
- Hitch balls not included



Powder Coated Face

TMX TRZ6PB	6" drop or rise
TMX TRZ8PB	8" drop or rise

Curt Universal Coupler Lock



- Die-cast trailer lock with dual-ratchet locking system
- Universal design fits most couplers
- Hammer-tone epoxy finish
- Two keys included
- Dimensions: W: 7-1/4" x H: 6" x D: 3-1/4"

CUR 23659 *

* Special Order - may have stock

NEW

Curt Universal Trailer Coupler Lock



- Hardened steel and chrome plated U-lock with orange corrosion resistant powder coat finish
- Works on 1-7/8", 2", or 2-5/16" couplers
- U-lock inside width of 3-7/8" fits most trailers
- Ratchet locking system for easy operation
- Includes two keys

CUR 23090

Trimax Universal Coupler Lock



- One size fits all: from 1-7/8", 2" to 2-5/16"
- Provides 360° of hardened steel protection
- Reinforced armoured shoulder guard resists hammer strikes and saw cuts
- Corrosion resistant finish
- Key hole cover protects from grime & dirt

TMX UMAX50

Trimax Premium Universal Coupler Lock



- One size fits all: from 1-7/8", 2" to 2-5/16"
- Large 6 tooth 3/8" locking lug system
- Provides 360° of hardened steel protection
- Ballistic nylon housing absorbs blows and provides weather protection
- Key hole cover slides closed to protect from dirt

TMX UMAX100

Curt Coupler Lock



- Brass-plated finish, with hardened steel locking pin
- 1/4-turn lock activation
- Watertight dust cap
- Fits 3/4" max latch span
- Two keys included
- H: 2" x D: 1-3/4"; 1/4" pin

CUR 23022

Sea-Dog Two Piece Coupler Lock



- Zinc, brass plated construction
- L: 1-11/16" x W: 1-13/16"
- Lock opening: 3/4"

SED 751030-1

Sea-Dog Coupler Locking Pins



Square Coupler Pins add an additional level of security, preventing accidental uncoupling while in transit.

- Snap lock bale spring tensioned
- Made from electro-galvanized steel
- Fits most coupler sizes

SED 751010-1	Pin dia. 1/4", 3" x 1-13/16"
SED 751011-1	Pin dia. 5/16", 3" x 2"

Trimax Coupler Locks



- Secures couplers with up to a 7/8" span
- Easy 1/4 turn locking
- Hardened steel 1/4" pin
- Internal O-ring and weather proof cap to seal out dirt
- Protective rubber cover on body prevents noisy rattle & abrasion

TMX TMC10	Round key lock

Trimax Coupler Locks



- Fits couplers 7/8", 2-1/2" to 3-1/2"
- Features 1/4 turn technology that cannot be false locked
- O ring keeps water, grime and dirt out of locking mechanism
- Type A key which is a spring loaded, 7 pin, high security key that will not bend or break
- Resists attempted drill outs

TMX TC123	Chrome plated machine hardened steel
TMX SXTC123	Stainless steel

Trimax Coupler Lock



- 100% stainless steel
- Fits up to 3-1/2" span
- Features 1/4 turn technology that cannot be false locked
- O ring keeps water, grime and dirt out of locking mechanism
- Protective rubber cap protects keyhole
- Type A key which is a spring loaded, 7 pin, high security key thqat will not bend or break
- Resists attempted drill outs

TMX SXTC3	Up to 3-1/2" span

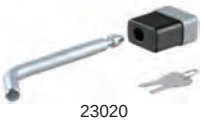
Curt Hitch & Coupler Lock Set



- 1/4-turn lock activation
- Watertight dust caps
- Lock pin dia: 5/8, coupler pin dia: 1/4"
- Four keys included, keyed alike
- Chrome-plated finish
- Fits: Latch couplers, 2" receivers, 7/8" latch span
- Includes hitch lock and coupler lock

CUR 23526

Curt Hitch Locks


23020

- Dead bolt style
- 1/4-turn lock activation
- Chrome-plated, with watertight dust cap
- Two keys included

CUR 23020 1/2" pin for 1-1/4" tube
CUR 23021 5/8" pin for 3" tube

Trimax Receiver/Coupler Lock Set



- Keyed alike set
- Combination of a T-3 5/8" receiver lock & TC1 7/8" span coupler lock
- No internal springs to seize or break
- Polished steel with stainless steel internal components

TMX TM31

Trimax Receiver/Coupler Lock Set



- Keyed alike set with a SXT3 5/8" receiver lock & span coupler
- 100% stainless steel
- Features 1/4 turn technology that cannot be false locked
- O ring keeps water, grime and dirt out of locking mechanism
- Protective rubber cap protects keyhole
- Type A key which is a spring loaded, 7 pin, high security key
- Resists attempted drill outs

TMX SXTM31 7/8" span

Trimax Receiver Lock



- Easy 1/4 turn operation
- Made of chrome plated machine hardened steel
- Large 1/4" dual lock lugs prevent false locking
- Integral O-ring and water tight cap seals out dirt and corrosion

TMX TR200 5/8" pin for class III, IV & V receivers

Trimax Tire Nut Lock



- A quick and easy solution to tire theft
- Locks over the tire nut preventing removal

TMX TNL740

Trimax Braided Cables



Quadra Braid cable with dual loops

TMX TDL1212 12' x 12mm
TMX TDL1510 15' x 10mm

Trimax Versa Cable Lock



A multi-use versa-cable lock featuring a Trimaflex cable 6 feet in length by 10mm diameter with a locking cinching feature.

TMX VMAX6

Trimax LED Cable Lock LED



- Push button LED illuminates combination lock for easy night use
- 12mm x 6' Trimaflex braide self coiling cable
- Includes quick release bracket

TMX TRL126

Trimax Padlock



- 4/pkg of keyed alike

Marine grade dual locking solid brass body lock with a hardened .87" x .25" diameter shackle.

TMX TPB487

Trimax Padlock



- Marine grade dual locking solid brass body lock
- Hardened 1-1/8" x 5/16" diameter shackle

TMX TPB1125

Trimax Weatherproof Padlock



Weatherproof laminated solid steel body lock with dual locking shackle.

- 1-1/8" x 5/16" shackle

TMX TPW1125

Trimax Resettable Combination Lock



- A resettable combination
- Solid brass lock with 2" body
- 1-1/4" x 5/16" diameter hardened shackle

TMX TPC125

► *Also See* Hasps pg 04-066 to 067

Trimax Wheel Chock Locks



- Quick and easy installation
- Locks and chocks wheel for roll prevention
- Rubber coated arms protect wheel finish
- Heavy gauge powder coated construction

TMX TCL65 Closed: 6", Open: 10.5", Reach: 7.25"
TMX TCL75 Closed: 7", Open: 11.25", Reach: 10.5"

Trimax Ultra-Max Wheel Lock



- Wheel lock with disc to cover lugs nuts and prevent tire removal and theft
- Easily adjusts to fit many different size tires and wheels

TMX TWL100




Attwood Pontoon Storage Blocks

- Lightweight and extra-strong pontoon blocks
- Contoured design fits the shape of a pontoon
- Bottom has a molded-in texture to ensure maximum grip on concrete or ground surfaces, while the pre-drilled holes make fastening or staking easy
- Drainage channels and holes prevent water from pooling against your pontoon
- Conveniently stack together when not in use
- Each block holds 3,000 lb. capacity
- 13-1/2" x 13-1/2" x 9-1/2"
- Sold as set of 4

ATT 11401-4

Camco Wheel Chock



- Chocks keep your trailer in place so you can re-hitch with confidence
- Solidly constructed of durable hard plastic with UV inhibitors
- Includes rope for ease of use
- D: 8.25" x H: 4.56" x W: 4.88"

CAM 44472

Camco Super Wheel Chock



- Chocks keep your trailer in place so you can re-hitch with confidence
- Solidly constructed of durable hard plastic with UV inhibitors
- D: 10" x H: 6.5" x W: 8.5"

CAM 44492

Camco Wheel Dock



- Prevent your trailer tongue wheel from rolling on the pavement or sinking into soft ground
- Heavy duty, durable dock is easy to store and transport
- D: 1.75" x Dia: 12"

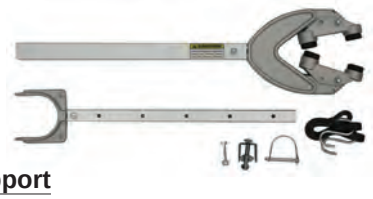
CAM 44632

Curt Wheel Chock Set



- Chocks keep your vehicle in place
- Raised tread offers a better grip on the wheel, while saw-tooth edges on the base provide solid traction on the ground
- For wheels up to 17" wide
- Durable plastic construction
- W: 6.12" x L: 8.25" x H: 4.75"

CUR 22800 pair



JIF Marine Tourney Pro Motor Support

- Adjusts from 24" to 36"
- Constructed with high-strength aluminum
- Includes bolt-on and over-the-roller brackets

JIF FXJ



Panther Transom Saver / Motor Support

- Motor support saves your transom during trailering
- Adjusts from 28" to 59" to reach hard to access trailer crossbars
- Comes with bracket attachment and 10" rubber bungee
- Fits most popular brands of trailers
- Easily removed for loading and unloading.

PAN 55-1900

Parts:

PAN 99-55805 Rubber V only



Springfield Guardian Motor Support

- Adjusts from 20-5/8" to 32"
- Protects leading edge of motor's lower unit
- Reduces wear on steering mechanism
- Over the roller or bolt-on installation
- High-strength cast aluminum with high-strength composite components

SPR 1780242



Springfield Motor Support

- Adjusts from 26" to 56"
- Made for those hard to reach crossbars that extend under the boat
- Easy to install with included bracket attachment

SPR 1780250

Sierra Trailering Clips



- Protect trim and tilt hydraulics during trailering

Mercury ONLY

SIE 18-9099 2/pkg

Panther Trailering Clips



Fits most cylinder rods on engines manufactured in 1997 and newer. Snaps over outboards hydraulic steering and cylinder rods. Helps keep engine centered during transport.

PAN 55-2190 2/pkg

Davis Motor Caddy Harness



- Securely attaches to outboards, providing a safe and secure handle for carrying, hoisting, and moving heavy, outboard motors
- Made of tough UV-rated materials, this harness is designed to remain on the motor permanently
- Easily removed, allowing quick access to the motor
- One size works on all 2 - 15 hp outboards

DIN 430

Titan Deluxe Outboard Motor Trolley



- Powder coated steel frame
- 4 x 8" solid steel rear wheels with 2 x 3" front casters and a heavy-duty steel shaft
- 315 lbs capacity
- Includes a heavy duty cloth tool bag and buckle strap for gas tank
- Rubber handles with ergonomic grip
- User-friendly assembly instructions and all of the required tools
- Ideal for storing, moving and displaying outboard motors

TIT 10826943

Titan Motor Stand



- Powder coated steel frame
- Solid and durable high-density HDU/PU (Polyurethane) mounting board
- Solid polyurethane wheels with a heavy-duty steel shaft
- 175 lb capacity
- Handles 4 stroke outboard motors up to 30 hp
- Includes a heavy duty cloth tool bag & buckle strap for the fuel tank
- Features rubber handles with an ergonomic grip
- Includes user-friendly assembly instructions and all of the required tools

TIT 10826942

Titan Stern Drive Installation Jack



- Perfect for shop and yard use with hydraulic jack for ease of use
- 4 pneumatic wheels allow for easy movement throughout the shop and yard
- Allows for easy and safe removal and installation of stern drives
- 3-axis adjustment for proper alignment and configuration
- Heavy duty lifting capacity
- 550 lb working load limit
- 180 lbs
- L: 53" x W: 32" x H: 34"

TIT CMJACKV2

Dock Edge Collapsible Dock Cart



- 8.77 cubic foot (0.24 m3) cargo area
- Removable ends for long loads
- Collapsible for quick & easy storage
- E-Z-Roll inflatable pneumatic tires easily traverse the most irregular surfaces
- Corrosion resistant aluminum
- Load capacity up to 300 lb (136 kg)

DOC 90-700-F

Dock Edge iCart



- Removable heavy wall poly bucket
- Powder coated steel frame
- Inflatable pneumatic tires
- Load capacity: 300 lbs (136 kg)

DOC 90-600-F

Davis Wheel-A-Weigh



- Detent pin on each pivot brackets allows positioning wheels up or down, or removal for storage
- Curved wheel frames, allowing wheels to pivot under the boat, moving the balance point forward to make moving heavier loads easier
- Inflatable 14" wheels
- 316 stainless steel frame and pivot bracket
- 330 lb capacity
- Precision, non-corrosive wheel hubs
- Stainless steel installation hardware included
- Easy-to-follow instructions

DIN 1483 ** Heavy duty

** While Stock Lasts

C-Tug Kayak Trolley

Most versatile and durable kayak trolley on the market







- Lightweight and easy-to-handle
- Reinforced composite material with thermo-bonded elastomeric hull pads
- Puncture-free wheels with hi-grip rubber tread
- Stainless steel reinforced axles
- 7-1/2' strap with cam-lock buckle
- Adjustable kick-stand
- Tool-free assembly
- Dismantles in under 20 seconds; fits inside kayak hatch
- Carries up to 300 lbs
- Weight: 9 lbs
- Made in New Zealand
- 5 year warranty

CTG 50-0001-71

C-Tug SandTrakz Kayak Trolley



All the same features as the standard Kayak Trolley but with SandTrakz wheels. SandTrakz puncture free wheels mimic long track systems, the outer rim compresses when in use giving a longer track length. On soft sand this reduces how hard you have to pull to move your trolley by more than half compared to standard puncture free Kiwi Wheels. Whilst they are designed to make life easier on soft surfaces, SandTrakz wheels are great on hard surfaces. Because C-TUG SandTrakz are designed to compress they act like suspension on hard surfaces, making for easy transition from soft to hard surfaces.

- Carries up to 170 lbs

CTG 50-0006-71

C-Tug R Kayak Trollies





- Adjustable 20" non-slip rubber hull rails fit all vessels of the original, and now fits a wider selection including pontoon hulls
- Constructed of UV-resistant non-corrosive engineering grade polymers
- Adjustable kick stand, and stainless steel reinforced axles
- Strap kit includes 1x 1.2m webbing, 1x 1.6 webbing with die cast aluminum cam-lock buckle, and 2x ladder locks
- Lightweight at 8.8 lbs, easy to assemble - no tools required, and stows easily in canoe or kayak hatch
- 220 lbs static loading
- 5 year warranty

CTG 50-0010-71 with Kiwi wheels
CTG 50-0014-71 with SandTrakz wheels

C-Tug R Conversion Kit



- Adjustable 20" non-slip rubber hull rails
- Compatible with both Kiwi and SandTrakz carts
- Rails constructed of UV-resistant ABS, acetal, and polypropylene plastic
- Polyester webbing strap and die cast aluminum cam-lock buckle

CTG 50-0012-71

C-Tug Double Up Bar



The Double Up Bar allows you to assemble 2 x C-TUGs together, spreading the load and allowing you to carry heavier kayaks or boats. The bar is a specific length to keep the wheels close together allowing the double cart to be turned easily. Once loaded and balanced no lifting is required, all you have to do is pull it. Works with the standard C-TUG & C-TUG SandTrakz. Fits any C-TUG old or new.



- Easily disassembled
- Supplied with 2 x extended straps
- Carry weights up to 160kg (350lbs) static loading
- Works with C-TUG and C-TUG SandTrakz
- Ideal for heavy kayaks, dinghies & inflatable boats

CTG 50-0007-71

C-Tug Parts

CTG 50-0005-71	SandTrakz wheels (pr)
CTG 50-0003-71 **	Sidewinder - wheel extenders
CTG 50-0013-11	14.5' x 1" tie downs, pair
CTG CT-1002	Cross beam
CTG CT-1003	Kick stand
CTG CT-1024	Toggle lock & pin
CTG CT-1065	Strap kit w/cam lock buckle
CTG CT-1025	Wheel bushing kit (4/pkg)

** While Stock Lasts

Megaware KeelGuard Protection

Save your boat from grinding sand, abrasive rocks and concrete ramps. Each kit includes: KeelGuard bonded with 3M adhesive, 3M primer, etching pad, burnishing tool, and detailed installation instructions.

- Ultra tough Polymer composite
- Hydrodynamic drag reduction channels
- Increases the value of your boat
- Eliminates costly repairs
- Lifetime no-hassle warranty



MKG 102-4'ALMOND	5" x 4'
MKG 102-4'WHITE	5" x 4'
MKG 102-5'WHITE	5" x 5'
MKG 102-6'BLACK	5" x 6'
MKG 102-6'WHITE	5" x 6'
MKG 102-6'GREY	5" x 6'
MKG 102-6'ALMOND	5" x 6'
MKG 102-7'BLACK	5" x 7'
MKG 102-7'WHITE	5" x 7'
MKG 102-7'ALMOND	5" x 7'
MKG 102-8'WHITE	5" x 8'
MKG 102-8'ALMOND	5" x 8'
MKG 102-8'BLACK	5" x 8'
MKG 102-9'WHITE	5" x 9'
MKG 102-9'ALMOND	5" x 9'
MKG 102-10'WHITE	5" x 10'
MKG 102-12'WHITE	5" x 12'
MKG 102-19'WHITE **	5" x 19'



** While Stock Lasts

For Most Boats:
Measure from a point on the bow 6" above the waterline to at least 2 ft. beyond the lowest point of the keel.

For PWC's:
Measure from the bow eye to a point 4" to 6" forward of the jet intake grate.

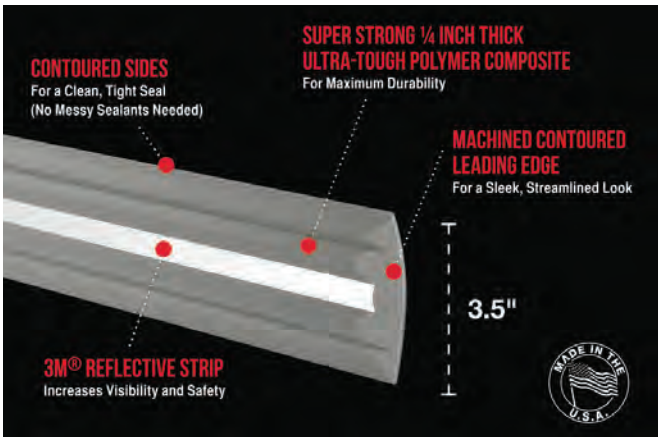




Megaware KeelGuard ScuffBuster

- Stainless steel ScuffBuster protects your gelcoat from bow rollers and trailer scuffs
- Using 3M pressure sensitive adhesives, ScuffBuster installs in minutes

MKG SB-637	Solid, 5.75" x 4.5"
MKG 80637	Solid extra large, 9" x 8.75"
MKG SB-638	Notched, 5.75" x 4.5"
MKG 80638	Notched extra large, 9" x 8.75"



Megaware Pontoon Guards

- Super strong 1/4" ultra-tough polymer composite
- Do-it-yourself 3M bonding system
- Special 3M reflective safety strip increases visibility at night
- Machined contoured leading edge
- Contoured sides for clean, tight seal (no messy sealants needed)
- 3-1/2" wide
- Patented burnishing tool included in kit
- Three year adhesion warranty
- Two sizes to fit virtually any pontoon boat
- 2 per package

MKG PG-32'BLACK	16'
MKG PG-32'BLUE **	16'
MKG PG-32'GRAY *	16'
MKG PG-32'RED **	16'
MKG PG-40'BLACK	20'
MKG PG-40'BLUE **	20'
MKG PG-40'GRAY *	20'
MKG PG-40'RED **	20'



* Special Order - may have stock
** While Stock Lasts

RockGARD Boat Protection



Patented hull protection device that eliminates road-tar and damage caused by rocks and road debris. Easy to install and remove for safe access when boat launching.

- Zinc plated steel hardware
- 100% polyester mesh with UV resistant PVC black coating
- One year warranty
- Size refers to height from trailer frame tongue

ROC RG-SMALL	27" x 8'
ROC RG-MED	33" x 9'
ROC RG-LRG	39" x 10'
ROC RG-LRG-XL	39" x 12.6'
ROC RG-MAXX	47" x 11'

RockGARD Pontoon



Specially designed, unique shape gets around and protects the wide bows of pontoon boats.

- Protects against damage caused by rocks and road debris
- Easily equipped and removed from any size trailer
- Universal ready-bolts fit onto all trailers up to and including 8" thickness
- Maximum available protection
- Durable and lightweight fabric

ROC RG-PONTOON 39.5" (special front design)

Hardline Products Stick On Numbers & Letters

The industries most Popular 3" style letters and numbers. The Dyer style has become the standard for die-cut decals.

- Meets USCG Regulations
- Durable waterproof black or white vinyl
- Laminated for fade and fuel resistance
- Individually bar coded
- Self-aligning



Black Letters	White Letters
HRD 3-SCB-P-A	HRD 3-SCW-P-A
HRD 3-SCB-P-B	HRD 3-SCW-P-B
HRD 3-SCB-P-C	HRD 3-SCW-P-C
HRD 3-SCB-P-D	HRD 3-SCW-P-D
HRD 3-SCB-P-E	HRD 3-SCW-P-E
HRD 3-SCB-P-F	HRD 3-SCW-P-F
HRD 3-SCB-P-G	HRD 3-SCW-P-G
HRD 3-SCB-P-H	HRD 3-SCW-P-H
HRD 3-SCB-P-I	HRD 3-SCW-P-I
HRD 3-SCB-P-J	HRD 3-SCW-P-J
HRD 3-SCB-P-K	HRD 3-SCW-P-K
HRD 3-SCB-P-L	HRD 3-SCW-P-L
HRD 3-SCB-P-M	HRD 3-SCW-P-M
HRD 3-SCB-P-N	HRD 3-SCW-P-N
HRD 3-SCB-P-O	HRD 3-SCW-P-O
HRD 3-SCB-P-P	HRD 3-SCW-P-P
HRD 3-SCB-P-Q	HRD 3-SCW-P-Q
HRD 3-SCB-P-R	HRD 3-SCW-P-R
HRD 3-SCB-P-S	HRD 3-SCW-P-S
HRD 3-SCB-P-T	HRD 3-SCW-P-T
HRD 3-SCB-P-U	HRD 3-SCW-P-U
HRD 3-SCB-P-V	HRD 3-SCW-P-V
HRD 3-SCB-P-W	HRD 3-SCW-P-W
HRD 3-SCB-P-X	HRD 3-SCW-P-X
HRD 3-SCB-P-Y	HRD 3-SCW-P-Y
HRD 3-SCB-P-Z	HRD 3-SCW-P-Z
HRD 3-SCB-P-#0	HRD 3-SCW-P-#0
HRD 3-SCB-P-#1	HRD 3-SCW-P-#1
HRD 3-SCB-P-#2	HRD 3-SCW-P-#2
HRD 3-SCB-P-#3	HRD 3-SCW-P-#3
HRD 3-SCB-P-#4	HRD 3-SCW-P-#4
HRD 3-SCB-P-#5	HRD 3-SCW-P-#5
HRD 3-SCB-P-#6	HRD 3-SCW-P-#6
HRD 3-SCB-P-#7	HRD 3-SCW-P-#7
HRD 3-SCB-P-#8	HRD 3-SCW-P-#8
HRD 3-SCB-P-#9	HRD 3-SCW-P-#9

Hardline Products Display Kit



22" x 24" hardboard display panel with plastic pockets that come complete with 10 of each letter and 10 of each number in a solid black die cut vinyl.

HRD 2B-P

Hardline Products Stick-On Letter Kits



- 144 - 3" letters & numbers in a single consumer pkg
- 4 of each letter and number
- Letter a boat, PWC, snowmobile, car, truck, mailbox, etc

HRD BLK350EC	Black
HRD BLU350EC	Blue
HRD RED350EC	Red
HRD WHI350EC	White

Scotty SEEKER Powered by AIRMAR

ENVIRONMENTAL OPTICS

FREE FEATURE EXPANSION





The Scotty Seeker's new **Environmental Optics Channels** deliver light intensity, and colour rating directly to the **Seeker App**—giving you a clearer picture of the underwater world where fish actually live and hunt.

DON'T JUST FISH THE WATER.

UNDERSTAND IT.

Download on the App Store

GET IT ON Google Play

GET TO KNOW SCOTTY SEEKER™

Paddles, Oars, Oarlocks		17-002 to 003
Boat Storage		17-004
Inflatables & Ski Towing	Boat Mirrors	17-005
	Ski Towing Accessories	17-006
	Inflatables / Towables	17-007 to 011
	Solstice / SUP Accessories	17-011 to 012
	Rope / Pumps / Air Station	17-013 to 016
Fishing Accessories	Scanstrut Electronics Mounts	17-017 to 018
	Railblaza	17-019 to 025
	Rod Holders	17-024 to 031
	Downriggers	17-031 to 033
	Downrigger Parts & Accessories	17-033 to 037
	Pot Pullers	17-037
	Scotty Electronics Mounts	17-037 to 039
	Kayak Footbraces	17-039
	Fillet Tables / Fishing Accessories	17-040
Holders & Storage Accessories	Utility Holders / Gear Hammock	17-041
	Drink Holders / Galleyware / Cooler	17-042 to 044
Miscellaneous	Key Floats / Key Rings	17-045
	Entrance Mats / Boot Saver	17-045
	Retrieval Magnet / Sunglasses	17-045

Crooked Creek Paddles

- Lightweight, but built for performance
- Multi-ply laminated pine with polyurethane finish and brown epoxy blade tip
- Traditional shaft & grip



CRO 50431	4'
CRO 50432	4.5'
CRO 50433	5'
CRO 50434	5.5'
CRO 50435	6'

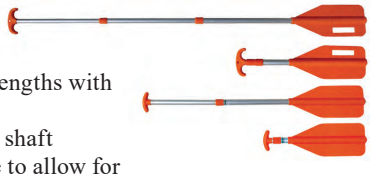
Crooked Creek Pro Paddles



- Premium lightweight wooden paddles specifically designed for light watercraft like canoes and rowboats
- Sturdy basswood base, with complementary red alder accent stripes and tips
- Enhanced durability for years of reliable usage

CRO 50448	Square paddle, 5'
CRO 50449	Beavertail paddle, 5'

Airhead Telescoping Paddles



- Adjusts easily to variable lengths with a simple twist
- A section of the aluminum shaft disappears inside the blade to allow for compact storage
- Corrosion-resistant aluminum shaft, high-impact molded blade and boat hook handle, and hassle-free locking device
- Bright orange blade is great for signalling in emergencies

AIR P-1	20" - 45" for low profile boats and PWCs.
AIR P-2	20" - 45" for low profile boats and PWCs, nylon storage bag included
AIR P-3	25" - 72" for higher profile boats

NEW

Crooked Creek Telescoping Paddle with Boat Hook



- Anodized aluminum shaft with high impact ABS plastic blade and boat hook with rubber tips and cord keeper hook
- Floats
- 1.25" shaft diameter
- Compact when collapsed
- Telescoping twist lock will hold at any position for ease of use

CRO 50470 36" - 54"

Fox 40 Telescoping Paddle



- Lightweight aluminum, corrosion-resistant shaft and high-impact molded plastic blade
- Adjusts to varying lengths with a quick twist of the handle
- Simple locking device ensures that extended handle remains in place while paddling
- Comfortable handle for a great grip
- 21" closed x 42" at fully extended

FOX 7928-0206

FOX 40 Telescopic Paddle with Bilge Pump



- Pump action, water spout in handle, and water intake hole in paddle provides bilge pump functionality
- Easy grip ergonomic T-handle offers docking assistance
- Compact when collapsed for easy storage, and extendable with simple twist locking device on shaft
- Corrosion resistant aluminum shaft, with blade made from high-impact molded plastic
- 25-1/2" to 43-1/2" length



FOX 7928-0216

Scotty Paddle Clips



- Low profile clip

SCO 136

Stick-On Paddle Clips

- Now with the option of a glue-on mounting pad
- Great for any inflatable watercraft, including kayaks and SUP's where drilling holes is not an option
- Using marine grade adhesive (not included), mount the clip, and snap in your paddle



SCO 342

Sea-Dog Paddle / Boat Hook Clip



- Allows for simple, one handed storage of paddle or boat hook
- 1-1/8" clip diameter
- Features leash attachment points and anti-snag ramps
- UV stabilized injection molded nylon
- Uses 1/4" RH fasteners

SED 491361-1

T-H Marine Paddle Holder



- Made of super tough, molded polymers
- Matte black finish

THM PK-1-DP

Crooked Creek Oars



- Lightweight, but built for performance
- Multi-ply laminated pine with polyurethane finish and brown epoxy blade tip
- Traditional shaft with comfort grip
- Shaft dia: 1-3/8"; Blade width: 4-1/2"

CRO 50400	5'
CRO 50401	5.5'
CRO 50402	6'
CRO 50403	6.5'
CRO 50404	7'
CRO 50405	7.5'
CRO 50406	8'

Caviness Power Grip Oar



- Lightweight, with even load distribution
- Includes red Caviness Power Grip
- Blade: 21" x 5"; Shaft: 1-1/2" dia.
- Sold by the each

CAV BWLSU-60 ** 6'

** While Stock Lasts



Quessy Pro Series Oars

- Made of laminated spruce
- Square tail
- Approximate blade width: 5"
- Handle length: 7.5"; Shaft: 1-3/4" dia.

QUE 155RA ** 5.5'

** While Stock Lasts



Airhead Oar Set

These inexpensive oars are designed for use with inflatable boats. The 2 section aluminum shafts are durable and lightweight. The 15 in. high impact plastic blades and grips are designed for maximum rowing efficiency and comfort.

- 1 pair per package

AIR AHIB-53 ** Length 53"

** While Stock Lasts

Scotty Oar Collars



- Made of flexible polyethylene
- Quick install with supplied fasteners
- Can be cut down for small shaft diameters
- 2/pkg

SCO 101BK Black

Scotty Oarlocks



- Molded nylon over a stainless steel pin core
- Low friction nylon gives smooth and quiet operation
- 1/2" straight shank
- 2/pkg

SCO 102BK Black, 2-1/8" ID
SCO 104 Black, 1-3/4" ID

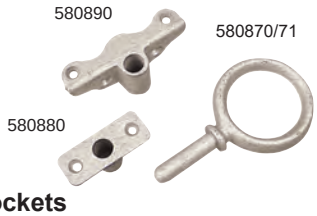
Perko
Bronze Oarlocks and Sockets



- Manganese bronze
- 1/2" shank
- Sold in pairs

PER 829-DP1-PLB * Round horn, 2-1/4" closed
PER 833-DP0-PLB * Angle mount socket

* Special Order - may have stock



Sea-Dog
Galvanized Oarlocks and Sockets

- 1/2" shank
- Sold in pairs

SED 580870-1 Round horn, 2"
SED 580871-1 Round horn, 2-1/4"
SED 580880-1 Regular socket
SED 580890-1 Angle plate socket



Sea-Dog
Cast Brass Oarlocks and Sockets

- Oarlock mounts include nylon inserts for smooth rotation
- 1/2" straight shanks
- Sold in pairs

SED 580570-1 Ribbed horn, 2" open
SED 580590-1 Round horn, 2" closed
SED 580591-1 Round horn, 2-1/4" closed

SED 580600-1 Top mount socket
SED 580610-1 Side plate socket
SED 580620-1 Angle mount socket

Parts:
SED 580699 White bushing

► *Also See* Holding Clips pg 04-079



Sea-Dog
Chromed Zinc Oarlocks

- Horn: shank 1/2" diameter x 2-1/4"
- Mount: shank 1/2" x 4-5/8" wide
- Recommended for freshwater use
- Sold in pairs

SED 580411-1 Horn pinned, 1-5/8"
SED 580412-1 Horn ribbed, 2"
SED 580425-1 Horn round, 2"
SED 580450-1 Top mount socket
SED 580451-1 Angle mount socket

Sea-Dog
Clamp-On Oarlocks



- Chromed zinc construction
- 1/2" shank
- Sold in pairs

SED 582060-1

Sea-Dog Angled Oarlock Socket



- Injected molded black nylon
- 3-1/16" W x 2-3/8" deep
- 1/2" pin

SED 580143-1 Each

Sea-Dog Oarlock Socket Bushings



Polypropylene oarlock socket bushings convert 5/8" oarlock to 1/2".

SED 582059-1 2/pkg, black

Scotty Oar Lock Posts



This post adapts to all Scotty rod holder mounts, and can then be fitted into the #248 oar lock mount socket.

SCO 103 2/pkg

Magma Stanchion Mount Board / Kayak Rack



- 304 stainless steel construction
- Stainless steel mounting brackets and hardware
- Attaches to vertical or angled stanchions from 7/8" (22 mm) to 1-1/2" (38 mm) diameter
- Instantly rotates and locks in place using Magma's exclusive quick release knob system
- Tie down securing points
- Each arm has (2) heavy duty stanchion attachment brackets
- Includes UV resistant polyethylene foam pads over mirror polished stainless steel tube
- Sold as a pair



MGP R10-626 12-5/16" wide
MGP R10-626-20 20" wide, holds up to 3 standard SUP's

Parts:

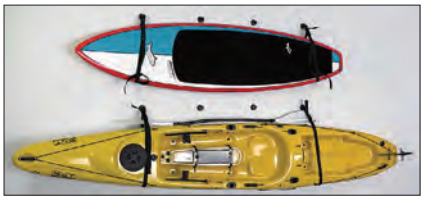
MGP 10-626C-14 Polyester fabric covers, pair
MGP 10-628 Clamp/bracket assembly, boat mount
MGP 10-044 Replacement knob and nylon washer

Scotty Leash w/Coil



Made with 2 extra strong Scotty 1009 swivel snaps combined with a super strong flex coil cord allowing for maximum unrestricted movement.

SCO 130BK



Railblaza Wall Sling Kit

- Storage of a wide range of watercraft including SUPs, canoes, windsurfers and kayaks
- The StarPort Wall Sling will free up space in your garage, shed or yard
- Installed in minutes and supplied with StarPorts, slings, adjustment buckles and screws

RBZ 04-4050-11

Harken Hoisters



Hoisters lift evenly from one, two or four points. Choose your system based on the shape and weight of the items you want to store. All standard Harken Hoisters are fully rigged. Here are a few storage ideas for different Hoister systems:
1-Point Bike/Utility Lift: bikes, garden equipment
2-Point Storage System: kayaks, ladders, tandem/recumbent bikes, removable seats
4-Point Storage Systems: canoes, dinghies, car top sports equipment carriers, Jeep tops, truck caps, storage shelves

When selecting your Hoister consider the following:
1. The weight of the item to be stored
2. The desired vertical lift distance

Standard Hoister system specifications:

Part #	Lifting Points	Working Load Limit	Min. Lifting Load	Max. Ceiling Height	Mechanical Advantage
HOI 7800	1	45 lb	10 lb	10 ft	2:1
HOI 7801	4	60 lb	15 lb	10 ft	3:1
HOI 7802	4	90 lb	25 lb	10 ft	4:1
HOI 7803	4	145 lb	45 lb	10 ft	6:1
HOI 7806	4	200 lb	75 lb	10 ft	8:1
HOI 7806.12	4	200 lb	75 lb	12 ft	8:1



Attwood Ski Mirror



- Mounts on dash or (windshields up to 3/4")
- Shatterproof 180º convex lens
- Chrome Zamak construction
- W: 7-5/16" x H: 2-1/2"

ATT 9083-7

CIPA 180° Mirror



- Large 18-5/8" x 5-5/8" convex mirror provides full 180° range of port to starboard rearview vision
- Cup mount with tightening knob works with the windshield mirror bracket 02310 (not included)

CIP 01600

CIPA Ellipse Mirror



- Great for boats with walkthrough windshields or boats without wakeboard towers
- Features one 3.25" x 6" convex stationary lens in the center and two adjustable 2.5" x 2.5" flat lenses on each side
- Allows a view of both sides of the boat as well as behind
- Pivot Cup-Mount bracket provides over 120 degrees of easy adjustment. Clam shell clamp design fits most windshield trims and sizes
- High quality mirror constructed of heavy-duty durability tested materials featuring OE grade glass

CIP 02003

CIPA Suction Cup Ski Mirror



- 4" x 8" fully adjustable mirror
- Attaches to any clean, nonporous surface
- Dash, console or windshield mount
- No holes to drill, no tools required, no scratching

CIP 11050 Black

CIPA Concept II Convex Mirror



- 4" x 8" convex universal mirror
- Mounts above or below the windshield frame
- Offers permanent or temporary mounting
- Fully adjustable

CIP 11073 Black

CIPA Competition II Convex Mirror



- 4" x 11" convex universal mirror
- Mounts above or below the windshield frame
- Offers permanent or temporary mounting
- Fully adjustable for maximum rear view safety

CIP 11083 Black

CIPA Economy Boat Mirror



- Fully adjustable 2-1/2" x 8" mirror with quick mount system
- Convex lens gives wide rear view
- Universal, mounts above or below windshield or to dash

CIP 11119 Black

CIPA Boating Safety Mirror



- 4-1/4" x 8" universal, mounts above or below windshield frame
- Fits windshields 5/8" to 1" thick
- Fully adjustable with anti-scratch quick-mount bracket feature

CIP 11140 Black

CIPA Comp Universal Mirror



- 7" x 14" mirror
- Features a ball & socket tension adjustment knob to keep the mirror where you position it
- Bracket will mount to both rectangular or rounded windshield frames from 3/8" to 1-1/4"

CIP 02000 Black, complete
CIP 01300 Mirror only

CIPA Extreme Boat Mirror



- 6" x 20" multi-lens mirror with one stationary and two adjustable lenses
- Socket tension adjustment knob to keep mirror in position
- Bracket will mount to both rectangular or rounded windshield frames from 3/8" to 1-1/4"

CIP 02022 Complete, Black
CIP 02122 Mirror only

CIPA Extreme Mirror Brackets



02310



02330

- Available in Cup Mount or U-Clamp Bracket styles for mounting flexibility
- Pivot system provides full 120 degree of adjustment
- Clam shell design accommodates most windshield trim sizes and shapes up to 1-7/8"
- Made of black, powder coated aluminum
- No drilling required for installation
- Dimensions: H: 3.25" x W: 5 x L: 12.25"

CIP 02310 Cup mount, fits models 01600, 02000 and 02022
CIP 02330 ** U-clamp, fits models 01300, 01407, 01507 and 01408

** While Stock Lasts

Swivl-Eze Pro Ski Pylon



- Constructed of 300 series stainless steel, polished to a mirror finish
- Stainless steel quick disconnect pins allow for easy assembly and removal
- 2" diameter telescoping pylon adjusts from 34" to 58" in height
- Telescoping brace arms adjust from 33" to 56"
- Swivelling slip over head offers quick hook up and removal and smooth performance

SWI 923-009-ADJ

Parts:

SWI SP-910	Deck clevis set
SWI SP-930 **	Hardware package
SWI 994	S/S inner brace (7/8" x 31")

** While Stock Lasts

Springfield Pop-Up Ski Pylon



- With a push of the latch the pylon pops up, then automatically latches in the up position until you unlatch it again
- Very low deck profile when down
- 22" above deck, and 37" below deck

SPR 1800096

Swivl-Eze Thru-Deck Ski Pylon



- Solid stainless steel post
- Mounts through the aft deck, fastening to the boat transom or floor with a steel plate
- Swivelling slip over head offers quick hook up and removal and smooth performance
- 43" x 1-1/4" diameter
- Comes with all necessary hardware

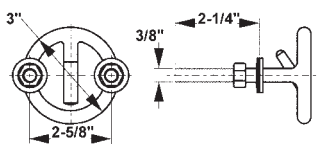
SWI 9433-S

Swivl-Eze Deck Master Ski Pylon



- 1" stainless steel tubing
- Quick disconnect hitch pin system for easy assembly and removal
- 33" to 51" telescoping brace arms allow for fitting to most boats

SWI SP-96009



Sea-Dog Transom Mount Ski Tow



Formed 316 stainless steel.

SED 371633-1

Vertical



Standard

Marine Hardware Ski Tows

- 304 stainless steel for maximum strength and corrosion resistance
- Complete with stainless steel washers (W) or backing plate (BP) and nuts

Part #	Style	Ring Size	Stud Dia	Stud Length	Type
MHI SSRI-19006	Standard	2-1/2"	3/8"	2-1/2"	BP
MHI SSRI-19013	Standard	3-1/2"	1/2"	3-3/8"	W
MHI SSRI19007V3.3	Vertical	3-1/2"	1/2"	3-3/8"	W





Turboswing Tow Bars

- Corrosion resistant 316 stainless steel tow bar elevates the tow rope to keep it clear of the wake and prop wash
- Pulley system affords smooth, consistent pulls (less jarring)
- Tow ropes clip quickly and easily to TurboSwing pulley system
- Universal motor bracket installation - can be mounted to virtually any outboard powered boat - ranging from inflatables, to runabouts, to cabin boats and pontoons
- Patented mounting system allows you to get your TurboSwing installed in no time
- Medium to Giant models mount to the motor mounts
- Max model mounts directly to the transom, and transoms must be measured to confirm fit, particularly for U-shaped transoms
- With the addition of quick release clips, your TurboSwing can be detached from the motor bracket in seconds, or leave in place for a ring of protection for your engine
- All mounting hardware kits include backing plates and bolts for direct transom mounting

TBS TSXM	30-50 hp
TBS TSXL	30-140 hp
TBS TSXXL	100-250 hp
TBS TSGIANT	150-350 hp
TBS TSMAX	Verado 250, 300, 350, 400 hp, Yamaha 350 hp, Honda 350 hp

Pulleys:



- Constructed of 316 stainless steel
- Delrin self-lubricating roller
- Improves vessel stability, manoeuvrability, fuel economy and towing power
- Quick-release clip allow for an easy connection to your tow rope
- One rider per pulley - additional pulleys can be added to tow multiple riders

TBS EZP33	Pulley
TBS TS-EZ-PULLEY-MAX	Pulley, TurboSwing Max

Mounting Kits:

TBS TSKIT01	Mounting kit for XM/XL
TBS TSKIT02	Mounting kit for XXL/GIANT

- Replacement mounting kit for TurboSwing tow bars. Contains all the hardware for mounting a TurboSwing tow bar to your outboard engine





Airhead Blast Towable

- 4 neoprene knuckle guards and deluxe nylon covered handles provide a sure and comfortable grip
- Double stitched nylon cover, reinforced internal tow harness and a self-draining floor vent
- Boston valve for quick inflating and deflating

AIR AHBL-12 1 rider, 54" diameter





Airhead Slider Towable

- Entire tube is covered by double-stitched nylon
- Nylon wrapped handles paired with neoprene knuckle guards
- Bolster fins keep riders secure while tubing
- Kwik-Connect tow point
- Speed Safety Valve

AIR AHSG-1001 1 rider, 45" x 25"





Airhead Shield Towable

Shield is an amazing ride for all ages of thrill-seekers! Hold on no matter how wild the ride with toPSIde stabilizer fins.

- Nylon-wrapped handles with neoprene knuckle guards
- Durable double-stitched nylon cover
- Equipped with a heavy-duty Kwik-Connect for hook-ups
- Speed safety valve provides inflation and deflation convenience
- Heavy-gauge PVC bladder with RF welded seams
- Double-stitched full nylon cover

AIR AHSH-T1 * 1 rider, 56" x 48"

* Special Order - may have stock





Airhead Hot Shot Towable

- PVC bladder is completely covered with double-stitched nylon
- Thin profile makes it easy to climb onto from the water
- 4 handles with neoprene knuckle guards
- Equipped with a boston valve

AIR AHHS-12 1 rider, 57" diameter





Airhead Strike Towable Kit

- Just about everything you'll need for a super fun day on the water is in the box!
- Double-stitched nylon cover, heavy duty PVC bladder
- Speed safety valve
- 12 volt pump
- Colour-matched 50' tube tow rope

AIR AHST-23K 1 rider, 54" diameter





Airhead Mach 2 Towable

This cockpit towable is a budget-minded choice for double-riders. Cockpit tubes provide a safe and comfortable seat, which is good for timid or young riders.

- Heavy-gauge PVC bladder with RF welded seams
- Double-stitched partial nylon cover
- Four nylon handles with neoprene knuckle guards
- Inflated floors
- Speed safety valve
- Kwik-Connect for fast hook-ups

AIR AHM2-2 2 rider, 69" x 69"









Airhead G-Force Towables

- D-shape deck tube
- 2 Inflatable stabilizer fins keep riders on board
- Heavy-gauge PVC bladder with RF welded seams
- Double-stitched full nylon cover
- Deluxe nylon handles with neoprene knuckle guards
- Kwik-Connect tow point for fast hook-ups
- Boston Valve for convenient inflating and deflating

AIR AHGF-2 1-2 rider, 60" diameter
AIR AHGF-3 3 rider, 78" diameter









Airhead Blast Towables

- Partial tube cover with a tropical theme
- Neoprene knuckle guarded handles
- Double-stitching throughout the tube cover
- Heavy-duty PVC bladder
- Self-draining floor
- Kwik-Connect
- Speed safety valve

AIR AHBL-22 2 rider, 56" x 90"
AIR AHBL-32 3 rider, 54" x 113"
AIR AHBL-42 4 rider, 83" x 83"













Airhead Turbo Blast Towables

- Partial tube cover with a newly updated design
- Neoprene knuckle guarded handles
- Heavy-duty PVC bladder
- Self-draining floor
- Kwik-Connect
- Speed Safety Valve

AIR AHTB-11 * 1 rider, 56" x 56"
AIR AHTB-12 2 rider, 56" x 90"
AIR AHTB-13 ** 3 rider, 81" x 107"

* Special Order - may have stock
** While Stock Lasts









Airhead Slice Towables

- Low profile deck tube
- Tapered construction makes it easy to climb on from the water
- Thick front and thinner back prevents "submarining"
- Neoprene body pad
- Double stitched full nylon cover
- Kwik-Connect tow point for fast hook-ups
- Boston valve for convenient inflating and deflating

AIR AHSSL-22 2 rider, 58" diameter
AIR AHSSL-42 * 4 rider, 100" diameter

* Special Order - may have stock






Airhead Viper Towables

- The bottoms are shaped like boat hulls which is the key to the unparalleled lively and stable ride
- Stunning NASCAR-inspired graphics
- 30 gauge bladders are completely encased in durable double-stitched nylon
- Striped nylon wrap handles have neoprene knuckle guards
- EVA "Indy Cap" covers the boston valve

AIR AHVI-F2 * 2 rider, 69" x 67"
AIR AHVI-F3 * 3 rider, 96" x 67"
* Special Order - may have stock








Airhead Mable Towables

- Dual tow points: front & back
- New air cushioned stabilizer walls
- Multiple riding positions

Big Mable
AIR 53-2213 1-2 rider, 69" x 66"

Super Mable
AIR 53-2223 1-3 rider, 79" x 78"

Great Big Mable
AIR 53-2218 1-4 rider, 93" x 85"








Airhead Big Betty Towables

- Dual tow points for front or rear towing
- Dividers between seats protect riders
- Comfortable EVA seat pads
- Air-cushioned sidewalls
- Quick-connect for easy rope hookups

Big Betty
AIR AHBT-3002 1-2 rider, 69" x 66"

Super Big Betty
AIR AHBT-3003 1-3 rider, 79" x 78"

Great Big Betty
AIR AHBT-3004 * 1-4 rider, 93" x 85"
* Special Order - may have stock




Airhead Xcelerator Towable

A favorite for all ages, the Airhead Xcelerator is not only something the big kids can enjoy but a great way to allow young kids to experience the thrill of being towed. Large enough to carry 2 adults or 3 small kids, you'll find this versatile and universal rider is the perfect tube to entertain all ages.

- 30 gauge RF welded PVC bladder is partially wrapped in double-stitched 840-denier nylon
- Heavy-duty Kwik-Connect
- Speed Safety Valves for fast easy inflating and deflating

AIR AHXC-02 ** 2-3 rider, 89" x 59.5"
** While Stock Lasts





Airhead Dolphin Towable

- EVA foam pads make your ride smooth and enjoyable
- Nylon wrapped handles paired with neoprene knuckle guards
- Kwik-Connect tow point
- Speed Safety Valve

AIR AHHD-3056 ** 1-2 rider, 100" x 48"
** While Stock Lasts





Airhead Salamander Towable

- EVA foam pads make your ride smooth and enjoyable
- Nylon wrapped handles paired with neoprene knuckle guards
- Kwik-Connect tow point
- Speed Safety Valve

AIR AHHD-3058 * 1-3 rider, 132" x 48"
* Special Order - may have stock





Airhead Hot Dog Towable

- Nylon wrapped handles with neoprene knuckle guards and neoprene seat pads
- Three 30 gauge vinyl air chambers are fully encased by high density 840 denier nylon
- Kwik-Connect

AIR HD-3 3 rider, 8-1/2' x 44"





Airhead EZ-Ski Trainer

- A water ski hybrid with integrated wooden water ski trainers and ski bindings
- Perfect for teaching young skiers
- Engineered for stability while towing (10 mph maximum)
- 70 lb capacity

AIR AHEZ-100 L: 46" x W: 34" x H: 13"

Airhead Booster Ball

- Includes 4K Booster Ball and custom tow rope
- Reduces drag and acts like shock absorber
- Less stress on tube and cover
- Ball deflated: 38" x 27"

AIR AHBB-2030 60' (including ball)







Airhead River Otter

- RIVER OTTER with backrest to enhance comfort as you go riding down the river
- 2 comfortable molded handles
- Protective double stitched polyester cover
- Molded drink holder
- Two rope anchors are sewn to the sides
- Equipped with a Speed Safety Valve

AIR AHRO-1 * 1 person, 42" diameter
* Special Order - may have stock





Airhead Justa Tube

- Hypoallergenic construction
- Synthetic rubber will resist heat and abrasion
- Protective tapered valve cap
- Great for the river in summer and snow in winter

AIR 52-1140 1 person, 40" diameter





Airhead Bimini Lounger II

Float with your legs dangling in the water, or stretch them out on the folding inflatable footrest while sitting comfortably on the mesh support. Molded cup holder and a zippered storage compartment.

- Inflatable backrest and neckrest
- Heavy-gauge PVC bladder, full nylon handles for easy transport

AIR AHBL-3 1 person, 38" diameter with 60" leg rest





Airhead Aruba Lounger

A comfortable lounge with a mesh panel between pillows at each end. Drinks are close at hand in the molded drink holder. Tether to a boat or tie 2 or more together using side mounted rope anchors.

- Vinyl construction with RF welded seams

AIR AHAL-1 ** 1 person, 66" x 37"
** While Stock Lasts





Airhead Lounger

- Cool lime green suede material
- 1 molded drink holder
- Molded rope holder
- Heavy Gauge PVC construction with RF welded seams
- Perfect for pools, lakes and rivers

AIR AHSC-007 ** 1 person, 90" x 36"
** While Stock Lasts





Airhead Loungers

Experience the feeling of weightlessness on the Sun Comfort Cool Suede Zero Gravity Lounges. Lay down and relax while staying upright. Keep a cool drink in the convenient drink holder. The molded carry handle makes moving around on land or in water easy. A molded rope holder is great for tethering.

- Speed Safety Valve for quick and easy inflating and deflating

AIR AHSC-025 ** Lime, 1 person, 83" x 47"
AIR AHSC-027 ** Sapphire, 1 person, 83" x 47"
** While Stock Lasts





Airhead Air Island

When you want a big lake float that's also user-friendly, Air Island is a no-brainer.

- New and improved air pockets for cushioned comfort
- Zippers on short ends to allow you to attach multiple Air Islands
- Graphics on both sides
- RF-welded seams ensure durability
- Speed safety valve for fast inflation and deflation
- 1-6 people lake float
- Dimensions deflated: 6’ x 10’

AIR AHGP-7 Blue





30806

Solstice Inflatable Docks

- These docks are made to comfortably fit 6-8 people with minimal tossing, turning, or tipping
- Premium-grade UV-resistant PVC and high-pressure drop-stitched material
- Feels rigid when inflated, yet are incredibly light and compact when folded up
- 6 D-ring tiedowns, and reinforced handles (6 on 30806, and 8 on 31009)
- Compatible with saltwater, freshwater, and pet friendly
- Includes: Carry bag, pump, and repair kit

SOL 30806 8' x 6' x 6"
SOL 31009 10' x 9' x 6"

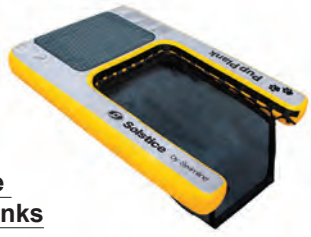




Solstice Inflatable Kayak

- Durable 600D honeycomb polyester covered fabric
- Inner PVC bladders with quick inflate/deflate Boston valves
- Easily convertible from 1 or 2 person configurations (2-person capacity: 440 lbs.)
- Boat weight: 33 lbs.
- Length: 11’ inflated, Beam: 37.5” inflated, Tube size: 10.5”, Bow/Stern rise: 7”
- Fabric reinforced bottom 1000D for abrasion resistance and strength forward directional strake and removable rear 6” skeg for control and tracking
- Includes: Carry bag, two zippered adjustable seats, bow/stern covers with gear tie downs, 4 stainless D-rings, 2 sets of Velcro paddle holders, bellows foot pump

SOL 29636





Solstice Pup Planks

These inflatable dog ramps help your pup or other critter exit the water safely, and can be used on boats, docks, pools, and more.

- Equipped with multiple D-ring tie-downs
- UV resistant PVC material with claw-resistant EVA traction pad
- Weighted mesh dips below water level for easy entry point
- Saltwater or freshwater compatible
- Capacity: MINI up to 28 lbs. / XL 100+ lbs.
- Includes: Hand pump, carry bag, two 8’ lines, and repair kit

SOL 33424 Mini, 34-1/2" x 24-1/2" x 3"
SOL 33248 XL, 48" x 32" x 5"



Solstice Touring Inflatable SUPs

- High-pressure drop-stitched material and double layer of heavy-duty PVC coated for superior durability
- Durable 1000 Denier 3-ply PVC reinforced fabric material
- Includes 4 soft rigging points with bungee and 5 stainless D-rings, 2 woven handles, and 1 removable center FCS skeg
- Diamond groove 4mm EVA deck pad
- Includes: Backpack, high-pressure pump, 10’ coil leash, wrench and repair kit, and 3-piece adjustable aluminum paddle

SOL 35091 * 9' x 30" x 5", 130 lbs capacity
SOL 36101 * 10' x 32" x 6", 180 lbs capacity
SOL 36112 * 11' x 32" x 6", 320 lbs capacity

* Special Order - may have stock

Solstice Coil Leash



- 10’ vinyl-clad coil leash keeps your SUP close, even if you fall off
- Also works for paddles
- Connects to stern D-ring, and wrist or paddle shaft
- Hook and loop strap fasteners on both ends
- Dual swivels to help prevent entanglement

SOL 35995

► Also See Paddles pg 17-002

Airhead 12V SUP Velocity Pump



- Inflate iSUPs 33% faster than any other portable pump
- Single stage high pressure / high volume inflation
- Alligator clips & 10 ft (3m) cable for direct battery connection
- Interchangeable H-Valve, Leafield C7, SSV & Mini SSV Adapters
- Auto shut-off, just dial in the pressure from 1 - 20 PSI
- Includes mesh storage bag

AIR AHSUP-A029 **

** While Stock Lasts

► Also See Air Pumps & ATMOS Air Station pg 17-015 to 016

Airhead Watersport Gloves



- Fingerless towable gloves with padded palm patch allow riders to achieve a secure grip
- Helps to alleviate muscle fatigue, blisters, and callouses
- Constructed with neoprene
- One size fits most riders

AIR 60-3000 **

** While Stock Lasts

Airhead Boston Valve



The 2 boston valves have different thread patterns. One is sure to fit the thread pattern of your inflatable, no matter what brand. They have square bases, which are much easier to turn than round, especially with wet hands. Bright red, so they're easy to find.

AIR AHBV-2

Airhead Multi-Valve



The multi-valve consists of 2 boston valves with different thread patterns on the bottom and a shrader valve. One of the boston valves will fit your inflatable. Use the shrader valve to inflate quickly at a gas station or marina. Or, screw off the shrader valve and inflate with a low pressure/high volume tube pump.

AIR AHMV-1

Airhead Air Daddy Adaptor



Universal adaptor is tapered to fit all valves found on inflatables, including all sizes of stem valves and boston valves, halkey and leafield valves. Includes needle valve for sports balls inflation. Both valves pack away for security and convenience.

AIR AHAD-1 **

** While Stock Lasts

Airhead Vinyl Repair Kit



- Kit includes a 1-ounce tube of commercial grade vinyl cement and 4 x 2" round vinyl patches

AIR AHRK-1

► Also See Tear-Aid Tapes pg 06-012





Airhead Kwik-Connect

- Conveniently attach and detach tube tow ropes to towables
- No need to thread 60' of rope through the tow strap each time you connect or disconnect a tow rope
- High impact Kwik-Connect has a 1" diameter hole to accept up to 6,000 lb break strength tube ropes
- Recommended for 1 to 4 rider towables that are not equipped with Kwik-Connects

AIR AHKC-1

Airhead Tow Harness

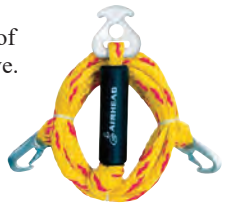


Creates a tow attachment point at the centre of your boat, behind your outboard or stern drive.

- 6" float keeps attachment loop floating on top, away from propeller
- Included snap hooks have 1/2" opening
- 12' overall length, single rider
- 1,500 lb break strength

AIR AHTH-1

Airhead Heavy Duty Tow Harness



Creates a tow attachment point at the centre of your boat, behind your outboard or stern drive.

- 6" float keeps attachment loop floating on top, away from propeller
- Included snap hooks have 1/2" opening
- 12' overall length, up to 4 riders
- 4,100 lb break strength

AIR AHTH-2

Airhead Self-Centering Tow Harness



Creates a tow attachment point at the centre of your boat, behind your outboard or stern drive.

- 6" float keeps attachment loop floating on top, away from propeller
- Stainless steel pulley provides optimum pull at all times
- 12' overall length, up to 2 riders
- 2,375 lb break strength

AIR AHTH-3

Airhead Tow Demon



- High-impact molded plastic float/pulley system allows for easy attachment of ski ropes, wakeboard ropes and tube ropes
- Connect quickly and easily to boats with the 2 large corrosion-resistant snap hooks
- Included snap hooks have 1/2" opening
- Single rider
- 1,500 lb break strength

AIR AHTH-6	8'	Vinyl -jacketed steel cable
AIR AHTH-7	12'	Vinyl -jacketed steel cable

Airhead 3 Rider Tube Tow Rope



- UV-resistant 16-strand high quality polypropylene, for up to three riders
- Floats
- 6" loop spliced at each end
- 60' overall length
- 3,350 lb break strength
- A rope keeper is included

AIR AHTR-30

Airhead Bling Tube Rope



- Reflective material woven with high quality UV-resistant PolyE
- Loop at each end
- 60' overall length
- A rope keeper is included

AIR AHTR-12BL ** 2-rider (2,375 lb)

** While Stock Lasts

Airhead Bungee Tube Rope



- UV-resistant 16-strand rope stretches, reducin tubes and riders
- For up to 4 person towables
- 50' overall length, 9/16" dia
- 4,150 lb break strength
- A rope keeper is included

AIR AHTRB-50

Airhead 2 Section Tube Ropes

ATHR-22





ATHR-42

- Pre-stretched, UV-resistant 16-strand rope
- Dual sections provide the option to make the rope either 50 or 60'
- EVA float attached
- A rope keeper is included

AIR AHTR-22	2 rider (2,375 lb)
AIR AHTR-42	4 rider (4,150 lb)

Airhead Tube Rope



- Tow your 1 and 2 rider inflatables with this UV-resistant 16-strand braided tow rope
- Loop at each end
- 60' overall length
- 2,375 lb break strength
- A rope keeper is included

AIR AHTR-60

Airhead Tube Rope



- Engineered to pull the big 3 and 4 rider tubes
- Pre-stretched, UV-resistant 16-strand tube tow rope
- Loop at each end
- 60' overall length
- 4,150 lb break strength
- A rope keeper is included

AIR AHTR-4000

Airhead Safety Tube Ropes





- High visibility reflective ropes are woven with material that sparkle in the sun and glow at twilight
- 16-strand, UV-resistant
- EVA foam core enhances flotation
- 60' long
- Comes with rope keeper

AIR AHTR-02S 1-2 rider, 2,375 lb break strength, Red/Yellow
AIR AHTR-04S 1-4 rider, 4,100 lb break strength, Neon/Blue

Airhead Anchor Bungee Tube Rope Extension



- 16 strand, 9/16" x 3' polypropylene rope stretches to 5'
- For up to 4 rider tubes
- Provides brief surges of speed as the bungee stretches and contracts
- Reduces wear and tear on tubes and riders by absorbing sudden jerks from slack in the line
- 4,150 lb break strength

AIR AHTRB-3 **
** While Stock Lasts

Airhead Water Ski Ropes



- Prestretched and UV-treated 16-strand rope
- 75' overall length; single section
- Aluminum floating handle with 12" rubber grip and molded end caps for safety and comfort
- A rope keeper is included

AIR AHSR-1



- UV-treated 16-strand 1,600 lb. tensile strength rope
- 75' overall length; 4 sections
- 12" aluminum core handle has a comfortable grip with molded finger protectors
- Candy stripe colour scheme
- A rope keeper is included

AIR AHSR-4



- The ultimate in quality, this 16-strand rope has 8 colour-coded sections and take-up loops
- 75' overall length
- Sections are 35.5', 1.5', 3', 3', 4', 6', 7', 15'
- 13" aluminum core radius handle has a high-performance "Diamond" grip and full-length molded finger protectors
- UV-treated, 1,500 lb tensile strength rope
- A rope keeper is included

AIR AHSR-8



- UV-treated 16-strand rope
- 75' overall length; single section
- 12" aluminum core handle has a performance "Tractor" grip and molded finger protectors
- A rope keeper is included

AIR AHSR-75

Airhead Bling Wakeboard Rope



- Shiny, reflective material braided with top quality polypropylene
- 75' overall length
- 4 take-off sections: two 5' and two 10' for rope lengths of 45', 55', 65', 70', and 75'
- Aluminum core handle with 15" EVA squid grip and full finger protectors

AIR AHWR-11BL

Airhead Wakeboard Rope



- Low stretch, UV-treated, high break strength , 16 strand rope
- 65' overall length; 3 sections
- 15" "Squid" patterned EVA-wrapped grip with a floating aluminum core
- Full length finger guards help create a comfortable split finger grip
- A rope keeper is included

AIR AHWR-3

Airhead Wakesurf Rope



- Lightweight, buoyant PolyE rope
- Features an EVA textured handle, an extra large spiral rope braid, and a 12" grasp knot for more comfortable grip
- 16' overall length; 3 sections
- Single rider
- 1,200 lb break strength

AIR AHWS-R01

Airhead SWOT Rope



- Use for waterskis, wakeboard, kneeboard, wakesurf, and tubing
- 75' total length with multiple sections
- 15" floating handle with EVA grip and wrap
- Single rider
- 1,500 lb break strength

AIR AHWR-16

Airhead Wakeboard Ropes



- Low stretch 16-strand 30-filament rope
- 75' overall length; 4 sections
- 15" double density EVA phat grip handle with high strength aluminum core, finger protectors, and foam floats
- 5' handle bridle
- A rope keeper is included

AIR AHWR-1 Yellow
AIR AHWR-2 Red

Airhead Line Winder



- Classic styled floating line winder
- Neatly stow away anchor lines, mooring lines, ski ropes and tube ropes
- Constructed of high impact polypropylene for extra long service

AIR AHLW-1

Airhead 120V Pump



- .92 PSI
- 120V, 1.6 amp draw
- 300 litres/minute
- Accordion-style hose locks onto the pump and valve fittings
- 3 universal valve fittings
- Carry handle
- Power cord is 10' long

AIR AHP-120

Airhead 120V High Pressure Pump



- 2.5 PSI
- 120V, 6.3 amp draw
- 450 litres/minute
- 4 universal valve fittings
- A pressure release valve limits pressure to 1.5 PSI to prevent over-inflation
- Accordion-style hose w/locking connect to the pump
- Carry handle
- 10' power cord

AIR AHP-120HP

Airhead 12V Air Pump



- 1.2 PSI
- 12V, 11.8 amp draw
- Inflates/deflates at 290 litres/minute
- 3 universal valves fittings
- 12 volt plug is equipped with a 10' long power cord

AIR AHP-12H

Airhead 12V High Pressure Pump



- 2.5 PSI
- 12V, 28 amp draw
- 410 litres/minute
- A pressure release valve limits pressure to 1.4 PSI to prevent over-inflation
- 5 universal valves fittings
- Connects via alligator clips
- 10' power cord

AIR AHP-12HP

Airhead Bellows Foot Pump



- 2 PSI
- Foot pump inflates or deflates towables, boats and other inflatables
- Collapses for storage
- 54" long hose and 3 adapters
- Displacement per stroke is 0.5 litres

AIR AHP-F1

Airhead Tow Air Pump



- 14 PSI
- Capacity is 68 gallons/60 strokes
- Pump delivers a continuous stream of air on the up and down strokes
- Inflates or deflates
- 4 universal fittings are included
- Accordion style hose stretches 5' & interlocks with the pump

AIR AHP-1

Rule High Speed Inflator/Deflator



This inflator/deflator inflates a typical 4-man dinghy or a 120" x 72" x 22" inflatable pool in under 2 minutes. Adjustable nozzles are included for most inflatables and valve types.

- High power 300W motor providing rapid inflation and deflation
- High flow and pressure - 20 ft/min (550 l/min) @ 2.6 PSI
- 12V (Max current draw: 25A)
- Deflation removes air quickly for easy storage
- Simple one button operation
- 10' power cord fitted with battery clips
- Air release valve prevents overinflation or overheating

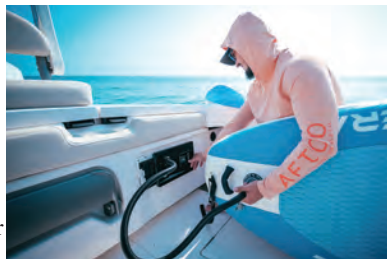


RUL ID20

Parts:

RUL ID-20K Inflator adapter kit

Scanstrut
ATMOS Integrated Air Station



This built-in air station is ready to inflate your paddleboards, towables, and more at the push of a button. The two-stage pump is designed to meet the rugged demands of the marine environment. Stage 1 is high-volume, low-pressure, to move large volumes of air with minimal pressure. Stage 2 is high-pressure, low-volume, perfect for inflating smaller toys like SUPs, inflatable kayaks, and tubes that require a higher level of pressure.

- Fits into a wide variety of locations on board - seating, side panels, or consoles, and is certified ignition protected
- Minimum cavity depth of 4.33" required
- Can be installed at an angle ranging from +10° to -30° from vertical
- Heavy duty sun cover helps to protect against sun, salt, and the other elements
- 14AWG cable length of 20"
- Max pressure output: 20 PSI
- Stage 1: 0 - 1 PSI; Max volume: 350 LPM
- Stage 2: 1.1 - 20 PSI; Max volume: 70 LPM
- Max current draw: 12A; Standby draw: .02W max
- Auto shut-off
- IPX6 front and back
- Includes 6 different adapters, 8' hose, and accessory carry bag
- 12V
- W: 11.69" x H: 7.8" x D: 4.33"
- 2 year warranty



SCA SC-AOB-A2



Towables
Inflate: 3+ mins
Deflate: 1 min



10ft SUP
Inflate: 6-8 mins
Deflate: 1 min



4M Platform
Inflate: 15+ mins
Deflate: 3+ min

SCANSTRUT outdoor . technologies .

MINI ROKK™

ROKK MINI is a compact and multi-adjustable mounting system for smart phones, tablets, small fish finders, digital and action cameras. ROKK Mini is a reliable mount for your tech onboard.

The ROKK mini universal phone and tablet mounting kits are the toughest mounting system for your device.
The hi-performance ROKK mini modular system allows you to move your electronics conveniently between different types of base mounts in different locations in one easy click. Want to unlock multiple mounting options in different locations or simply mount a different electronic device? Just add another top or base to your modular kit and extend possibilities of your ROKK mini starter kit.

Kits include:
1) One of: Universal Phone Clamp, Universal Tablet Clamp or Hook2 mount
2) One of: Suction Cup, Screw Down, Self Adhesive or Rail Mount
3) Adjustable body



Mount Type	Tablet Mount Kits	Phone Mount Kits	Hook2 Mount Kits
			
Screw Down	SCA RLS-508-401	SCA RLS-509-401	SCA RLS-521-401 **
Rail Mount	SCA RLS-508-402	SCA RLS-509-402	SCA RLS-521-402 **
Self-Adhesive	SCA RLS-508-404	SCA RLS-509-404	-
Suction Cup	SCA RLS-508-405	SCA RLS-509-405	-
Kayak	-	-	SCA RLS-521-407 **

** While Stock Lasts

Heads

UNIVERSAL TABLET CLAMP



- Fits devices from 5" to 8-1/4"

SCA RL-508

UNIVERSAL PHONE CLAMP



- Fits devices from 1-3/4" to 3-3/4"

SCA RL-509

HOOK2 LOWRANCE Q/R ADAPTER



- Perfect fit for Lowrance's HOOK2 4x, 4x GPS, 5x, 5 models

SCA RL-521 **
** While Stock Lasts

Body

AJUSTABLE MOUNT



- A metal-on-metal locking system multiplies your clamping efforts to achieve 100% locking force. Your electronics will never move, until you want them to.
- Install your devices instantly onboard. With one reassuring click your tech is both secured and released

SCA RLS-AM

Bases

SUCTION CUP MOUNT



- Fits to any rigid, clean, smooth, non-textured surface

SCA RLS-405

SURFACE MOUNT



- Screw down base mount fits any flat surface

SCA RLS-401

SELF ADHESIVE SURFACE MOUNT



- 3M self-adhesive base mount, fits any flat surface

SCA RLS-404

RAIL MOUNT



- Fits wide range of rails from 3/4" to 1-1/4"
- Includes 3 x rail grip pad inserts for improved fit

SCA RLS-402

KAYAK TRACK MOUNT



- Fits all major kayak track profiles: Hobie H-Track, Ocean Kayaks, Wilderness systems SlideTrax, Yak Attack GearTrac: GT90, GTSL90, GT175, GT175 Gen 2, Scotty: Slide Track, 440 Low Profile, Feelfree UniTrack

SCA RLS-407
** While Stock Lasts

RAYMAR.DRAGONFLY4/5 PLATE



- Fits directly to Raymarine Dragonfly 4 & 5 for a low profile install

SCA RL-512

GOPRO PLATE



- Fits directly onto GoPro cameras (all models) and Garmin VIRB X & XE

SCA RL-510

ROKK SAFETY LANYARD

- Tether attaches to the fixture point on the ROKK Mini Body Base

SCA RL-TETH

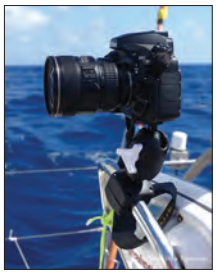
SCANSTRUT outdoor . technologies .

MIDI

ROKK™

For devices up to 3KG





ROKK MIDI – ADJUSTABLE MOUNTS

Modular Design - Top plate sold separately

- Multi position mount for fishfinders and small chartplotters
- Install at the helm, RIB console, fishing boat dashboard, and nav station
- Metal on metal, ball and socket system gives smooth, secure adjustment. Zero loss of clamping force over time.
- 360° of rotation. 270° of tilt. High clamping force with minimal user effort
- Corrosion resistant marine grade aluminium, 316 stainless steel and glass filled nylon
- Engineered to withstand high shock loading

Bodies



DECK MOUNT BODY AND BASE

- Supplied with complete fixings for your installation
- H: 4.96" x Base: 2.17" x 1.89"

SCA RL-ADM



RAIL MOUNT BODY AND CLAMP

- Fits rails from 1" to 1-1/4" diameter
- Can be fitted onto curved rails.

SCA RL-ARM

► *Also See* ScanStrut Cable Clams pg 02-112 to 115

► *Also See* Wireless Phone Chargers pg 02-136 to 137

Top Plate Mounts

- For Lifedge Surface Mount Kit, AMPS (Universal)
- 2.7" x 1.89"



SCA RL-505 **

** While Stock Lasts

- For Lowrance Elite 5 / Mark 5/ Elite 4
- 3.7" x 3.7"



SCA RL-503

** While Stock Lasts



- For Raymarine E7/ E7D + Lowrance HDS-5 / HDS-7 (Gen 1 and 2), Lowrance HDS-9 (Gen 3) and Lowrance Elite 7, 800 and 900 Humminbird Series, B&G Zeus2 7 and Zeus T8

SCA RL-504

** While Stock Lasts



- For Garmin GPS MAP 700 Series / Echo Map 70s/ Garmin EchoMap 7 and 9 Series, GPS Map 7407, 7607

SCA RL-507

** While Stock Lasts



ROKK UNIVERSAL SELF DRILL TOP PLATE

- Universal design ensures you only need to drill holes for the footprint of your specific display using the template and jig provided
- Compatability: Raymarine E9 / Raymarine eS75/77/78, Garmin GPSMap 820 / Garmin GPSMap 7408/7608, Humminbird Helix 7 / Humminbird Onix 8, B & G Vulcan 7
- 7.67" x 2.52"

SCA RL-513

Railblaza SidePort Mounts



If you need to mount on a vertical surface, but require a horizontal socket (or vice versa), the SidePort is the mount for you. It's ideally suited for gunwales of smaller aluminium boats or vertical cockpit wells on kayaks.

RBZ 03-4014-21 ** White
** While Stock Lasts

Railblaza Rail Mount 19-25



- Fits 3/4"-1" (19 mm - 25 mm) round rail
- No clearance required underneath

RBZ 03-4003-21 ** Railmount only, White, 2/pkg
** While Stock Lasts

Railblaza Pontoon Boat Rail Mount StarPort



- Secure and easy attachment of any RAILBLAZA accessories to your pontoon boat rails
- Ideal for those who need to hold different accessories, or those wanting to change the location of their Rod Holder II, Filet Table, Drink Holder, StowPod, or any of the many RAILBLAZA accessories that fit your needs
- No drilling required; can be easily moved
- Design avoids interference with rail wall
- Can be fitted to 28mm (1-1/8") or 32 mm (1-1/4") square rails with ease
- All installation hardware is provided including rubber grips



RBZ 03-4149-11 **
** While Stock Lasts

Railblaza Extenders





- StarPort extenders plug into any StarPort, and have the same star shape on top giving you 12.5 cm of clearance from the StarPort
- Adjustable extender has one pivot that allows full-circle free rotation (under resistance) along the central axis
- It also has a central knob to adjust for up to 180° tilt in 15° increments

RBZ 03-4016-11 ** Fixed
** While Stock Lasts

Railblaza SwivelPort





- The SwivelPort is designed to allow accessories to be easily rotated 360 degrees
- Factory set friction joint
- Can be attached to any StarPort, SidePort, RIBPort or RailMount and will receive any RAILBLAZA accessory

RBZ 03-4042-11 **
** While Stock Lasts

Railblaza Rib Mount Cleatport



The RIBPort VHB pad allows you simply peel and stick the mount in place. The RIBPort VHB pad can be mounted on Hypalon, PVC & polyethylene inflatable crafts as well as epoxy SUP's or surfboards. Add useful StarPort attachments to your inflatable without having holes cut into the tubing.

- Comes complete with StarPort, cleat, 3M VHB, 1 abrasive cleaning pad, and 2 isopropyl alcohol cleaning wipes (suitable for both PVC and Hypalon tubes)
- Compatible with all StarPort accessories
- 6" x 4.5"

RBZ 03-4066-21 ** White
Parts:
RBZ 06-4063-12 ** VHB adhesive pads, 8pk
** While Stock Lasts

Railblaza QuikPorts



Hold all your gear without drilling holes

- The QuikPort is a low profile, stick-on mount
- Designed to fit into much tighter spaces than the RIBPort
- Comes with a 3M VHB self-adhesive pad, or can be glued
- Suitable for use on almost any surface, PVC, Hypalon, fibreglass, epoxy, and polyethylene kayaks

Includes:

- 1 x QuikPort (90mm (3.5") diameter), including StarPort
- 1 x 3M VHB
- 1 x abrasive cleaning pad
- 1 x isopropyl alcohol cleaning wipe



RBZ 03-4087-11 ** Black
RBZ 03-4087-21 ** White
Parts:
RBZ 06-4070-12 ** VHB adhesive pads, 8pk
** While Stock Lasts

Railblaza Bimini Railmount





- Base mount allows attachment of lightweight RAILBLAZA products to your round or square tube bimini
- Ideal for navigation lights, flash/flood lights, and action cameras
- Fits square rails 1-1/8" or 1-1/4", and round rails ¾", 7/8", or 1"
- Rubber inserts avoid slippage when attached to bimini

RBZ 03-4165-11 **
** While Stock Lasts

► Also See Railblaza Lights pg 01-016





Railblaza Bimini Supports

This support is designed to secure biminis, canopies and covers to your boat, with the advantage of being easily removed using the StarPort system.

RBZ 02-4032-11 ** Black, 2/pkg
RBZ 02-4032-21 ** White, 2/pkg
** While Stock Lasts

Railblaza Kayak Expanda Track



The Kayak Expanda Track is a versatile, low profile track which is modular and can be expanded in 3" lengths. Made of 15% fibreglass reinforced nylon, the track is strong and UV resistant. The Expanda Track receives the MiniPort TracMount, StarPort or StarPort HD – with the relevant TracMount kit.

- Surface mount
- Includes everything you need to make a 5" or 8" track (4 x track lengths and 2 x end pieces)
- Stainless steel self-tapping screws



RBZ 01-4122-11 **
** While Stock Lasts

Railblaza HD TracMounting Kit



Allows the StarPort HD can to be centrally mounted on many popular track systems, with the added versatility of tool-free adjustment.

RBZ 03-4109-11 **
** While Stock Lasts



Railblaza TracPort Kayak Pack



StarPort not included

- The TracMount kit allows you to attach StarPorts to leading brand Kayak tracks

RBZ 03-4104-11 **
** While Stock Lasts

Railblaza HEXX Gunnel Track Mount, 45°



- Converts your 45° gunnel track into a secure mount for the HEXX line of accessories
- Quick and easy installation with minimal design for portability
- Fibreglass reinforced nylon components
- Includes HEXX mount, TracLoader 45 mount, and stainless hardware



RBZ 11-4219-11 **
Parts:
RBZ 07-4180-11 ** Spare HEXX base
** While Stock Lasts

Railblaza TracLoader Gunnel Mounts



SidePort, 90°

- For use with the Tracloader gunnel track
- High quality, UV stabilized fibreglass reinforced polymers
- Holds any Railblaza accessory

RBZ 03-4152-11 ** 90° SidePort only
RBZ 03-4153-11 ** 90° StarPort only
** While Stock Lasts

Railblaza Gunnel Mounting System TracLoader StarPort 45°



SidePort, 45°

- Fits 45° gunnel tracks on Lund, Lowe, Excel, Express, and early Crestliner boats
- Can be used as horizontal or vertical port by turning 180°
- Tool free installation; easily moved and repositioned



07-4128-11

RBZ 03-4145-11 ** 45° SidePort
Parts:
RBZ 07-4128-11 ** SureMount T-bolt and nut, pair
** While Stock Lasts

Railblaza Gunnel Mounting System TracLoader StarPort 90°



StarPort, 90°

- Accessorize your boat without drilling any holes
- For Tracker VersaTrack, Crestliner SureMount & early models, Lund Sport Trak, Lowe, Princecraft PrinceTrak, Xpress Boats, War Eagle, G3 and Ranger boats
- Second T-bolt supplied allows compatibility with most other USA boat track systems

RBZ 03-4129-11 ** 90° StarPort
** While Stock Lasts





Railblaza MiniPort Trackmount

- Designed to fit most existing kayak tracks
- Tool-less operation allows easy fitting and adjustment by turning the MiniPort clockwise which tightens directly in the track using our TracNut

RBZ 03-4108-11 **
** While Stock Lasts

Railblaza E-Series Cable Port





- Allows easy access for cables through the deck for tidy mounting solutions
- Works well with all RAILBLAZA electronic mounts including fishfinder mounts, camera mounts, mobile device holders, and more
- Constructed from UV stabilized engineering plastics
- Note: For full waterproof solution, silicone sealer will be required
- Includes StarPort, E Series surface mount collars, (2) flexible inserts for 3-7mm cables, double entry insert for (2) 6mm cables, and stainless fasteners

RBZ 03-4157-11 **
** While Stock Lasts

Railblaza E-Series DC Port





- 12V StarPort combines a 12 volt DC 3 amp socket
- Connect LED spotlights, cabin fans, depth sounders and many other devices
- When not in use the water tight cap seals off the socket.
- This E Series StarPort is IP56 rated
- Includes StarPort, E Series surface mount collars (12V), 12V 3A connector, weather-tight gasket, cover & cap, and fasteners

RBZ 03-4081-11 **
** While Stock Lasts

Railblaza E-Series USB Port





- Combines a USB connector within a StarPort base allowing you to charge your tablets, mobile phones and many other devices
- Designed for use on a 12VDC supply, rated at 2.1 amps
- For charging only and not for data transfer
- ROHS compliant with CE and RCM certification
- E Series USB StarPort is splashproof but not recommend for mounting in weather exposed areas
- Includes StarPort, E Series surface mount collars (USB), 12V to 5V 2.1A DC converter cable, weather-tight gasket & cover, and fasteners

RBZ 03-4080-11 **
** While Stock Lasts

Railblaza Mobi Holders





Fixed

- Mobile Device Holder, or "Mobi" for short, is ready to look after your phone, GPS, VHF, EPIRB or other mobile device
- The spring loaded arms are sufficient for most applications, with neoprene rubber pads to give high gripping power
- UV stabilised, eurethane rubber retaining strap
- Available in 2 models, the adjustable Mobi tilts and can be mounted any way you like

RBZ 02-4033-11 ** Adjustable
RBZ 02-4034-11 ** Fixed



Railblaza Mobi Holder Kits

- Includes StarPort

RBZ 04-4033-11 ** Adjustable
RBZ 04-4034-11 ** Fixed
** While Stock Lasts





Railblaza R-Lock Fish Finder Mount

This fish finder mount allows Lowrance HOOK2 4x and 5x models to become StarPort compatible, easy to tilt and remove.

- Simply replace the supplied Lowrance mount with the Hook 2 Adaptor to allow single handed display tilting
- 3 Axis mount has friction joints top and bottom featuring R-Lock lockable joints
- Centre joint is fully adjustable in 15° increments
- Will take fish finders up to 3.3 lbs
- Can mount on angled surfaces; or with the correct RAILBLAZA mount, can mount on a rail or inflatable tube
- Overall height: 6.7"

RBZ 02-4142-11 **
** While Stock Lasts





Railblaza R-Lock Fish Finder Mount

The Swing Arm R-Lock lets you swing your fish finder display out of the way, move your chart plotter to a better angle, or swivel your GoPro or iPad with ease.

- Holds up to 3.3 lbs (1.5 kg)
- Good for all sounder makes, including Garmin, Lowrance, Humminbird
- Made from UV stabilized, fibreglass reinforced engineering polymers
- Dimensions 8.4" L x 3.8" H (handle only)

RBZ 02-4147-11 **
** While Stock Lasts

Railblaza
R-Lock Fish Finder Mounts

A platform for mounting fish finders or chart plotters with square or round bases. This 3 axis mount has friction joints top and bottom featuring R-Lock lockable joints. The centre joint is fully adjustable in 15-degree increments.



- Will take fish finders up to 1.5kgs (3.3 lb)
- Platform: 6.25" x 2.3", height: 6.7"
- Mount on an angled surfaces and have your display level

Fits most fish finder brands, including:
- Lowrance Hook2, Lowrance Elite, Garmin Striker Plus, Garmin Echomap, Humminbird PiranhaMAX, Raymarine Dragonfly

RBZ 02-4140-11 **
** While Stock Lasts

Railblaza HEXX Riser Plate



- Ideal for casting decks and other areas where HEXX live poles, fish finder mounts, or rod holders require extra elevation and a sturdy attachment point
- Provides a 3-1/3" elevated surface mount
- Powder coated aluminum with stainless hardware (included)

RBZ 11-4218-11 **
** While Stock Lasts

Railblaza
Garmin Fish Finder Mount

- Allows easy installation of Garmin ECHOMAP UHD, UHD2, and STRIKER fishfinders onto kayaks, rails, tracks, inflatables, and more
- Attaches directly to Garmin swivel base
- 360° friction joint
- Tool free removal
- Includes fasteners



RBZ 02-4178-11 ** R-Lock
** While Stock Lasts

Railblaza
R-Lock Camera Mount





- Made from high quality, waterproof and UV proof materials
- Adjustable knuckle joint can be adjusted single-handedly
- R-Lock swivel joints can be locked
- Unscrew GoPro mount to use 1/4-20" screw
- Light-weight and rigid
- Quick release with a flick of the StarPort lock
- Top Camera Mount Adaptor is removable to make a low-profile mount

RBZ 02-4130-11 **
** While Stock Lasts



Railblaza
R-Lock Camera Boom - 600 R-Lock

- Fits any StarPort, SidePort, RailMount or RIBPort
- Easy to adjust 5-axis movement using the R-Lock lockable friction joints (patent pending)
- Fits all cameras with a 1/4" 20 thread insert
- 600mm, (24 in) long and fully adjustable with 5 moving joints
- Kit includes GoPro tripod adaptor, high quality UV proof plastics, anodised aluminium and stainless steel fasteners
- Designed for camera mounting of light, modern digital cameras, it must not be used to carry devices weighing more than 0.8kg

RBZ 02-4132-11 **
** While Stock Lasts

02-4060-11



Railblaza
Kayak Transducer Mounts



The sonar and transducer mount was developed for kayak and canoe anglers needing an easy way to install and remove fish finders or sounders.

- Install and uninstall your fishfinder or sounder in a matter of seconds
- For kayaks or canoes that do not have a transducer scupper, the transducer will be in the water giving a 100% true reading
- To get the transducer deeper in the water simply add an extension, and in shallow water the factory set friction joints will allow you to lift the transducer out of harm's way

RBZ 02-4060-11 ** With rotating platform
RBZ 02-4061-11 ** Without rotating platform
** While Stock Lasts





Railblaza
Trolling Motor Support

- Fixed extender gives you the correct height off the deck, and G-Hold gives tight retention for the trolling motor shaft
- Support can be removed from the StarPort when not in use, clearing the deck for fishing
- Total height off deck: 7.7"

RBZ 04-4148-11 **
** While Stock Lasts





Railblaza
Trolling Motor Support XL

- Secure support for electric trolling motor shafts while travelling either on the water or trailer
- Can be offset inboard or outboard, and can be removed to create a clear deck when trolling motor is in use
- Height adjustable
- Flexible quick-release strap holds shaft captive to avoid vibration

RBZ 02-4158-11 ** 13" maximum length
** While Stock Lasts



Railblaza
Carry Wash Store Bag

- Designed to not only keep your gear tidy and easy to carry, but allows you to wash your gear while still in the bag, then hang out to dry
- Big enough to hold your sounder, transducer, and all the cables, or maybe 2 rod holders, a mobi, and light pole
- Bag is made from 70% PVC and 30% polyester with nickel plated copper eyes

RBZ 02-4068-81 ** 17-3/4" x 17-3/4"
** While Stock Lasts

Railblaza
Tackle Caddy - Console Mount



- Perfect place for storing tackle boxes
- Slots for pliers, keys, lures, phones, VHFs, binoculars, drink bottles, sunblock, mugs, and much more
- Holds two Plano 3400 series Original Stowaway tackle boxes or similar
- UV resistant material
- Bungee cord for tool and tackle box retention
- Supplied as a kit, easy to assemble
- H: 4.5" x W: 12" x D: 5"
- Comes with four 3/4" screws



RBZ 09-4150-11 **

Railblaza
Tackle Caddy - TracMount



- Can be track mounted tool-free on most gunnel tracks including Tracker, Crestliner, Lowe, Lund, War Eagle, Princecraft, Horizon, and many more
- Easily removed and stowed when not in use or transferred to another position on the gunnel track
- Comes with two sets of track hardware

RBZ 09-4151-11 **
** While Stock Lasts





Railblaza
Track Mount QuickGrip Paddle Clip

- Fits most kayak tracks including Ascend, Wilderness Systems, Native Watercraft, YakGear, and YakAttack
- Easy to fit and will fit most standard paddle shafts

RBZ 08-0052-11 ** 1-1/8" to 1-3/8"
** While Stock Lasts





Railblaza
QuickGrip Star Mount

- Quickgrip Paddle Clip Star Mount will fit any RAILBLAZA port
- Holds paddles, landing nets, boat hooks, and many other items that have a round shaft

RBZ 02-4120-11 ** 1-1/8" to 1-3/8"
RBZ 02-4121-11 ** 1-1/4" to 1-5/8"
** While Stock Lasts

Railblaza Eye 25

- 1" diameter eye

RBZ 02-4003-11 ** Black, 2/pkg
** While Stock Lasts









Railblaza Gunhold

- Allows you to safely stow and transport your rifle or shotgun
- The flexible rubber fingers shape to fit different gun butts and the strap secures the rifle against vibration and damage
- Will fit into all RAILBLAZA mounts
- Sold singularly, however 2 units per gun are recommend

RBZ 02-4052-11 **
** While Stock Lasts



Railblaza Adjustable Platforms

- Can be used for attaching depth sounders, small tackle boxes, small bait boards and many other kayak accessories
- L: 3.9" x W: 2.56" x H: 3.27"

RBZ 02-4002-21 ** White platform only
** While Stock Lasts

Railblaza Fillet Table II



Improved design includes:
- Knife storage - at the back for safety
- An all-round drain that stops spill from the front
- No front lip to get in the way while filleting
- Easy-fit overboard drain
- 525 mm x 350 mm
- Kit includes (1) fillet table/bait board, (2) adjustable platforms, and fasteners

RBZ 02-4024-11 **
** While Stock Lasts





Railblaza Drink Holders

DrinkHolds can be easily mounted into a vertical or horizontal StarPort and will hold anything from drink bottles to coffee mugs along with the ability to hang fishing lures or store pliers.
- Includes StarPort mount

RBZ 04-4048-11 ** Black
RBZ 04-4048-21 ** White
** While Stock Lasts



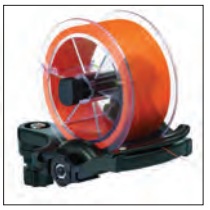


Railblaza RodRak Pole Holder

- Expandable system for hanging from any vertical or horizontal surface
- Store fishing poles, gaffs, boat hooks, nets, or paddles on the shed or garage walls, under the cabin roof, inside the gunnel, or any other place you can screw into
- Hooks can be installed standalone, or joined together
- Soft flexible inserts protect pole, and allow fast and easy stowage/removal
- Pole sizes from 1" - 1.5" diameter
- Stackable for multiple poles
- Fits any length
- Soft insert for handle vs tip ends

RBZ 09-0008-11 ** Set of four, Black
** While Stock Lasts





Railblaza Spooling Station

- Height-adjustable shaft makes it compatible with fishing line spools up to 2" and a maximum diameter of 4.5"
- Integrated brake for adjustable spool tension
- Adjustable orientation allows for the spooling station to pivot and point to your rod tip
- Spool line retention clip to stop spool unravelling when not in use
- Fold back tether point to hold the spooling station closed
- Easily shift between boat, kayak, workshop or have multiple units for easy access wherever you are using StarPorts, tracks or fixed mount

RBZ 09-4159-11 ** Fixed or Starport Mount
** While Stock Lasts



Railblaza HEXX Rod Holder

- Endures the largest trolling loads and strongest strikes of the RAILBLAZA rod holder line up
- For spinning reels, bait caster, and saltwater overhead reels
- Fully adjustable 90° around, and over 90° vertical
- Easy access to reel when in position
- Square-tooth tilt stops rotational slipping
- High-strength fibreglass reinforced, UV-stabilized engineering polymer construction with stainless steel fasteners
- H: 8.7" x Base W: 3.4" x Holder L: 9.1"



RBZ 11-4189-11 **
Accessories:
RBZ 11-4218-11 ** HEXX Riser Plate
** While Stock Lasts





Railblaza Rod Holder II

Robust, versatile, and value for money, you choose which position to hold your rod.
- Rotating collar helps reduce 'strike-theft'
- Rear gimble lock reduces rod rotation for compatible rods; lift to slide rods through
- Fully adjustable 360° around, 90° vertical
- Easy access to reel when in position
- Square-tooth tilt stops rotational slipping

RBZ 02-4020-11 ** Black rod holder only
RBZ 02-4020-21 ** White rod holder only

Railblaza Rod Holder II Kit

RBZ 04-4020-21 ** White rod holder with StarPort mount
** While Stock Lasts

Railblaza Rod Holder Extender





- Will fit any RAILBLAZA rod holders, giving an extra 5"
- Allows for you to offset your rod holder
- Use with any RAILBLAZA StarPort
- UV stabilised engineering plastics
- Stainless steel fasteners

RBZ 02-4137-11 ** Extender only

** While Stock Lasts

Railblaza RodStow

The RodStow rod holder system is a vertical fishing rod storage rack and caddy for boats. RodStow rod racks will hold your rods above deck, safely and securely, ready for your fishing experience.





- Modular system — you can add them together to make longer rod racks
- You can store larger reels without them hitting each other using offset mounting
- Removable gimbal pin stops rod rotation
- Tube size is 40mm (1.57") inside diameter
- Holds gaffs, boat hooks or nets
- Storage caddy for lures, traces and other tackle
- Made from UV stabilised and fibreglass reinforced engineering polymers
- Fits all rod lengths
- Comes with stainless steel fasteners and can be installed in minutes

RBZ 09-0010-11 ** Double, black
RBZ 09-0011-11 ** Triple, black

** While Stock Lasts

Sea-Dog Side Mount Rod Holders



- One piece molded polypropylene construction
- Two pole holder
- Designed to hold rods and fishing tackle
- H: 10-3/4" x W: 9" x D: 1-3/4"

SED 325028-1 White
SED 325029-1 Black

Sea-Dog Triple Threat 3 Pole Rod Holders



- Holds bait, cast, or fly fishing rods/reels up to 1-3/4" in diameter
- Built-in knife and plier storage with holders than can accommodate up to 16 different fishing lures
- Accessory track mount system
- Scent bottle storage
- Four leash and two bungee cord attachment points
- One-piece injection molded, UV stabilized polypropylene recycled material
- Uses four #8 fasteners (included)
- H: 10-3/4" x W: 13-1/2"

SED 325033-1 Black
SED 325032-1 White

Tempress Fish-On Rod Holders



- Holds rods, plyers, knive and lures
- One piece molded, UV stabilized construction
- H: 10-7/8" x W: 12-5/8" x D: 2-1/2"

TMP 73200 White
TMP 73201 Black

Sea-Dog Side Mount Rod Holders

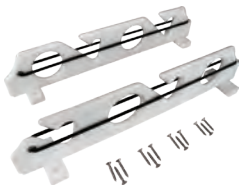


- Molded-in stand-off on the back of the rod holder allowing direct mounting to any flat surfaces
- Injection molded polypropylene
- L: 11-11/16", Dia: 1-3/4"

SED 325120-1 Black
SED 325121 White
SED 325121-1 White
SED 325122-1 Grey

Suffix (-1) indicates display package

Seadog Rod Storage Racks



- For horizontal and overhead installation
- Rods are secured with bungee cord attachment
- Includes 12x #8 FH fasteners

SED 325624-1 L: 15-1/8" x D: 3", 4 rod
SED 325626-1 L: 21-3/4" x D: 3", 6 rod

Taco Bungee Rod Holders



P03-133W

- Perfect for under the gunnel
- UV-stabilized high density polyethylene to withstand daily marine use
- Bungee cords keep your rods in safe & secure
- Includes mounting backing plates & hardware for easy installation

TAC P03-132W 2 rod
TAC P03-133W 3 rod
TAC P03-134W 4 rod

Taco Rod Hanger



- Polished 316 stainless steel spring design securely locks rods in position
- Hidden installation screws for a clean look
- 2-3/4" x 1" footprint

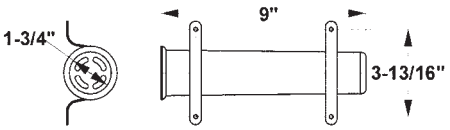
TAC F16-2700-1

Sea-Dog Rod Holders



Injection molded ABS with soft foam inserts that hold to rods securely.

SED 325613-1 3 rod, W: 7-13/16" x H: 2-7/8"
SED 325615-1 5 rod, W: 11-3/8" x H: 2-7/16"

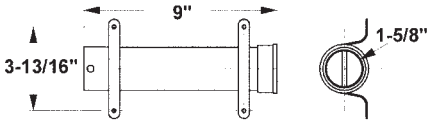




Sea-Dog Side Mount Rod Holder

- Injection molded polypropylene
- Stainless steel clamps are included
- Uses #8 fasteners

SED 325141-1





Sea-Dog Side Mount Rod Holder

- Complete with stainless steel clamps
- Uses #8 fasteners

SED 325150-1

Taco Clamp-On Rod Holder



- Adjustable clamp-on rod holder fits any 7/8"-1" O.D. pipe or tube
- Internal locking positions turn every 18° to adjust the angle of attack
- Polished 316 stainless steel
- Rod holder ID is 1-3/4"

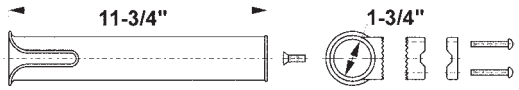
TAC F16-2600POL-1

Perko Clamp-On Rod Holder



- Chrome plated zinc with polished stainless steel tube
- Hard black plastic liner
- Mounts on 3/4" to 1" vertical or horizontal rails
- Inside Dia: 1-5/8"
- Outside Dia: 2"
- Length: 9"

PER 1215-DP-CHR





Sea-Dog Rail Mount Rod Holders

- Designed with a front mount adjustment screw
- Allows for easy adjustment without having to disassemble the rail mount brackets
- Fits 7/8" & 1" rails

SED 327160-1	Black
SED 327161-1	White

Gemlux Rod Holder



- Investment cast stainless steel
- Removable drain tube barb included
- Pin holds black plastic liner in place
- 30° mounting angle
- Easy 3-fastener installation
- Flange: 3.35" x 4.25"
- D: 7.82" x Tube diameter: 2"

GEM 315530

Perko Rod Holder



Chrome plated zinc flange. Anodized aluminum tube with soft black lining.

- Inside dia: 1-5/8"
- Length under flange: 8"
- Flange size: 4-1/2" x 3-1/2"
- Uses #14 or 1/4" fasteners

PER 1205-DP-CHR

Parts:

PER 480-DP-BLK	Cap and gasket kit
PER 482-DP1-BLK	Liner and lip

Perko Rod Holder



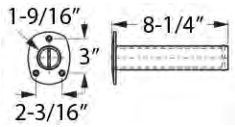
Chrome plated bronze flange with a stainless steel tube. Hard plastic black liner with integral flip-up cap.

- Inside dia: 1-5/8"
- Outside dia: 2"
- Length: 9"
- Uses #10 fasteners

PER 447-DP1-CHR	Complete

Parts:

PER 484-DP0-BLK	Cap with gasket





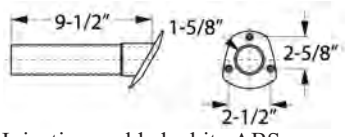
Sea-Dog Economy 90° Flush Mount Rod Holder

Formed 304 stainless steel rod holder features a 90° angle. It can accommodate rods up to 1-1/2" and includes a plastic liner, mounting gasket and integral cap.

- Uses #12 fasteners

SED 325173-1

Sea-Dog Flush Mount Rod Holders





- Injection molded white ABS
- Uses #12 fasteners

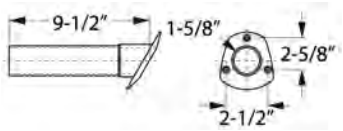
SED 325160	Black, bulk
SED 325160-1	Black, clam packaged
SED 325161-1	White, clam packaged

Sea-Dog Narrow Gunnel Rod Holder



- Injection molded ABS
- Depth: 10" x Tube diameter: 1-5/8"
- Use #10 FH fasteners

SED 325060-1	Black

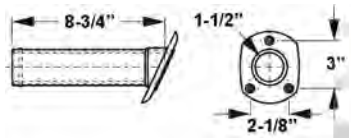




Sea-Dog Flush Mount Rod Holder

Stainless steel top with UV resistant ABS body
- Uses #12 fasteners

SED 325168-1

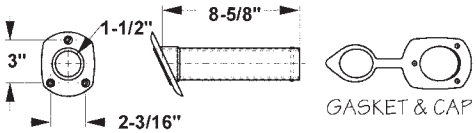




Sea-Dog Flush Mount Rod Holder

- Formed 316 stainless
- Rod holder angle is 30°
- Uses #12 fasteners

SED 325176

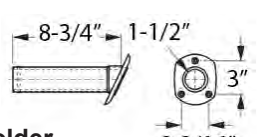




Sea-Dog Flush Mount Rod Holder

Stainless steel construction with stamped stainless steel mounting flange gasket including an attached lid and full length rubber liner.
- Uses #12 fasteners

SED 325175-1 Black cap rod holder
SED 325239-1 Replacement cap & gasket

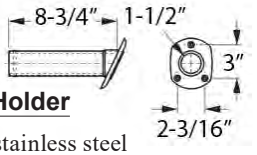




Sea-Dog Flush Mount Rod Holder

- Slim line, corrosion resistant, investment cast 316 stainless steel construction
- UV resistant PVC cap and full-length PE liner
- Design of the cast stainless mounting flange allows the use of a gasket to reduce leakage, common on other cast rod holders
- Rod holder angle is 30°
- Uses #12 fasteners

SED 325235-1





Sea-Dog Flush Mount Rod Holder

- Investment cast 316 stainless steel
- Rod holder angle is 30°
- Uses #12 fasteners

SED 325236-1

Tempress Ergonomic Fish-On Rod Holders



All the same features as the original but with a new ergonomic design.
- Molded of rugged non-corrosive thermoplastic
- Five positions from vertical to horizontal
- Twelve horizontal positions in 360° sliding lock ring
- Complete with locking side mount

TMP 72026 Single
TMP 72027 2/pkg

Tempress Rod Holder Mounts



Flush deck mount for use on horizontal surfaces. Twelve horizontal positions.
- W: 2" x L: 4" x D: 2"

TMP 71455



Side mount. Use alone or with rail adapter kit.
- H: 2" x L: 4"

TMP 71460



Rail adapter kit. Durable back plate converts side mount for rail mounting.
Fits 7/8" and 1" O.D. rail.
- W: 2" x L: 4"

TMP 71465

Tempress Fish-On Original Rod Holder



- Molded of rugged non-corrosive thermoplastic
- Five positions from vertical to horizontal
- Twelve horizontal positions in 360° sliding lock ring
- Complete with locking side mount

TMP 72012 Rod holder
Parts:
TMP 72015 Replacement ring

Scotty "Sidewinder" Rod Holder



- Designed for fast and instant rod removal
- 5/16" stainless steel for strength and durability
- Soft grips protect your rod
- Includes #237 Triggerlock mount

SCO 222

Scotty Triggerlock Mounting Bracket



- Made from polycarbonate
- For #222 and #1015 right angle mount rod holders
- 1-5/8" x 4-5/8"

SCO 237

Scotty "Striker" Rod Holder



- Stainless steel reinforced post and large opening with easy lock/unlock ring
- Fibre reinforced nylon
- Inner support rotates with the rod to be instantly removed and "strike" simultaneously
- With #241 combination deck/side mount

SCO 240



229 230 231

Scotty "Powerlock" Rod Holders

- Fully adjustable, positive locking, open style holder
- Fibre reinforced nylon
- Interior Dimension: 1.95"

SCO 230BK	Black, W/#241 side/deck mount
SCO 230GR	Grey, W/#241 side/deck mount
SCO 230WH	White, W/#241 side/deck mount
SCO 230BK-QUAD	Black, W/#241 side/deck mount, (4/pkg)
SCO 231BK	Black , W/#244 flush deck mount
SCO 229BK	Black, rod holder only



Scotty "Orca" Rod Holders

- The fastest rod release of any holder on the market
- With one quick motion, your fishing rod is lifted straight out into the fish fighting position
- Fibre reinforced nylon
- Built-in front locking tab to prevent rod loss while traveling

SCO 400	W/#241 side/deck mount
SCO 401	W/#244 flush deck mount



The 405 is an optional boom mount for all Scotty downriggers. When adjusted properly, the Offshore Orca Kit allows for a closer inboard positioning of the Orca rod holder, creating a faster and easier rod removal.

SCO 405 With extention

Scotty "Rodmaster" Rod Holder



An economical 8" tube rod holder that fully adjusts for all vertical and horizontal positions.

- Interior Dimension: 2-1/8"

SCO 250 W/#241 side/deck mount



Scotty "Rodmaster II" Rod Holders

- 10" tube style holder with front end reel slot and removable gimbal pin accommodating any rod and reel combination
- Fibre reinforced nylon
- Interior Dimension: 1.85"

SCO 350	W/#241 side/deck mount
SCO 351	W/#244 flush deck mount

Scotty "Rodmaster II" Boom Rod Holder



- 10" tube style holder with front end reel slot and removable gimbal pin accommodating any rod and reel combination
- Fits 3/4" and 1" booms by bolting through the boom
- Interior Dimension: 1.85"

SCO 355



Scotty "Baitmaster" Rod Holders

- Holds a baitcaster reel in a cushioned cradle and a slot at the front also allows for a spinning reel to be securely held in position
- Designed with a side mounted flange, which leaves the bottom open accommodating rod trigger grips
- Pistol grip rod butts easily clear the sides of the rod holder for quick and easy rod retrieval
- Rods can safely be secured with a soft latching strap which snaps over the top of the rod holder

SCO 279BK	Rod holder only
SCO 280BK	W/#241 side/deck mount

Scotty Gear Head-Mount Kit



- Holds a baitcaster reel in a cushioned cradle and a slot at the front also allows for a spinning reel to be securely held in position
- Designed with a side mounted flange, which leaves the bottom open accommodating rod trigger grips
- Pistol grip rod butts easily clear the sides of the rod holder for quick and easy rod retrieval
- Rods can safely be secured with a soft latching strap which snaps over the top of the rod holder
- Includes Baitcaster Rod Holder, attached to a 429 Gear-Head Mount Extender and 241 Combination Side/Deck Mount

SCO 388BK

Scotty R-5 Rod Holder



- Designed to securely hold your spincaster, spinning, baitcaster, level wind, and fly rods
- 1-1/4" stainless steel lock bar pivots open to allow quick, effortless release of your rod
- Easy adjustable lock bar tension
- Designed and built to withstand all conditions
- Mount sold separately

SCO 289

Scotty Fly Rod Holders



- The perfect holder for rod storage or trolling with a fly rod and reel
- Works well with "short butt" fly rods and holds a fly reel securely with a soft latching strap which snaps over the top

SCO 260	Rod holder only
SCO 265	W/#241 side/deck mount

Scotty Replacement Rod Holder Post



Fits all Scotty post mount rod holders and bases.

SCO 412

Scotty Dual Rod Holder



- Includes two 10" tube style rod holders giving you the ability to fish with two rods without mounting another rod holder to your boat
- Accommodates a wide range of rod and reel setups with an inside diameter of 2-1/8"
- Swivel 360 degrees and can be tightened in place when desired direction is achieved
- To be paired with the Scotty #1026 Downrigger swivel base and #1023 Tilt-up mounting bracket (both not included)

SCO 247

Scotty R-5 Rod Holder



This universal rod holder comes with a 241 side deck mount and holds spincaster, spinning, bait caster, level wind and fly rods.

- 1/4" stainless steel lock bar pivots open for a quick and effortless release of your rod
- Adjustable lock bar tension
- 241 Side/Deck mount

SCO 290

Scotty Rocket Launcher Rod Holders



- 9" stainless steel tubing with a composite jacket
- Interior Dimension: 1.70"

SCO 469	No mount
SCO 470	W/#241 side/deck mount

Scotty Fly Rod Holder/Float Tube Mount Combo



- The perfect holder for rod storage or trolling with a fly rod and reel
- Works well with "short butt" fly rods and holds a fly reel securely with a soft latching strap which snaps over the top
- Compact design allows for hands free trolling with a fly rod and securely holds your gear setup
- Fibre reinforced nylon
- Includes #241 Combination Side/Deck Mount that attaches to adjustable wrap-around straps with quick-release clips to use with your float tube or pontoon boat

SCO 267

Scotty REEL E-Z Rod Handle



- Offers better rod control while fighting big game fish
- Easily adapts to most rods
- Can mount the rod handle to the reel by replacing the reel brace underneath
- Rod handle has 3 height adjustments depending on the reel
- Stainless steel fasteners included

SCO 420BLK

Scotty Standard Deck/Side Mounts



- Can be mounted on top or side of gunnel
- For all Scotty post mount rod holders
- Dim: 4" x 2" x 2"
- Bolting dim: 1-5/16" x 3-3/16"

SCO 241BK	Black
SCO 241GR	Grey

Lock Down Deck/Side Mount



All of the functions of the standard 241 mount with a post locking feature.

SCO 241L

Scotty Round Flush Mount Bracket



- Use with all Scotty post mount rod holders and accessories
- Flush mount, 3-3/4" round

SCO 344

Scotty Flush Deck Mounts



- For all Scotty post mount rod holders
- Dim: 4" x 2" x 2"
- Bolting Dim: 1-5/16" x 3-3/16"
- Dimensions: 1-5/16" x 3-3/16"

SCO 244BK Black



244L

Locking Flush Deck Mount

- "Lock down" feature avoids unintended releases.

SCO 244L

Scotty Threaded Deck Mount



- Allows mounting on a flat deck surface
- Fits gunwales up to 2" thick
- Secures with no exposed hardware using a provided nylon nut

SCO 444

Attwood Flush Rod Holder Mount



- Mounts flush to gunwale or deck
- Easy-open cover conceals fasteners and elastomeric liner seals water out
- Designed to work with the Attwood Pro-Series and 2-in-1 rod holders, as well as the mini-rigger

ATT 5022-7

Scotty Rail Mount Brackets



243BK



245

- Versatile mounting without having to drill more holes in your boat
- Perfect for boats with limited mounting surfaces
- Stainless steel fasteners (included) hold mounts in place
- Works with all Scotty post mount rod holders

SCO 243BK Square 1-1/4" rails
SCO 245 Round 1-1/4" rails
SCO 287 † Round 7/8" rails
† Also fits 1-1/4" square rails

Scotty Adaptable Rail Mount



- Can be positioned almost anywhere along a 2" rail; ideal for pontoon boats
- Includes a pair of inserts for both 1-1/2" round rails, and 1-1/4" square rails
- Also includes 241 side deck mount and stainless steel fasteners

SCO 320

Scotty Backing Plate



Use to add structural support when attaching the Scotty #241L / #241 combination side / deck mount or the Scotty #244L / #244 flush deck mount to thin-walled watercraft. Made with super tough, rugged engineering grade nylon.

- Stainless steel nuts & screws included

SCO 441

Scotty Rail Mounting Adapter



7/8"or 1" rail.

SCO 242BK

Scotty Oarlock Rod Holder Adapter



- Adapt your standard oarlock socket to hold your rod holder
- Thumbscrew holds the adaptor on
- Fits rod holders with multi point star base
- Completely removable
- Made from tough marine plastic

SCO 248

Scotty Glue-On Mounting Pad



Manufactured from flexible PVC and can be bonded to PVC or Hypalon inflatable boats. For all Scotty post mount rod holders and accessories.

- Stainless steel fasteners included
- Size: W: 5" x H: 7"

**Ensure you purchase an adhesive that is suitable for your particular application.*

SCO 341BK Black
Accessories:
SCO 439 Track adapter

Scotty Clamp Mount



- Fully portable mounting option for all Scotty rod holders
- Works with a #241 combination side/deck mount (not included)
- Maximum opening 2"
- Nylon construction

SCO 449

T-H Marine Rod Holder Drain Cap



- Works with all standard rod holders
- Simply slip this cap onto the base of the rod holder and use 3/8" clear PVC tubing to route drainage from bottom tip

THM RHBD-1-DP

Scotty Rod Holder Height Extenders



254



254M

- Extends the height of a rod holder by 6-1/2"
- Stainless steel body
- Works with mounts #241, 243, 244, 248 and 253

SCO 254

- The "Mini Extender" allows you to lift your Scotty Rod Holder off the deck
- Eliminate the possibility of your rod interfering with a rail position or other obstruction
- Use with all Scotty post mount rod holders. Extends the height of a rod holder by 4-1/4"

SCO 254M



259

- Extends the height of a rod holder by 6-1/2"
- Re-inforced nylon body
- Works with mounts #241, 243, 244, 248 and 253

SCO 259

Scotty Gimbal Mount Rod Holder Adaptor



Allows the use of Scotty multiple position rod holders with factory installed single position flush mounted rod holders without having to drill more holes in your boat.

SCO 253

Scotty Gear Head Mount Extender



Bring your rod closer to you and snap it into place with the gear-head mount extender.
Comes with #428 gear head mount, #459 adjustable rod holder extender, and #412 post mount.

SCO 429

Scotty Hammerhead Rod Cushion



More comfortable and easier to use than most fighting belts. Universal rod butt tube allows simple rod to rod transfer.

SCO 425BK

Scotty Offset Gear



The offset gear doubles your rod holder positions for ultimate versatility. Simply place a gear between the rod holder post and your rod holder, adjusting your desired angle of the rod holder before fastening the bolt tight. Now you can adjust your rod holder to that perfect fish fighting position

SCO 414

Scotty Slip Disc



Slip discs allow you to make micro adjustments to your rod holder or any Scotty rod holder height extenders. These discs when placed between the rod holder post and rod holder, allow you to obtain infinite adjustment angles. Now you can adjust your rod holder to that perfect fish fighting position.

SCO 415

Scotty Adapter





Inuse

Turn your downrigger mount into a rod holder mount with the #423 downrigger rod holder adapter. In combination with a #241 or #241L mount, easily place the adapter on top of your 1023 tilt-up mounting bracket, and select your favourite rod holder and you're ready to go. Built to last with rugged engineering grade nylon

SCO 423

Scotty Coaming / Gunnel Clamp Mount





Position your rod holder or Scotty accessory virtually anywhere on the lip of your kayak's coaming. Built tough from rugged engineering grade nylon. The attached Gear-Head mount allows you to quickly change rod holder positions with a simple twist. Easily fasten the #433, drop and lock your Scotty rod holder or accessory and start fishing.

SCO 433

Scotty Well Nut Kit



Securely fasten a multitude of products onto thin walled structures.
Well Nuts work by expanding inside a pre-drilled hole, securely anchoring whatever it is you need to mount. These neoprene mounting nuts effectively seal out dirt and grime at the assembly joint.

- Grommet hole: 3/8"
- Fastener: 10/32" x 1/4" pan head

SCO 133-4

Scotty Seeker System

NEW



The Scotty Seeker represents a radical advancement in downrigger trolling technology, providing anglers with a clear, straightforward method to monitor water conditions.

- True depth measurement at the probe
- Rapid response temperature sensor
- High performance paddle wheel delivers unmatched low-speed accuracy
- Fsat wireless charging and approximately 100 hours of battery life on a full charge
- Hydrodynamic design cuts through water
- 5 second data refresh rate on normal, or every half second on thermocline mode
- Compatible with iOS, Android, and most MFDs
- Seeker app provides real time metrics
- Bluetooth wireless connectivity and ethernet
- Accommodates up to 4 probes at the same time
- Includes probe, hydrophone, stainless steel leader, power cable, communication hub, charging dock, and USB-C to USB cable

SCO 5000 *

* Special Order

Scotty Depthpower Electric Downriggers

Features:

- Fast retrieval rate (see table below)
- All metal parts are stainless steel
- Full automatic hands-free operation on retrieval
- Mechanical counter
- Kevlar drive belt by Optibelt
- Requires Scotty #1124 30A fuse with holder (sold separately)

Includes:

- Scotty/Marinco plug and receptacle
- Four (4) auto-stop beads


1106


1101


1116

MAP PRICING

DEPTHPOWER - Specs

Weight	7 lb.	10 lb.	15 lb.
Retrieval Speed	235 ft./min.	222 ft./min.	203 ft./min.
Amperage Draw	4 amps	5 amps	8 amps

Part #	SCO 1101	SCO 1106	SCO 1106B	SCO 1116
Premium Test Stainless Steel Cable	150 lb test 250'	150 lb test 250'	-	150 lb test 250'
Premium Test Braided Line	-	-	200 lb test 300'	-
Power Grip Plus Line Release Model No.	#1170	#1170	#1170	#1170 + #1171
Rod Holder Model	#358 Rodmaster II	#358 Rodmaster II	#358 Rodmaster II	#247 Dual Rod Holder
16 Position Swivel Mounting Base	✔	✔	✔	✔
Weight Storage Hook	Sold Separately	Sold Separately	✔	✔
Stainless Steel Boom Length	1-1/4" x 30" Fixed	1-1/4" x 36" - 60" Telescopic	1-1/4" x 36" - 60" Telescopic	1-1/4" x 36" - 60" Telescopic

Scotty High Performance Electric Downriggers

Features:

- Ultra-fast retrieval rate (see table below)
- Telescopic 36" - 60", 1-1/4" diameter satainless steel boom
- All metal parts are stainless steel
- Full automatic hands-free operation on retrieval
- Illuminated, resettable, sealed and silent digital line counter
- 1/2" Kevlar drive belt by Optibelt
- Requires Scotty #1124 30A fuse with holder (sold separately)

Includes:

- #1023 Tilt-up mounting bracket which enables the unit to be tilted and locked in the upright position
- #1148 weight storage hook
- #1026 swivel pedestal mount with 16 available positions
- Scotty/Marinco plug and receptacle
- Four (4) auto-stop beads


2106 / 2106B


2116

HIGH PERFORMANCE - Specs

Weight	12 lb.	15 lb.	20 lb.
Retrieval Speed	304 ft./min.	295 ft./min.	260 ft./min.
Amperage Draw	13 amps	14.5 amps	19.5 amps

MAP PRICING

Part #	SCO 2106	SCO 2106B	SCO 2116
Premium Test Stainless Steel Cable	180 lb test 300'	-	180 lb test 300'
Premium Test Braided Line	-	250 lb test 300'	-
Power Grip Plus Line Release Model No.	#1170	#1170	#1170 + #1171
Rod Holder Model	#358 Rodmaster II	#358 Rodmaster II	#447 Dual Rocket Launcher

Scotty Laketroller Downriggers

Features:

- Easy adjust drag brake
- Stainless steel and nylon construction
- 1 ft. per turn of the spool
- Recommended for use with weights under 4 lbs
- Mini Power Grip Plus 18" (1181)
- 100 ft. of 150 lb. test stainless steel cable

1071 Clamp Mount



- Comes with fully portable, engineering grade nylon clamp for mounting
- Great for aluminum boats and canoes
- Maximum clamp mount opening: 2"

SCO 1071

1073 Bracket Mount



- #241 combination side/deck mount
- Mounting bracket allows mounting on a flat deck surface or side of a gunnel or transom
- Mounting design gives 360˚ of rotation
- Mount size: 4" x 2" x 2"

SCO 1073

Scotty Compact Manual Downriggers

Features:

- 23" long, 3/4" dia. stainless steel boom
- Mechanical counter

Includes:

- #355 Rodmaster II fully adjustable rod holder
- #1170 Power Grip Plus line release
- #1010 Quick-Slide deck mounting bracket
- 200ft. of premium 150 lb. stainless steel downrigger cable

1050 Depthmaster



- Spool retrieves 1 foot per turn

SCO 1050

1060 Depthking



- Extendable high speed cranking arm for extra leverage
- Spool retrieves 2 feet per turn

SCO 1060

Scotty Manual Downrigger

Features:

- A high speed 2 foot per turn spool coupled with the extra leverage extension handle makes cranking a breeze
- Spray-protected, positive-drive depth counter
- Automatic brake with the most brake surface on the market

Includes:

- #358 Rodmaster II fully adjustable rod holder
- #1170 Power Grip Plus line release
- 200ft. of premium 150 lb. stainless steel downrigger cable



1085 Strongarm

- 30" long, 1-1/4" dia. stainless steel boom

SCO 1085

Scotty Downrigger Parts



2125

SCO 2125	Electric plug & socket (new style)
SCO 2126	Electric socket only (new style)
SCO 2127	Electric plug only (new style)
SCO 2128	Right angle mount for #2125
SCO 3015	Cover for electric downriggers



1125

SCO 1125	Electrical plug and socket (old style)
SCO 1126	Electrical socket only (old style)

SCO 1034	Extra mounting bolt for #1080, #1085,#1090

Scotty Downrigger Parts Kits



- 2 x Soft stop bumpers
- 2 x Large coastlock snaps
- 4 x Stopper beads for stainless steel line
- 4 x Stopper beads for braided Line
- 1 x Drive belt for depthpower downriggers (only in 1158 Kit)
- 1 x Drive belt for HP downriggers (only in #1159 Kit)
- 1 x Mounting knob (for downrigger swivel mounts/rod holders)
- 1 L watertight container

SCO 1158	Accessory kit
SCO 1159	High performance accessory kit

Scotty Downrigger Lock Set



Works in conjunction with your existing mounting knobs and padlocks of your choice. Works with all Scotty tilt-up electric and manual downriggers. Manufactured using rugged fibre reinforced engineering grade nylon molded over a robust stainless steel plate.

SCO 3134



Padlocks not included

Scotty Downrigger Parts

SCO 1014 Replacement downrigger pulley kit



SCO 1024 Cover for counter



SCO 1034 4-1/2 base connection bolt for models 1080-1116 prior to 2000



SCO 1035 Replacement bolts for #1026 mount (2/pkg)
*Also replaces the thumbscrew on most rod holders



SCO 1128 Spare belt set for 2000 models & earlier
SCO 1129 Spare belt for 2001 models & later
SCO 2129 Spare belt for HP models



SCO 1131 Lid for electric downriggers



SCO 1132 Emergency crank handle



SCO 1134 3/8" x 6" long mounting bolt



SCO 1142 Handle for manual downriggers bolt and sleeve included



SCO 1145 Counter w/base for electric downriggers



SCO 1146 Counter w/base for manual downriggers



SCO 2136 Replacement LCD counter for High Performance downriggers



SCO 2135 Replacement lid with LCD counter for High Performance downriggers



Scotty Premium Stainless Downrigger Wire



- 150 lb test wire

SCO 1000 200'
SCO 1001 300'
SCO 1002 400'

Scotty HP Downrigger Wire



- All high performance stainless steel wire
- Includes 1 coastlock snap with swivel, 3 sleeves and 1 soft stop bumper
- 180 lb test

SCO 2401K 300'
SCO 2402K 400'

Scotty Low Drag Microfilament Premium Power Braid Downrigger Line



High tech, low drag, microfilament braided line.

- The use of braided downrigger line helps combat electrolysis around your fishing gear and outlasts stainless steel cable
- 200 lb test
- Includes terminal fastening kit: 1 x coastlock snap with swivel and 1 x soft stop bumper

SCO 2700K 200', black
SCO 2701K 300', black
SCO 2702K 400', black



Scotty Braided Downrigger Line



- Made with low-stretch Dyneema fibre
- Use of braided downrigger line helps combat electrolysis around your fishing gear
- 250 lb test line
- Includes terminal fastening kit: 1 x coastlock snap with swivel and 1 x soft stop bumper

SCO 2200K 200'
SCO 2201K 300'
SCO 2202K 400'

► *Also See* Fishing Nets pg 17-040

Scotty Downrigger Pedestal Risers



Made from fibre reinforced nylon and 2" stainless steel tubing for the ultimate in strength. Designed to be used for all Scotty downrigger mounts.

- Plate Dim : 5-1/2" x 5-1/2"
- Bolting Dim : 4-1/2" x 3-1/2"

SCO 2606 6"
SCO 2612 12"

Scotty Mounting Bracket



Extra deck mounting bracket for "Depthking" and "Depthmaster" models.

- 4-3/4" x 5-5/8"
- Bolting dim: 2-5/8" x 4-7/8"

SCO 1010

Scotty Gimbal Mount



- For use with metal flush mount rod holders
- Eliminates drilling holes and permanent mounting of downrigger brackets
- Welded stainless steel and modified nylon
- Fits all Scotty downriggers & #1026 swivel mount
- Top: 6-1/8" x 7-1/8", Tube: 9" x 1-1/2"

SCO 1028

Scotty Portable Clamp Mount



- Double stainless steel clamps and black anodized aluminum
- Fits downriggers: #1060 and #1050
- Includes stainless steel bolts to fasten mounting bracket
- 5-5/8" x 4-3/4" x 3-1/8"
- Clamp opening: 2"

SCO 1021

Scotty Swivel Mount



- 360° rotation with 16 locking positions
- Quick fastening stainless steel bolts for easy set up and removal
- Fits all Scotty downriggers
- 5-1/2" x 5 1/2" x 3-5/8"
- Bolting dim: 4-1/2" x 3-1/2"

SCO 1026	Complete
SCO 1035	Mounting bolt 2/pkg
SCO 1036	Mounting plate only: 5-1/2" x 5-1/2"

Scotty Right Angle Side Mount



- For boats with narrow or uneven gunnels
- Quick fastening stainless steel bolts for easy set up and removal
- Fits all Scotty downriggers plus No. 1026 swivel mount
- 6" x 6" x 6"
- Bolting dim: 4" x 2"

SCO 1025	Complete
SCO 1037	Extra gunnel mounting plate
SCO 1135	5/16" x 2-1/4" knob, 2/pkg

Scotty Rail Mount



- Fits up to 1-1/2" round rail, or oval-shaped wooden rails
- Fits all Scotty downriggers plus
- #1026 swivel mount
- Includes stainless steel bolts to fasten mounting bracket
- Dim: 6-1/8" x 7-1/8"

SCO 1027

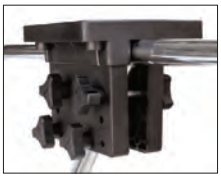
Scotty Track Mount



- Easy adjustable T-knobs securely hold mount in place
- Fits all Scotty Downriggers, except Laketrollers
- Works with Scotty 1026, 1023, and 1010 downrigger mounts
- Fits standard 3" gunnel track
- Corrosion resistant 304 stainless steel mount

SCO 2650

Scotty Stanchion Mount



- Enables you to quickly mount a downrigger to your boats' railing stanchion
- Complete with stainless steel mounting knobs for easy mounting and ultimate portability
- No need to drill holes to permanently mount fixtures
- Accepts the #1026 swivel mount and #1010 compact mount directly onto the top plate, and is compatible with all Scotty downriggers (except Laketrollers.)

SCO 2027

Scotty Mounting Bracket



For depthpower electric downriggers and large manual downriggers (#1080, #1085, and #1090). Allows additional mounting positions.

- Bolting dim: 3-3/4" x 1-5/8"

SCO 1023 Includes fasteners

Scotty Lead Cannonballs & Holders

Lead Cannonballs

SCO 3-LB	3 lb
SCO 5-LB	5 lb
SCO 7-LB	7 lb
SCO 10-LB	10 lb
SCO 15-LB	15 lb

Cannonball Holder



SCO 3022BK Black, 2/pkg

Cannonball Storage Hook



SCO 1147	For 1" booms
SCO 1148	For 1-1/4" booms

Greenfield Coated Cannonballs

- Balanced with a longer fin for precision tracking
- Black Plastisol coated with reflective labels

GRN 204-B	4 lb
GRN 206-B	6 lb
GRN 208-B	8 lb
GRN 210-B	10 lb
GRN 212-B	12 lb
GRN 215-B	15 lb





Scotty Trolling Snubbers

- Snubbers absorb shock, provide electrical insulation and help to prevent snags
- Easy to grip



SCO 370	Swivel, snap & snubber, each
SCO 370BUCKET	50 pc bucket
SCO 371	Snap & snubber, each
SCO 371BUCKET	50 pc bucket

Scotty Sure Stop Downrigger Stopper Kit



Kit comes with over 7 feet of 240 lb. test black nylon seine twine, a heavy duty in-line swivel and a heavy duty coast lock terminal end. You attach your downrigger line directly to the heavy duty swivel and the swivel itself becomes the stopper bead for the auto stop on the downrigger. Works extremely well when using braided downrigger line and ensures that your downrigger ball will stop short of the pulley.

SCO 374

Scotty Sure Stop Pro



The sure stop turns off your electric downriggers auto stop at the same spot every time. The tuna cord provides a secure hold for your self-locating snap and is easier on your hands when pulling your gear to the boat. The Scotty Snubber absorbs shock, provides electrical insulation and helps prevent snags (model's 377 & 378). Tubing has been added to provide protection against abrasion in high wear areas.

SCO 375	30" boom
SCO 376	60" boom
SCO 377	30" boom w/snubber
SCO 378	60" boom w/snubber





Scotty Mini Power Grip Releases

- Compact version of the Power Grip Plus
- Streamlined design won't snag on weeds or foul lines

SCO 1180	18" leader with stacking, self-locating snap
SCO 1183	30" leader with stacking, self-locating snap
SCO 1181	18" leader with self cannonball snap

Scotty Snapper Line Release



The fishing line is gripped between soft pads, with variable release tension attained by moving the line in or out of the jaws.

SCO 1046 **	"Mini" Snapper 18" leader with stacking, self-locating snap

** While Stock Lasts

Scotty Power Grip Plus Releases



- Greater range of release tension
- Easy to handle shape
- Streamline design will not snag

SCO 1170	18" leader with cannonball snap
SCO 1171	18" leader with self locating snap
SCO 1172	30" leader with self locating snap
SCO 1173	48" leader with self locating snap
SCO 1178	60" leader with self locating snap

Parts:

SCO 1190	6 pairs replacement pads
SCO 1174BUCKET	Snap only 40/bucket

Scotty Downrigger Accessories



Cable coupler attaches the snap hook to the downrigger cable quickly and easily without the use of metal crimps.

SCO 1038

1038



Coastlock w/ball bearing swivel. 225# test

SCO 1150 2/pkg

Coastlock w/ball bearing swivel. 200# test.

SCO 1151 Each



Large Coastlock w/ball bearing swivel. 350# test.

SCO 1152 2/pkg

Downrigger terminal kit.

SCO 1153 Each



Soft Stop Bumper.

SCO 1039 4/pkg



Connector sleeves.

SCO 1004 10/pkg



Double line sleeves.

SCO 1011 10/pkg



Heavy duty brass connector sleeves intended for use with the Scotty high performance 180lb. test downrigger cables.

SCO 2404 10/pkg



Release clip locator.

SCO 1007 10/pkg





Stop beads.

SCO 1008	6/pkg for standard wire
SCO 2008	6/pkg for braided wire
SCO 2008-24	24/pkg for braided wire



Stainless steel thimble kit, includes 2 thimbles and 4 connector sleeves.

SCO 1157



Lead weight swivel hooks & 6 connector sleeves.

SCO 1009 2/pkg



Snap terminal kit, includes 1 swivel hook (#1009), 3 sleeves, 1 stainless steel thimble and 1 soft bumper.

SCO 1154



Scotty Trolling Snaps



SCO 1155	Large, nickel/silver
SCO 1156	Small, S/S

Scotty Release Clip



SCO 1005 Each

Scotty Dummy Flasher Stacking System



- Quickly attach extra flashers or dodgers to your downrigger line

SCO 1161

Scotty Downrigger Weight Retriever



Brings weights in for rigging lines and releases without having to lean out over a gunnel.

SCO 3025

Scotty Pot Puller



Swivel base not included

- Attaches directly to your existing Scotty downrigger mounts
- Compact size makes for easy stowing
- 120 FPM retrieval speed
- Low amp draw
- High torque 12V motor
- Accommodates 1/4" - 3/8" line
- 100 lb capacity
- Heavy duty stainless steel and composite construction
- Easy access on/off switch
- Pulls 1 crab trap or up to 4 prawn traps
- 2 year warranty
- Scotty/Marinco plug, receptacle and mount included

MAP PRICING

*Recreational use only

SCO 2500

Stow-Away Bag



- Water resistant, heavy duty inside lining with breathing holes
- Spiked rubber feet
- 24" x 10" x 14"

SCO 2515

Scotty Trap-Eze Puller



750

- For pulling crab, shrimp and prawn traps
- Long arm for extended reach over gunnel
- Adjustable arm angle
- With or without the Scotty #241 rod mount

SCO 749 Trap-Eze only
SCO 750 With #241 mount

Endurance Slick Mounting Brackets

A quick release system that can be mounted on almost any surface for multiple applications. Adapters are removed/locked into position with a two plate sliding system.

- SBPP-6 gunnel adapter fits the Endurance EPP600R pot puller
- Available in aluminum or stainless steel
- Withstands shear loading to 3300 lbs
- Make your own adapters for multiple applications
- Foot print: 6" x 6" x H: 3/4



Assembled

END SB66AL-3 Aluminum plate
END SB66SS-5 Stainless plate
END SBPP-6 Gunnel mount bracket adapter

Endurance Pot Puller

NEW



- Heavy duty 304 stainless steel frame construction
- Rated for up to 175 lb load
- 12V, 1.2 HP motor with retrieval speed of 40 FPM
- Quick release slick bracelet for mounting system
- Detachable electric remote wired foot control and solenoid pack
- 9" x 2" sheave allows option to eliminate tension wheels
- Machined planetary gear system

END EPP22

► *Also See* Crabbing Accessories pg 17-040

ScottyTransducer Mounts



140

- Designed for kayaks and small boat use
- Made of high strength composite material to give you years of service without corrosion problems
- Telescopes from a compact 11.5" to 18" in length
- Collapses easily for storage
- Adjustable arms allow for multiple depths and angles
- Includes pivoting transducer arm, and 415 slip disks for micro adjustments

SCO 140 412 post and 241 side deck mount
SCO 141 438 gear head and 440-4" low profile track

Scotty Ball Mount Systems



150



151



152

- Ball systems with three optional mounting platforms for a variety of accessories
- The 1" ball joint design enables a smooth, full range of motion
- The corrosion proof construction of this system provides a long service life in both fresh and salt water applications
- Gear-Head provides a mounting receptacle for a variety of Scotty post mount accessories

	Base	Head	Height
SCO 150	Universal plate 2-1/4" x 2-1/4"	Universal plate 2-1/4" x 2-1/4"	6-3/4"
SCO 151	Low profile track 1-3/4" x 3/8" x 1" slide	Gear Head	9"
SCO 152	#241 mount 4" x 2" x 2"	Gear head	10-3/4"

Scotty Ball Mount Systems

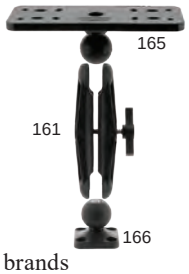

163


162

- Ball systems with two optional mounting platforms for a variety of accessories
- Bigger ball design (1-1/2") gives you a much greater clamping force while still having a smooth full range of motion
- Corrosion proof construction of this system provides long service life in both fresh and salt water
- Gear-Head provides a mounting receptacle for a variety of Scotty post mount accessories
- #162 is designed for use with Scotty baitcaster spinning & fly rod holders

	Base	Head	Height
SCO 162	#241 mount 4" x 2" x 2"	Gear Head	10"
SCO 163	Universal plate 2-1/4" x 2-1/4"	Fish Finder Mount	6.5"

Scotty Ball Mount Systems


165
161
166

- Engineering grade nylon and stainless steel construction
- Ball joints allow for 360° of rotation and 180° of tilt at both ends
- Arms have a longer design for maximum positioning options and an easy grip t-knob
- Multi-hole ball top plates fit most electronics brands
- Compatible with all Scotty ball system accessories

1.5" System - For 7" - 9" screens

SCO 161	Arms only
SCO 165	Top plate only
SCO 166	Base only

2.25" System - For 10" - 12" screens

SCO 171	Arms only
SCO 175	Top plate only
SCO 176	Base only

Scotty Ball Mount w/Sounder Plate



- Mount receptacle for 5-7" screens
- Engineering grade nylon and stainless steel construction
- Easy grip t-knob tightens down for optimal hold strength and simple adjustments
- Compatible with all 1.5" Scotty ball mounting system accessories
- Dual ball-joints provide flexible positioning

SCO 164

Scotty Heavy Duty Ball Mount



- Heavy duty 2.25" ball mount with fish finder top plate
- Designed for 10" - 12" fish finders
- Pre-fabricated holes on the top plate allow easy installation of your gimbal mount bracket
- Square base fastens securely with 1/4" bolts
- Design has superior strength and reliable holding power

SCO 173

Scotty Universal Fish Finder Mount



The post mount allows you to install your screen in any Scotty post mount brackets. Full 360° of rotation allows you to position your screen in the perfect spot every time.

- Multi pattern top plate that fits most popular electronic brands
- For 7"-9" screens

SCO 367

Scotty Swivel Electronics Mounts



- Post mount design for quick removal and infinitely adjustable rotation.
- Fits Lowrance, Eagle and most Garmin sounders
- Includes # 241 side/deck mount and stainless steel fasteners

SCO 269 With #241 mount

Parts:


272

SCO 272 Fishfinder mount only

Scotty Universal Sounder Mount



Mount uses a new multi pattern universal top plate and the Scotty post mount design for quick removal and infinitely adjustable rotation. Simply fasten your sounder bracket to the top plate, then lock down the sounder mount into your favorite Scotty mounting system

SCO 368

Panther Angler's Pal Multi Mounts



- Fish finder/depth sounders can be mounted anywhere in the boat and quickly positioned
- Gives you a full 360 degree of positions
- Universal ball locking device with a "select position" locking knob
- An allen wrench easily removes your fish finder/depth sounder for security or storage
- Comes complete with mounting hardware and allen wrench

PAN 95-0304	4"
PAN 95-0305	5"
PAN 95-0308	8"
PAN 95-0310	10"

Parts:

PAN AP-12003	Hummingbird/Lowrance mounting plate

Scotty Camera Boom w/ Ball Joint



- Compatible with GoPro and other action cameras
- Easy grip T-knobs
- Dual ball-joints provide infinite flexibility for positioning
- Lightweight, buoyant carbon fibre tubes
- Adjustable slip discs
- Includes SCO 241 side deck mount
- Two height options: 29" or 56"

SCO 131

Scotty Action Camera Mount



- Compatible with GoPro and other action cameras
- Easy grip T-knobs
- Dual ball-joints for flexible positioning
- Includes SCO 159 post mount which fits all Scotty post mounting options, track mount, and rail mount (7/8" - 1-1/4")

SCO 134

Scotty Portable Camera Mount



- Fully twistable, turnable, rotatable, and portable
- Locks down a standard camera or GoPro without needing a special adaptor
- Fits ALL Scotty post mount systems
- Versatile top plate works for mounting a compass or any other device that mounts on a flat surface

SCO 135

Shurhold Camera Adapter



Compatible with GoPro and Garmin VIRB Cameras. Attaches to any Shurhold handle.

SHU 104

Scotty Tablet Holder



- Made to withstand heavy use in harsh environments, including varying temperatures, constant UV exposure, and saltwater
- Easy grip knob allows for width adjustments between 5.75” and 9” wide
- Vertical or horizontal positioning
- Large reinforced tabs securely holds device in place
- Opening below for access to charging your device while in use
- Made from engineering grade nylon with stainless fasteners
- 1.5" ball joints, and 2.25" square fixed base

SCO 149

Scotty Phone Holder w/ Mounts



- Made of engineering grade nylon with stainless steel hardware
- Knob adjustment for width accommodates devices between 2-3/4" and 3-3/4" wide
- Easy grip T-knobs
- Opening at bottom for access to charging device while in use
- Dual ball-joints for flexible positioning
- Rail mount fits 7-/8" - 1-1/4", also includes track and post mounts

SCO 139

Scotty Low Profile Tracks

The low profile track and a top load design allows for quick and easy setup of all your Scotty rod holders and accessories.

- Use with the #438 gear-head track adapter



SCO 440BK-1 1"
SCO 440BK-4 4"
SCO 440BK-8 8"

Scotty Locking Gunnel Track Mount

Purpose-built for boats with integrated gunnel tracks; securely attaches to your vessel without the need to drill holes or carry tools.

- Quickly add, remove, or re-position the mount anywhere on the boat, from bow to stern
- Locking mount with push button release



SCO 343

Scotty Side Slide Track Adapter



A quick, effective means of firmly locking down your post mounted Scotty rod holders and accessories when track is mounted on its side as opposed to being top mounted. The adaptor easily slides into place and quickly changes rod holder positions with a simple twist.



Use an adjustable Scotty rod holder or accessory and adjust it to any vertical or horizontal position without having to drill permanent mounting holes. Designed to fit Scotty track and most other small track systems.

SCO 426

Scotty Gear Head Adapter



Quick and easy, drop and lock system. Allows you to secure and re-position your rod holder with just a twist

SCO 428

Scotty Gear-Head Track Adapter



Adapter quickly slides into place and locks down your post mounted Scotty rod holders and accessories. Allows you to quickly change rod holder positions with a simple twist. You can use your favorite, fully adjustable Scotty rod holder and adjust it to any vertical or horizontal position without having to drill permanent mounting holes. Designed to fit all kayak track systems.



SCO 438

Sea-Dog Kayak Recreational Footbrace



- Thru hull mounted
- Secure sliding pedal rail features sand clearing channels and a pedal stopper
- Reversible pedals offer 3° or 14° angle options
- High visibility, durable trigger
- For OEM as well as replacement applications
- Overall length: 15-5/8", Height: 4-1/4"

SED 747520-1 Pair

Sea-Dog Kayak Footbraces

- 10" of adjustable travel with a flip of the lever
- Two mounting holes measuring 14-1/2" apart fit most existing footbrace patterns
- Designed to be maintenance free and self-cleaning
- Ergonomically designed pedals are comfortable even with bare feet
- Thru-hole mounting for easy installation
- Constructed of injection molded polypropylene
- Overall length: 20-1/4", Height: 4-1/4"



SED 747100B-1
SED 747200B-1 with Rudder control

Sea-Dog Fillet/Prep Tables



- Easily adjustable, multi-position gimbaled rod holder (mounting system included)
- Solid one-piece construction
- UV stabilized high-density polyethylene
- Rod holder mounting system folds flat for easy storage

- 3 knife and 1 pliers holder
- 20" x 12-5/8"

SED 326510-3



- 6 knife, 2 pliers holders and 2 hose holders.
- 30" x 12-5/8"

SED 326515-3

Sea-Dog Fillet/Prep Table



- Includes a rail mount adapter and removable rail mount clamps (pair)
- Solid one-piece construction
- UV stabilized high-density polyethylene
- Measures 20" wide by 12-5/8" deep
- Assembles in minutes, with all assembly hardware included
- Easily accessible 6 knife, 2 pliers holders, and 2 hose holders
- 20" x 12-5/8"

SED 326520-3

Sea-Dog Fillet Table



- Includes the 326599-1 rail mount adapter, the 327199-1 removable rail mount clamps (pair), and all necessary hardware
- Solid one-piece construction with a pivoting towel bar
- UV stabilized high-density polyethylene
- Rail mounting system assembles in minutes
- Easily accessible 6 knife, 2 pliers holders, and 2 hose holders
- Measures 30" wide by 12-5/8" deep

SED 326525-3

► *Also See* Railblaza Tables pg 17-024

► *Also See* Magma Tables pg 05-022

Scotty Bait Board



- Multi-purpose workspace for all your tool, tackle, and gear prep needs
- Built-in lure and accessory rack
- Exterior tray walls let you cut bait and prep lures in a tidy, contained space
- Comes with a universal post base, to fit any Scotty rod holder mount or adapter
- 9.5" x 12.25" x 1.75"

SCO 455



Sea-Dog Gimbaled Rod Holder Accessory Mount



Works on all Sea-Dog fillet tables; 326510-3, 326515-3, 326580-3, and 326585-3 and comes complete with hardware to mount to the table. Great for mounting a variety of accessories.

- Injection molded polypropylene/stainless
- Head: 1-13/16" x 2-15/16"
- Tube length: 12"

SED 326598-1

BoatMates Hook Rack



- 3 Suction cups
- 12" x 1.5"

BOT 2110-1

Scotty Net Minder



Quick release system for landing nets.

SCO 210

Sea-Dog Coho Fish Cleaner



- Injection molded polypropylene
- L: 31-1/2" x W: 10" x D: 6-1/4"

SED 325950

Scotty Bait Jars

A rugged container for storing bait or for protecting bait in a crab or prawn trap. The quick unscrew lid and vented body have the right size slots to send the bait smell out, yet protect the bait from most parasites.



SCO 672 1/2 litre
SCO 677 1 litre

Crab Caliper



Made from durable plastic.

WES CC-1 Lime green

Crab Pot Float



- North Pacific crab float
- 5" x 11"

WES 2173-0005

Wesmar Telescoping Landing Net



- Rubber coated net
- Telescopic handle from 46" to 83"
- Hoop dimensions: H: 27" x W: 24" x D: 40"

WES SP-101-FN

BoatMates Cockpit Organizers



Holds fishing gear, binoculars, personal items such as bait, tools, knives, etc.
- 12" x 6" x 4"
- Two suction cup mounting

BOT 2133-1 White
BOT 2133-8 Graphite

BoatMates Cruisin' Caddies



Organizer that holds your beverage, personal items, lures, etc.
- Mounts vertically or on flat surfaces
- 12" x 4.5" x 3.5"
- Two suction cup mounting

BOT 2131-1 White
BOT 2131-8 Graphite

BoatMates Spare Suction Cups



- Replacement cups
- Package of 4

BOT 2200-0

Scotty Downrigger Trolling Caddy

NEW



- All-in-one caddy handles your most common trolling tackle, tools, and accessories
- Installs easily onto existing Scotty 1026 swivel mount, or hard mounts directly to your boat (screws for hard mounting not included)

SCO 450 7" x 4.25" x 1.75"

Scotty Mini Gear Caddy

NEW



- Convenient storage solution in a small footprint
- Dedicated receptacles for line grippers, pliers, lures, and even a rod rest
- Includes a deck post mount and hardware for attaching via gunnel track mount, and also has mounting holes for the SCO 166 1.5" ball system base (not included)

SCO 451 10.25" x 4" x 4.25"

Scotty Gear Caddy



- Keeps tools and tackle organized, secure, and readily available
- Many storage locations in a range of sizes
- Integrated magnetic tray prevents hooks and lures from becoming scattered or lost

SCO 452 20" x 4.25" x 6.25"

Sea-Dog Knife & Pliers Holder



- For storing your knives, pliers and fishing lures
- 1 piece molded polypropylene
- Stainless mounting screws included
- Holds up to 15 pieces of tackle
- H: 8-7/8" x W: 3-7/8" x D: 2-1/4"

SED 325925-1

Beckson Radio Holders



- Soft PVC holder is designed for handheld VHF radios
- H: 6" x W: 3" x D: 2"

BEC HH-8 White

BoatMates Communications Caddy



- Holds most hand-held VHF radios and FRS's
- 4.5" x 3.5" x 2.5"

BOT 2135-1 White
BOT 2135-8 Graphite

BoatMates GPS/Cell Caddies



- Holds most hand held GPS, cell phones and other small electronic devices
- Suction cups or permanent mount
- 6" x 4.5" x 3.5"

BOT 2134-1 White
BOT 2134-8 Graphite

BoatMates Seat Organizer



- Heavy mesh pocket organizer
- Can be mounted on a back-to-back seat base or on the rear of flip-flop style seat
- Snap fasteners for back-to-back seats and quick release straps for flip-flops
- Commercial grade coated mesh and polyester materials

BOT 3129-4 L: 29" x W: 9.5" x D: 3"

BoatMates Trash Bagger



Easy to mount resin frame has a hinged cover to keep the contents from spilling out, and insects from creeping in. Mounts on any smooth surface with three super suction cups, or can be permanently mounted with screws. Uses the typical supermarket "tee-shirt" bags, or kitchen trash bags. Mounting instructions and bags included.

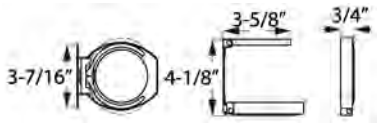
BOT 2132-1 White

Sea-Dog Nylon Gear Hammock



- Length: 60"
- Colour: White

SED 671100-1

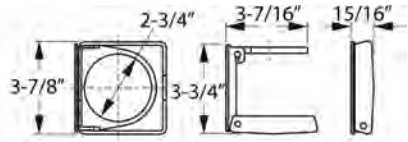




Sea-Dog Adjustable Folding Beverage Holder

- 304 Stamped stainless steel construction
- Adjusts from 2-3/8" to 3-7/8"

SED 588250-1

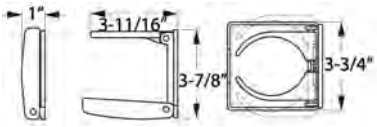


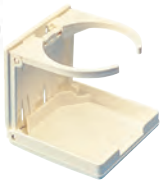


Sea-Dog Folding Drink Holders

- Injection molded ABS

SED 588210-1 Black
SED 588211-1 White





Sea-Dog Adjustable Folding Drink Holders

- Injection molded ABS
- Adjusts from 2-3/8" to 3-7/8"

SED 588220-1 Black
SED 588221-1 White

BoatMates Folding Drink Holders



- Capable of holding both cans and cans with cozies
- Injection molded resin
- Can be mounted with super suction cups or screw mounted

BOT 2170-2 White, 2/pkg
BOT 2170-8 Graphite, 2/pkg

JR Products Adjustable Drink Holders



- Easy mounting, adjustable arms, holds up to 32 oz cup or beverage
- Folds out of the way when not in use

JRP 45619 Black
JRP 45622 Grey
JRP 45623 Tan
JRP 45624 White

BoatMates Drink Holders Plus



- Single drink holder
- Suction cup fastening
- 6" x 4" x 4"

BOT 2136-1 White
BOT 2136-8 Graphite

BoatMates Drink Holder w/Sleeve



Holds a single drink with insulation sleeve.

- Single suction cup mounting
- 3.6" x 3.5" dia

BOT 2150-1

Scotty Drink Holders



- For cans, coffee mugs and insulated sleeves
- Accessory rack to hang lures and tools
- Easily removable

- Complete with bulkhead/gunnel mount

SCO 310BK Black

- Complete with bulkhead/gunnel mount and rod holder post mount

SCO 311BK Black

Beckson Can/Horn Holders

HH-61



- Soft PVC holder
- Designed for pop cans and air horns

BEC HH-6 White
BEC HH-61 White, for cans with insulator sleeve

Sea-Dog Single/Double Drink Holders



- Injected molded nylon
- Mounts easily too most surfaces with suction cups
- Expands from single to dual
- H: 4-1/8" x W: 4-1/4" or 8-1/8

SED 588510-1 Single

- Expands from double to quad
- H: 4-1/8" x W: 8-1/8" or 16-3/8"

SED 588520-1 Double





588520-1 expanded

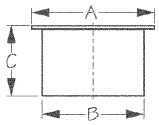
Taco Drink Holders



- UV-stabilized high density white polymer
- Holds 16 to 30 oz tumblers
- Dual drain holes on recessed bottom
- Holds tumbler at proper height to prevent tipping
- Includes mobile device cutout and charging cable port
- Includes suction cups
- Single: H: 5-3/8" x W: 4-7/8" x D: 5-1/4"
- Double: H: 5-3/8" x W: 9-1/2" x D: 5-5/8"
- Made in USA
- Three year limited warranty



TAC P01-2010W Single
TAC P01-2020W Double



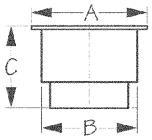


Sea-Dog Flush Mount Drink Holders

- Injection molded ABS plastic
- Fits standard pop tin

Part #	A	B	C	Cutout	Colour
SED 588000	3-3/8"	2-7/8"	2"	3"	Black
SED 588001					White
SED 588010	3-3/8"	2-7/8"	3"	3"	Black
SED 588011					White
SED 588050 **	4-1/8"	3-5/8"	2-5/16"	3-3/4"	Black
SED 588051					White

** While Stock Lasts

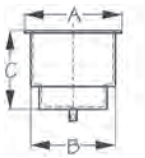




Sea-Dog Flush Mount Drink Holders

- Injection molded ABS plastic
- Dual purpose design allows use of pop cans with or without insulated can wraps

Part #	A	B	C	Cutout	Colour
SED 588060	4"	3-5/8"	3-1/4"	3-3/4"	Black
SED 588061					White

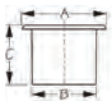




Sea-Dog Flush Mount Drink Holders w/Drain Fitting

- Injection molded ABS plastic
- Dual purpose design allows use of pop cans with or without insulated can wraps
- Integral drain fitting that allows water to be drained directly into the bilge with the use of 1/4" tubing (not included)

Part #	A	B	C	Cutout	Colour
SED 588060N	4"	3-5/8"	3-1/4"	3-3/4"	Black
SED 588061N					White







Sea-Dog Captive Drink Holders w/Bezel

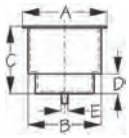
- Features rubber grippers to help secure your drink
- Bezel covers fasteners for clean look
- Installs with three #8 FH self-tapping fasteners (included)

Part #	A	B	C	Colour
SED 588090-3	4-3/4"	3-5/8"	3-3/8"	Black ABS
SED 588095-3				Polished 316 Stainless

Sea-Dog Flush Mount Combo Drink Holder



- Dual-purpose design for cans with or without insulated can wraps and most standard size bottles
- Drain fitting allows water to be drained directly into the bilge with the use of 1/4" tubing (not included)
- Requires a 3-5/8" diameter hole for installation
- Padded bottom w/rubber insert prevents rattling
- Includes mounting gasket
- Constructed of corrosion resistant 304 stainless steel

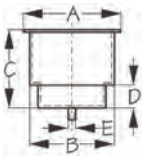


Part #	A	B	C	D	E
SED 588065	4-1/4"	3-5/8"	3-3/16"	3/4"	1/4"

Sea-Dog Flush Mount Drink Holder LED



- Stamped 304 stainless with 3 blue LEDs
- Designed for beverage cans with or without insulated wraps and most standard size bottles
- Integral drain fitting allows water to be drained directly into bilge with the use of 1/4" tubing (not included)
- Requires a 3-5/8" hole
- The bottom is padded with a rubber insert to prevent rattling
- 12VDC



Part #	A	B	C	D	E
SED 588074-1	4-1/4"	3-5/8"	3-3/16"	3/4"	1/4"

Sea-Dog Swivel Beverage Holder



- Chrome plated brass with foam insulator
- Fits most mugs with handles, cans and glasses

SED 588130-3

Camco Clamp-On Rail Mounted Cup Holders

The secure clamp assembly keeps the cup holder in place with the help of tension adjustment screws. The swivel mount allows you to install on any angle rail to keep it level.



- Mounts to boat rails
- Fits most standard cups, cans, bottles and tumblers
- Swivels to any angle
- Constructed of a durable, UV-resistant polymer

CAM 53093	3/4" - 1-1/4" mount, grey
CAM 53086	3/4" - 1-1/4" mount, white
CAM 53083	1-1/2" - 2" mount, white

Marine Hardware Drink Holder



- Electropolished stamped stainless steel
- Two step design holds standard 12 ounce beverage cans with or without insulators
- Diameter: 4", Depth: 3"

MHI SSDC70000-P

ITC Stainless Drink Holder



- 316 stainless steel
- Highly polished visible rim
- Stepped for multiple sized drinks
- 3/8" weep hole
- Noise reducing rubber pad
- Requires a 3.5" cutout and is 3" deep

ITC 81421SS-HP

Handi-Man Drink-A-Long Drink Holders



HAN 960025	Chrome plated
HAN 960026	Stainless steel

Tempress Sail-Mate Drink Holder



- Stainless steel drink holder
- Includes cozy
- Keeps drinks level in the roughest conditions
- Holds cans, bottles and mugs
- Designed to fit over most lifelines

TMP 22501

Camco Melamine Dinnerware Set



- Includes four bowls, salad plates and dinner plates
- The bowl is white with a navy blue anchor, the small plate is blue and white striped and the large plate is blue with a white anchor
- Easy to clean and top rack dishwasher safe, and BPA free
- Do not use in the microwave

CAM 41951

Sea-Dog Bottle Opener



- Investment cast 316 stainless
- Height: 2-3/8
- Use #6 FH

SED 588450-1

Sea-Dog Bean Bag Style Ashtray



Bean bag style wind proof ashtrays with bowl and cover made from polished 304 stainless steel.

- 4-1/8" dia

SED 589610-1 Red

Camco Slip Stop



- Prevents slipping and sliding
- Washable, easily trimmed material
- Used as a liner between plates, cups and appliances
- 1' x 12' roll

CAM 43277	Cream
CAM 43278	Blue

Camco Mechanical Suction Cup Utensil Holder



Keep your kitchen utensils from moving around on your boat's counter during travel. The utensil holder suctions tightly with a mechanical suction cup, securing your utensils while your boat is in motion.

- Designed for compact spaces: perfect for boats
- Made of durable polypropylene
- Size: H: 8-1/4" x D: 3"



CAM 43816 Grey

Camco Pop-Up Cooler



- Water resistant interior prevents leaks, spills and condensation
- Insulated access hatch allows you to retrieve food and beverages while minimizing cold loss
- Features a zippered lid, carry handles, and buckle strap to keep flat when not in use
- Included bottle opener

CAM 51995 13" x 10"

T-H Marine Cooler Mounting Kit



- Kit includes four corner brackets and two hold down straps
- Designed to prevent unwanted cooler movement on your deck
- Made from U.V. resistant materials
- Comes with all mounting hardware including screws
- Fits virtually all coolers including Igloo

THM CMK-1-DP

Davis Key Buoy



When keys fall in the water, Key Buoy self-inflating key ring opens up, releasing an air tube which inflates automatically. Within 30 seconds, your keys rise to the surface, and the 14" (47 cm) inflated tube extends above the water, allowing you to reach over and pick them up. Strong enough for items weighing up to 4.2 ounces (120 grams) such as keys, small tools, deck plate keys. Single use only, so keep a spare on hand.

DIN 530

AnchoRight Keyfloats



- Internal bulkheads, so they will still float if they are damaged
- Bright face colour with white stripe for visibility
- Heavy duty rustproof keyring, and large handy hole that makes it easy to fish out with a boat hook

ANC KF-BL	Blue
ANC KF-RO	Royal Blue
ANC KF-FL	Fluorescent yellow
ANC KF-GO	Gold
ANC KF-GR	Green
ANC KF-OR	Orange
ANC KF-PI	Pink
ANC KF-RE	Red
ANC KF-YE	Yellow

Display bundle



- A4 display panel with 20 key floats (10 colours, 2 of each)

ANC KF-20

Hardline Products Key Floats





End key loss with a fluorescent yellow key float. Sold individually or in a 24 key float display*.

HRD AN-12	Anchor
HRD VLL-12	Bass
HRD L-12P	Ski Girl
HRD X-24	Display that comes with 12 Bass and 12 Ski Girl key floats
HRD CS-01	2 Display strips with 2 each of popular sayings* in red, white and blue. (24 total)



* Boat Keys
* Get in Sit Down Shut Up Hold On
* H2O Skier
* The One with the Most Toys Wins
* The Difference Between Men and Boys is the Price of Their Toys
* The Worst Day Fishing Beats the Best Day Working

Sea-Dog Cork Key Float



- 4-1/8" x 1-7/8"

SED 568010-1

Wichard Key Ring



- Stainless steel snap hook key ring
- Chrome plated steel

WIC 9305

Matworks Entrance Mats







High end, highly fade resistant, rubber backed, jet printed entrance mats.

MFM 10010
Welcome Aboard in navy 18" x 30"

MFM 10050
Welcome Aboard in navy 10" x 22"

MFM 10090
Welcome Aboard in blue half moon shape, 18" x 36"

Sea-Dog Waterproof Playing Cards



- Designed especially for marine use
- 100% plastic and totally waterproof
- Face cards have nautical scenes

SED 588811-1

Tempress Boot Saver



Designed for easy storage of all types of boots, waders, hiking, foul weather, etc. The Boot Saver protects any boot from damage from improper storage. By hanging upside down the Boot Saver promotes drainage and proper drying

TMP 41203

Greenfield Retrieval Magnet



Great for retrieving tools, props, or keys dropped overboard.

- 200 lb capacity
- 10.2 x 7.6 x 10.2 cm

GRN 7-RD

Airhead Floating Sunglasses



- Floating, impact resistant, highly visible sunglasses
- Polarized lenses reduce glare, making images sharper and clearer
- UVA blocking

AIR AHFS-C102	Classic Blue, 6/pk
AIR AHFS-C104	Classic Black, 6/pk

- Display boxes include 2 each of white, blue, and black sunglasses

AIR AHS50139CPQ	Classic, 6/pk
AIR AHS50140SPQ	Sport, 6/pk

FASTMOUNT.com
PANEL MOUNTING SYSTEMS



SETTING THE STANDARD IN PANEL MOUNTING FOR MARINE...

Fastmount® panel mounting systems have become the standard for removable interior panel mounting in the marine industry, as the only purpose-built panel mounting solution on the market.

The hidden fastening system allows ceiling and wall panels, and upholstery to be removed and refitted in any sequence, time after time, increasing efficiencies for builders, installers and crew alike.

Clip Selector





Fastmount		18-002 to 004
Canvas Fasteners		18-004 to 005
Fasteners	Fasteners	18-006 to 015
	Locking Wire / Deck Plugs / O-Ring Kits	18-015 to 016
Rigging Knives, Sharpeners, & Caulking Guns		18-016 to 017
Tools	Hand Tools	18-017
	Scrapers	18-017 to 018
	Screwdrivers	18-018 to 019
	Drill Bits	18-019

Fastmount Panel Mounting Systems

Revolutionizes the mounting of ceiling, wall, floor and other panels. The Fastmount PC01 clips used in the system are specifically designed and developed to meet the demanding requirements of the marine industry.
The Fastmount system provides a superior ceiling finish with perfect panel alignment every time. Panels can quickly & easily be removed and refitted.

FASTMOUNT
PANEL MOUNTING SOLUTIONS

- Quick install .....
- Upholstered panels ....
- New builds .....
- Internal & external .....
- Compatible with Velcro
- Removable
- Strong 5kg per clip
- Precise positioning
- Painted panels
- Refits

STANDARD CLIPS

FLP PC-DC1	Female adjustable anchor which houses the Standard Range PC-F1A to enable efficient and secure mounting into drywall or concrete substrates. Allows transverse adjustment on uneven substrates to create a level-mounting surface. To be used with PC-F1A female clip and all Standard Range male clips
FLP PC-AF1	Auto fit female - Female push fit clip suitable for applications requiring lateral adjustment. Compatible with male clips PC-M1A, PC-M2H, PC-SM2, PC-SM2H, PC-VM1 and PC-VMX. Screw fixed into pre-drilled 35mm hole. No special tools required for installation.
FLP PC-F1A	Self tapping female Female self tapping clip suitable for most panel mounting applications. Compatible with male clips PC-M1B, PC-M2H, PC-SM2 and PC-VM1. Screws into 16.8mm hole made with CT-07 or CT-13. Install with CT-03.
FLP PC-M1B	Self tapping male - PC-M1A Upgrade: Male self tapping clip suitable for most panel mounting applications. Mounts into PC-F1A, PC-SF1, PC-RF1-B and PC- AF1. 5 kg pull out load per clip. Screws into 10mm hole with CT-01 or CT-09. Minimum panel thickness 6mm. Install with CT-10.
FLP PC-M2H	Self tapping male heavy duty (black) - Male self tapping heavy duty clip for thicker panels with increased loading. Mounts into PC-F1A, PC-SF1, PC-RF1 and PC-AF1. 10 kg pull out load per clip. Minimum panel thickness 9mm. Screws into 10mm hole with CT-10.
FLP PC-SF1	Surface mount female - Female surface mount screw fix clip for use where a cavity is required. Compatible with male clips PC-M1B, PC-M2H, PC-SM2, PC-SM2H, PC- VM1 and PC-VMX. Screws onto support frame. No special tools required for installation.
FLP PC-RF1-B	Side mount female (brown) - Female side mounting screw fix clip suitable for various side mounting applications. Compatible with male clips PC-M1B, PC-M2H, PC-SM2, PC- SM2H, PC-VM1 and PC-VMX. Screw fixed to frame. Use CT-18 install jig for ceiling applications.
FLP PC-SM2	Surface mount male - Male surface mount clip with SuperGroove base for thinner panels. Mounts into PC-F1A, PC-SF1, PC-RF1 and PC-AF1. 5 kg pull out load per clip. Glue fix with Fastmount Supergroove Adhesive. No special tools required for installation.
FLP PC-SM2H	Same as PC-SM2 - but for heavy duty applications.
FLP PC-SVMX	Vario surface mount male - Male self tapping surface mount clip with variable gap and high shear strength. Mounts into PC-F1A, PC-SF1, PC-RF1, PC-AF1. Extra heavy duty clip with 15 kg pull out load. Minimum panel thickness 9mm. Installs with 3 x CSK #6 screws
FLP PC-VM1	Male self tapping clip with variable gap and high shear strength. Mounts into PC-F1A, PC-SF1, PC-RF1 and PC-AF1. 5 kg pull out load per clip. Minimum panel thickness 9mm. Screws into 10mm hole with CT-10.
FLP PC-VMX	Male self tapping clip with variable gap and high shear strength. Mounts into PC-F1A, PC-SF1, PC-RF1, PC-AF1. Extra heavy duty clip with 15 kg pull out load. Minimum panel thickness 9mm. Screws into 10mm hole with CT-10.

LOW PROFILE CLIPS

FLP LP-F8	Self tapping female - Female low profile self tapping clip for use with plywood and MDF type boards. Compatible with male clips LP-M8 and LP-SM8. Install with CT-19 into 25-25.4mm hole.
FLP LP-DF8	Self tapping coarse thread female - Female low profile self tapping clip with coarse thread for use with drywall plasterboard and soft core material. Compatible with male clips LP-M8 and LP-SM8. Install withCT-19 into 25mm hole.
FLP LP-M8A	Self tapping male - Male self tapping low profile clip for plywood and MDF type boards. Mounts into LP-F8 and LP-DF8. 5 kg pull out load per clip. Screws into 10mm hole with CT-09. Install with CT-10.
FLP LP-SM8A	Surface mount male - Male low profile surface mount clip with SuperGroove base for thinner panels. Mounts into LP-F8 and LP-DF8. 5 kg pull out load per clip. Epoxy glue or screw fix. No special tools required for installation.
FLP LP-SM8H	Surface mount male - Male low profile surface mount clip with 22 lb pull out load. Mounts into LP-F8, LP-DF8, and LP-AF8A. Screw fix with 3x countersink #6 type screws. No special tools required for installation
FLP LP-AF8A	Auto fit female - Female low profile push fit clip with lateral adjustment designed for use with curved panels. Compatible with male clipsLP-M8 and LP-SM8. Screw or Fastmount Supergroove Adhesive fix into pre-drilled 35mm hole.

VERY LOW PROFILE CLIPS

FLP VL-F3	Female very low profile clip for surface or recessed mounting. Compatible with male clip VL-M3. 5 kg pull out load per clip set. Screw or Fastmount Supergroove Adhesive fix. No special tools required for installation.
FLP VL-M3	Male very low profile surface mount clip. Compatible with female clip VL- F3. 5 kg pull out load per clip set. Screw or Fastmount Supergroove Adhesive fix. No special tools required for installation..
FLP VL-SS3	Stainless steel screw - Custom type 303 stainless steel screw for fixing VL-M3 into panels down to 5.5mm thick. Supplied with VL-03 clep set. Pan head, #2 square drive. Electroplated mild steel version available code VL-S3.



METAL RANGE CLIPS	
FLP MC-CP5	Metal Clip range centre point with stainless steel tip to mark hole centre in panel for correct clip alignment. Fits into MC-F5. See install guide.
FLP MC-F5 **	Female metal clip with white center to indicate 5 kg pull out load. Compatible with MC-M5. Self taps into 13mm hole with MC-IT5. Screw fit installation with #5 gauge screws.
FLP MC-F10 **	Female metal clip with black centre to indicate 10 kg pull out load. Compatible with MC-M5. Self taps into 13mm hole with MC-IT5. Screw fit installation with #5 gauge screws.
FLP MC-IT5	For use with Metal range. Use to install self tapping male MC-M5, also MC-F5 and MC-F10 into plywood or similar with battery drill on correct torque setting. See install guides and video for correct use.
FLP MC-M5 **	Male self tapping metal clip suitable for fire rated panels. Compatible with MC-F5 (5 kg pull out load) and MC-F10 (10 kg pull out load). Screws into 10mm hole with CT-09. Install with MC-IT5.
FLP MC-SSCP	Stainless steel clip centre point with three ss tips to mark outer drill holes, and a centre tip for precise panel alignment and extra strength. Fits into MC-SSM10.
FLP MC-SSF10	304 stainless steel female clip withstands heavy bearing for both wall and ceiling panels. Screw fixed to substrate. Ideal for fire rated panels. 22 lb pull out load. Compatible with MC-SSM10.
FLP MC-SSM10	304 stainless steel male clip withstands heavy bearing for both wall and ceiling panels. Screw fixed to back of panel. Ideal for fire rated panels. 22 lb pull out load. Compatible with MC-SSF10.



Tools	
FLP CP-01ST	Standard center point - Fed plastic stainless steel tip - Standard Profile center point with stainless steel tip to align holes in panel and frame for correct clip alignment. Fits 10mm blind hole in panel drilled with CT-09; or into PC-F1A, PC-SF1, PC-RF1 and PC- AF1.
FLP CP-08ST	Low Profile center point with stainless steel tip to mark harder panel materials for correct clip alignment. Fits into LP-F8 and LP-DF8
FLP CT-01	Carbide tip drill 10mm with shoulder - For use with the Standard Profile and Low Profile ranges. For drilling through panel and creating pilot hole for CT-07.
FLP CT-03	Install tool for PC-F1A - For use with Standard Profile clip PC-F1A. Use to install self tapping female PC-F1A with battery drill on correct torque setting
FLP CT-05	Panel removal tool - Stainless steel tool for removing upholstered panels. Not for use with painted panels.
FLP CT-07	Carbide tip step drill - For use with Standard Profile clip PC-F1A. Tungsten tip drill with 16.8mm diameter for drilling 10mm hole in frame
FLP CT-09	Carbide step drill 10mm forstner type - For use with Standard Profile, Low Profile and Metal ranges. For drilling blind holes into the back of panels.
FLP CT-09DG	Drill Gauge for use with CT-09 drill bit. Designed for depth control when blind drilling for Standard and Low Profile range male clips. Machined aluminium housing, anodised red for durability. NOTE: Sold separately to CT-09.
FLP CT-10	Install tool self tapping male clips (aluminium) - For use with Standard Profile, Low Profile and Panel Control range. Use to install self tapping male PC-M1B, PC-M2H, PC-VM1, PC-VMX, PS-150 and LP-M8 with battery drill on correct torque setting.
FLP CT-15	Tap for PC-F1A - For use with Standard Profile clip PC-F1A. Tap tool for tapping thread to fit PC-F1A into fibreglass, aluminium or similar. Either drill hole with CT- 13A or drill out 10mm hole with CT-07 then tap with CT-15.
FLP CT-18DG	Drill guide installation jig for PC-RF1 - Adjustable drill guide for use with the Standard Profile range. Designed for PC-RF1 mounting options.
FLP CT-19	Install tool (metal) for LP-F8 & LP-DF8 - Steel install tool for female Low Profile clip. Use in battery drill with correct clutch setting.
FLP CT-20	Install tool (plastic) for LP-F8 & LP-DF8 - Red plastic moulded Install tool for female Low Profile clip. Use in battery drill with correct clutch setting. For normal use, for large quantity installs use CT-19.
FLP CT-22	For tapping thread into hard materials for male clips, PC-M1B, PC-M2H, PC-VM1, PC-VMX, LP-M8A, MC-M5, PS-150, PS-150E (self tapping male end).
FLP VL-CP3	Very Low Profile centre point with stainless steel tip to mark hole centre in panel for correct clip alignment. Fits into both VL-F3 and VL-M3



Fastmount Textile Range Panel Mounting

The Textile Range has been specifically designed for the mounting of soft textiles to hard surfaces. The hidden system locks into place, and can only be removed by unlocking the clip, providing added security under high winds and seas. Makes cushions simple to install, remove and replace. Typical applications include sun loungers, exterior and interior cushions, seat bases and backs

TEXTILE RANGE CLIPS	
FLP TC-CP6H	Textile Range centre point with stainless steel tip to mark hole centre in panel for correct clip alignment.
FLP TC-F6 **	Female clip: flexible spring loaded clip with three-point release system. Easy to stitch onto a variety of textiles and soft furnishings.
FLP TC-F6H	Heavy-duty female clip with quick aligning, secure slide-lock function. Stitches onto upholstery during construction process. For use with male clips TC-M6 and TC-SM6.
FLP TC-M6	Male clip: White screw fix male for use with #6 screw. UV resistant.
FLP TC-SM6	Male clip: Translucent surface mount male with Very High Bond (VHB) tape pre-attached for quick, durable install. UV resistant.
FLP TC-R6 **	Plastic Removal tool for releasing multiple TC-F6 female clips. Note: TC-F6 can be released by hand.



** While Stock Lasts

Yard Kit

Includes: 1 x CT-01, 1 x CT-03, 1 x CT-04, 1 x CT-07 & 1 x CT-09.

FLP CT-08



Sample Panels







FLP CD-03	Panel w/CD
FLP CD-08	Low profile range
FLP CD-MC5 **	Metal range
FLP CD-VL3	VL range
FLP SB-RF1 **	Corner

** While Stock Lasts

Handi-Man Canvas Fasteners

- Nickel plated brass
- Sealed plastic package, with descriptive header card


560011


560021


560051
560061


560071

Canvas Fasteners:

HAN 560011	Socket & cinch plate	4/sets
HAN 560021	Stud & cinch plate	4/sets
HAN 560051	Stud #8 W/S 3/8" screw	4/pkg
HAN 560061	Stud #8 W/S 5/8" screw	4/pkg
HAN 560071	Stud #8-32 M/S 3/8" screw	4/pkg


560081
560091


560101


560111
560121


560151

Snap Canvas Fasteners:

HAN 560081	1/4 Barrel & socket	6/sets
HAN 560091	11/64 Barrel & socket	6/sets
HAN 560101	Snap Stud eyelet 10 w/plate	6/pkg
HAN 560111	Snap Stud #8 W/S 3/8" screw	6/pkg
HAN 560121	Snap Stud #8 W/S 5/8" screw	6/pkg
HAN 560151	Snap Stud #10-32 M/S 3/8" screw	6/pkg


560161


560171


560181


560191


560201

Twist & Curtain Fasteners:

HAN 560161	Twist stud 2 Hole	2/pkg
HAN 560171	Double prong twist	2/sets
HAN 560181	Eyelet & washer	2/sets
HAN 560191	Twist stud, screw #7 x 5/8" screw	2/pkg
HAN 560201	Hand punch & base	1/pkg

Perko Button Fasteners


869 896 898 901 907

- Nickel plated. No. 869 stud is stainless steel with a 5/8" self tapping screw
- For canvas to surface, use No. 869, 896, 898
- For canvas to canvas, use No. 896, 898, 901, 907

PER 869-000-STS	Stud
PER 896-000-NKL	Button
PER 898-000-NKL	Socket
PER 901-000-NKL	Stud
PER 907-000-NKL	Eyelet

Perko Curtain Fasteners

- Nickel plated brass


994 996 997

PER 994-000-NKL	Flanged stud
PER 996-000-NKL	Eyelet
PER 997-000-NKL	Washer

Sea-Dog Canvas Fasteners

- Nickel plated brass.


299101 299102 299103 299104 299107

Canvas Fasteners:

SED 299101-1	Socket and back plate 7/32"	3/sets
SED 299102-1	Stud-2 prong clinch & washer	4/sets
SED 299103-1	Stud-eyelet type & washer	4/sets
SED 299104-1	Stud, #8 wood screw, 1/2"	5/pkg
SED 299107-1	Stud-8-32" machine screw 3/8"	5/pkg


299108 299109 299110 299111 299112 299115

Snap Canvas Fasteners:

SED 299108-1	Snap cap 1/4" & socket	6/sets
SED 299109-1	Snap cap 5/16" & socket	6/sets
SED 299110-1	Snap stud standard & snap post 1/4"	6/sets
SED 299111-1	Snap stud, #8 sheet metal screw, 3/8	6/pkg
SED 299112-1	Snap stud, #8 sheet metal screw, 5/8"	6/pkg
SED 299115-1	Snap stud, #10-32 machine screw 3/8"	5/pkg


299116 299117 299118 299119

Twist & Curtain Fasteners:

SED 299116-1	Twist stud	2/pkg
SED 299117-1	Snap turnbuckle-2 prong clinch & backplate	2/sets
SED 299118-1	Snap turnbuckle eyelet & washer	4/sets
SED 299119-1	Snap turnbuckle #7 brass wood screw, 5/8"	2/pkg

Handi-Man Extend-A-Snap Canvas Fasteners



- Avoid shrinkage of canvas covers & tarps
- Gain 3/4" on each reach
- Simply snap male to the canvas and the female end to the boat

HAN 560261 4/pkg

Handi-Man E-Z Grommets



- Self sealing eyelet kit for plastic sheets, canvas tarps, and heavy cloth
- Kit includes: 6 x 1/2" eyelets and a steel hole making tool

HAN 960102 White

Sea-Dog Canvas Fasteners



- Stainless steel windshield clip-3/4" base

SED 299124-1 4/pkg



- Stainless steel windshield clip-7/8" base

SED 299125 Bulk
SED 299125-1 4/pkg

Sea-Dog Flexible Base Adhesive Canvas Fasteners



- Stainless steel / plastic

Part #	Diameter	Height	Type	Colour	Pack
SED 297144-2 **	1-9/16"	1/4"	Stud	Gray	25

** While Stock Lasts

Sea-Dog Female Canvas Snaps With D-Ring



- Stainless steel
- Works with all Sea-Dog adhesive snap sockets and all standard stainless steel marine sockets
- Ring width: 1", overall length: 1-3/4"
- 2/pkg

SED 299255-1 ** Socket
SED 299257-1 ** Stud

** While Stock Lasts

Handiman Canvas Fasteners & Pliers Kit



- Barrel snap cap: 18
- Socket snap canvas fastener: 18
- Barrel eyelet: 18
- Stud for snap fastener: 18
- Canvas pliers tool: 1

HAN 970162

Handiman Canvas Fasteners & Tool Kit



- Barrel snap cap: 36
- Socket snap canvas fastener: 36
- Barrel eyelet: 24
- Stud for snap fastener: 24
- Screw stud #8 x 3/8": 12
- Screw stud #8 x 5/8": 12
- Snap tool & die: 1

HAN 970145

Handiman Canvas Fasteners & Tool Kit



- 8 x 5/8" wood screws: 6
- Cap: 10
- Socket: 10
- Stud: 10
- Eyelet: 10
- Snap tool & die: 1

HAN HP107

Sea-Dog Canvas Snap Tool



- Canvas snap hand punch & base

SED 299120-1

Sea-Dog Canvas Snap Tool



- Includes a die wrench and three removable dies for various snap caps and studs

SED 299190-1

Taylor "Dot" Fastener Tool



- Punch and die for attaching buttons, sockets, studs and eyelets to canvas
- Easy to use
- Instructions included

TAY 1360

Hex Head Bolts
Coarse Thread, Hot Dipped Galvanized

Bolt Hex Galvanized



- Sold by the each

1/4	3/8 continued
FAS BHG-1/4X1-1/2	FAS BHG-3/8X3
FAS BHG-1/4X2-1/2	FAS BHG-3/8X3-1/2
FAS BHG-1/4X3	FAS BHG-3/8X4
5/16	FAS BHG-3/8X5
FAS BHG-5/16X1	FAS BHG-3/8X6
FAS BHG-5/16X1-1/2	**1/2**
FAS BHG-5/16X2	FAS BHG-1/2X1-1/2
FAS BHG-5/16X2-1/2	FAS BHG-1/2X4
FAS BHG-5/16X3	FAS BHG-1/2X6
3/8	FAS BHG-1/2X7
FAS BHG-3/8X1	FAS BHG-1/2X8
FAS BHG-3/8X1-1/2	**3/4**
FAS BHG-3/8X2	FAS BHG-3/4X8
FAS BHG-3/8X2-1/2	FAS BHG-3/4X12

Hex Head Bolts
Coarse Thread, Stainless Steel (18-8)

Bolt Hex



- Sold by the each

1/4	3/8	
FAS BH-1/4X1/2	FAS BH-3/8X3/4	
FAS BH-1/4X5/8	FAS BH-3/8X1	
FAS BH-1/4X3/4	FAS BH-3/8X1-1/4	
FAS BH-1/4X1	FAS BH-3/8X1-1/2	**1/2 continued**
FAS BH-1/4X1-1/4	FAS BH-3/8X1-3/4	FAS BH-1/2X4-1/2
FAS BH-1/4X1-1/2	FAS BH-3/8X2	FAS BH-1/2X5
FAS BH-1/4X1-3/4	FAS BH-3/8X2-1/2	FAS BH-1/2X5-1/2
FAS BH-1/4X2	FAS BH-3/8X3	FAS BH-1/2X6
FAS BH-1/4X2-1/4	FAS BH-3/8X3-1/2	FAS BH-1/2X7
FAS BH-1/4X2-1/2	FAS BH-3/8X4	FAS BH-1/2X8
FAS BH-1/4X3	FAS BH-3/8X4-1/2	**5/8**
FAS BH-1/4X3-1/2	FAS BH-3/8X5	FAS BH-5/8X1-1/2
FAS BH-1/4X4	FAS BH-3/8X5-1/2	FAS BH-5/8X2
FAS BH-1/4X4-1/2	FAS BH-3/8X6	FAS BH-5/8X2-1/2
FAS BH-1/4X5	FAS BH-3/8X7	FAS BH-5/8X3
FAS BH-1/4X5-1/2	**7/16**	FAS BH-5/8X3-1/2
FAS BH-1/4X6	FAS BH-7/16X1	FAS BH-5/8X4
5/16	FAS BH-7/16X1-1/4	FAS BH-5/8X4-1/2
FAS BH-5/16X3/4	FAS BH-7/16X1-1/2	FAS BH-5/8X5
FAS BH-5/16X1	FAS BH-7/16X2	**3/4**
FAS BH-5/16X1-1/4	FAS BH-7/16X2-1/2	FAS BH-3/4X2
FAS BH-5/16X1-1/2	FAS BH-7/16X3	FAS BH-3/4X2-1/2
FAS BH-5/16X1-3/4	**1/2**	FAS BH-3/4X3
FAS BH-5/16X2	FAS BH-1/2X1	FAS BH-3/4X3-1/2
FAS BH-5/16X2-1/2	FAS BH-1/2X1-1/4	FAS BH-3/4X4
FAS BH-5/16X3	FAS BH-1/2X1-1/2	FAS BH-3/4X5
FAS BH-5/16X3-1/2	FAS BH-1/2X1-3/4	
FAS BH-5/16X4	FAS BH-1/2X2	
FAS BH-5/16X4-1/2	FAS BH-1/2X2-1/2	
FAS BH-5/16X5	FAS BH-1/2X3	
FAS BH-5/16X5-1/2	FAS BH-1/2X3-1/2	
FAS BH-5/16X6	FAS BH-1/2X4	

Hex Head Bolts
316 Stainless Steel, Coarse Thread

Bolt Hex 316



- Sold by the each

316 Stainless Steel

1/4	3/8 continued
FAS BH316-1/4X1/2	FAS BH316-3/8X2
FAS BH316-1/4X3/4	FAS BH316-3/8X2-1/4
FAS BH316-1/4X1	FAS BH316-3/8X2-1/2
FAS BH316-1/4X1-1/4	FAS BH316-3/8X3
FAS BH316-1/4X1-1/2	FAS BH316-3/8X4
FAS BH316-1/4X1-3/4	FAS BH316-3/8X4-1/2
FAS BH316-1/4X2	FAS BH316-3/8X5
FAS BH316-1/4X2-1/2	FAS BH316-3/8X5-1/2
FAS BH316-1/4X3	**1/2**
5/16	FAS BH316-1/2X1
FAS BH316-5/16X3/4	FAS BH316-1/2X1-1/4
FAS BH316-5/16X1	FAS BH316-1/2X1-1/2
FAS BH316-5/16X1-1/4	FAS BH316-1/2X1-3/4
FAS BH316-5/16X1-1/2	FAS BH316-1/2X2
FAS BH316-5/16X1-3/4	FAS BH316-1/2X2-1/2
FAS BH316-5/16X2	FAS BH316-1/2X3
FAS BH316-5/16X2-1/2	FAS BH316-1/2X3-1/2
FAS BH316-5/16X3	FAS BH316-1/2X4
FAS BH316-5/16X3-1/2	FAS BH316-1/2X4-1/2
FAS BH316-5/16X5-1/2	FAS BH316-1/2X5
3/8	FAS BH316-1/2X6
FAS BH316-3/8X3/4	FAS BH316-1/2X7
FAS BH316-3/8X1	**5/8**
FAS BH316-3/8X1-1/4	FAS BH316-5/8X2
FAS BH316-3/8X1-1/2	FAS BH316-5/8X3
FAS BH316-3/8X1-3/4	FAS BH316-5/8X4

Hex Head Bolts
Metric, Stainless Steel (18-8)

Bolt Hex



- Sold by the each
- Length in millimeters

6	10
FAS BH-6X12	FAS BH-10X20
FAS BH-6X20	FAS BH-10X25
FAS BH-6X25	FAS BH-10X40
FAS BH-6X40	FAS BH-10X50
8	**12**
FAS BH-8X16	FAS BH-12X25
FAS BH-8X25	FAS BH-12X40
	FAS BH-12X50
	FAS BH-12X70

Carriage Bolts
Coarse Thread, Hot Dipped Galvanized

Bolt Carriage Galvanized



- Sold by the each

1/4	3/8	
FAS BCG-1/4X1-1/2	FAS BCG-3/8X1	
FAS BCG-1/4X2	FAS BCG-3/8X1-1/2	
FAS BCG-1/4X2-1/2	FAS BCG-3/8X2-1/2	
FAS BCG-1/4X3	FAS BCG-3/8X3	5/8
FAS BCG-1/4X3-1/2	FAS BCG-3/8X3-1/2	FAS BCG-5/8X5
FAS BCG-1/4X4	FAS BCG-3/8X4-1/2	FAS BCG-5/8X8
FAS BCG-1/4X5	FAS BCG-3/8X5	
FAS BCG-1/4X6	FAS BCG-3/8X5-1/2	
5/16	FAS BCG-3/8X6	
FAS BCG-5/16X1-1/2	FAS BCG-3/8X7	
FAS BCG-5/16X2	FAS BCG-3/8X8	
FAS BCG-5/16X2-1/2	1/2	
FAS BCG-5/16X3	FAS BCG-1/2X4	
FAS BCG-5/16X3-1/2	FAS BCG-1/2X5	
FAS BCG-5/16X4	FAS BCG-1/2X6	
FAS BCG-5/16X4-1/2	FAS BCG-1/2X7	
FAS BCG-5/16X5	FAS BCG-1/2X8	
FAS BCG-5/16X5-1/2	FAS BCG-1/2X9	
FAS BCG-5/16X6	FAS BCG-1/2X10	
FAS BCG-5/16X7	FAS BCG-1/2X12	
FAS BCG-5/16X8		

Carriage Bolts
Coarse Thread, Stainless Steel (18-8)

Bolt Carriage



- Sold by the each

1/4	3/8
FAS BC-1/4X3/4	FAS BC-3/8X1-1/4
FAS BC-1/4X1	FAS BC-3/8X1-1/2
FAS BC-1/4X1-1/4	FAS BC-3/8X2
FAS BC-1/4X1-1/2	FAS BC-3/8X2-1/2
FAS BC-1/4X2	FAS BC-3/8X3
FAS BC-1/4X2-1/2	FAS BC-3/8X3-1/2
FAS BC-1/4X3	FAS BC-3/8X4
FAS BC-1/4X3-1/2	FAS BC-3/8X4-1/2
FAS BC-1/4X4	FAS BC-3/8X5
FAS BC-1/4X5	FAS BC-3/8X6
FAS BC-1/4X6	1/2
5/16	FAS BC-1/2X2
FAS BC-5/16X1	FAS BC-1/2X2-1/2
FAS BC-5/16X1-1/4	FAS BC-1/2X3
FAS BC-5/16X1-1/2	FAS BC-1/2X3-1/2
FAS BC-5/16X2	FAS BC-1/2X4
FAS BC-5/16X2-1/2	FAS BC-1/2X5
FAS BC-5/16X3	FAS BC-1/2X6
FAS BC-5/16X3-1/2	
FAS BC-5/16X4	
FAS BC-5/16X4-1/2	
FAS BC-5/16X5	
FAS BC-5/16X6	

Lag Screws
Hex Head, Hot Dipped Galvanized

Lag Galvanized



- Sold by the each

1/4		
FAS LG-1/4X1-1/2		
FAS LG-1/4X2		
FAS LG-1/4X2-1/2	3/8	1/2
FAS LG-1/4X3	FAS LG-3/8X2	FAS LG-1/2X3
FAS LG-1/4X4	FAS LG-3/8X2-1/2	FAS LG-1/2X3-1/2
5/16	FAS LG-3/8X3	FAS LG-1/2X4
FAS LG-5/16X1-1/2	FAS LG-3/8X3-1/2	FAS LG-1/2X5
FAS LG-5/16X2	FAS LG-3/8X4	FAS LG-1/2X6
FAS LG-5/16X2-1/2	FAS LG-3/8X4-1/2	FAS LG-1/2X7
FAS LG-5/16X3	FAS LG-3/8X5	FAS LG-1/2X8
FAS LG-5/16X3-1/2	FAS LG-3/8X6	
FAS LG-5/16X4		
FAS LG-5/16X5		

Lag Screws
Hex Head, Stainless Steel (18-8)

Lag



- Sold by the each

1/4	5/16 continued	
FAS L-1/4X1	FAS L-5/16X3	
FAS L-1/4X1-1/4	FAS L-5/16X4	
FAS L-1/4X1-1/2	FAS L-5/16X6	
FAS L-1/4X2	3/8	1/2
FAS L-1/4X2-1/2	FAS L-3/8X1-1/2	FAS L-1/2X2
FAS L-1/4X3	FAS L-3/8X2	FAS L-1/2X3
FAS L-1/4X4	FAS L-3/8X2-1/2	FAS L-1/2X4
5/16	FAS L-3/8X3	FAS L-1/2X5
FAS L-5/16X1	FAS L-3/8X3-1/2	FAS L-1/2X6
FAS L-5/16X1-1/2	FAS L-3/8X4	
FAS L-5/16X2	FAS L-3/8X5	
FAS L-5/16X2-1/2	FAS L-3/8X6	

Machine Screws
Philips, Stainless Steel (18-8)



▪ Sold by the each

Pan	Flat	
 Machine Pan Phillips	 Machine Flat Phillips	
6-32	**4-40**	**5/16**
FAS MPP-6-32X1/2	FAS MFP-4-40X3/8	FAS MFP-5/16X1
FAS MPP-6-32X3/4	FAS MFP-4-40X1/2	FAS MFP-5/16X1-1/4
FAS MPP-6-32X1	FAS MFP-4-40X3/4	FAS MFP-5/16X1-1/2
FAS MPP-6-32X1-1/4	**6-32**	FAS MFP-5/16X2
FAS MPP-6-32X1-1/2	FAS MFP-6-32X1/4	FAS MFP-5/16X2-1/2
FAS MPP-6-32X2	FAS MFP-6-32X1/2	FAS MFP-5/16X3
8-32	FAS MFP-6-32X3/4	FAS MFP-5/16X3-1/2
FAS MPP-8-32X1/4	FAS MFP-6-32X1	
FAS MPP-8-32X3/8	FAS MFP-6-32X1-1/4	
FAS MPP-8-32X1/2	FAS MFP-6-32X1-1/2	
FAS MPP-8-32X3/4	**8-32**	
FAS MPP-8-32X1	FAS MFP-8-32X1/4	
FAS MPP-8-32X1-1/4	FAS MFP-8-32X1/2	
FAS MPP-8-32X1-1/2	FAS MFP-8-32X3/4	
FAS MPP-8-32X2	FAS MFP-8-32X1	
FAS MPP-8-32X2-1/2	FAS MFP-8-32X1-1/4	
10-24	FAS MFP-8-32X1-1/2	
FAS MPP-10-24X1/4	FAS MFP-8-32X2	
FAS MPP-10-24X1/2	**10-24**	
FAS MPP-10-24X3/4	FAS MFP-10-24X1/2	
FAS MPP-10-24X1	FAS MFP-10-24X3/4	
FAS MPP-10-24X1-1/4	FAS MFP-10-24X1	
FAS MPP-10-24X1-1/2	FAS MFP-10-24X1-1/4	
FAS MPP-10-24X1-3/4	FAS MFP-10-24X1-1/2	
FAS MPP-10-24X2	FAS MFP-10-24X1-3/4	
FAS MPP-10-24X2-1/2	FAS MFP-10-24X2	
FAS MPP-10-24X3	FAS MFP-10-24X2-1/2	
10-32	FAS MFP-10-24X3	
FAS MPP-10-32X1/4	**10-32**	
FAS MPP-10-32X1/2	FAS MFP-10-32X1/4	
FAS MPP-10-32X3/4	FAS MFP-10-32X1/2	
FAS MPP-10-32X1	FAS MFP-10-32X3/4	
FAS MPP-10-32X1-1/4	FAS MFP-10-32X1	
FAS MPP-10-32X1-1/2	FAS MFP-10-32X1-1/4	
FAS MPP-10-32X1-3/4	FAS MFP-10-32X1-1/2	
FAS MPP-10-32X2	FAS MFP-10-32X2	
1/4	**1/4**	
FAS MPP-1/4X1/2	FAS MFP-1/4X1/2	
FAS MPP-1/4X3/4	FAS MFP-1/4X3/4	
FAS MPP-1/4X1	FAS MFP-1/4X1	
FAS MPP-1/4X1-1/4	FAS MFP-1/4X1-1/4	
FAS MPP-1/4X1-1/2	FAS MFP-1/4X1-1/2	
FAS MPP-1/4X1-3/4	FAS MFP-1/4X1-3/4	
FAS MPP-1/4X2	FAS MFP-1/4X2	
FAS MPP-1/4X2-1/2	FAS MFP-1/4X2-1/2	
FAS MPP-1/4X3	FAS MFP-1/4X3	
FAS MPP-1/4X4	FAS MFP-1/4X4	

Machine Screws
Allen Head Knurled Cap, Stainless Steel (18-8)

B Allen



▪ Sold by the each

6-32	1/4	
FAS BA-6-32X3/8	FAS BA-1/4X3/8	
FAS BA-6-32X1/2	FAS BA-1/4X1/2	
FAS BA-6-32X5/8	FAS BA-1/4X5/8	
FAS BA-6-32X3/4	FAS BA-1/4X3/4	**3/8**
FAS BA-6-32X1	FAS BA-1/4X7/8	FAS BA-3/8X1/2
8-32	FAS BA-1/4X1	FAS BA-3/8X5/8
FAS BA-8-32X1/4	FAS BA-1/4X1-1/4	FAS BA-3/8X3/4
FAS BA-8-32X3/8	FAS BA-1/4X1-1/2	FAS BA-3/8X1
FAS BA-8-32X1/2	FAS BA-1/4X1-3/4	FAS BA-3/8X1-1/4
FAS BA-8-32X5/8	FAS BA-1/4X2	FAS BA-3/8X1-1/2
FAS BA-8-32X3/4	FAS BA-1/4X2-1/2	FAS BA-3/8X1-3/4
FAS BA-8-32X1	FAS BA-1/4X3	FAS BA-3/8X2
FAS BA-8-32X1-1/4	**5/16**	FAS BA-3/8X2-1/2
FAS BA-8-32X1-1/2	FAS BA-5/16X1/2	FAS BA-3/8X3
10-24	FAS BA-5/16X3/4	**1/2**
FAS BA-10-24X3/8	FAS BA-5/16X1	FAS BA-1/2X1-1/4
FAS BA-10-24X1/2	FAS BA-5/16X1-1/4	FAS BA-1/2X1-1/2
FAS BA-10-24X5/8	FAS BA-5/16X1-1/2	FAS BA-1/2X2
FAS BA-10-24X3/4	FAS BA-5/16X1-3/4	FAS BA-1/2X2-1/2
FAS BA-10-24X1	FAS BA-5/16X2	FAS BA-1/2X3
FAS BA-10-24X1-1/4	FAS BA-5/16X2-1/2	
FAS BA-10-24X1-1/2	FAS BA-5/16X3	

Machine Screws
Round Head, Socket Stainless Steel (18-8)

Machine Round Socket



▪ Sold by the each

1/4
FAS MRS-1/4X3/4
FAS MRS-1/4X11/2
FAS MRS-1/4X2
10-24
FAS MRS-10-24X3/4
FAS MRS-10-24X1
FAS MRS-10-24X1-1/4
FAS MRS-10-24X1-1/2
10-32
FAS MRS-10-32X1/2

Machine Screws
Flat Head, Hex Socket, Stainless Steel (18-8)

Machine Flat Allen



▪ Sold by the each

1/4	3/8
FAS MFA-1/4X3/4	FAS MFA-3/8X3/4
FAS MFA-1/4X1	FAS MFA-3/8X1
FAS MFA-1/4X1-1/4	FAS MFA-3/8X1-1/4
FAS MFA-1/4X1-1/2	FAS MFA-3/8X1-1/2
FAS MFA-1/4X2	FAS MFA-3/8X2
5/16	**1/2**
FAS MFA-5/16X3/4	FAS MFA-1/2X1
FAS MFA-5/16x1	FAS MFA-1/2X1-1/4
FAS MFA-5/16X2	-

Screws
Stainless Steel (18-8), Socket



▪ Sold by the each

Oval	Pan	Flat
 Screw Oval	 Screw Pan	 Screw Flat
#6	#4	#4
FAS SO-#6X1/2	FAS SP-#4X1/2	FAS SF-#4X1/2
FAS SO-#6X3/4	FAS SP-#4X3/4	FAS SF-#4X3/4
FAS SO-#6X1	#6	FAS SF-#4X7/8
FAS SO-#6X1-1/4	FAS SP-#6X1/2	FAS SF-#4X1
#8	FAS SP-#6X5/8	#6
FAS SO-#8X3/4	FAS SP-#6X3/4	FAS SF-#6X1/2
FAS SO-#8X1	FAS SP-#6X1	FAS SF-#6X5/8
FAS SO-#8X1-1/4	FAS SP-#6X1-1/4	FAS SF-#6X3/4
FAS SO-#8X1-1/2	FAS SP-#6X1-1/2	FAS SF-#6X1
FAS SO-#8X2	#8	FAS SF-#6X1-1/4
#10	FAS SP-#8X1/2	FAS SF-#6X1-1/2
FAS SO-#10X3/4	FAS SP-#8X5/8	#8
FAS SO-#10X1	FAS SP-#8X3/4	FAS SF-#8X1/2
FAS SO-#10X1-1/4	FAS SP-#8X1	FAS SF-#8X5/8
FAS SO-#10X1-1/2	FAS SP-#8X1-1/4	FAS SF-#8X3/4
FAS SO-#10X2	FAS SP-#8X1-1/2	FAS SF-#8X1
#12	FAS SP-#8X1-3/4	FAS SF-#8X1-1/4
FAS SO-#12X1-1/2	FAS SP-#8X2	FAS SF-#8X1-1/2
	#10	FAS SF-#8X1-3/4
	FAS SP-#10X1/2	FAS SF-#8X2
	FAS SP-#10X3/4	FAS SF-#8X2-1/2
	FAS SP-#10X1	FAS SF-#8X3
	FAS SP-#10X1-1/4	#10
	FAS SP-#10X1-1/2	FAS SF-#10X1/2
	FAS SP-#10X1-3/4	FAS SF-#10X3/4
	FAS SP-#10X2	FAS SF-#10X1
	FAS SP-#10X2-1/2	FAS SF-#10X1-1/4
	FAS SP-#10X3	FAS SF-#10X1-1/2
	#12	FAS SF-#10X1-3/4
	FAS SP-#12X3/4	FAS SF-#10X2
	FAS SP-#12X1	FAS SF-#10X2-1/2
	FAS SP-#12X1-1/4	FAS SF-#10X3
	FAS SP-#12X1-1/2	#12
	FAS SP-#12X2	FAS SF-#12X3/4
	FAS SP-#12X2-1/2	FAS SF-#12X1
	#14	FAS SF-#12X1-1/4
	FAS SP-#14X3/4	FAS SF-#12X1-1/2
	FAS SP-#14X1	FAS SF-#12X1-3/4
	FAS SP-#14X1-1/4	FAS SF-#12X2
	FAS SP-#14X1-1/2	FAS SF-#12X2-1/2
	FAS SP-#14X2	FAS SF-#12X3
	FAS SP-#14X2-1/2	#14
	FAS SP-#14X3	FAS SF-#14X1
		FAS SF-#14X1-1/4
		FAS SF-#14X1-1/2
		FAS SF-#14X1-3/4
		FAS SF-#14X2
		FAS SF-#14X2-1/2
		FAS SF-#14X3

Screws
Stainless Steel (18-8), Philips



▪ Sold by the each

Oval	Pan	Truss
 Screw Oval Phillips	 Screw Pan Phillips	 Screw Truss Phillips
#6	#8	#6
FAS SOP-#6X3/4	FAS SPP-#8X1/2	FAS STP-#6X1/2
#8	FAS SPP-#8X3/4	FAS STP-#6X3/4
FAS SOP-#8X3/4	FAS SPP-#8X1	FAS STP-#6X1
FAS SOP-#8X1	FAS SPP-#8X1-1/4	#8
FAS SOP-#8X1-1/4	FAS SPP-#8X1-1/2	FAS STP-#8X1/2
FAS SOP-#8X1-1/2	#10	FAS STP-#8X5/8
#10	FAS SPP-#10X1/2	FAS STP-#8X3/4
FAS SOP-#10X3/4	FAS SPP-#10X1	FAS STP-#8X1
FAS SOP-#10X1	FAS SPP-#10X1-1/4	FAS STP-#8X1-1/4
FAS SOP-#10X1-1/4	FAS SPP-#10X1-1/2	#10
#12	#12	FAS STP-#10X1/2
FAS SOP-#12X1-1/4	FAS SPP-#12X3/4	FAS STP-#10X3/4
FAS SOP-#12X1-1/2	#14	FAS STP-#10X1
FAS SOP-#12X2	FAS SPP-#14X1	FAS STP-#10X1-1/4
	FAS SPP-#14X1-1/2	FAS STP-#10X1-1/2

► *Also See* Tef-Gel pg 06-023

Tool Tip: The use of Tef-Gel when using stainless steel screws on aluminum hulls can help to prevent galvanic corrosion..

Screws
Brass, Socket



▪ Sold by the each

Round	Flat	
 Screw Round Brass	 Screw Flat Brass	
#5	#4	#10
FAS SRB-#5X1/2 **	FAS SFB-#4X1/2	FAS SFB-#10X3/4
#8	FAS SFB-#4X3/4	FAS SFB-#10X1
FAS SRB-#8X1 **	#5	FAS SFB-#10X1-1/4
#10	FAS SFB-#5X1/2	FAS SFB-#10X1-1/2
FAS SRB-#10X1 **	FAS SFB-#5X3/4	FAS SFB-#10X1-3/4
FAS SRB-#10X1-1/2 **	#6	FAS SFB-#10X2
	FAS SFB-#6X1/2	#12
	FAS SFB-#6X3/4	FAS SFB-#12X1-1/2
	FAS SFB-#6X1	FAS SFB-#12X2
	#8	FAS SFB-#12X2-1/2
	FAS SFB-#8X3/4	
	FAS SFB-#8X1	
	FAS SFB-#8X1-1/4	
	FAS SFB-#8X1-1/2	

** While Stock Lasts

Hex Nuts Galvanized

Nut Galvanized



Sold by the each

FAS NG-1/4
FAS NG-5/16
FAS NG-3/8
FAS NG-1/2
FAS NG-5/8
FAS NG-3/4

Hex Nuts Stainless Steel (18-8)

Nut



Sold by the each

Imperial Sizes:

FAS N-4-40
FAS N-6-32
FAS N-8-32
FAS N-10-24
FAS N-10-32
FAS N-1/4
FAS N-5/16
FAS N-3/8
FAS N-7/16
FAS N-1/2
FAS N-5/8
FAS N-3/4
FAS N-7/8
FAS N-1

Metric:

FAS N-5MM
FAS N-6MM
FAS N-8MM
FAS N-10MM
FAS N-12MM

Hex Nuts 316 Stainless Steel

Nut 316



Sold by the each

FAS N316-1/4
FAS N316-5/16
FAS N316-3/8
FAS N316-1/2
FAS N316-5/8

316 Stainless Steel

Hex Nuts Brass

Nut Brass



Sold by the each

FAS NB-1/4
FAS NB-3/8
FAS NB-1/2
FAS NB-5/8
FAS NB-3/4

Lock Nuts Stainless Steel (18-8)

Nut Lock



Sold by the each

Imperial Sizes:

FAS NL-4-40
FAS NL-6-32
FAS NL-8-32
FAS NL-10-32
FAS NL-10-24
FAS NL-1/4
FAS NL-5/16
FAS NL-3/8
FAS NL-7/16
FAS NL-1/2
FAS NL-5/8
FAS NL-3/4

Metric Sizes:

FAS NL-6MM
FAS NL-8MM
FAS NL-10MM
FAS NL-12MM

Imperial Sizes: - NF Thread

FAS NL-1/2-NF
FAS NL-3/8-NF
FAS NL-5/16-NF

Lock Nuts 316 Stainless Steel

Nut Lock 316



Sold by the each

FAS NL316-1/4
FAS NL316-5/16
FAS NL316-3/8
FAS NL316-1/2
FAS NL316-5/8

316 Stainless Steel

Acorn Nuts Stainless Steel (18-8)

Nut Acorn



Sold by the each

FAS NA-6-32
FAS NA-10-24
FAS NA-10-32
FAS NA-1/4
FAS NA-5/16
FAS NA-3/8
FAS NA-1/2

Wing Nuts Stainless Steel (18-8)

Nut Wing



Sold by the each

FAS NW-8-32
FAS NW-10-24
FAS NW-10-32
FAS NW-1/4
FAS NW-5/16
FAS NW-3/8

Flat Washers Hot Dipped Galvanized

Washer Galvanized



Sold by the each

FAS WG-1/4
FAS WG-5/16
FAS WG-3/8
FAS WG-1/2
FAS WG-5/8
FAS WG-3/4

Flat Washers Stainless Steel (18-8)

Washer



Sold by the each

Imperial Sizes:

FAS W-6
FAS W-8
FAS W-10
FAS W-12
FAS W-1/4
FAS W-5/16
FAS W-3/8
FAS W-5/8
FAS W-7/16
FAS W-1/2
FAS W-3/4
FAS W-1
FAS W-1-1/4

Metric Sizes:

FAS W-6MM
FAS W-8MM
FAS W-10MM
FAS W-12MM

Flat Washers 316 Stainless Steel

Washer 316



Sold by the each

FAS W316-10
FAS W316-1/4
FAS W316-5/16
FAS W316-3/8
FAS W316-1/2
FAS W316-5/8
FAS W316-7/16

316 Stainless Steel

Fender Washers Stainless Steel (18-8)

Washer Fender



Sold by the each

FAS WF-#10X3/4
FAS WF-#10x1
FAS WF-1/4x1-1/4
FAS WF-5/16x1-1/2
FAS WF-3/8x1-1/2
FAS WF-1/2x2

Lock Washers Stainless Steel (18-8)

Washer Lock



Sold by the each

Imperial Sizes:

FAS WL-6
FAS WL-8
FAS WL-10
FAS WL-12
FAS WL-1/4
FAS WL-5/16
FAS WL-3/8
FAS WL-7/16
FAS WL-1/2
FAS WL-5/8
FAS WL-3/4

Metric Sizes:

FAS WL-8MM
FAS WL-10MM
FAS WL-12MM

Lock Washers 316 Stainless Steel

Washer Lock 316



Sold by the each

FAS WL316-10
FAS WL316-1/4
FAS WL316-5/16
FAS WL316-3/8
FAS WL316-1/2
FAS WL316-5/8

316 Stainless Steel

Cup / Finishing Washers Stainless Steel (18-8)

Washer Cup



Sold by the each

FAS WC-#6
FAS WC-#8
FAS WC-#10
FAS WC-#12
FAS WC-1/4

Handi-Man Nylon Washers



Part #	Size	Qty/Bag
HAN 650011	1/4"	8
HAN 650021	5/16"	8
HAN 650031	3/8"	6
HAN 650041	1/2"	6

Sea-Dog Stainless Set Screws



Packages of 10 replacement set screws for handrail, stanchion, base rail, top, tee and elbow fittings.

- 1/4"-28 x 3/16"

SED 299999-1 10/pkg

Threaded Rods, 18-8 Stainless Steel



- 36" lengths, coarse thread

REA SSRR10/24
REA SSRR10/32
REA SSRR1/4
REA SSRR5/16
REA SSRR3/8
REA SSRR1/2
REA SSRR5/8
REA SSRR3/4

Beckson Barrel Nuts



BB187-S01



BB187-31F

- Brass or stainless steel barrel nuts
- Brass, chromed or black finish

Part #	Overall Length	Shank Dia	Fastener Size	Finish
BEC BB187-S01	.375"	.25"	10/24	S/S
BEC BB187-S02	.50"	.25"	10/24	S/S
BEC BB187-11-BLK	.375"	.25"	10/24	Black
BEC BB187-31F †	.50"	.25"	10/24	Brass
BEC BB250-S01	.50"	.32"	1/4"-20	S/S

† Flush

Handi-Man Products Aluminum Blind Rivets



Part #	Size	Range	Qty/Bag
HAN 460031	1/8"	3/16" to 1/4"	12
HAN 460051	1/8"	5/16 to 3/8"	12
HAN 460101	5/32"	3/16" to 1/4	10
HAN 460111	5/32"	1/4" to 3/8"	10
HAN 460171	3/16"	3/8" to 1/2"	8
HAN 460181	3/16"	1/2" to 5/8"	8

Handi-Man Products Stainless Steel Blind Rivets



Part #	Size	Range	Qty/Bag
HAN 470031	1/8"	3/16" to 1/4"	8
HAN 470051	1/8"	1/4" to 3/8"	8
HAN 470101	5/32"	1/8" to 1/4"	4
HAN 470111	5/32"	1/4" to 3/8"	4
HAN 470151	3/16"	1/8" to 1/4"	2
HAN 470161	3/16"	1/4" to 3/8"	2

Handi-Man Stainless Steel Cotter Pins



Part #	Size	Per pkg
HAN 360011	1/16" x 1/2"	12
HAN 360021	1/16" x 3/4"	12
HAN 360031	1/16" x 1"	12
HAN 360051	1/16" x 1-1/2"	10
HAN 360061	1/16" x 2"	10
HAN 360071	3/32" x 5/8"	10
HAN 360081	3/32" x 3/4"	10
HAN 360091	3/32" x 1"	4
HAN 360111	3/32" x 1-1/2"	4
HAN 360131	3/32" x 2-1/2"	2
HAN 360141	1/8" x 3/4"	4
HAN 360151	1/8" x 1"	4
HAN 360161	1/8" x 1-1/4"	4
HAN 360171	1/8" x 1-1/2"	4
HAN 360181	1/8" x 1-3/4"	4
HAN 360191	1/8" x 2"	2
HAN 360211	1/8" x 2-1/2"	2
HAN 360251	5/32" x 1-1/2"	2
HAN 360271	5/32" x 2"	2

Stainless Steel Cotter Pins



- Round with extended prong, type 18-8 S/S
- Sold by the each

Part #	Size
FAS C-1/16X1	1/16" x 1"
FAS C-1/16X1-1/4	1/16" x 1-1/4"
FAS C-1/16X1-1/2	1/16" x 1-1/2"
FAS C-3/32X1	3/32" x 1"
FAS C-3/32X1-1/4	3/32" x 1-1/4"
FAS C-3/32X1-1/2	3/32" x 1-1/2"
FAS C-3/32X2	3/32" x 2"
FAS C-3/32X3/4	3/32" x 3/4"
FAS C-1/8X3/4	1/8" x 3/4"
FAS C-1/8X1	1/8" x 1"
FAS C-1/8X1-1/4	1/8" x 1-1/4"
FAS C-1/8X1-1/2	1/8" x 1-1/2"
FAS C-1/8X2	1/8" x 2"
FAS C-5/32X3/4	5/32" x 3/4"
FAS C-5/32X1	5/32" x 1"
FAS C-5/32X1-1/4	5/32" x 1-1/4"
FAS C-5/32X1-1/2	5/32" x 1-1/2"
FAS C-5/32X2	5/32" x 2"
FAS C-3/16X1	3/16" x 1"
FAS C-3/16X1-1/2	3/16" x 1-1/2"
FAS C-3/16X2	3/16" x 2"
FAS C-3/16X3	3/16" x 3"
FAS C-1/4X2	1/4" x 2"
FAS C-1/4X3	1/4" x 3"

Handi-Man Stainless Steel Hitch Pins



Part #	Use with hitch pin dia.	Pin dia. x Clench dia. x (Length)	Stock Dia.	Per pkg
HAN 500011	3/8"	3/16" x 3/32" x (19/32")	.040"	2
HAN 500021	3/8"	3/16" x 5/32" x (1")	.035"	2
HAN 500031	1/2"	1/4" x 3/16" x (1-3/16")	.073"	2
HAN 500041	3/4"	3/8" x 1/4" x (1-9/16")	.056"	2
HAN 500051	1/2"	1/4" x 1/4" x (1-5/8")	.056"	2
HAN 500061	1/2"	1/4" x 3/8" x (2-5/16")	.056"	2

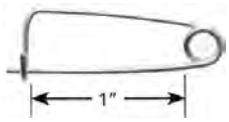
Aerofast Stainless Steel Hitch Pins



- 316 stainless steel construction
- Sold by the each bulk

Part #	Use with hitch pin dia..	Overall Length	Wire Dia.
AER HC-2SS	1/4"	1-3/16"	.080"
AER HC-3SS	5/16"	1-5/8"	.094"
AER HC-4SS	7/16"	1-15/16"	.125"
AER HC-5SS	7/8"	3-1/4"	.125"

Johnson Marine Safety Pin



- Stainless steel
- Usage 3/16" & 1/4"

JHD SP-1

Blue Wave Split Rings

- Highly polished AISI 316 stainless steel construction

Part #	Dim	D
BLU 070601	1/32"	7/16"
BLU 070602	1/16"	19/32"
BLU 070603	1/16"	3/4"
BLU 070604	3/32"	29/32"



Sea-Dog Split Rings



- 316 stainless steel wire

Part #	Gauge	Diameter	
SED 193561	1/32"	11/32"	Each
SED 193562-1	1/16"	15/32"	4/pkg
SED 193563-1	1/16"	5/8"	4/pkg
SED 193564-1	3/32"	3/4"	3/pkg

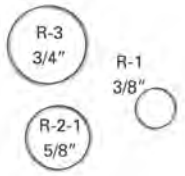
Handi-Man Stainless Cotter Rings

- Stainless steel wire

Part #	Size	Per pkg
HAN 361011	Fits 3/16" clevis pin	8
HAN 361021	Fits 1/4" clevis pin	6
HAN 361031	Fits 5/16" clevis pin	4
HAN 361041	Fits 3/8" clevis pin	4
HAN 361051	Fits 1/2" & 5/8" clevis pin	4
HAN 361071	Fits 3/4" clevis pin	2



Johnson Marine Circular Rings



- Stainless steel ring pins
- Sizes are ID
- Sold in packages of 100

JHD R-1-100	For 3/16" pins
JHD R-2-1-100	For 3/16" & 1/4" pins
JHD R-2-100	For 3/16" & 1/4" pins (pig tail)
JHD R-3-100	For 1/4" & 3/8" pins

Blue Wave Clevis Pins

- Highly polished AISI 316 stainless steel construction.

Part #	L	D1	D2
BLU 061863	45/64"	1/4"	3/32"
BLU 062008	13/16"	5/16"	3/32"
BLU 062395	29/32"	3/8"	1/8"
BLU 062611	1-1/32"	7/16"	1/8"
BLU 062813	1-1/8"	1/2"	5/32"



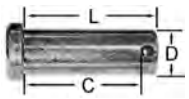
ARCO Clevis Pins

- 316 stainless steel construction



Part #	Diameter	Working Length	For Series
ALE CPAF-3	3/16"	9/32"	AF-3
ALE CPAF-4	3/16"	13/32"	AF-4
ALE CPAF-5	1/4"	7/16"	AF-5
ALE CPAF-6	5/16"	9/16"	AF-6
ALE CPAF-7	5/16"	21/32"	AF-7
ALE CPAF-8	3/8"	23/32"	AF-8
ALE CPAF-9	7/16"	3/4"	AF-9
ALE CPAF-10	7/16"	25/32"	AF-10
ALE CPAF-12	1/2"	27/32"	AF-12

Handi-Man Clevis Pins



- Stainless steel wire

Part #	D x L	Clearance (C)	Per pkg
HAN 370081	3/16" x 3/4"	39-64"	2
HAN 370091	3/16" x 7/8"	-	2
HAN 370101	3/16" x 1"	55/64"	2
HAN 370111	3/16" x 1-1/4"	1-1/16"	2
HAN 370211	1/4" x 29/32"	3/4"	2
HAN 370241	1/4" x 29/32"	55/64"	2
HAN 370271	1/4" x 1-1/4"	1-7/64"	2
HAN 370341	5/16" x 1"	3/4"	1
HAN 370361	5/16" x 1-1/4"	1"	1
HAN 370371	5/16" x 1-1/2"	1-1/4"	1
HAN 370391	5/16" x 1-3/4"	1-1/2"	1
HAN 370401	5/16 " x 2"	-	1
HAN 370471	3/8" x 1-1/4"	1-1/64"	1
HAN 370501	3/8" x 1-3/4"	1-1/2"	1
HAN 370521	3/8" x 2-1/4"	2"	1
HAN 370621	1/2" x 1-5/16"	1-1/64"	1
HAN 370671	1/2" x 1-1/2"	1-17/64"	1
HAN 370681	1/2" x 2"	1-3/4"	1

Handi-Man Togglers

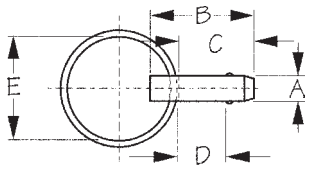


- Stainless steel togglers
- Grip size: 3/8" to 3-5/8"

A mounting aid to fasten a variety of marine hardware such as cleats, deck chairs, pedestal bases and chocks when the other side is inaccessible.

Part #	Diameter	Pkg
HAN 540031	1/4" (1/2" drill)	2
HAN 540051	3/8" (5/8" drill)	1

Sea-Dog Release Pins





- Stainless steel wire

Part #	A	B	C	D	E
SED 193410	1/4"	1"	3/4"	7/16"	1"
SED 193410-1					
SED 193415	1/4"	1-1/2"	1-1/4"	7/8"	1"
SED 193415-1					
SED 193420	1/4"	2-1/16"	1-7/8"	1-1/2"	1"
SED 193420-1					
SED 193425	1/4"	2-1/2"	2-3/16"	1-15/16"	1"
SED 193425-1					

Suffix (-1) indicates display package (2/pkg)

Sea-Dog Quick Disconnect Pins & Lanyard

- Stainless steel release pins
- Replaces non-threaded pins in hinges for quick access
- Pin length 1-1/2" x 1/4" diameter
- Overall length: 10"



SED 299980-1 Stepped shaft
SED 299981-1 Straight shaft



SED 299986-1 Straight with sprung hasp

Taco Pin & Lanyard

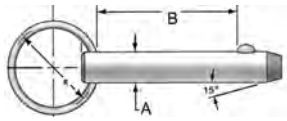
- 316 Stainless steel
- Plastic knob
- Pin: 3/16" x 1" useable

TAC F13-0244BN



Aerofast Fast Pins

- Standard detent pin
- Centerless ground 303 stainless steel
- Dimensions are the diameter and the usable pin length (distance between ring and ball)
- Sold by the each: bulk or P carded







Part #	Dimensions A x B	Ring
AER C3-05R-303	3/16" x 1/2"	1"
AER C3-05R-303-P		
AER C3-08R-303	3/16" x 3/4"	1"
AER C3-08R-303-P		
AER C3-10R-303	3/16" x 1"	1"
AER C3-10R-303-P		
AER C3-13R-303	3/16" x 1-1/4"	1"
AER C3-13R-303-P		
AER C3-15R-303	3/16" x 1-1/2"	1"
AER C3-15R-303-P		
AER C3-20R-303	3/16" x 2"	1"
AER C3-20R-303-P		
AER C3-25R-303	3/16" x 2-1/2"	1"
AER C3-25R-303-P		
AER C3-30R-303	3/16" x 3"	1"
AER C3-30R-303-P		
AER C4-05R-303	1/4" x 1/2"	1"
AER C4-05R-303-P		
AER C4-08R-303	1/4" x 3/4"	1"
AER C4-08R-303-P		
AER C4-10R-303	1/4" x 1"	1"
AER C4-10R-303-P		
AER C4-13R-303	1/4" x 1-1/4"	1"
AER C4-13R-303-P		
AER C4-15R-303	1/4" x 1-1/2"	1"
AER C4-15R-303-P		
AER C4-18R-303	1/4" x 1-3/4"	1"
AER C4-18R-303-P		
AER C4-20R-303	1/4" x 2"	1"
AER C4-20R-303-P		
AER C4-25R-303	1/4" x 2-1/2"	1"
AER C4-25R-303-P		
AER C4-30R-303	1/4" x 3"	1"
AER C4-30R-303-P		
AER C5-10R-303	5/16" x 1"	1"
AER C5-10R-303-P		
AER C5-15R-303	5/16" x 1-1/2"	1"
AER C5-15R-303-P		
AER C5-20R-303	5/16" x 2"	1"
AER C5-20R-303-P		
AER C5-25R-303	5/16" x 2-1/2"	1"
AER C5-25R-303-P		
AER C5-30R-303	5/16" x 3"	1"
AER C5-30R-303-P		
AER C6-10R-303	3/8" x 1"	1"
AER C6-10R-303-P		
AER C6-15R-303	3/8" x 1-1/2"	1"
AER C6-15R-303-P		

Aerofast Fast Pins, continued

Part #	Dimensions A x B	Ring
AER C6-20R-303	3/8" x 2"	1"
AER C6-20R-303-P		
AER C6-25R-303	3/8" x 2-1/2"	1"
AER C6-25R-303-P		
AER C6-30R-303	3/8" x 3"	1"
AER C6-30R-303-P		
AER C6-50R-303	3/8" x 5"	1"
AER C6-50R-303-P		
AER C8-13R-303	1/2" x 1-1/4"	1-1/4"
AER C8-13R-303-P		
AER C8-15R-303	1/2" x 1-1/2"	1-1/4"
AER C8-15R-303-P		
AER C8-20R-303	1/2" x 2"	1-1/4"
AER C8-20R-303-P		
AER C8-30R-303	1/2" x 3"	1-1/4"
AER C8-30R-303-P		
AER C8-40R-303	1/2" x 4"	1-1/4"
AER C8-40R-303-P		

Western Pacific Trading Stainless Steel Locking Wire



Clam packed coiled lengths or in a 1 lb feeder box.

WPT 30085	.032 coil x 10'
WPT 30086	.041 coil x 10'
WPT 30087	.032 box x 340'
WPT 30088	.041 box x 225'

Handi-Man Snap Caps



HAN 610011	#6 & 8 White 10/pkg
HAN 610111	#6 & 8 Black 10/pkg
HAN 610121	#10 & 12 White 10/pkg

Marine East Impact Cap



- 1" multi-purpose impact caps
- Ideal for concealing wiring and / or screw holes in bulkheads, helm consoles or towers
- Taps in easily with a light hammer blow
- Made of super tough marine-grade composites for long-term durability and colour stability
- Sold by the each

MEP 4680W

Handi-Man Quality Teak Deck Plugs

- Packaged teak deck plugs



Part #	Size	Qty/ Bag
HAN 603011 **	3/16"	12
HAN 603021	1/4"	12
HAN 603031 **	5/16"	12
HAN 603041	3/8"	12
HAN 603051	1/2"	8
HAN 603061	5/8"	8

** While Stock Lasts

MRT Deck Plugs



Accurately cut from quality stock for precise control of the finished surface.
*Other wood types and sizes from 1/4" to 2-1/2" are available on request.

Pine	Mahogany	Teak
-	DEC 1/4MC	DEC 1/4TC
-	DEC 5/16MC	DEC 5/16TC
DEC 3/8PC	DEC 3/8MC	DEC 3/8TC
-	-	DEC 7/16TC
DEC 1/2PC	DEC 1/2MC	DEC 1/2TC
DEC 5/8PC	DEC 5/8MC	DEC 5/8TC
DEC 3/4PC	DEC 3/4MC	DEC 3/4TC
DEC 7/8PC	DEC 7/8MC	-
DEC 1PC	-	-

Handi-Man O-Ring Kit



Contains 30 pieces:
- 6 ea x 3/8"
- 6 ea x 7/16"
- 6 ea x 9/16"
- 6 ea x 5/8"
- 6 ea x 11/16"

HAN 970070

Davis Rigging Knife



- Deluxe with a marlin spike, shackle key and screwdriver

DIN 1551

Wichard Aquaterra Knives



- Stainless steel, remarkable cutting power
- Treatment for outstanding corrosion resistance
- Soft grip, high heat-resistant handle for extreme temperatures
- Safety locking blade

WIC 10133 Straight Blade, Black
WIC 10156 Straight Blade w/Corkscrew, Blue

Wichard Sheath



- Fabric sheath for knives

WIC 10022



Wichard Offshore Knives



- Single hand opening
- Stainless steel, remarkable cutting power
- Treatment for outstanding corrosion resistance
- Soft grip, high heat-resistant handle for extreme temperatures
- Safety locking blade and wrist strap

WIC 10116 Serrated Blade, Blue
WIC 10119 Serrated Blade, Orange
WIC 10122 Serrated Blade w/Shackle Key, Fluorescent

Olfa Utility Knife



- Retractable snap-off blade
- Large comfortable handle with rubber pad inlay on one side
- Suits use with gloves
- Supplied with three blades

OLF L-2 Utility knife
Accessories:
OLF LB-50B 50 Replacement blades
OLF LBB-50B 50 Replacement blades, black steel

Scotty Knife Sharpener



Made of molded plastic with 2 tungsten carbide blades that can be rotated to 8 different positions to extend sharpening life.

SCO 990 Sharpener
Accessories:
SCO SBLADE/0990 Spare blade (each)
(order 2 for blade replacement)

Wesmar Knife Sharpener



- Suction pad for one handed operation
- Ideal for all kinds of knives
- ABS plastic body, cap, and handle
- 2.36" dia x 2.56" height

WES LKE-081801

Sea-Dog HD Canvas Scissors



- Designed with offset handles to allow the blades to hug the work surface giving you clean and precise cutting characteristics with thin and thick materials
- Heavy duty stainless steel blade
- Comfortable soft cushion grip and adjustable blade tension
- Fine serrated blade with precision ground edge
- 8-1/4" overall length

SED 563320-1

Sea-Dog Multi-Purpose Cutter



- Powder coated steel
- Great for rope and plastic tubing
- Includes two spare utility blades
- Length: 9-1/2"

SED 563310-1

Wexford Regular Caulking Gun



- A medium duty, "skeleton" style
- For 325 ml spouted cartridge
- 7:1 ratio

TOO 215

Heavy-Duty Caulking Gun



- High quality caulking gun
- Fits 325 ml spouted cartridge
- 12:1 ratio

TOO 110

Heavy-Duty Caulking Guns



- Flex-pack applicator guns for 400ml or 600ml sausages
- 12:1 ratio

TOO C08-00121	600ml
TOO C08-00125	400ml

Accessories:

TOO C09-P00022	Ring for 00125 gun
TOO 2N1006 **	Spare nozzle, each
TOO YELLOW-NOZZLE/5	Spare nozzle, 5/pk

** While Stock Lasts

Sikaflex Mixing Gun



- Manually operated mixer for 2-part, 50 ml cartridges/syringes
- 1:10 mix ratio

SIK 74866

Blind Rivet Gun



- Professional service blind riveter
- Sets 3/32", 1/8", 5/32", and 3/16"dia. rivets. (Max. 3/16 aluminum)
- Moulded centre hand grips and long handles for extra leverage
- Complete with four nose pieces

TOO 239-501

Taylor Ring Pliers



- Made to grip clinching rings for 3/16" to 1/2" diameter
- Spring loaded handles to hold ring until clamped on
- Overall length 6-7/8"

TAY 1046

Sea-Dog Multi-Tool



- Made from 304 stainless steel
- Includes needle nose pliers, cutters, scissors, various screw drivers, bottle opener, file and also a saw
- Carrying case included
- Length closed: 3-15/16"

SED 563151-1

Sea-Dog Adjustable Wrench



- Cast 17-4ph grade stainless steel adjustable wrench
- Includes, 1/4" hex head and bottle opener

SED 563255-1

► *Also See* Electrical Tools pg 02-107 to 111

C.S. Osborne Caulking Irons



American made, malleable iron in sizes suiting light planking to heavy decking.

Part #	L x W	Blade
OSE 273-00	5" x 2"	1/32"
OSE 273-0	5-5/8" x 2-1/2"	1/16"
OSE 273-1	5-7/8" x 2-1/4"	1/8"

C.S. Osborne Ship Scraper



- Well sharpened
- 1/4" x 1" stock
- Made to conform to government specifications
- 15" long with 1-3/4" wide blades

OSE 388

FBS Pro Spreader Set



- Set of four stainless steel spreaders; 2", 3", 4", and 5"
- For professional application of body fillers, resins, putties, seam sealers, and more

FBS 30121

Richard Professional Quality Putty Knives

- The blade is ground and polished to exact requirements
- Black handle not be affected by chemicals
- Available in a stiff or flexible blade

RIC P-1-1/4-F	1-1/4" Flexible
RIC P-1-1/2-F	1-1/2" Flexible
RIC P-2-F	2" Flexible
RIC S-6-F	6" Flexible



Richard Putty Knives

- Blades are made of half tang, spring steel which is heat treated and polished
- Plastic handles feature a hanging hole
- Available in a stiff or flexible blade

RIC H-1-F	1" Flexible
RIC H-2-F	2" Flexible
RIC H-3-F	3" Flexible
RIC H-3-S	3" Stiff
RIC H-4-F	4" Flexible



Richard Plastic Putty Knives

- High-grade industrial polystyrene plastic

RIC 131-F	1-9/16"
RIC 136-F	6"
RIC 01130	8"



Richard
Pro Series Ergo Grip Putty Knives and Scrapers

- Features an Ergo Grip, rubber like handle, mated to the Pro Series blades



Putty Knives

RIC RUB 1-1/4S 1-1/4" Stiff

Wall Scrapers

RIC RUB-3-F 3" Flexible

Paint Scrapers

RIC 04512 9" Handle

Parts:

RIC W-2-1/2-B Replacement blades



Razor Scraper

RIC RUB-RS-300 Uses standard razor blade



Combination Tool

- 6 in 1 Combo tool
- Cleans paint rollers, cleans out cracks, opens cans, scrapes, sets nails, applies drywall compounds and spackle
- 2-3/8" wide blade

RIC RUB-119

Richard Wood Scrapers



- Scraper blades are heat treated and tempered for longer cutting life
- There is positively no vibration
- Blades have 2 cutting edges, and side angle points on blades make it easy to reach tight corners
- A nut and bolt is used to hold blade in place
- Plastic handle with handy hanging hole

Part #	Blade Width	Handle Length	Replacement Blade
RIC W-10	1"	5-7/8"	RIC W-10-B
RIC W-1-3/4	1-3/4"	7-5/8"	RIC W-1-3/4-B
RIC W-2-1/2	2-1/2"	8-1/2"	RIC W-2-1/2-B
RIC W-14	2-1/2"	14"	RIC W-2-1/2-B

Megapro Marine Kit



- Includes one of each
  - 151SS - 14 bit screwdriver
  - 6WORKLIGHT - LED worklight
  - 6PDRIVER-CC - 4-in-1 pocket screwdriver
  - Hard plastic case

MTP MARINE-KIT

Megapro Stubby Screwdriver

NEW



- 13 in 1
- Ultra strong handle, retractable bit cartridge, palm-saver cap, and stainless steel shaft with 1/4" nut driver
- 12 rust resistant nickel plated 1" drive bits

MTP 131STUBBY

MTP 131STUBBY-CEF Display packaged

Megapro Pocket Screwdriver



- Handy size with pocket clip
- 4 in 1 (2 x phillips & 2 x straight)

MTP 6PDRIVER-CC

Megapro Original Screwdriver



- 15 in 1
- Industrial-grade torx, square, hex, slotted and phillips screwdriver bit sizes
- Shaft opening serves as a 1/4″ hex

MTP 151NAS

Megapro Ratcheting Screwdriver



- 13 in 1
- Zinc alloy Solid-Core 28 tooth ratchet
- 225 inch lbs of torque
- Rubberized cushion grip handle

MTP 211R2C36RD

Megapro Screwdriver



- Palm saving rotating cap
- Quick change bit system
- 7 double-ended bits, all are power tool interchangeable.
- 1 nut driver
- Stainless steel drive and high impact triax housing
- Rotating balance point collar
- 1/4" hex drive
- Lifetime replacement warranty against manufacturer's defects (bits excluded)

MTP 151SS Screwdriver

MTP 151SS-CEF Screwdriver, carded

Replacement Bits:

MTP PD0-3S Philips 0+3 Double ended bit.

MTP PD1-2S Philips 1+2 Double ended bit

MTP SD0-3S Square 0+3 Double ended bit

MTP SD1-2S Square 1+2 Double ended bit

MTP FD4-6S Flat 4+6 Double ended bit

► *Also See* Insulated Screwdriver Set pg 02-107

Megapro ShaftLOK Screwdriver



- New bit design with locking shaft eliminates "stuck bits" from falling out of the shaft



MTP 151SL-44
Replacement bits:

MTP F4D4-6	Flat 4 / 6
MTP P4D0-3	Phillips 0 / 3
MTP P4D1-2	Phillips 1 / 2
MTP S4D0-3	Robertson 0 / 3
MTP S4D1-2	Robertson 1 / 2
MTP T4D10-15	Torx 10 / 15
MTP T4D20-25	Torx 20 / 25
MTP 6EXT-SL6	6" locking bit extension
MTP 6EXT-SL10	10" locking bit extension

PicQuic Six-Bit Screwdrivers



- Selecting one bit and storing the next is fast, easy
- The Sixpac for any user
- The Stubby for work in tight quarters
- The Mariner bits are electroless nickel plated for extra corrosion resistance
- Bits included: Robertson: #1, #2, #3
- Philips: #1, #2 Slotted: #6
- Made in Canada



PQT 88001	Regular
PQT 88002	Mariner
PQT 91002	Stubby

Drive Bits

Assorted screwdriver bits with positive torque action. For machine driving, the two piece steel bits are exceptionally resistant to wear and breakage and precise sizing prevents slippage, work marring and damage to screw heads.

- All pieces are 1/4" hex drive



No.	Size	Description
FAS B140-310	#0 x 1"	Robertson
FAS B140-320	#0 x 2"	Robertson
FAS B140-311	#1 x 1"	Robertson
FAS B140-321	#1 x 2"	Robertson
FAS B140-341	#1 x 4"	Robertson
FAS B140-361	#1 x 6"	Robertson
FAS B140-312	#2 x 1"	Robertson
FAS B140-322	#2 x 2"	Robertson
FAS B140-332	#2 x 3"	Robertson
FAS B140-342	#2 x 4"	Robertson
FAS B140-313	#3 x 1"	Robertson
FAS B140-323	#3 x 2"	Robertson
FAS B140-333	#3 x 3"	Robertson
MIB 375671 **	#3 x 4"	Robertson
MIB 376721 **	#3 x 6"	Robertson
FAS B140-411 **	#1 x 1"	Philips
FAS B140-421	#1 x 2"	Philips
FAS B140-412	#2 x 1"	Philips
FAS B140-424	#2 x 2"	Philips
FAS B140-442	#2 x 4"	Philips
FAS B140-462	#2 x 6"	Philips
FAS B140-423	#3 x 2"	Philips

** While Stock Lasts

PicQuic Power Bits



3"

PQT 88010	#0 Robertson
PQT 88011	#1 Robertson
PQT 88012	#2 Robertson
PQT 88013	#3 Roberston
PQT 88021	#1 Philips
PQT 88022	#2 Philips
PQT 88023	#3 Philips
PQT 88131	3/16" Slotted
PQT 88114	1/4" Slotted
PQT 88215	T-15 Torx
PQT 88220	T-20 Torx
PQT 88225	T-25 Torx

W.L. Fuller Taper Point Drill Bits



- High speed steel drill bits in regular lengths
- Taper points cut wood or plastics
- Will fit W.L. Fuller counter sinks

WLF TP1/8" **
WLF TP7/32" **
** While Stock Lasts

W.L. Fuller Countersinks

- Suitable for straight or taper point bits
- Will counter bore for wood plug over screw head
- Can be matched for #6 thru #10 screw heads on drills for soft or hard woods
- Will also cut plastics

Part No.	Countersink Dia. x Drill Size
WLF C4 **	5/16" x 7/64"
WLF C65 **	5/16" x 9/64"
WLF C6 **	3/8" x 9/64"
WLF C8 **	3/8" x 11/64"



** While Stock Lasts

W.L. Fuller Plug Cutters

- Designed for clean cutting and hardened for long life
- Four blade plug cutters do not eject the plugs
- The plug remains in the board and can be broken out with a screwdriver or the board can be sawed to free the plug
- Plugs are smooth and chamfered for easy starting

Part No.	Plug Size x Shank Dia.	
WLF PC-5/16" **	5/16" x 1/4"	
WLF PC3/8"T **	3/8" x 1/4"	Tapered



** While Stock Lasts

A

ABA
Hose Clamps.....10-010
Abrasives.....07-040 to 045
Abrasives Application Chart .....
.....07-038
Absorbent, Oil.....09-032
AC Delco Spark Plugs.....09-044
Access Hatches....04-043 to 046
Access Rail System... 13-087, 088
Accessory Cord 14-010
Accon Cleats 04-011
Accumulator Tanks .. 11-030, 031
Acetone 07-028
Acorn Nuts.....18-010
ACR
EPIRB 12-017, 018
Locator Beacon 12-017
Rescue Lights 12-014, 015
SART.....12-018
Searchlights 01-017
Signaling Light Chart....12-015
Whistle 12-021
Actisense
NMEA 2000 .....03-059 to 061
Adapters
Light Sockets.....01-049
Pipe .....10-023 to 027
Rule, Hose 11-034
Additives, Fuel.....06-027, 028
Adhesives
3M 06-010, 011
Cleaners.....06-039
Gorilla Glue 06-011, 012
Sikaflex.....06-006, 007
System Three....06-015 to 018
Aerator Pumps 11-038
Aerofast
Fast Pins 18-015
Hitch Pins 18-013
Air Conditioners.....05-048, 049
Air Spray.....06-042
Air-Dryr 05-032
Airhead
Anchor Kit.....14-035
Bungee Dock Lines 14-017
Fenders 14-023
Flotation Vests.....12-039
Inflatables..... 17-007 to 011
Kill Switches 02-014
Paddles & Oars....17-002, 003
Pumps 17-012, 015
Repair Kit 17-012
Rescue Line 12-010
Rope Winder 17-014
Safety Kit..... 12-011
Ski Ropes.....17-013, 014
Ski Trainer 17-010
Sunglasses.....17-045
Telescoping Paddles 17-002
Throw Bags 12-010
Valves.....17-012
Watersports Gloves.....17-012
Wrap it Up 14-013
Airmar Transducers 03-042
AIS
ACR RescueLink AIS ...12-017
Alarm Box.....12-018
Antennas 03-085, 086, 089
em-trak 03-015, 083
Garmin 03-036, 082
ICOM.....03-081
Ocean Signal.....12-017, 019
Raymarine.....03-022
Alarm
Bell 12-005, 006
Bilge 11-035
Carbon Monoxide.12-003, 004
Fire .....12-004 to 006
Last Watch II 12-005
Panels .....12-002 to 006
Alcohol, Methyl Hydrate ..07-028
Alexander Roberts
Arco Clevis Pins 18-014
Alkaline Batteries.....02-135
Allen Screws.....18-008
Alligator Clips 02-108
Alternators
ARCO.....03-104
Balmar.....03-105
EMP 09-040
Sierra.....09-042
ALTO Belt Packs 12-041
Aluminum
Cleaners.....06-041 to 043
Fittings.....10-043
Moldings.....04-054, 055
Polishes.....06-042, 043
Putty 06-018
Steering Wheels...08-048, 049
Tubing 04-023
Amazon Pumps 11-052, 053
Ambassador
Faucets 10-049
Showers 11-021, 022
Sinks & Drains..... 11-019, 020
Amplifiers
Fusion 03-068, 069
Rockford Fosgate.....03-076
Amsteel Rope.....14-003
Anchor
Airhead.....14-035
Bruce Style.....14-033
Buddy 14-017
Chain.....14-036
Chain Markers.....14-036
Chocks 14-041
Danforth 14-033
Folding 14-035
Fortress 14-034
Grab Hooks 14-035
Greenfield.....14-034, 035
Holders.....14-041
Hooker.....14-034
Kits 14-034, 035
Lines.....14-016
Rocna.....14-032
Rodes.....14-035
Roller Wheels.....14-037
Rollers .....14-038 to 041
Rope 14-035
Scotty 14-035
Sea Anchors.....12-009
Shackles.....13-018 to 024
Stainless Steel 14-032, 033
Swivels 14-037
Tie Down 14-034
Transat 14-033
Vulcan 14-032
Windlasses.....14-043 to 046
AnchoRight
Chain Marking System .14-036
Key Floats 17-045
Ancor
Battery Cable 02-063, 066
Battery Lugs ...02-088, 090, 091
Battery Post Cleaners ..02-135
Battery Terminals 02-086
Bilge Pump Cable 02-070
Boat Cable 02-071
Cable Clamps.....02-126
Cable Ties .....02-123 to 125
Coax & Connectors 03-092, 093
Dielectric Silicone.....06-022
Electrical Tools .. 02-109 to 111
Fish Tape.....02-107
Grommets 02-116
Halogen Adapter 01-049
Heat Gun.....02-107
Heat Shrink Terminals .....
.....02-101, 102
Heat Shrink Tube .....
.....02-104 to 106
Lamp Bases 01-049
Light Bulbs...01-044, 046 to 048
NMEA 2000 .....03-056, 057
Primary Wire 02-068
Screwdriver Set.....02-107
Speaker Wire 02-070
Spiral Wrap 02-127
Split Loom 02-127
Terminal Connectors .....
..02-091 to 093, 097, 101, 102
Test Clips.....02-108
Tools..... 02-107 to 111

Trailer Wire....02-070
Wire Seals....02-112
Anderson
Floodlights....01-032
Trailer Connectors..16-021, 022
Trailer Lights....16-019 to 021
Angler's Pal
Multi-Mount....17-038
Anodes
Maddox....06-071
Martyr....06-058 to 070
Antenna
AIS....03-085, 086, 089
AM/FM....03-087, 089
Antennas....03-085 to 090
Cellular....03-090
Connectors....03-092, 093
Emergency Inflatable ...03-087
Extensions....03-093
Flexible....03-088
Mounts....03-093 to 095
Satellite Radio....03-090
SSB....03-087
Testers....03-092
TV....03-089
VHF....03-085 to 089
Wi-Fi....03-090, 091
Wire, Coaxial....03-092
Anti-Chafe Tape....13-042
Anti-Corrosion Spray....
....06-020 to 022
Anti-Fog....06-041
Antifouling
Paint....07-008
Propspeed....07-009, 010
Remover, Defoul....07-029
Sailkote....06-022
Anti-Freeze....06-029
Anti-Rattlers....04-065 to 068
Anti-Sag Powder....06-020
Anti-Siphon
Valves....09-008
Vents....09-083
Anti-Skid Tape....04-031, 032
Appliances
Air Conditioners....05-048, 049
BBQs....05-016, 018, 024, 025
Heaters....05-033 to 044
Refrigeration....05-002 to 008
Stoves....05-010 to 014
Water Heaters...05-045 to 047
Appliances Chapter....
....05-002 to 049
Aqua Signal
Chart Lights....01-025
Lights - Cabin....01-025
Aqualarm
Alarms....12-004, 005
Bilge Pump Switches ...11-035
Last Watch II....12-005
Aqua-Tek
Aluminum Cleaner....06-043
Cleaning Products....
....06-029 to 032, 041 to 043
Maxx Lube....06-020
Salt Cleaner....06-029
Sanitation Products....11-018
Stainless Cleaner....06-042
Teak Treatment....07-014
ARCO
Alternators....03-104
Bluetooth Regulators....03-105
ARCO Hardware
Eyes....13-002
Armrest Brackets....15-003
Arms, Wiper....04-003 to 010
ASEA
Boost Transformer....03-129
Isolation Transformer ...03-129
Ash Trays, Bean Bag....17-044
Atlas, Marine....12-050
Attwood
Aerator Head....11-039
Anchor Locks....14-041
Battery Boxes & Trays..02-134
Battery Straps....02-134
Bilge Blowers....04-034
Bilge Pumps....11-031
Cleats....04-011, 012
Collector Boxes....04-035
Deck Fill Cap....04-017
Dock Fender....14-026
EPA Fuel Fittings....09-018
Float Switches....11-035
Gas Springs....04-050, 051
Glove Boxes....04-063
Grab Handles....04-024
Hose Connectors....10-024
Lights-Courtesy....01-026
Lights-Navigation .01-002, 003
Lights-Pole....01-010
Lights-Underwater....01-029
Motor Well Boots....08-047
Pole Light Bases....01-015
Pontoon Storage Blocks 16-033
Portable Light Kit....01-016
Prop Wrench....09-069
Scuppers....10-012
Shower Drain Pump....11-040
Ski Mirror....17-005
Springlifts....04-050, 051
Steering Wheels....08-048
Tank Vents....04-041
Thru-Hulls....10-012, 014, 016
Vents....04-035
Carbon Canisters....09-018
Deck Fills....09-018, 019
Autopilots
Furuno....03-044
Garmin....03-034
Octopus....03-062, 063
Raymarine....03-023
AWAB Hose Clamps....10-010
Awesome
Cleaner & Degreaser ...06-032
Awlgrip
Awlgrip Line....07-017 to 026
Cleaners & Protectors..06-032
Griptex Non-Skid....07-013
Tack Rags....07-028
Varnishes....07-017
Axes & Brackets....12-009

B

B&H
Brushes & Handles....06-047
Bags
Chart....12-051
Dry Storage....12-034
Rust Protection....06-022
Spinlock....12-034, 035
Bait
Jars....17-040
Pumps & Timers...11-038, 039
Tables....05-022, 17-040
Baja Designs
Floodlights....01-032, 033
Light Bars....01-032
Ball
Catches....04-064
Valves....10-044 to 046
Ballast Pumps....11-038
Balmar
Alternators....03-105
Battery Monitors...03-105, 106
Engine Room Light....01-036
Smart Gauge....03-106
Bamboo Tables....15-017
Barbecues
Grills....05-016, 018, 024, 025
Grilling Tools....05-021
Barnacle Removers
Osborne....06-036
Trac Ecological....06-030
Barometric Dampers....05-015
Barrel
Bolts....04-066
Nuts....18-012
Barrier Coats
Epifanes....07-013
Interlux....07-012
Propspeed....07-009, 010
System Three....06-016 to 020

Bases
Antenna....03-093 to 095
Seat....15-006 to 014
Battcar Systems....13-085
Battery
AGM....02-129 to 131
Box Straps....02-134, 135
Boxes....02-133, 134
Cable....02-063, 066, 067
Cable Caps....02-087
Chargers....03-108 to 116
Equalizer....02-135
Isolators....03-127 to 129
Jumper Cables....02-063
Lifeline....02-129
Lugs....02-088 to 091
Monitors....03-101 to 107
Mount Fuse Kits...02-086, 087
Post Cleaner....02-135
Pow-R-Surge....02-130
Rayovac....02-135
RELiON....02-133
Separators....03-128
Switches....02-016 to 028
Terminals....02-086, 087
Tester....02-135
Tie Down....02-134, 135
Trays....02-134
Battery Monitors..03-105 to 107
BayStar Steering....08-019, 020
BBQs
Grills....05-016, 018, 024, 025
Grilling Tools....05-021
BC Flag....04-033
Bearing
Grease....06-023
Bearing Kits....16-025
Protectors....16-025
Sleeves....09-057
Trailer....16-025
Beckson
Barrel Nuts....18-012
Cam Latch....04-048
Clips....04-079
Deck Plates....04-042
Hatches....04-043
Hold Down Clamp....04-068
Log Books....12-051
Oil Pumps....11-053, 054
Portlight....04-047
Rain Shield....04-048
Vent....04-037
VHF Holders....17-041
Winch Handle Holder...13-090
Bedding Compound....06-006
Bellows
Sierra....09-037
EMP....09-037
Bells
Alarm....12-005, 006
Ship's....12-021
Belt Packs, Inflatables
Mustang....12-041
Spinlock....12-041
Bennett Trim Tabs....08-062
BEP
Battery Switches....02-025 to 027, 057, 058
Circuit Breakers....02-052
DC Circuit Panels....02-034
Deck Light....01-036
Distribution Studs....02-062
Pro Installer Series..02-057, 058
Tank Monitor & Sender.11-018
Terminal Links....02-027
Toggle Switches....02-006
Berth Lights....01-024, 025
Bilge
Alarm....11-035
Blowers....04-034
Centek Kleen Filter....11-034
Heaters....05-033
Hose....10-004
Oil Absorbers....09-032
Pump Switches....11-035, 036
Pumps, Electric....11-031 to 035, 039
Pumps, Manual.11-051 to 054
Strainers....11-053
Warning...11-035, 036, 12-003
Water/Oil Separator....11-035
Bilge Cleaners
Hyseas....06-034
Star brite....06-037
Bilge Kote....07-011
Bimini
Supports....17-020
Tops....16-012
Binnacle Navigation Tools....12-050
Binocular Holders....17-041
Binoculars....12-049, 050
Bits
Drill....18-019
Screw Driver....18-019
Blades, Wiper..04-003 to 005, 010
Blanket, Survival....12-010
Blocks
Fuse....02-040 to 045
Harken Sailing...13-059 to 072
Sanding....07-045, 046
Terminal....02-058 to 061
Blower
Bilge....04-034
Collector Boxes....04-034, 035
Hose....10-009
Blue Sea Systems
360 Panel System....02-031 to 034
12V Sockets....02-117, 120
Add-A-Battery....02-022
Alarm Bell....12-006
Battery Chargers....03-108
Battery Fuse Kit....02-087
Battery Switches..02-015 to 028
Bus Bar....02-058 to 061
Cable Caps....02-087
Cable Clams....02-113
Circuit Breakers...02-052 to 055
DC Shunts....03-103
Dimmer Switches....02-011
Fuse Holders....02-040, 041, 043 to 046
Fuses....02-050, 051
Indicator Lights....02-038
Lockout Slides....02-038
Low Voltage Disconnect..02-024
Meters....03-101 to 103
Multimeter....03-101, 102
Multimeter, Clamp....02-108
OLED Monitors....03-103
Ordering Custom Panels.02-031
Panel Labels....02-039
Panels....02-028 to 038
Power Posts....02-062
Push Button Switches..02-002
Rocker Switches..02-008, 009
Solenoids....02-024
Surface Mount System..02-029
Terminal Blocks...02-058 to 061
Toggle Guards....02-038
Toggle Switches....02-006
USB Charger....02-121
Vessel System Monitor..03-102
Blue Steel
Rust Converter....06-042
Blue Wave
Clevis Pins....18-014
Eye Bolts....13-035
Eye Straps....13-038
Gate Hook....13-003, 004
Quick Rig Tune....13-007
Rigging....13-003 to 012
Sealing Kit....13-003
Shackles....13-020
Smart Pins....13-007
Swage....13-007, 008
Swageless....13-004, 005
Terminals....13-004 to 006, 008 to 010
Thimbles....13-015
Toggles....13-005, 006, 008, 011, 012
T-Rope Fittings....13-009
U-Bolts....13-035

Boarding
Ladders & Steps..04-028 to 031
Boat
Bling.....06-032, 033
Cable.....02-071, 072
Covers.....16-006 to 012
Guides.....16-028, 029
Hook Holders .....
.....04-078, 079, 17-002
Hooks.....06-047, 14-049
Kayak Racks.....17-004
Mooring hooks.....14-048
Plugs.....10-021, 022, 12-009
Safety Kits..... 12-011
Seats.....15-002 to 005
Snaps.....
.....13-028 to 033, 18-004, 005
Stands.....16-002 to 005
Top Hardware....04-024 to 027
Top Snaps.....18-004, 005
Washes & Waxes.06-030 to 043
Boat Bling
Cleaners & Waxes..06-032, 033
Boat Cover
Support Poles.....16-012, 013
BoatBuckle Tie Downs 16-014
BoatLIFE
Adhesive Cleaner.....06-003
Bond Breaker.....06-010
Empty Cartridges 06-003
Fibreglass Cleaner.....06-033
Fix Repair Putty.....06-018
Git-Rot.....06-018
Hot Knife 06-011
Release.....06-003
Scrub-All.....07-045
Sealant Chart 06-002
Sealants 06-003
Solvents 07-015
Stainless Steel Cleaner.. 06-042
Teak Cleaners 07-014
Teak Oil 07-015
Test Tank Cleaner 06-029
BoatMates 17-041, 042
Boeshield T-9.....06-020
Boiled Linseed Oil 07-015
Bolt
Barrel.....04-066
Carriage & Lag 18-007
Eyes 13-035, 036
Hex.....18-006
U-Bolts 13-034, 035
Bomar
Deck Plates 04-041
Hatches & Portlights.....04-046
Bond Breaker
BoatLIFE 06-010
Bonding Plate 03-130
Books
Atlases 12-050
Chart Cases 12-051
Log Books 12-051
Repair Manuals.....09-047
Wet Notes 12-051
Boom Cleats.....13-051
Booster Cables.....02-063
Boot
Battery Terminal ...02-087, 088
Covers.....07-047
Motor Well 08-047
Motor Well 08-047
Steering Cable 08-048
Storage Racks.....17-045
Bosun's Chair 13-058
Bosworth
Check Valves 10-047
Foot Strainers..... 11-053
Guzzler Hand Pumps ... 11-052
Vented Loops 10-049
Y-Valves 10-047
Bottle Opener 17-044
Bottom Cleaner 06-037
Bottom Paint
Interlux .....07-004 to 008
Remover.....07-029
Bow
Chocks 04-015
Eyes .....13-034 to 035
Rollers 14-037, 039
Bow Thrusters
Vetus .....08-051 to 054
Bowl Cleaners, Toilet..... 11-019
Boxes
Battery.....02-133, 134
Glove.....04-063
Stuffing 09-056
Bracket
Angled 04-078
Antenna.....03-093
Boat Hook 04-078, 079
Downrigger.....17-034, 035
Fire Axe 12-009
Fire Extinguisher 12-008
License Plate.....16-020
Motor, OB .....08-039 to 042
Ring Buoy.....12-010
Roller.....16-023
Stand-Off.....03-093
Table.....04-078, 15-017
Trailer 16-023, 024
Brait Rope 14-008
Brake Kits ...08-050, 16-026, 027
Brass
Cleaners.....06-042
Fairview Fittings 10-036 to 043
Pipe Fittings .....10-031 to 035
Valves.....10-044 to 048
Breaker
Circuit Breakers.02-052 to 056
Panels .....02-029 to 037
BRNKL Boat Monitoring
Accessories.....03-095
Bronze
Hose Fittings 10-023, 024
Snaps.....13-028, 029
Thru-Hulls.....10-012, 013
Valves.....10-044, 045
Wool 07-045
Brooms 06-047
Brownell
Boat Stands.....16-002 to 005
Brush
Brushes & Handles .....
.....06-046 to 051
Paint.....07-032, 033
Wire.....06-051
Buck Algonquin
Ball Valves.....10-045
Deck Plates 04-018
Hose Fittings 10-023
Intake Strainers 10-017, 019
Lifting Handle 04-070
Packing Box Hose.....09-056
Scoop Strainers.....10-017
Seacocks.....10-045
Thru-Hull Wrench 10-014
Thru-Hulls.....10-013
Transom Door Latch.....04-063
Vented Loops 10-049
Bucket of Brushes
Sea-Dog 06-047
Buckets
Collapsible.....06-053
Fire 12-009
Paint 06-020
Buckles, Webbing.....14-012
Buffing Pads .....06-044 to 046
Built-in Air Station 17-016
Bulbs .....01-038 to 049
Bullseyes .13-041, 056, 057, 073
Bulls Eye Nozzles.....06-055
Bumper
Adjusters 14-025
Dock .....14-026 to 028
Door 04-065
Bung 12-009
Bungee
Cords.....14-012, 013, 017
Ends & Clips.....14-013
Bunk Carpeting.....16-028
Buoy
Fishing & Waterski 14-022
Life Rings & Holders 12-010
Mooring 14-020
Bus Bars.....02-056 to 061
Bushings, Oarlock 17-003

Bushnell Binoculars... 12-049, 050
Butane, Torches.....02-107
Butt
Connectors.....02-096 to 104
Hinges.....04-071 to 073, 076
Butyl Caulking Tape.....06-010
Buzzer Alarm
Alarm System.....12-006
Veratron.....03-007

C

Cabin
Hooks.....04-069, 077, 078
Lights.....01-019 to 027
Cable
Audio.....02-070
Battery.....02-063, 066, 067
Boat.....02-071, 072
Boot.....08-048
Buddy.....08-017
Clams..... 02-113 to 116
Coaxial.....03-092
Covers.....13-045
Cutters.....02-110, 111
Electrical Clamps.. 02-126, 127
Hitch Cables.....16-027
Holder.....02-078, 085
Lifeline.....13-017
Locks.....16-032
Low Smoke Zero Halogen.....
.....02-065
LSZH.....02-065
Lube.....06-020 to 023
NMEA 2000.....03-022, 036,
....044, 054 to 056, 059 to 061
Outlets..... 02-112 to 116
SeaStar Control .. 08-006 to 008
SeaStar Steering.. 08-012 to 017
Shipboard.....02-065
Shorepower.....02-075 to 084
Stainless.....13-017
Steering.....08-012 to 017
Stripper..... 02-111
Thru Deck..... 02-112 to 116
Ties.....02-123 to 125
Tiller.....08-047
Tool, Shift Cable.....09-034
Trailer Winch.....16-018
Wire Rope Clamp.....08-047
Caframo
Fans.....05-030, 031
Heaters.....05-033
Joi Light.....01-037
Calcium & Rust Removal .....
.....06-030, 042, 043
Caliper, Crab.....17-040
Cal-June Sea Anchors.....12-009
Cam
Cleats.....13-053, 076
Latches & Locks.....04-060
Camco
Anchor Rope.....14-035
Boat Cover Support Kit 16-013
Brushes & Brooms.....06-047
Collapsible Bucket.....06-053
Collapsible Cooler.....06-053
Dinnerware Set.....17-044
Dish Rack.....11-021
Dogbones.....02-084
Drink Holders.....17-043
Hoses.....06-053
Jack Support Stabilizer 16-015
Powergrip Cords.....02-084
Shore Power.....02-084
Slip Stop Non-Skid.....17-044
Tables.....15-017
Tank Vent Filter.....11-018
Toilet Bucket.....11-006
Toilet Tissue.....11-019
Utensil Holder.....17-044
Water Filters.....06-056
Wheel Chocks.....16-033
Winterizing Kits.....06-056
Y-Adapters.....02-084
Cameras
FLIR.....03-024
Garmin.....03-033
Mounts.....17-022, 038, 039
Raymarine.....03-025
Sionyx.....03-011 to 013
Thermal Imaging.....03-024
Canada Cordage
Heaving Line.....12-011
Nylon Line.....14-008
Poly Line.....14-008, 009
Sea Anchor Line.....12-009
Tarred Sisal.....14-010
CMP (Canada Metal)
Anodes.....06-058 to 071
Canadian Flags.....04-033
Cannonballs & Holders....17-035
Cans
Jerry.....09-004
Canvas
Fasteners.....18-004, 005
Scissors.....18-016
Top Fittings.....04-024 to 027
Cap Screws.....18-008
Capilano Steering....08-034, 035
Caps, Stove Pipe.....05-015
Captain Tolley's.....06-011
Carbiners.....13-030, 031
Carbon Monoxide
Alarms.....12-003, 004
Cards
Playing.....17-045
Quick Reference.....12-050
Carpet
Mask.....07-035, 036
Trailer Bunk.....16-028
Carriage Bolts.....18-007
Carrier, Motor.....16-034
Cartridges, Empty.....06-003
Carts.....16-034
Carver
Boat Cover.....16-006 to 010
Cover Support System.16-013
Drop Ship Program.....16-006
Repair Kit.....16-013
Tie Down Kit.....16-014
Cases, Chart.....12-051
Catalyst, MEKP.....06-014
Catches
Cupboard.....04-062 to 065
Flush Ring.....04-059, 060
Ladder.....04-030
Caulking
3M.....06-010
BoatLIFE.....06-003
Cartridges.....06-003
Guns & Irons.....18-017
Oakum.....06-011
Sikaflex.....06-006, 007
Teakdecking Systems..06-007
Tools.....18-017
Tube Caps.....06-011
Caviness Oars.....17-002
CB Radios.....03-084
CDI
Multimeter.....09-046
Pin Tool Set.....09-046
Probe Set.....09-046
Spark Tester.....09-046
Ceiling Lights.....01-019 to 022
Cell Phone
Antenna.....03-090
Chargers.....02-136, 137
Holders.....
.....02-136, 137, 17-017, 039
Wireless Boosters.....03-090
Centek
Bilge Kleen Filter.....11-034
Exhaust Systems.09-084 to 087
Centre Console Cover.....16-012
Centrifugal Pumps.. 11-044 to 046
Cetol Marine
Wood Finishes..07-002, 07-016
Chafe
Guards.....14-016
Sail Chafe Protectors...13-045
Tape.....13-042
Chain
Chain.....14-036
Grab Hooks.....13-033
Gripper.....14-041

Marking System 14-036
Portlight 04-048
Quick Links.....13-027
Safety 16-027
Shackles.....13-018 to 025
Stoppers.....14-041
Swivels 13-026, 14-037
Chamois Cloths 06-051, 052
Channel, Window 04-056
Chargers
Battery.....03-108 to 116
Cell Phone.....02-136, 137
USB.....02-120 to 122
Chart
C-Map 03-047
Covers.....12-051
Garmin 03-031
Garmin Navionics.03-031, 046
Lights.....01-025, 026
Navionics.....03-046
Plotters-Furuno .03-038 to 040
Plotters-Garmin .03-027 to 030
Plotters-Raymarine .....
.....03-017 to 019
Tools.....12-050
Check Valves.....10-047, 048
Chocks
Anchor.....14-041
Bow 04-015
Deck 13-046
Pole 13-046
Skene 04-015
Wheel 16-033
Chrome Polishes 06-042, 043
Cigarette Lighter..... 02-117
Cipa Mirrors.....17-005
Circuit .....
Breakers.....02-052 to 056
Panels .....02-029 to 037
Circular Rings.....18-013
Circulating Pumps 11-044
Citrus Based Cleaner 06-043
Clam Shell Vents 04-037
Clamcleat
Accessories.....13-048
Boom Cleat 13-051
Cleats.....13-047 to 052
Fender Hangers 14-025
Hatch Cover 04-043
Kitesurfing 13-051
Clamp
Boat Hook 04-078, 079
Cable.....02-126, 127
Driver.....10-010
Electrical.....02-126, 127
Hose..... 10-010, 011
Jackets..... 10-011
Rail.....04-023
Sleeve 10-011
Spring.....04-078, 079
Tiller Cable 08-047
Wire Rope 13-015
Cleaners
303 Product.....06-040
3M 06-039
Adhesive 06-003
Aqua-Tek .....06-029 to 032
Awesome 06-032
Awlgrip 06-032
Bilge 06-032, 034, 037
Boat Bling.....06-032, 033
Buckets 06-053
Citrus Based.....06-043
Davis FSR 06-033
Fibreglass.....06-031 to 041
Flitz.....06-033
Glass 06-041
Hand.....06-043
HySeas.....06-034
Klear-to-Sea 06-041
Meguiar's.....06-034, 035
Metal .....06-041 to 043
Mildew .....06-031 to 033,
..... 037, 038, 040, 041
Osborne 06-036
Plastic.....06-038, 040 to 042
Rain-X 06-041
Rug.....06-031, 032, 039
Shurhold.....06-036
Smell Zapper.....06-036
Spray Nine 06-036, 037
Stainless Steel ..06-041 to 043
Star brite.....06-03, 038, 043
Super-Tuff 06-039
Tank, BoatLIFE.....06-029
Teak.....07-014
Toilet Bowl 11-019
Trac Ecological.....06-030
Vinyl Window.....06-041
WashSafe.....06-041
Cleaning Fish Trough 17-040
Cleats
Cam.....13-053, 076
Clamcleat .....13-047 to 052
Deck ..... 04-011 to 014
Dock.....14-029
Flag Halyard.....13-051
Folding 04-011
Light & Cleat.....14-031
Pop-Up 04-011, 012
Spinlock.....13-053
Clevis Pins.....18-014
Clew Hook 13-090
Clinometers 13-090
Clips
Alligator 02-108
Flag 04-033
Pole Storage 04-078, 079
Shore Power 02-085
Tarp 14-012
Test.....02-108
Utility 04-078, 079
Wire Rope 13-015
Clutch Pumps 11-044
Clutches, Rope..13-052, 054, 055
C-Map Charts 03-047
CMC
Jack Plates.....08-040
Tilt N' Trim 08-040
CMP
Dock Lines 14-015
Chain.....14-036
Coat Hook 04-077, 078
Coaxial 03-092, 093
Cockpit
Plotter Tool 12-050
Scuppers 10-012
Steps 04-031
Coho Cleaning Trough 17-040
Cold Cure Epoxy 06-016
Cole Hersee
Alarm Buzzer.....12-006
Battery Switches ..02-027, 028
Bus Bar 02-060, 061
Circuit Breakers.....02-054
Electrical Connectors ... 02-117
Fuse Holders.....02-042
Ignition Switches 02-012
Lamp Sockets 01-049
Solenoids 02-024
Switches....02-002 to 007, 012
Terminal Blocks....02-060, 061
Wiper Switches 02-004
Collars, Oar 17-003
Color Coding Caps 06-052
Colour Pigment.....06-014, 015
Comet Flares.....12-012, 013
Compasses .....12-047 to 049
Compounds
Adhesives.....06-006 to 012
Cleaners & Waxes.....
.....06-029 to 043
Lubricants.....06-020 to 023
Metal .....06-041 to 043
Resins .....06-014 to 020
Wood.....07-014 to 017
Compression
Fittings.....10-040
Sprayers.....06-052
Conduit 02-127, 128
Connection Kits
SeaStar ..... 08-009 to 011
Connector
Chain.....13-026, 14-037
Coaxial 03-092, 093
Electrical.....02-088 to 104
Shore Power .....02-075 to 084

Thru Deck..... 02-112 to 116
Trailer 16-021, 022
Trolling Motor .....
.....08-042, 045 to 047
Wire Rope 13-015, 017
Containers
Gas.....09-004
Water.....09-004
Watertight.....12-012, 013
Control
Cable Accessories.....
..... 08-009 to 011
Cables .....08-006 to 008
Engine .....08-002 to 004
Steering, Hyd. ...08-018 to 039
Steering, Mech ..08-012 to 017
Converters, Voltage... 03-126, 127
Convoluted Tubing 02-127
Cookware 05-020, 021
Coolers
Camco.....06-053, 17-044
Tie Downs 17-044
Co-polymer Paints.. 07-004 to 008
Copper
Ground Straps.....03-130
Tubing 10-036
Cord
Bungee.....14-012, 013
Shorepower.....02-075 to 084
Cordage
Anchor Lines 14-016, 035
Dock Lines ...14-014, 015, 017
Nylon Rope 14-007, 008
Polypropylene 14-008, 009
Starter Cord, Samson ..14-010
Cork Decking.....04-057
Corrosion
Anodes.....06-058 to 071
Controller.....06-029
Bags.....06-022
Blockers .....06-020 to 023
Dynaplate 03-130
Prolan Protection.....06-022
Spray.....06-020 to 022
Test Meters.....06-071
Cotter Pins & Rings . 18-013 to 015
Counter Hinges ....04-071 to 076
Coupler Lock 16-031, 032
Courtesy Lights 01-026, 027
Cover Guard
Seam Tape 07-035
Surface Protection.....07-035
Coveralls 07-047
Covers
Battery Terminal ...02-087, 088
Boat.....16-006 to 012
Cable.....13-045
Chart 12-051
Fender.....14-024
Outboard Motor 16-012
Cowl Vents 04-036
Crab
Bait Jars & Measures ...17-040
Trap Pullers.....17-037
Creeping Crack Cure..... 06-011
Crescent Wrench.....18-017
Crimping
Sleeves 13-017
Tools..... 02-109 to 111
Crooked Creek
Paddles & Oars 17-002
Telescoping Paddle 17-002
Cruisair, Dometic
Air Conditioners....05-048, 049
Cruiser
Quick Links.....13-027
Shackles.....13-019
Snaps 13-029
Swivels 13-026
Thimbles.....13-016
Turnbuckles.....13-015
C-Tug
Dinghy Wheels 16-035
Kayak Trolleys.....16-035
Cuffs, Hose.....10-004
Cunningham Hooks.....13-034
Cup
Holders.....17-042 to 044
Hooks 04-077
Cupboard Catches... 04-062 to 065
Curt
Bearing Protectors 16-025
Trailer Jacks.....16-015
Trailer Locks.....16-031, 032
Trailer Parts & Accessories .....
.....16-024, 025, 029 to 033
Trailer Winches 16-016
Winch Straps.....16-018
Custom Rope Splicing.....14-007
Cutless Bearing 09-057
Cut-Off Switches.....02-014
Cutters
Plug 18-019
Rope... 06-011, 14-011, 18-016
Seapex & Polytube.....10-029
Wire.....02-110, 111

D

Daly's
Wood Finishing 07-015
Dampers, Flue.....05-015
Danforth
Anchors 14-033
Davis Instruments
Air-Dryr 05-032
Boat Hooks.....14-049
Cable Buddy.....08-017
Cable Covers 13-045
Chafe Guards.....14-016
Compass 12-047
Deck Multi Tool.....04-019
Fender Tender.....14-025
Fibreglass Stain Remover.....
.....06-033
Key Buoy.....17-045
Max-Lube 06-021
Motor Caddy.....16-034
Prop Sox 09-068
Queaz-Away.....12-027
Quick Fist 04-079
Quick Fist, Super.....12-009
Quick Reference Cards 12-050
Radar Reflectors 12-020
Rigging Knive 18-016
Rubber Clamp 14-013
Sail Track Stops 13-045
Sea Sickness Bands 12-027
Sextants 12-050
Snubbers.....14-017
Tiller Tamer.....13-045
Trolling Plates.....08-063
Utility Light.....01-036
Wheel-A-Weigh 16-034
Wind Indicators 13-090, 091
Davit Winches 16-017
DC Converters.....03-126, 127
Deadman Switches .....
.....02-014, 12-019
Deck
Brushes .....06-046 to 050
Chairs.....15-005
Deck Organizers ..13-057, 073
Deck Plate Keys.....04-019
Dock Lights 14-030, 031
Fills.....04-016 to 018
Hatches .....04-043 to 046
Lights.....01-035, 036
Pipe 04-015
Plates .....04-041 to 043
Plugs, Wood 18-016
Steps 04-031
Tables.....15-016, 017
Traction Wax 06-033
Washdown Taps 10-049
Deck Fill Hose Lock.....06-055
Deckware, Spinlock.....
.....12-029 to 035, 040
Deep Cycle Batteries.....
.....02-129 to 133
Defoul 07-029
Defroster
12V Kit.....05-042
Fans ..05-033, 038 to 040, 042
Dehumidifiers 05-032, 033

Delta-T
Bilge Blowers 04-034
Fan 05-031
Deodorants, Tank 11-018, 019
Depth Sounders
Faria 03-010
Furuno ..... 03-038 to 040
Garmin ..... 03-027 to 030
Gauges 03-010
Raymarine ..... 03-017 to 019
Desalinator Parts
Village Marine 05-010
Detail Brushes & Cloths .. 06-051
Detectors/Sensors .....
.....05-029, 12-002 to 006
Deutsch
Connectors 02-099, 100
Crimpers 02-110
Dexter Brakes 16-026, 027
Dickinson
Barbecues 05-025
Bus Heater 05-041
Fuel Filters 05-015
Heaters 05-041, 043, 044
Stove Pipe 05-015
Stoves 05-013, 014
Dielectric Grease 06-022, 023
Dielectric Silicone 06-022
Diesel
Additives 06-028
Fills ..... 04-016 to 018
Filters 09-022, 023, 026 to 030
Heaters .....
.....05-034 to 037, 043, 044
Pump, Fuel 11-057
Stoves 05-013, 014
Transfer Pumps .....
..... 11-041, 056, 057
Treatments 06-028
Dimmer Switches 02-011
Dinnerware Set 17-044
Disc Brakes 16-026, 027
Discharge Pump 11-015
Dish Rack 11-021
Disposable Gloves 07-047
Distress Signals
Flares 12-012, 013
Strobe Lights ..... 12-013 to 015
Divers
Dream Anodes 06-068
Ladder 04-029, 030
Diverter Valves 10-046, 047
Dividers, Plotting Tools 12-050
Dock
Bumpers ..... 14-026 to 028
Carts 16-034
Cleats 14-029
Ladders 14-030
Lights 14-030, 031
Lines 14-014, 015
Wheels 14-028
Dock Buddy 14-028
Dock Edge
Bumpers ..... 14-026 to 028
Deck & Dock Lights .....
.....14-030, 031
Dock Carts 16-034
Dock Cleats 14-029
Dock Edging ..... 14-026 to 028
Dock Ladders 14-030
Dock Wheels 14-028
Fender Lines 14-024
Fenders 14-022, 023
Mooring Arms & Whips. 14-028
Mooring Buoys 14-020
Pontoon Fenders 14-023
Portable Toilet 11-006
Reversible Fender Covers .....
.....14-024
Shore Power Clips 02-085
Docking Lights 01-035
Docks
Inflatable, Solstice 17-011
Dog
Life Vests 12-041
Ramps 17-011
Dolly, Kayak 16-035
Dome Lights ..... 01-019 to 024
Dometic
Air Conditioners 05-048, 049
Ball Valve 10-045
BayStar Steering .. 08-019, 020
Capilano Steering. 08-034, 035
Check Valve 10-047
Connection Kits . 08-009 to 011
Control Cables .. 08-006 to 008
Controls 08-003, 004
Digital Gauge 03-004
Discharge Pump 11-015
Fittings, Steering 08-038
Gravity Toilet 11-006
Heaters 05-036, 037
Holding Tanks 11-013, 014
Hose Fittings 10-024
Hyd. Steering .... 08-018 to 039
Jack Plates 08-039
Kicker Tie Bar Kits 08-036
M65 Toilet Systems 11-006
MasterFlush 11-005, 006
Mech. Steering .. 08-012 to 017
Noz-All Adapters 11-015
ORB Fittings 08-038
Power Purge Jr 08-036
Sani Potti 11-007
Sanitation Hose 10-004
Sealand Toilets .. 11-002 to 007
Steering & Controls .....
..... 08-003 to 039
Steering Cables. 08-012 to 016
Steering Wheels 08-049
Tank Monitors 11-016, 017
Tank Treatment 11-018
Tank Vent Filter 11-018
Toilets ..... 11-002 to 007
Trim Tabs 08-057
VacuFlush ..... 11-002 to 004
Xtreme Power Assist 08-016
Dominion Chain
Cleats 14-029
Door
Catches ..... 04-063 to 065
Handles 04-070
Hinges ..... 04-071 to 076
Holders ..... 04-063 to 065
Hooks 04-069, 077, 078
Locks ..... 04-058 to 060
Mats 17-045
Stops 04-065
Dot-Type Fastener ... 18-004, 005
Downriggers
Accessories ..... 17-035 to 037
Cannonballs 17-035
Downriggers ..... 17-031 to 033
Lock Set 17-033
Parts 17-033, 034
Seeker, ... 17-031
Drain
Cocks 10-047
Plugs & Tubes ... 10-021 to 023
Sinks ..... 11-019 to 021
Draping Film 07-035
Drawer Handles 04-070
Drill Bits 18-019
D-Rings 13-037
Drink Holders ..... 17-042 to 044
Drip Rail, Trim-Lok 04-057
Dri-Z-Air 05-032
Dry Storage Bags
Spinlock 12-034
Du-Bro Flag Clips 04-033
Duct Tape 06-013
Duffle Bags 12-034
Dust Masks 07-048, 049
Dynaplate, Guest 03-130

E

Ear Muffs, Flushers 09-033
Ear Protection 07-047
Easy Reach
Brushes & Handles 06-047
Echomaster Reflector 12-020
ECO Marine
Battery Equalizer 02-135
Deck Traction Wax 06-033
Epoxy Stick 06-018

Head-O-Matic 11-019
Spider Spot Remover ... 06-033
Tank Treatment 11-019
Teak Cleaner 07-014
Traction Wax 06-033
Edging
Aluminum 04-054, 056
Edson
Brake Kit 08-050
Pump Out Nozzle 11-015
Rail Motor Bracket 08-041
Steering Wheel Parts ... 08-050
Wheel Nut 08-050
Edwards
Heat Detectors 12-004
EGIS
Automatic Timer Disconnect 02-024
Battery Switches .. 02-023, 024
Charging Relays ... 02-023, 024
Circuit Breakers . 02-054 to 056
Contactors 02-025
Flex Relays 02-024
Fuse Blocks 02-041, 042
Elbow Catches 04-064
Electric
Defrosters 05-033, 042
Heaters 05-033, 042, 043
Stoves 05-011, 012
Toilets ..... 11-002 to 009
Electrical
Battery Terminals . 02-086, 087
Bus Bars ..... 02-056 to 061
Cable Ties ..... 02-123 to 125
Circuit Breakers . 02-052 to 056
Conduit 02-127, 128
Electrical Connectors .... 02-116 to 120
Enclosures ..... 02-112 to 116
Fuses & Holders 02-040 to 051
Light Bulbs ..... 01-038 to 049
Lugs ..... 02-088 to 091
Panels ..... 02-028 to 038
Power Posts ..... 02-061 to 063
Shore Power ..... 02-075 to 084
Spiral Wrap 02-127, 128
Switches ..... 02-002 to 029
Tape 02-136
Terminal Blocks . 02-058 to 061
Terminal Connectors .... 02-088 to 104
Trailer Connectors 16-021, 022
Wire ..... 02-065 to 072
Wire Clamps 02-126, 127
Electrical Chapter . 02-001 to 137
Electro-Guard
Shaft Wiper Mount 03-131
Shaft Wipers 03-131
Electronic Distress Signal
Ocean Signal 12-015
Sirius Signal 12-013
Electronics Chapter .... 03-001 to 131
Electronics Mounts
Panther 17-038
Railblaza 17-021, 022
Scanstrut 17-017, 018
Scanstrut, Radar .. 03-099, 100
Scotty 17-037, 039
Seaview ..... 03-096 to 099
Elements
Racor 09-023, 026, 027, 031
Emergency
Deck Fill Plug 04-018
Folding Ladder 04-028
Garboard Drain Plug 10-021
Sta-Plugs 12-009
VHF Antenna 03-087
EMP
Alternators 09-040
Bellows 09-037
Carburator Kits 09-040
Drain Plugs & Parts 09-039
Engine Parts .... 09-036, 037, 039 to 043
Fuel Filters 09-021
Fuel Pumps 09-036
Gimbal Bearings 09-039
Impellers 09-039
Oil Filters 09-031
Racor Style Filters 09-021
Starters 09-040, 041
Tune-Up Kits 09-042, 043
U-Joints 09-040
Water Pump Kits 11-047
Water Pump 11-047
Em-trak
AIS Transceivers 03-015
VHF/AIS 03-083
Emzone Air Horns 12-022
Endurance Marine
Davit Winches 16-017
Deck Winch 14-047
Pot Puller 17-037
Trailer Winches 16-016
Utility Winches 16-017
Winch Stand 16-017
Engine
Alarms ..... 12-004 to 006
Controls ..... 08-002 to 004
Cooling Pumps 11-046, 047
Engine Parts ..... 09-036 to 043
Instruments ..... 03-002 to 009
Manuals 09-047
Oil 06-025, 026
Oil Change Kits . 11-053 to 056
Paint 07-029
Room Lights 01-023, 024
Room Vents .. 04-035 to 04-038
Shut-Off 02-014, 12-019
Warnings ..... 12-004 to 006
Zincs ..... 06-058 to 071
Engine Connection Kits
SeaStar ..... 08-009 to 011
Engine Ignition Analyzer .. 09-034
Engine Parts Chapter .... 09-001 to 087
English Braid Twine 14-010
Eno
Stoves/Cooktops .. 05-010, 011
Entrance Mats 17-045
EPCO
Battery Tie Downs 02-135
Boat Cover Straps 16-012
Gas Tank Tie Downs 09-005
Transom Ties 16-014
Winch Straps 16-018
Epifanes
Enamel 07-011, 012
Non-Skid 07-014
Primers 07-013
Thinners 07-013
Two-Part Polyurethane . 07-012
Varnishes 07-016
EPIRB
ACR 12-017, 018
Ocean Signal 12-017
Epoxy
Fillers ..... 06-018 to 020
Glues ..... 06-015 to 017
Interprotect 07-012
Putty Sticks 06-018
Sealers ..... 06-015 to 020
System Three .... 06-015 to 020
Teckdecking Systems ... 06-007
Eva-Dry 05-032
EVM
Aluminum Fittings 10-043
Shut-Off Valve 10-043
Tank Fittings 09-008
Exhaust
Flappers 09-087
Gaskets 09-072, 073
Hose ..... 10-006 to 008
Mufflers ..... 09-082 to 085
Tubing 09-086
Exit Plates 13-045
Expansion Tanks 11-030
Exposure Suits 12-037
Extend-A-Snap 18-005
Extension
Cords 02-085
Cords, Shorepower .... 02-075 to 078, 084
Sailboat Tiller 13-043
Extinguishers, Fire ... 12-007, 008

Eye
Bolts 13-035, 036
Mast Pad Eyes 13-046
Pad Eyes/Straps 13-037 to 041
Protection 07-047
EZ Steer 08-045

F

Fabric Guard
303 06-040
3M 06-040
Aqua-Tek 06-031
Star Brite 06-039
Fairing Boards 07-045
Fairleads
Harken 13-041, 073
Johnson 13-041
Sea-Dog 13-041
Spinlock 13-056, 057
Wichard 13-041
Fairview
Check Valve 10-048
Fittings ..... 10-036 to 043
Propane Fittings .. 05-026 to 029
Valves ..... 10-045 to 048
Water Hose 06-053
Falcon
Horns 12-022
Snubbers 14-016
Fans
Bilge Blowers 04-034
Circulation 05-030, 031
Faria
Depth Sounders 03-010
Fuel Senders 09-007
Gauges ..... 03-002 to 004
Fast Pins 18-014, 015
Fasteners
316 Stainless .. 18-006, 010, 011
Anti-Rattle ..... 04-065 to 068
Barrel Nuts 18-012
Canvas 18-004, 005
Cap Screws 18-007
Carriage Bolts 18-007
Clevis Pins 18-014
Cotter Pins 18-012
Fastmount ..... 18-002 to 004
Hatch ..... 04-066 to 069
Hex Bolts 18-006
Lag Bolts 18-007
Machine Screws 18-008
Nuts 18-010
Ready Rod 18-012
Rivets 18-012
Set Screws 18-011
Togglers 18-014
Washers 18-011
Wood Screws 18-009
Fasteners & Tools Chapter .....
..... 18-002 to 019
Fastmount System .. 18-002 to 004
Faucets
Ambassador .....
..... 10-049, 11-021, 022
Scandvik ..... 11-021 to 023
Sea-Dog 10-049
Whale 11-024
Fault Finder, Sierra 02-108
FBS Distribution
Compression Sprayers. 06-052
Color Coding Caps 06-052
Coveralls 07-047
Pro Mask System 07-035
Pro Spreader Kit 18-017
Surface Protection 07-035
WHMIS Labels 06-052
Fell Marine
MOB+ Accessories 12-019
Fender
Adjusters 14-025
Airhead 14-023
Covers 14-024
Dock ..... 14-026 to 028
Dock Edge 14-022, 023
Hanger, Transat 14-025
Holders 14-023, 025
Lines 14-024
Polyform 14-021, 022
Pontoon 14-023
Repair Kits & Pumps 14-022
Tenders 14-025
Trailer 16-028
Washers 18-011
Festool
Accessories 07-038
Accessory Storage 07-037
Sanders 07-037, 038
Work Centre 07-037
Fibreglass
Cleaners & Waxes.....
..... 06-031 to 042
Cloth & Mat 06-015
Fiber Craft 06-014, 015
Gel Coat 06-014
Resin 06-014
Fids, Splicing 14-011
Fillers
3M 06-019, 020
Epoxy ..... 06-018 to 020
Putty 06-018, 019
Fillet Tables
Magma 05-022
Railblaza 17-024
Sea-Dog 17-040
Fills, Deck .....
..... 04-016 to 018, 09-018, 019
Filter
Bait Tank 11-038, 039
Diesel ... 09-022, 023, 026 to 030
Fuel ..... 09-020 to 031
Holding Tank 11-018
Oil 09-031, 032
Potable Water .. 05-009, 06-056
Raw Water.....
..... 10-018 to 020, 11-041
Wrenches 09-033
Fine Line Tape 07-036
Finishing Washers 18-011
Fire
Alarms ..... 12-003 to 005
Axes & Buckets 12-009
Extinguishers 12-007, 008
Hose Nozzle 12-009
Inspection Port 12-009
Proofing 09-048
Fire Spray 12-007
Fireboy
Detectors 12-002, 004
Engine Shutdown 12-006
Fire Suppression 12-007
Firefly Light 12-014
First Aid
Kits ..... 12-025 to 027
Nanuk Cases 12-027
First Alert
Fire Extinguishers 12-008
Firstwatch
Jackets, Pants & Suits .....
..... 12-036, 037
Kid's Vests 12-040
Fish Cleaning Trough 17-040
Fish Finders
Furuno ..... 03-038 to 040
Garmin ..... 03-027 to 030
Raymarine ..... 03-017 to 019
Fish Tape 02-107
Fishing
Downriggers ..... 17-031 to 033
Rod Holders ..... 17-024 to 030
Telescoping Fish Net 17-040
Fitzwright Reflective Tape . 12-010
Fix Repair Putty
BoatLIFE 06-018
Flag
BC, Canadian & US 04-033
Clips 04-033
Holders 04-032, 033
Flange, Rigging 08-048
Flares 12-012, 013
Flashlight
Batteries 02-135
Flashlights 01-037
Flattening Agent
Interlux 07-011
Flax Packing 09-048, 049

Flexible Water Tanks 11-025
Flip-up Dock Cleats 14-029
FLIR Thermal Imaging
  Cameras 03-024
Flitz
  Calcium/Rust Removal .. 06-042
  Cleaners & Waxes .....
  .....06-033, 034, 042
  Metal Cleaners 06-042
  Plastic Cleaner 06-042
Float Line 14-005, 008, 009
Float Switches 11-035, 036
Floater Coats 12-036, 037
Floating Flashlights 01-037
Floating Sunglasses 17-045
Floats
  Key 17-045
  Mast 12-034
  Safety Lines 12-010, 011
Float-style Valve 09-056
Flojet Inlet Strainers 11-040
Floodlights
  Handheld 01-034
  Lights ..... 01-032 to 035
Floor
  Mask & Protection .. 07-035, 036
  Mats 17-045
Flotation Wear
  Airhead 12-039
  Firstwatch 12-036, 037, 040
  Mustang ..... 12-037 to 040
  Pet 12-041
  Re-Arm Kits 12-046
  Spinlock .....
  .....12-029 to 032, 040, 041
Flow
  Detectors 12-005
  Indicators 09-056
Fluid Film 06-021
Fluorescent
  LED Replacement Bulb .. 01-049
Flush Pulls ..... 04-059 to 062
Flushers, Motor 09-033
Flying Colours Flags 04-033
Foam
  Brushes 07-033
  Gasket, Hatches 04-056
  Poly-Foam, Fibrer Craft . 06-014
Fog
  Horn 12-021
  Nozzle 12-009
Fogging Oil 06-029
Fold-Away Tongue Kit 16-029
Folding
  Anchors ..... 14-033 to 035
  Cleats 04-011
  D-Rings 13-041
  Pad Eyes 13-040, 041
  Steps 04-031
  Table Brackets 04-078
  Tables 15-017
Foot
  Kayak Footbraces 17-039
  Pumps 11-025, 026, 17-015
  Rests 15-015
  Strainers 11-053
  Switches 14-047
Force 10 ..... 05-011 to 013
Forespar
  Cars 13-046
  Chocks 13-046
  Cleats 04-014
  Exit Boxe 13-045
  Lanocote 06-021
  Lightning Master 03-130
  Lights 01-035, 036
  Marelon Thru-Hulls 10-015
  Marelube 06-021, 022
  Mast Eyes 13-046
  Nash Labels 13-042
  Prop & Bottom 06-021
  Sailing Hardware . 13-042 to 047
  Shackle Guards 13-045
  Sta-Plug 12-009
  Tea Tree Power 05-033
  Tiller Extensions ... 13-042, 043
  T-Track & Stops 13-045
  Vang/Boom Fitttings 13-047
  Water Light 12-015
  Water Purifiers 05-009
  Whisker Poles 13-043, 044
Formers, Sta-Lok 13-003
Fortress Anchors 14-034
Foulfree, Prospeed 07-010
Fox 40
  First Aid Kits 12-027
  Flashlights 01-037
  Safety Kits & Throws 12-011
  Whistles 12-021
Fraser Bronze
  Cleats 04-014
  Hatches 04-046
  Steering Wheel 08-048
Freeman Hatches 04-045
Freezers & Fridges .. 05-002 to 008
Fresh Water
  Filters 05-009, 09-056
  Inlets 10-048
FSR Cleaner 06-033
FTZ
  Battery Terminals 02-086
  Connectors ... 02-090, 100, 101
  Electrical Tools 02-109, 111
  Heat Gun 02-107
  Heat Shrink .. 02-100, 101, 104
  Lugs 02-090
  Tools 02-107, 109, 111
  Wrap 'N Seal Tape 02-136
Fuel
  Air Separators 09-018, 019
  Bleeder Hose 09-017
  Fills . 04-016 to 018, 09-018, 019
  Filter, Dickinson 05-015
  Filters ..... 09-020 to 031
  Fittings ..... 09-008 to 017
  Gauge Senders 09-007
  Gauges ..... 03-002 to 007
  Hose 10-008, 009
  Kerosene 05-045
  Level Senders . 03-009, 09-007
  Line 09-017
  Line Fittings ..... 09-008 to 017
  Overflow Protector 09-019
  Primer Bulbs 09-017
  Pumps 11-041,054 056, 057
  Stabilizers 06-027, 028
  Surge Protector 09-019
  Tank Hold Downs 09-005
  Tank Vents .....
  .....04-039 to 041, 09-018, 019
  Tanks ..... 09-004 to 006
  Treatments 06-027, 028
Fuel Injector
  Analyzer 09-034
  Cleaning Kit 09-023
Fuel Line
  Copper Tubing 10-036
  Hose 09-017, 10-008, 009
  Propane ... 05-023, 026, 028, 029
Fuel Whistle
  Green Marine 09-019
Fulton
  Boat Guides 16-028
  Spare Tire Carriers 16-027
Fume Detectors .....
  .....05-029, 12-002 to 004
Funnels 09-017
Furling, Harken 13-081, 082
Furuno ..... 03-038 to 045
Fuse
  Blocks ..... 02-040 to 045
  Fuses ... 02-043 to 045, 050, 051
  Holders ..... 02-040 to 047
  In-Line ..... 02-045 to 047
Fusion Stereo Systems .....
  ..... 03-065 to 072

G

Galleyware
  Cookware 05-020, 021
  Dinnerware 17-044
Galvanic Isolators 03-131
Galvanized
  Anchors ..... 14-032 to 035
  Chain 14-036

Oarlocks.....17-003
Turnbuckles.....13-015
Garboard Drain Plugs.....10-021
Garelick
Boat Hooks.....14-049
Ladder Brackets.....04-030
Ladders.....04-029, 030
Seat Hardware..15-006 to 010
Swim Platforms.....04-029
Tables & Bases....15-015, 016
Garmin..03-027 to 036, 082, 083
Gas
Cans.....09-004, 005
Detectors.05-029, 12-002, 003
Fills..04-016 to 018, 09-018, 019
Filters.....09-020 to 024, 026
Gas Springs.....04-050, 051
Lines.....09-008 to 017
Surge Protector.....09-019
Tank Tie Downs.....09-005
Tank Vents.....
.....04-039 to 041, 09-018, 019
Tanks.....09-004 to 006
Treatments.....06-027, 028
Gasket
Foam, Hatches.....04-056
Gate
Latches.....04-063, 066
Stops.....13-014
Valves.....10-046
Gator Patch
Repair Tape.....06-012
Gauges
Ammeters.....03-101 to 104
Clinometers.....13-090
Faria.....03-002 to 004
Gas Tank Level .....
.....03-002 to 005, 09-007
Holding Tank .....
.....03-036, 11-016 to 018
Propane.....05-026, 028
Volt Meters.....03-002 to 007
GE
Bulbs.....01-041, 048, 049
Nighthawk Sealbeam...01-041
Silicone.....06-010
Gear
Bags.....12-012, 034, 035
Cases.....12-027
Gearcase Filler, Sierra...06-024
Hammock.....17-041
Oil & Lube.....06-023 to 026
Gelcote Repair Kits.....06-014
Gemlux
Barrel Bolts.....04-066
Drains.....10-017
Hinges.....04-073, 074
Inlet.....10-048
Rod Holder.....17-026
Slam Latches.....04-060
Steering Wheel Nut.....08-050
Table Brackets.....04-078
Tank Vents.....04-040
Thru-Hulls.....10-013, 014
Vents.....04-037
Well Drain.....10-022
General Components
Heaters.....05-034, 035
Generator
Exhaust.....09-087
Parts.....09-035, 036
Gimbal Bearings.....09-039
Git-Rot.....06-018
Glass
Cleaners.....06-041
Cloths.....06-015
Glasses, Safety.....07-047
Glendinning Cablemaster..02-078
Glide-Ons.....16-028
Gloma
Anchor Swivels.....14-037
Eye Straps.....13-037
Shackles.....13-022, 023
Glove
Boxes & Locks.....04-063
Disposable & Rubber...07-047
Sailing.....13-058
Watersport.....17-012
Glue
3M Glue.....06-010, 011
Gorilla.....06-011, 012
Sikaflex.....06-006, 007
Spray.....06-011
System Three....06-015 to 017
Gobius
NMEA 2000 Converter.11-017
Tank Montitoring.....11-017
Tank Sensors.....11-017
Goggles/Safety Glasses...07-047
Gold Braid Rope.....14-007
Goldspar Varnish.....07-017
Golight
Floodlights.....01-033
Searchlights.....01-018
Gorilla
Glue.....06-011, 012
O-Keeffe's.....06-043
Tape.....06-013
GPS
Furuno.....03-038 to 041, 043
Garmin.03-027 to 030, 033, 036
Handheld.....03-036
Maretron.....03-050
Raymarine.03-017 to 019, 022
GPS Antennas
em-trak.....03-015
Furuno.....03-041, 043
Garmin.....03-033
Maretron.....03-050
Raymarine.....03-022
Grab
Handles.....04-024
Hooks.....13-033
Grant Steering Wheels....08-049
Grapple Hook.....14-035
Grease
Engine.....06-021 to 023
Gun.....06-024
Trailer.....06-023
Winch, Harken.....13-078
Green Marine
Fuel Whistle.....09-019
Greenfield
Anchor Buddy.....14-017
Anchors.....14-034, 035
Coated Cannonballs.....17-035
Coated Chain.....14-036
Grapple Buddy.....14-035
Retrieval Magnet.....17-045
Skywinch Trailer Winch 16-017
Stretch 'n Slide.....14-017
Grills
Dickinson.....05-025
Carry Case.....05-019
Covers.....05-020, 024, 025
Kuuma.....05-024
Magma.....05-016, 018
Grinding Discs.....07-040 to 044
Griptex Non-Skid.....07-013
Groco
Accumulator Tanks.....11-030
Ball Valves.....10-044
Check Valve.....10-048
Circulating Pump.....11-044
Flange Adapters.....10-044
Hose Adaptors.....10-023, 024
Inlet Strainers.....11-040
Oil Change Pumps.....11-055
Paragon Parts.....11-030
Raw Water Strainers....10-020
Seacocks.....10-044
Thru-Hulls.....10-012, 013
Toilet Parts.....11-012
Vane Pumps.....11-041
Vented Loops.....10-049
Water Pressure System..11-030
Grommets
Canvas.....18-005
Electrical.....02-116
Steering Cable.....08-048
Grounding Plate & Strap...03-130
Guest
Battery Chargers.....03-109
Battery Switches.....02-027
Dynaplate.....03-130
Guide-Ons.....16-028, 029

Gun
Caulking 18-017
Flare 12-012
Grease 06-024
Gunwhale Tie Downs 16-014
Gusher Hand Pumps 11-051
Guzzler Pumps 11-052

H

Hailer Speakers 03-084
Halyard Shackles . 13-020 to 023
Hammock
Gear Hammock 17-041
Hooks 04-077
Hand
Bearing Compasses 12-047
Cleaners 06-043
Flares 12-013
Pumps ..... 11-051 to 055
Rails 04-024
Sanding Blocks 07-045, 046
Handheld Floodlight 01-034
Handi-Man
Canvas Fasteners .. 18-004, 005
Clevis Pins 18-014
Cotter Rings 18-013
Cup Hooks 04-077
Drink Holders 17-044
Grommets 18-005
Hitch Pins 18-013
O-Ring Kit 18-016
Prop Nut/Key 09-069
Rivets 18-012
Shear Pins 09-069
Snap Caps 18-015
Handles
Boarding 04-030
Deck Brush ..... 06-047 to 049
Door 04-058, 070
Handrails 04-024
Hatch ..... 04-059 to 062
Lifting ..... 04-059 to 062
Step 04-031
Transom 04-031
Winch 13-078, 090
Window 04-065
Happy Hooker 14-048
Happy Trollers 08-063
Hardline
Key Floats 17-045
Letters 16-037
Hardware Chapter... 04-001 to 079
Harken
Access Rail System .....
..... 13-087, 088
Battcar Systems 13-085
Blocks ..... 13-059 to 072
Cam Cleats 13-076, 077
Chafe Protector 13-045
Deck Organizers/Fairleads.....
..... 13-073
Dinghy Clew Hook 13-090
Eye Straps 13-038
Furling 13-081, 082
Hoisters 17-004
ILCA Kicker/Vang System .....
..... 13-089
Industrial 13-086
McLube 06-021, 022
Pad Eyes 13-040
Pawl Oil 13-078
Shackles 13-021, 022
Snap Shackles 13-032
Travelers 13-083, 084
Vang Master 13-074, 075
Winch Grease 13-078
Winch Handles 13-078
Winches 13-079, 080
Harken Marine Grip 04-031
Harken Sport
Bosun Chair 13-058
Cap Holder 13-058
Eyeglass Strap 13-058
Gloves 13-058
Wallet 13-058
Harness
Outboard Motor 16-034
Ski Tow 17-013
Spinlock 12-035
Hasps 04-067, 068
Hatch
Access & Utility ... 04-043 to 046
Adjusters ..... 04-048 to 051
Electric Lifts 04-049
Fasteners 04-068
Gas Spring 04-050, 051
Gaskets 04-056
Hatch Lifts ..... 04-048 to 051
Hatches ..... 04-043 to 046
Hinges ..... 04-071 to 076
Lift Rings 04-061, 062
Lifters ..... 04-048 to 051
Parts ..... 04-045 to 048
Hatchets 12-009
Hatteland Display 03-061
Hawse Pipes 04-015
Head
Bowl Cleaners 11-019
Conversion Kits 11-011
MasterFlush 11-005, 006
Portable 11-006, 007
Tissue 11-019
Toilet Paper Holder 11-019
Toilets ..... 11-002 to 010
Treatment 11-018, 019
VacuFlush ..... 11-002 to 004
Headhunter Pumps 11-030
Head-O-Matic
Waste Treatment 11-019
Heads & Pumps Chapter.....
..... 11-001 to 057
Healthy Hands & Feet 06-043
Heat
Detectors 12-004, 005, 007
Guns 02-107
Lamp 01-049
Shrink Tubing .... 02-104 to 106
Tools 02-107
Heat Shrink
Tape 16-011
Terminals ..... 02-100 to 104
Tubing ..... 02-104 to 106
Heater
Caframo 05-033
Dickinson 05-041, 043, 044
Dometic 05-036, 037
Electric 05-033
General Components .....
..... 05-034, 035
Heater Craft 05-042, 043
Hose 10-009
Hot Water ..... 05-045 to 047
MSR 05-038, 039
Red Dot 05-041
Sea-Dog 05-033
Heater Craft
Defroster 05-042
Heaters 05-042, 043
Shower Systems .. 11-024, 025
Heaving Lines 12-010, 011
Hella
Battery Switch 02-028
Fans 05-031
Fuse Block 02-042
Light Bar 01-034
Lights - Chart 01-025, 026
Lights - Flood 01-033, 034
Lights - Interior 01-019
Lights - Navigation .. 01-003, 004
Lights - Pole 01-010
Helm Seats ..... 15-002 to 005
Hemilight 12-014
Hex
Bolts 18-006
Nuts 18-010
HGE
Crossover Chart 09-074
Engine Mounts 09-078
Exhaust Elbows 09-077, 078
Exhaust Gaskets 09-079
Manifolds ..... 09-075 to 077
Mounting Kits 09-079, 080
Hinges
Cabinet & Door .. 04-071 to 076
Piano 04-076

Hitch
Ball Mounts 16-029, 030
Cables 16-027
Pins 18-013
Hoffmann Plaques 02-040
Hoisters, Harken.....17-004
Holders
Anchor.....14-038 to 041
Boat Hook.. 04-078, 079, 17-002
Camera 17-022, 038, 039
Cell Phone.....
.....02-137, 17-017, 039, 041
Chart 12-051
Door 04-065
Drink.....17-042 to 044
Fender.....14-023, 025
Flag 04-032, 033
Fuse .....02-040 to 047
Horn 17-042
Paddle 17-002, 023
Railblaza .....17-019 to 025
Ring Buoy.....12-010
Rod.....17-024 to 029
Tablet, Scanstrut 17-017
Tablet, Scotty.....17-039
Tarp 14-012, 16-012
Utility 17-041
VHF Radio.....17-021, 041
Winch Handle.....13-090
Holding Tank
Deodorant 11-018, 019
Filters 11-018
Gauges.....03-006
Level Indicators . 11-013 to 015
Pumps 11-015, 016
Tanks..... 11-004, 013 to 015
Hollow Braid Rope.....14-009
Hood, Spray Sock 07-047
Hook & Loop.....14-013
Hooker, Anchor.....14-034
Hooks
Antenna.....03-093
Boat.....
.. 06-047, 14-048, 049, 17-002
Cabin.....04-069, 077, 078
Caribiner.....13-030, 031
Cunningham.....13-034
Cup.....04-077
Door 04-069
Fender.....14-025
Fishing Hook Rack 17-040
Gate .....
.....13-003, 004, 012, 013 032
Grab 13-033
Hammock.....04-077
Hat & Coat.....04-077, 078
Lashing.....04-077
Mooring 14-048
Packing 09-049
Pelican 13-012
Reefing.....13-034
Shock Cord 14-013
S-Hooks 13-034
Snap.....13-028 to 032
Tow.....13-033
Utility 04-077
Horn
Air.....12-022
Button.....02-002
Electric .....12-022 to 024
Fog 12-021
Hose
Adaptors.....
.....10-023 to 027, 041 to 043
Application Chart.....10-003
BBQ.....05-023, 026, 028, 029
Bilge 10-004
Blower 10-009
Clamps 10-010, 011
Conduit.....02-127, 128
Cuffs.....10-004
Enclosures 06-054, 055
Exhaust .....10-006 to 008
Fittings...10-023 to 027, 041 to 043
Fuel 09-017, 10-008, 009
Garden Fittings.....10-042, 043
Gas Lines ..09-017, 10-008, 009
Heater 10-009
Lock, Water Hose.....06-055
Nozzles 06-055
Packing Box 09-056
Propane..05-023, 026, 028, 029
PVC.....10-004 to 006
Sanitation 10-004, 005
SeaTech Fittings .. 10-029 to 032
Silicone Exhaust...10-006, 007
Strap.....06-055
Ventilation.....10-009
Water.....06-053 to 055
Water Injection, by ft.....09-052
Wonderflex 10-008
Hose & Nozzle Kits.....06-054
Hose Fittings
Buck Algonquin 10-023
EVM 10-043
Fairview.....10-041 to 043
Fittings.....
.....10-023 to 027, 041 to 043
Marine East.....10-026, 027
Propane.....05-028, 029
Sealand 10-024
SeaTech .....10-030 to 032
HoseCoil
Hose Enclosures.....06-054
Hose Kit.....06-054
Hose Nozzles 06-055
Washdown Hose 06-054
Hot Knives 06-011, 14-011
Hot Water Tanks ...05-045 to 047
Hour Meters.....03-002 to 007
Housing, Glove Box.....04-063
Howes
Diesel Treatments 06-028
Penetrating Oil 06-021
Hull Protection
Keelguard.....16-036
RockGARD.....16-037
Sea-Dog Dripper Guard. 10-015
Hullkote, McLube.....06-021
H.U.M. Out Fuel Biocide..06-028
Hydraulic
Hose & Fittings.....08-037, 038
Steering Fluid 08-037
Steering.....08-018 to 039
Hydrofoils 08-063
HySeas
Bilge Cleaner.....06-034
Boat Soap 06-034
Hull Cleaner 06-034

Ice Rescue Suit 12-037
Icemakers.....05-006, 008
Icom.....03-080 to 082
Ideal Hose Clamps 10-011
Ignition Analyzer 09-034
Ignition Switches ..02-012 to 014
ILCA Kicker/Vang System.....
.....13-089
Impeller
EMP 09-039, 11-047
Jabsco 11-049, 050
Kits 11-047, 048
Pullers 11-048
Pumps 11-042, 043
Sierra.. 09-036, 039, 11-047, 048
Inclinometer.....13-090
Indicators, Wind.....13-090, 091
Inflatable
Accessory Mounts.....17-019
Airhead..... 17-007 to 011
Buoys/Fenders ..14-020 to 022
Docks 17-011
Dog Ramps 17-011
Inflatable Re-Arm Kits ..12-046
Kayaks 17-011
Paddleboards.....17-012
Pumps.....17-012, 015
Repair Kits.....06-012, 17-012
Vest Illuminator.....12-034
Vests .....
..12-029 to 032, 040, 042, 043
Inglefield Clips 04-033
Ink, Polyform 14-022

Inlet
Strainers 11-040, 041
Water 10-048
Inline
Blowers 04-034
Fuses ..... 02-045 to 047
Pumps 11-034
Inspection Ports .... 04-041 to 043
Instruments
Clinometers 13-090
Depth Sounders 03-010
Faria ..... 03-002 to 004
Furuno 03-044, 045
Garmin 03-035
Maretron 03-045
Navigation 12-050
Raymarine 03-024
Veratron ..... 03-005 to 007
Weather 13-090, 091
Intake Strainers, Water .....
..... 11-040, 041
Intellisteer 08-043
Intercom, Newmar 03-084
Interlux
Antifouling ..... 07-004 to 008
Bottom Paint ..... 07-004 to 008
Flattening Agent 07-011
Paint Info ..... 07-002 to 007
Primers & Solvents .....
..... 07-012, 013, 027, 028
Solvent Chart 07-027
Topside Paint 07-011
Varnish 07-017
Interprotect 07-012
Inverter/Chargers . 03-119 to 125
Inverters 03-118
iPad Holders 17-017, 039
Iron, Caulking 18-017
Isolation Transformers 03-129, 130
Isolators ..... 03-127 to 129
Isotherm
Ice Makers 05-008
Refrigeration 05-007, 008
Water Heaters 05-045, 046
ITC
Cabin Lights 01-019, 024 to 027
Courtesy Lights 01-026, 027
Drain Assembly 11-020
Drink Holder 17-044
Hatch Lift Pin 04-061
Shower 11-025
Table Hardware 15-015, 017
Vents 04-038

J

Jabsco
Accumulator Tanks 11-031
Bilge Blowers 04-034
Bilge Pumps 11-031
Bilge Strainers 11-053
Check Valves 11-053
Clutch Pumps 11-044
Hand Pumps ..... 11-052 to 054
Impeller Pullers 11-048
Impeller Pumps 11-042, 043
Impellers ..... 11-049 to 051
Non-Return Valves 11-053
Nozzle 06-055
Oil Changers 11-055
Pedestal Pumps ... 11-044, 046
Pressure Regulators 10-048
Pump Filters 11-040, 041
Toilet Conversion Kits... 11-011
Toilets ..... 11-007 to 011
Vane Pumps 11-041
Vented Loop Valve 11-008
Washdown Outlet Kit 10-049
Washdown Pumps 11-037
Waste Management 11-014
Waste/Macerator Pumps . 11-016
Water Pumps ..... 11-026 to 028
Y-Valves 10-047
Jack
Plate 08-039, 040
Support Stabilizer 16-015
Trailer 16-015
Jackets, Flotation 12-036, 037
Jerry Cans 09-004
Jib Furling 13-082
JIF Ladders 04-028, 029
Johnson
Rubber Sleeve Bearings .. 09-057
Johnson Hardware
Circular Rings 18-013
Furling Fairlead 13-041
Pelican Hooks 13-012
Rigging ..... 13-012 to 014
Safety Pin 18-013
Spliced Line Fittings 13-013
Turnbuckles 13-013
Joi Light, Caframo 01-037
JR Products
Drink Holders 17-042
Jumper Cables 02-063
Just Ducky
Bungee Cord 14-012
Snubbers 14-016

K

Kanto TV Mount 03-079
Kayak
Compass 12-047
Footbraces 17-039
Inflatable, Solstice 17-011
LED Lights 01-016
Racks 17-004
Railblaza Mounts . 17-019 to 023
Storage Racks 17-004
Tranducer Mount .. 17-022, 037
Trolley, C-Tug 16-035
Keel Guard & Pontoon Guard ....
..... 16-036
Keeper, Windshield 04-065
Kerosene 05-045
Key Floats & Rings 17-045
Kicker Tie Bars
Dometic / Seastar 08-046
E.Z. Steer 08-045
Panther 08-042
Powrtran 08-047
SeaStar 08-036
Kid's
PFD Vests 12-040
Kill Switches 02-014, 12-019
Kingston
Anchor Rollers ... 14-038 to 039
Roller Wheels 14-037
Kiwigrip 07-014
Klear-to-Sea 06-041
Knee Pads, Spinlock 12-035
Knife
Hot 06-011
Olfa 18-016
Putty 18-017
Sailing 18-016
Sharpeners 18-016
Krytex Coveralls 07-047
Kuuma
Grills 05-024
Water Heaters 05-045

L

Label Sets
Nash/Sailing 13-042
Panel 02-039, 040
WHMIS 06-052
Lacquer Thinner 07-028
Ladder
Boarding ..... 04-028 to 030
Catches & Hinges 04-030
Dock 14-030
Locks 04-030
Mounting Brackets 04-030
Stand-Offs 04-030
Steps 04-031
Lag Bolts 18-007
Lamp Oil 05-045
Lamp, Heat 01-049
Land And Sea
Water Purifiers 05-009
Landing Net 17-040

Lanocote.....06-021
Lasdrop Shaft Seals.....09-056
Last Watch Alarm 12-005
Latches
Cupboard .....04-062 to 065
Door .....04-058 to 060
Gate 04-063, 066
Push Button.....04-062, 063
Lead Cannonballs 17-035
Lectrotab
Hatch Lift.....04-049
Trim Tabs.....08-056, 057
LED Light Controlls .....
.....01-028, 03-072
Leland
Re-Arm KIts.....12-046
Rust Protection Bags ...06-022
Lenco
Hatch Lift.....04-049
Trim Tabs.....08-058, 059
Letters & Numbers 16-037
Lev-O-Gage
Clinometers.....13-090
Fridge Thermometer 05-006
Life Buoy Lights.....12-009
Life Jackets .....
.....12-029 to 032, 038 to 041
Life Line Cable 13-017
Life Ring
Lights.....12-009
Rings & Brackets.....12-010
Life-Calk, BoatLIFE 06-003
Lifeguard, Racor.....09-019
Lifeline Batteries.....02-129
LifeSafe Tapes
Bimini Bandage.....13-042
Boat Cover Repair.....16-013
Boot.....13-042
Butyl Caulking 06-010
Heat Shrink 16-011
Non-Slip 04-031
Rigging.....13-042
Sail Repair.....13-042
Super Seal 06-012
Lift
Eyes 13-040, 041
Handles.....04-070
Hatch.....04-049 to 051
Motor .....08-039 to 042
Rings .....04-059 to 062
Light Bulbs.....01-038 to 049
Lighter
Butane.....02-107
Cigarette/Light..... 02-117
Lighting Chapter ...01-001 to 049
Lightning Master
Forespar.....03-130
Lights
Baja Designs.....01-032, 033
Berth Lights.....01-024, 025
Bulbs .....01-038 to 049
Cabin Lights .....01-019 to 027
Courtesy.....01-026, 027
Deck / Dock.....
.....01-035, 036, 14-030, 031
Engine Room 01-023, 024
Flashlight.....01-037
Floodlights.....01-032 to 035
Fluorescent Bulbs 01-049
Kayak 01-016
LED Controllers....01-028, 029
Life Ring.....12-009
Light Bars.....01-023, 032
Man Overboard.. 12-013 to 019
Motion Sensor Switch .. 02-011
Navigation .....01-002 to 014
OceanLED.....01-029, 030
Outdoor, Caframo.....01-037
Panel.....02-038
Pole .....01-010 to 014
Portable Navigation.....01-016
Pylon Light 12-034
RAB.....01-034, 037
Railblaza 01-016
Sockets 01-049
Solar.....14-031
Spotlights 01-017, 018
Spreader .....01-032 to 036
Strip Lighting 01-028
Strobe.....12-013 to 019
Trailer .....16-019 to 021
Under Cabinet.....01-022
Underwater.....01-029, 030
Waketower 01-003
Worklights 01-036, 037
Lightspeed, Propspeed ...07-010
Line
Anchor.....14-014, 015
Dock.....14-016
Fender.....14-024
Organizers.....14-025
Thrower 12-013
Winder.....17-014
Line Spooling Station 17-024
Links, Quick.....13-027
Linseed Oil 07-015
Liquid Tape, Electrical.....02-136
Lithium Batteries.....02-132, 133
Livewell
Cleaner.....06-030
Fittings..... 11-038, 039
Plugs 10-022
Pumps 11-038
Locator Beacon
ACR.....12-017
Ocean Signal 12-015 to 017, 019
Lock Nuts 18-010
Locker Vents....04-035 to 04-038
Locking Wire.....18-015
Lockout Slide, Blue Sea ..02-038
Locks
Cable.....16-032
Coupler.....16-031, 032
Door .....04-058 to 060
Glove Box.....04-063
Outboard Motor 09-070
Padlock 16-032
Propeller.....09-070
Sliding Window.....04-065
Stern Drive Motor 09-070
Trailer 16-031, 032
Wheel.....16-032
Log Books 12-051
Log Staples 14-017
Loom, Split 02-127, 128
Loops, Vented 10-049
Loos Nicopress Sleeves..13-017
Lounge Seats 15-005
Louvered Vents ..04-035 to 04-038
Lower Unit Lube 06-024, 025
Lubricant
Grease .....06-021 to 023
Lower Unit 06-024, 025
Prolan.....06-022
SailKote, McLube 06-022
Shaft.....09-049
Spray.....06-020 to 022
Winch Grease 13-078
Zipper.....06-023
Lugs, Battery .....02-088 to 091
Lume-On Inflatable Vest
Illuminator.....12-034
Lunasea
Berth Lights.....01-024
Bulb Adapter Bases.....01-049
Bulbs .....01-039 to 042, 049
Chart Lights.....01-026
Courtesy Lights 01-027
Dimmers..... 02-011
Dome Lights.....01-019 to 021
Engine Room Lights.....01-023
Floodlights.....01-034
Fluorescent Bulb 01-049
Light Bars.....01-023
Light Voltage Converter ...01-029
Navigation Bulbs 01-040
Navigation Lights.....01-005
RGBW Controller 01-028
Spreader Light.....01-035
Strip Lights 01-028
Water Safety Device.....12-019

M

Macerator Pumps 11-016
Machine Screws 18-008
Maddox
Anodes 06-071
Electrolysis Blocker 03-131
Shaft Straps 03-131
Maffioli
Racing Lines 14-004
Whipping Twine 14-010
Magma
BBQs 05-016, 018
BBQ Mounts ..... 05-017 to 019
Carry Case 05-019, 021
Cookware 05-020, 021
Grill Covers 05-020
Grilling Tools 05-021
Kayak Racks 17-004
Tables 05-022
Umbrellas 05-021
Magnet, Retrieval 17-045
Maintenance Chapter .....
..... 06-001 to 071
Maintenance Logs 12-051
Man Overboard
ACR 12-017
Fell MOB+ 12-019
Light ..... 12-013 to 015
Lunasea Device 12-019
Ocean Signal ..... 12-015 to 019
Manifolds
EMP 09-071, 072
Exhaust Elbows 09-077, 078
Exhaust Gaskets 09-079
HGE ..... 09-075 to 077
Mounting Kits 09-079, 080
Sierra 09-071, 072
Manuals, Engine Repair .. 09-047
Marco
Transfer Pumps 11-055, 056
Washdown Pump Kit 11-036
Water Pumps 11-028
Marelon
Deck Fills 04-017
Drain Plugs 10-021
Hose Fittings 10-025, 026
Intake Strainers 10-018
Scoop Strainers 10-018
Sink Drains 11-020
Thru-Hulls 10-015
Valves 10-045
Vented Loops 10-049
Well Drains 10-022
Y-Valve 10-047
Marelube 06-021, 022
Maretron 03-045, 048, 055
Marinco
Battery Terminals 02-087
Breaker Inlet Cover 02-085
Extension Cords ... 02-078, 085
Plugs, 12V 02-117, 118
Shorepower ..... 02-078 to 084
Spotlights 01-018
Swim Grid Brackets 04-030
Trolling/Charging Inlet .. 02-118
TV & Phone Connectors 02-085
USB Receptacle ... 02-120, 121
Vents 04-038, 039
Windshield Washer Kit ... 04-010
Wiper Switch & Control .. 02-004
Wipers & Motors . 04-006 to 008
Marine Atlases 12-050
Marine East
Bulkhead Fittings 10-017
Drains 10-016, 017
Drains, Tru-Hull 10-016, 017
Fire Ports 12-009
Hose Fittings 10-026, 027
Impact Cap 18-015
Sink Drains 11-020
Tank Vents 04-041
Marine Grip, Harken 04-031
Marine Hardware
Drink Holders 17-044
Generator Thru-Hull 09-087
Sea Strainers 10-018
Ski Tow Rings 17-006
Steering Wheels 08-049
Stuffing Boxes 09-056
Marine Technologies .. 12-003, 004
Marine Tex
BoatLIFE Repair Putty . 06-018
Marinedeck, Stazo 04-057
Martyr (Canada Metal)
Anodes ..... 06-060 to 070
Seaguard Zinc Spray ... 07-013
Masking
Carpet Mask 07-035, 036
Tape 07-036, 037
Masks & Respirators .. 07-048, 049
Mast
Booting, Spartite 13-042
Floats 12-034
MasterFlush Toilets .. 11-005, 006
Mastervolt
Battery Chargers .. 03-109, 110
Battery Mate 03-128
Battery Monitor 03-107, 126
Converters 03-126
Easy View 5 03-125
Inverter/Chargers 03-125
Isolation Transformer ... 03-130
Remotes & Monitors 03-125
Solar Charge Regulator 03-116
Voltage Regulator 03-126
Masthead Lights 01-008, 009
Mat
Fibreglass 06-015
Floor 17-045
Matworks Door Mats 17-045
Maxwell
Breaker Panels 14-047
Foot Switches 14-047
Remote Panel 14-047
Rope/Chain 14-035
Solenoids 14-047
Windlass Remotes 14-046
Windlasses ..... 14-043 to 046
McGard Motor Locks 09-070
McLube 06-021, 022
Mecca Tank Vents 04-039
Medical Kits ..... 12-025 to 027
MegaPro
LED Worklights 01-037
Screwdrivers 18-018, 019
Megaware
Keelguard 16-036
Pontoon Guard 16-036
RockGARD 16-037
ScuffBuster 16-036
Skeg Guard 09-068
Meguiar's
Cleaners & Waxes .. 06-034, 035
Plastic Cleaner 06-042
Wash Mitt 06-052
MEKP Catalyst 06-014
Metal Polish ..... 06-041 to 043
Meters ..... 03-101 to 104
Methyl Hydrate 07-028
Mibro Line Snap 13-028
Micro Commander 08-002
Microfibre
Cloths 06-051
Mop 06-050
Microphone Clips 03-084
Microspheres, Glass 06-020
Mildew
Cleaners ..... 06-031 to 033,
..... 037, 038, 040, 041
Control Bags 05-033
Millboard 09-003
Mirka
Abrasives 07-040
Backing Pads 07-046
Dust Extractor Kit 07-038
Orbital Sander 07-038
Pad Adapter 06-044
Polishing Compounds .. 06-035
Polishing Kit 06-035
Polishing Pads 06-044
Mirrors, Boat & Ski 17-005
Mixing
Pots & Sticks 06-020
Two-Cycle Oil 06-024, 026

MMC Controls 08-002
Mobile Dust Extractor
Mirka 07-038
Mobri Radar Reflectors ...12-020
Modus Vents.....04-039
Moeller
Battery Boxes & Trays.....
.....02-133, 134
Battery Box Handle 02-134
Battery Switch 02-028
Brass Valves 10-047
Conversion Capsules ...03-004
Fuel Drainage Bowl.....09-021
Fuel Fittings.....09-008
Fuel Fittings.....
.....09-008, 009, 012, 013
Fuel Gauge 03-004
Fuel Line Assemblies ...09-009
Fuel Tank Sender 09-007
Fuel Tanks.....09-006
Gas Tank Hold Down ...09-005
Holding Tanks..... 11-014
Lower Unit Pump.....06-023
Motor Flushers 09-033
Shut-Off Valve 10-047
Siphon Hose Pump 11-056
Spray Paint.....07-029
Transom Pad.....08-041
Water Tank 11-025
Monitoring & Security
BRNKL 03-095
Monitors
Battery.....03-101 to 107
Hatteland.....03-061
Holding Tank ..... 11-016 to 018
MoorFast by RWO.....14-048
Mooring
Arms.....14-028
Buoys 14-020
Chafe Guards.....14-016
Hooks.....14-048
Line .....14-014 to 016
Snubbers.....14-016, 017
Whips 14-028
Mops.....06-050
Mortise Lock Sets.....04-058
Motion Activated Lights
Dock Edge.....14-031
Motion Sensor Switch..... 02-011
Motor
Brackets .....08-039 to 042
Carrier 16-034
Covers.....16-012
Flushers 09-033
Lifters .....08-039 to 042
Locks.....09-070
Repair Manuals.....09-047
Supports.....16-033
Well Boots 08-047
Mount
Adapters.....17-029 to 031
Downrigger.....17-034, 035
MSR Heaters.....05-038, 039
Muffler
Centek.....09-085
Tape 09-048
Vetus 09-082, 083
Multimeter
Blue Sea.....03-101, 102
CDI 09-046
Newmar 03-102
Multi-Mount, Panther 17-038
Multi-Tool, Sea-Dog.....18-017
Mushroom Vents 04-038, 039
Mustang
Inflatables Chart.....12-044
Life Jackets .....12-037 to 039

N

N.U.C. Shapes 12-020
Nalco Blocks.....13-045
Name Plates.....02-040
Nanuk Cases.....12-027
Nash Labels 13-042
Navigation
Books 12-050
Charts.....03-031, 046, 047
Lights.....01-002 to 014
Tools.....12-050
Needles, Sail 14-011
Net, Landing 17-040
Network Port Expanders
BlueNet 30 Gateway 03-036
Furuno.....03-043
Garmin 03-036
Raymarine.....03-024
Newmar
Battery Chargers 03-110
Battery Integrators.....03-130
Bus Bar 02-060
Digital Monitors 03-102
Electrical Enclosure..... 02-112
Fuse Block 02-043
Galvanic Isolator 03-131
Ground Strap.....03-130
Intercom 03-084
Noise Filter 03-130
Ship-Shore, Switch.....02-029
StartGuard.....03-127
NGK Spark Plugs 09-044
Nicopress Sleeves.....13-017
Night Vision Cameras
FLIR Thermal Imaging... 03-024
Raymarine.....03-024, 025
Sionyx ..... 03-011 to 013
NMEA 2000
Cables & Connectors .....
..03-022, 036, 044, 054 to 061
Data Converters .....
.....03-049 to 052, 059, 060
Noflex Digestor, Zaal 11-019
Noise Barrier 09-003
Non-Return Valve 11-053
Non-Skid
Awlgrip 07-013
Camco Slip Stop 17-044
Deck Traction Wax..06-033, 038
Edge Sealer 04-032
Epifanes 07-014
Griptex.....07-013
Harken Marine Grip.....04-031
KiwiGrip.....07-014
Tape 04-031, 032
Nortek Alarm Panel 12-006
Note Books.....12-051
Nova Kool.....05-002 to 006
Novabraid
Nylon Brait.....14-008
Nylon Rope 14-007
Shock Cord 14-012
Yacht Braid Rope... 14-005, 006
Noz-All, Sealand..... 11-015
Nozzles
Fire / Fog.....12-009
Hose.....06-055
Numbers & Letters 16-037
Nuts
Barrel Nuts 18-012
Eye 13-036
Fasteners 18-010
Propeller.....09-069
Steering Wheel.....08-050
Thru-Hulls.....10-013
Nylon
Anchor Lines 14-016
Dock Lines 14-014, 015
Rope.....14-007, 008
Washers 18-011

O

Oakum..... 06-011
Oar
Collars & Locks 17-003
Oars 17-002, 003
Ocean Signal
AIS Alarm Box 12-018
Electronic Flare 12-015
EPIRB 12-017
MOB1 12-019
PLB 12-016
SART.....12-018

OceanLED
LED Light Controllers ... 01-030
Underwater Lights .. 01-029, 030
Octopus
Autopilot 03-062, 063
Steering Fluid 08-037
Odour Eliminators ... 05-032, 033, 06-032, 036, 056, 11-018, 019
Oil
Absorbent 09-032
Changers ..... 11-054 to 056
Extractors ..... 11-054 to 056
Filter Wrenches 09-033
Filters 09-031, 032
Fogging 06-029
Measures 09-017
Outboard Motor 06-024, 026
Pressure Gauge 03-002 to 007
Pressure Sender .. 03-008, 009
Pumps ..... 11-054 to 056
Storage 06-029
Teak 07-014, 015
Trim & Tilt Fluid 06-024
O'Keeffe's 06-043
Olfa Knife 18-016
One Drop, McLube 06-022
ORB Fittings 08-038
Organizers, Deck 13-057, 073
O-Rings 18-011
Osborne
Caulking Irons 18-017
Packing Extractors 09-049
Sail Palms 14-011
Sailmaker's Needles 14-011
Residue Remover 06-036
Outboard
Anodes ..... 06-060 to 070
Caddy 16-034
Connectors ..... 08-042 to 047
Covers 16-012
Flusher 09-033
Fuel Fittings ..... 09-009 to 015
Lifting System .... 08-039 to 042
Motor Bracket .... 08-039 to 042
Motor Lock 09-070
Motor Steering ... 08-012 to 039
Oil 06-024, 026
Paint 07-029
Repair Manual 09-047
Support ..... 08-039 to 042
Trolling Plates 08-063
Outlet, Water 10-048, 049

P

Packing
Box Hose 09-056
Hooks 09-049
Shaft 09-048, 049
Pad Eyes ..... 13-046, 037 to 041
Paddleboard
Safety Kit, Fox 40 12-012
Storage Racks 17-004
SUP 17-012
Paddles 17-002
Padlocks 16-032
Pads
Oil Sorbent 09-032
Polishing ..... 06-044 to 046
Sanding 07-045
Step 04-031
Pails, Collapsible 06-053
Paint
Abrasives ..... 07-040 to 045
Antifouling ..... 07-004 to 008
Applicators ..... 07-029 to 034
Brushes 07-032, 033
Engine 07-029
Non-Skid 07-013, 014
Primers 07-012, 013, 017
Rollers 07-033, 034
Spray 07-029
Spray Guns ..... 07-029 to 031
Strippers 07-028, 029
Tapes 07-036, 037
Topside & Interior 07-011, 012
Paint & Accessories Chapter ..... 07-001 to 049
Palm, Sailmakers 14-011
Panel
Electrical ..... 02-029 to 037
Labels 02-039, 040
Mounting Systems ..... 18-002 to 004
Panther
Electro Steer 08-042
Electronics Mounts 17-038
Happy Hooker 14-048
Motor Brackets 08-041
Motor Flushers 09-033
Multi-Mount 17-038
Oil Extractor 11-054
Outboard Motor Lock ... 09-070
Rope Cutters 14-011
Safe-Skeg 09-068
Steering Kits 08-042
Trailering Clips 16-034
Transom Saver 16-033
Trim & Tilt 08-041
Parachute, Rockets 12-012
Paragon, Tanks 11-030
Parallel Rule 12-050
Par-Max Pumps 11-026
Pawl Oil 13-078
Pedestal
Foot Rests 15-015
Seat ..... 15-009 to 014
Table ..... 15-015 to 017
Pela Oil Extractors 11-055
Pelican Hooks 13-012
Penetrating Oil 06-021
Perfect-It, 3M 06-040
Perko
Axe Bracket 12-009
Barrel Bolts 04-066
Battery Switches 02-026
Cabin Hooks 04-077, 078
Catches 04-062, 064, 065
Cleats 04-012, 013
Clips 04-078
Curtain Fasteners 18-004
Deck Fills 04-016, 017
Deck Pipes 04-015
Deck Plate Keys 04-019
Door Locks 04-058, 059
Door Stops 04-065
Drain Plug 10-021
Drains 10-017
Drawer Pull 04-070
Electrical Connectors ... 02-116
Fender Hooks 14-025
Flush Pro 09-033
Fog Horn 12-021
Foot Strainer 11-053
Fuel Surge Protector 09-019
Garboard Plug 10-021
Grab Rail Posts 04-023
Hasps 04-067
Hinges 04-075, 076
Hooks 04-077, 078
Life Ring Holder 12-010
Lifting Handle .. 04-059, 061, 062
Lights - Bulbs .. 01-044, 046, 047
Lights - Cabin 01-019, 027
Lights - Navigation ... 01-005 to 008, 011 to 014
Lights - Search 01-018
Lights - Sockets 01-049
Louvered Vents 04-035, 036
Masthead Light 01-013
Motor Flushers 09-033
Portlight Chain 04-048
Raw Water Strainer 10-019
Rigging Tube 08-048
Ring Pull 04-061, 062
Rod Holder 17-026
Safety Cord 04-019
Scuppers 10-012
Spring Clamps 04-078
Step Plates 04-031
Strainers 10-018, 019
Switches 02-002, 007
Table Fastener 04-068
Tank Vents . 04-039, 041, 09-019
Thru-Hulls 10-012, 016
Water Outlets & Inlets .. 10-048

Window Keeper.....04-068
Windshield Adjuster.....04-048
Permastik Foam Gasket..04-056
Personal Locator Beacons .....
.....12-016, 017
Petrolabs
Fuel Additives.....06-027, 028
PFD
Flotation Wear.....
.....12-029 to 032, 036 to 043
Lights.....12-014, 015, 034
Phase III Antennas 03-085
Phone Mounts .....
.....02-136, 137, 17-017, 039
Piano Hinge.....04-076
Pick-Ups 10-017, 018
Pico
Battery Post Cleaner 02-135
Battery Terminals 02-086
Booster Cables.....02-063
Cable Clamps.....02-126, 127
Cable Ties 02-123, 125
Connectors.....
.....02-091, 093 to 100, 104
Deutsch Connectors 02-099, 100
Electrical Tools 02-110, 111
Fuse Holders.....02-046, 047
Grommets 02-116
Heat Gun.....02-107
Heat Shrink 02-104, 106
Lugs 02-091
Primary Wire 02-070
Relay & Pigtail Kit.....02-024
Self-Bonding Tape.....02-136
Spiral Wrap 02-127
Test Clips.....02-108
Toggle Switch 02-007
Tools..... 02-107, 109 to 111
Wire Marker Tape.....02-106
PicQuic Screwdriver.....18-019
Pigment 06-014, 015
Pike Pole 14-049
Piling Light.....14-031
Pilkington Tow Hooks 13-033
Pilot Log Book 12-051
Pins
Clevis 18-014
Cotter 18-012
Fast Pins 18-014, 015
Hitch 18-013
Quick Release.....18-014
Safety.....18-013
Shear.....09-069
Pioneer Subwoofers.....03-072
Pipe
Fittings.....10-030 to 043
Lubricant 06-022
Pitot Tubes 03-010
Plastair
Hose & Enclosures.....06-054
Plastic Cleaners & Polish .....
.....06-038, 040 to 042
Plates
Camco.....17-044
Deck.....04-041 to 043
Name.....02-040
Playing Cards 17-045
PLB
ACR.....12-016, 017
Ocean Signal.....12-016
Plotter Tool.....12-050
Plow Anchors.....14-032, 033
Plug
Cutter 18-019
Drain 10-021, 022, 11-020, 021
Electrical.....02-075 to 084
Thru-Hull Bungs 12-009
Wood Deck Plugs.....18-016
Plumbing & Fittings Chapter.....
.....10-002 to 049
Pole Light Bases 01-015
Poles
Boat Cover 16-013
Boat Hook 14-049
Flag 04-032, 033
Pike 14-049
Polishers & Pads ..06-044 to 047
Polishing Compounds 06-035, 040
Polyester Resin 06-014
Poly-Foam 06-014
Polyform
Fender Covers 14-024
Fender Holders 14-023
Fenders 14-021, 022
Ink 14-022
Mooring Buoys 14-020
Pumps & Spare Plugs ..14-022
Polypropylene Rope.. 14-008, 009
Polysteel Rope 14-009
Poly-Tak Carpet Mask 07-035
Polyurethane Paint .. 07-011, 012
Pontoon
Fenders 14-023
Guard, Megaware 16-036
Horn 12-023
Ladders 04-030
Rail Hanger 14-025
Railblaza Rail Mount 17-019
Storage Blocks 16-033
Trailer Guides.....16-028
Pool
Floats & Loungers 17-010, 011
Pop Rivets 18-012
Portable
Fishing Kit 03-027
GPS.....03-036
Navigation Lights.....01-016
Portable Toilets
Camco Bucket Kit..... 11-006
Dockedge 11-006
Porta-Pottie, Sealand ... 11-007
Portlight
Chain.....04-048
Portlights 04-046, 047
Ports
Fire 12-009
Inspection.....04-041 to 043
Pot Pullers 17-037
Pots & Pans.....05-020, 021
Pouches, Chart.....12-051
Power Assist Steering .....
.....08-016, 039
Power Posts .....02-061 to 063
Power Sockets ..... 02-117 to 122
Pow-R-Surge Batteries....02-130
Powrtran
Kicker System 08-047
Jack Plates.....08-040
Smart Control Kit.....08-040
Pressure
Gauges.....03-002 to 007
Regulators.....10-048
Storage Tanks 11-030, 031
Water System.... 11-026 to 031
Preval Paint Sprayer 07-029
Primer Bulbs.....09-017
Pro Installer Products
BEP 02-057, 058
Proheat Furnace.....05-036, 037
Prolan
Anti-Seize Grease 06-022
Corrosion Protection 06-022
Lubricants.....06-022
ProMariner
AC Plug Holder 02-085
Battery Chargers 03-111
Battery Isolators 03-128
Battery Maintainer 03-111
Battery Tester 02-135
Charge Status Remote. 03-112
DC Cable Extenders 03-110
Galvanic Isolator 03-131
Propane
BBQs....05-016, 018, 024, 025
Cylinders 05-027
Detectors...05-029, 12-002, 003
Fittings & Hoses .....
.....05-023, 026 to 029
Gauges.....05-026
Heaters.....05-044
Lockers.....05-027
Solenoid Valve 12-006
Stoves .....05-010 to 014
Tanks.....05-027
Tape 05-027

Propeller
Anodes 06-066, 070
Locks 09-070
Nuts & Shear Pins 09-069
Propspeed Coating 07-010
Safety Guard 09-068
Thruster 08-054
Turning Point ..... 09-058 to 067
Wrenches 09-069
Propspeed
Application Kit 07-010
Foulfree 07-010
Lightspeed 07-010
Propspeed Coating 07-010
Stripspeed 07-010
Protocol
Debond 07-029
Defoul 07-029
Xtreme Deep Clean 06-036
Xtreme Washdown 06-036
PSS
Flow Indicator 09-056
Hy-Vent 09-056
Maintenance Kits 09-055
Shaft Retention Collars 09-056
Shaft Seals 09-054, 055
Pulleys
Tiller Rope 08-047
Pulls
Drawer 04-070
Flush/Ring 04-061, 062
Pumps
Aerator 11-038
Air 17-012, 015
Bait Tank 11-038
Ballast 11-038
Bilge, Electric ..... 11-031 to 034
Bilge, Hand ..... 11-051 to 054
Centrifugal ..... 11-044 to 046
Circulating 11-044
Cordless 11-034
Discharge/Macerator .....
..... 11-015, 016
Drill 11-054
Engine Cooling 11-046, 047
Fuel Transfer .....
..... 11-041, 044, 045, 056, 057
Impeller 11-042, 043
Livewell 11-038
Macerator 11-016
Oil Change ..... 11-054 to 056
Polyform 14-022
Reverso Parts 11-056
Shower Drain . 11-024, 039, 040
Tera Pumps 11-056
VacuFlush 11-003, 004
Vane 11-041
Washdown 11-036, 037
Water Puppy 11-042
Water System ..... 11-026 to 031
Pup Planks Dog Ramps .. 17-011
Purifiers 05-009
Push
Button Switches ... 02-002, 003
Pull Switches 02-005, 006
Putty
3M 06-019
BoatLIFE 06-018
Eco Marine 06-018
Knives 18-017, 018
Star brite 06-018
System Three 06-018, 019
Pylon Light 12-034
Pylons, Ski 17-006
Pyrotechnics 12-012, 013

Q

Queaz-Away Wristbands . 12-027
Quessy Oars 17-003
Quick
Connect Antenna 03-085
Fist 04-079, 14-013, 12-009
Links 13-027
Reference Cards 12-050
Quiet Flush Toilets ... 11-009, 011

R

RAB Lights 01-034, 037
Rabud
Deck Plate 04-042
Hatches 04-044
Scupper 10-012
Rack & Pinion Steering ... 08-015
Racks
Binocular 17-023, 041
Kayak 17-004
Rod Storage 17-024, 025
Racor
Filter Wrench 09-033
Fuel Filters ..... 09-023 to 031
Fuel/Air Separator 09-019
Funnels 09-017
Shut-Off Valve 10-046
SNAPP Filter 09-026
Vacuum Gauges 09-030
Water Detection Kit 09-031
Radar
Furuno 03-040, 041
Garmin 03-033
Mounts ..... 03-096 to 098, 100
Raymarine 03-021
Reflectors 12-020
Radios
CB 03-084
VHF ..... 03-079 to 084
Rafting Buddy 14-028
Rafting Dogs 14-017
Rags 06-052, 053
Rail
Antenna Bases 03-094, 095
Fittings ..... 04-020 to 023
Handrails 04-024
Mount Cleats 13-051
Rail Mount Clamps 04-023
Railblaza
Grab Handles 04-024
Lights - Navigation 01-016
Mounts & Accessories .....
..... 17-019 to 025
Rain-X 06-041
Ranges ..... 05-010 to 014
Rapid Coat, Epifanes 07-016
Raymarine ..... 03-017 to 025
Rayovac
Batteries 02-135
Flashlights 01-037
Ready Rod 18-012
Re-Arm Kits, Inflatables ... 12-046
Red Dot Heaters 05-041
Redtree Paint Brushes .....
..... 07-032, 033
Reef Hook 06-011
Reference Cards 12-050
Reflective Tape 12-010
Reflex Furling 13-081
Refrigeration
Copper Tubing 10-036
Refrigerators ..... 05-002 to 008
Regulators
ARCO 03-105
Balmar 03-106
Propane ..... 05-023, 025 to 028
Water Pressure 10-048
Release Pins 18-014
RELiON Batteries 02-133
Repair Kits
Downriggers 17-033
Epoxy ..... 06-015 to 019
Inflatables 06-012, 17-012
Repair Manuals 09-047
Rescue Equipment 12-010 to 022
Rescue Tape 02-136
Resin
Epoxy ..... 06-015 to 020
Fibreglass 06-014, 015
System Three ..... 06-015 to 020
Vinylester 06-019
Face Respirator 07-048, 049
Filters 07-048, 049
Retrieval Magnet 17-045
Reverse Osmosis Parts ... 05-010
Reverso
Block Assembly 11-056
Pump Parts 11-056

RGB Light Controllers 01-028
Richard Putty Knives.. 18-017, 018
Rigging
Battcar.....13-085
Eye Bolts.....13-035, 036
Flanges 08-048
Furlers.....13-081, 082
Harken.....13-059 to 089
Knives 18-016
Pad Eyes.....13-037 to 041
Shackles & Swivels.....
.....13-018 to 026
Snaps & Hooks .13-028 to 034
Tape 13-042
Toggles.....
..13-005, 006, 008, 011 to 014
Travelers 13-083, 084
Tube 08-048
Winches 13-079, 080
Wire.....13-017
Rigging & Hardware Chapter .....
.....13-001 to 091
Rig-Sense
Tension Gauges 13-057
Ring
Buoys & Holders 12-010
Keyrings 17-045
Pliers 18-017
Pulls 04-061, 062
Welded Rings.....13-036, 037
Ritchie
Compasses .....12-047 to 049
Rivet
Gun 18-017
Rivets 18-012
Robco
Millboard.....09-003
Packing 09-048
Thermofab Tape 09-048
Roca Industry
Deck Fills.....04-016
Wiper Motor Controls .....
.....04-002, 003
Wipers & Motors...04-002, 003
Rockford Fosgate
Stereo Systems... 03-074 to 078
RockGARD
Hull Protection.....16-037
Quietite Ball Mount.....16-029
Rocna Anchors.....14-032
Rod Holders .....17-024 to 031
Rod, Threaded.....18-012
Rodes, Rope/Chain 14-035
Roller
Anchor.....14-037 to 041
Catches.....04-064
Fibreglass.....06-015
Foam, Paint.....07-033, 034
Frame, Paint.....07-033, 034
Refills 07-034
Trailer 16-023
Wheels, Kingston 14-037
Rope
Anchor Lines 14-016
Canada Cordage..14-008, 009
Chafe Guards.....14-016
Clutches 13-052, 054, 055
Cutter 14-011
Dock Lines 14-014, 015
Fender Lines 14-024
Fids 14-011
Floatline.....14-005, 008, 009
Heaving Line 12-011
Jammers 13-055
Ladder 04-028
Nylon 14-007, 008
Polypropylene 14-008, 009
Polysteel.....14-009
Rope Cleaner 06-051
Rope/Chain 14-035
Running Rigging14-002 to 006
Sailing .....14-002 to 006
Ski Tow.....17-013, 014
Splicing Service.....14-007
Thimbles.....13-015, 016
Twine.....14-010
Whipping 14-010
Yacht Braid.....14-002 to 006
Rope & Mooring Chapter.....
.....14-001 to 049
Rot Fix, System Three.....06-018
Rotary Steering 08-013, 014
Rub Rails
Taco.....04-053 to 055
Tessilmare 04-052
Rub Strip, KeelGuard 16-036
Rubber Gloves 07-047
Rudder Bearings 09-053
Rudder, Stuffing Box.....09-056
Rug Cleaner 06-031, 032, 039
Rule
Aerator Head.....11-038
Baitwell Pump 11-038
Bilge Alarm 11-035
Bilge Blower 04-034
Bilge Pumps..... 11-032 to 034
Float Switches.....11-035
High Speed Inflator 17-015
Hose Adaptors.....11-034
In-Line Pumps.....11-034
Panel Switches.....11-036
Shower Drain Systems. 11-040
Thru-Hull Connector.....10-016
Washdown Pump 11-036
Rust Converters
Blue Steel.....06-042
WashSafe.....06-041
Rust Protection Bags.....06-022
Rust Stain Remover
Star brite.....06-038
WashSafe.....06-041
RWO, MoorFast.....14-048

S

S5 Corbin Seats 15-002
Safety
Chain.....16-027
Compasses .....12-047 to 049
Edge Sealer 04-032
First Aid Kits .....12-025 to 027
Flotation Wear.....
.....12-029 to 032, 036 to 043
Glasses 07-047
Kits 12-011, 012
Lines, Spinlock.....12-035
Pin, Stainless 18-013
Scotty Kits 12-011
Seacocks.....10-044
Signaling Devices. 12-012 to 019
Walk 04-032
Safety & Navigation Chapter .....
.....12-001 to 051
Safety Gear Bag.....12-012
Sail
Chafe Protector.....13-045
Cleaner.....06-041
Furling 13-081, 082
Gloves 13-058
Guards 13-045
Needles 14-011
Palms 14-011
Repair Tape.....13-042
Track Stop 13-045
Twine.....14-010
Sailboat
Blocks.....13-059 to 072
Fuel 06-042
Winches 13-079, 080
Sailing Specialties
Toilet Paper Holder..... 11-019
Sailkote, McLube.....06-022
Salt Removal 06-029
Salt-Away 06-029
Samlex
Converters.....03-127
Inverter/Chargers 03-119
Inverter Install Kit 03-118
Samson
Accessory Cord.....14-010
Anchor Lines 14-016
Floatline.....14-009
Nylon Rope 14-007
Pro-Set 3-Strand 14-008
Splice Kit 14-011
Yacht Braid.....14-002, 003

Sanding
Abrasive Discs ..07-040 to 045
Backing Pads 07-046
Blocks & Boards...07-045, 046
Festool Sanders ...07-037, 038
Filter Bag.....07-046
Mirka Sanders.....07-038
Sanding Discs ...07-040 to 044
Sandpaper.....07-040 to 045
Sponges.....07-045
Sani Pottie 11-006
Sanitation
Hose.....10-004, 005
Hose Fittings .....10-024 to 027
Systems ..... 11-002 to 019
SART Transponders
ACR.....12-018
Ocean Signal.....12-018
Satellite
Compasses 03-036, 043
Radio Antenna.....03-090
Scandvik
Dome Lights 01-021
Engine Room Lights.....
.....01-023, 024
Faucets & Showers.....
..... 11-021 to 023
Scanstrut
Antenna Mount.....03-100
ATMOS Air Station 17-016
Cable & Wire Seals.....
..... 02-112 to 115
Electronics Mounts . 17-017, 018
Phone Chargers ...02-136, 137
Radar Mounts.....03-099, 100
Solar Connections..... 03-117
Starlink Mounts 03-099
TV Connector 02-085
USB Charger.....02-120 to 122
Scepter
Fuel Tanks.....09-004, 005
Fuel Line Assemblies ...09-010
Gas Cans 09-004
Gas Tank Strap 09-005
In-Line Fuel Filter 09-023
Jerry Cans.....09-004
Motor Flushers 09-033
Primer Bulbs.....09-017
Water Can 09-004
Schooner Varnish 07-017
Scissors.....18-016
Scoop Strainers.....10-017, 018
Scoot-Guard 17-044
Scotch Brite Pads.....07-045
Scotch Gard, 3M 06-040
Scotty
Anchor Kit.....14-035
Anchor Locks 14-041
Bait Jar 17-040
Cannonballs & Holders 17-035
Downrigger Repair Kit ..17-033
Downriggers .....17-031 to 033
Drink Holders 17-042
Electronics Mounts.....
.....17-037 to 039
Fender Holder 14-025
Fog Nozzle 12-009
Hand Pumps 11-054
Knife Sharpener 18-016
Leash 17-004
Lifeline Throw Bag 12-011
Oarlocks 17-003
Paddle Clips 17-002
Pot Puller.....17-037
Rod Holder .....17-027 to 029
Safety Kit..... 12-011
Seeker.....17-031
Tarp Clip 14-012
Trap-Eze.....17-037
Water Tight Container ..12-012
Whistle 12-021
Scrapers 18-017, 018
Screwdrivers
Drivers & Bits 18-018, 019
Insulated Drivers 02-107
Screws
Machine.....18-008
Set..... 18-011
Scrub
Brushes .....06-046 to 050
Pads.....06-051
Scrub-All, Boatlife.....07-045
Scuff Pads.....07-045
Sculpwood.....06-019
Scuppers 10-012
SE Sport Hydrofoils 08-063
Sea Anchors 12-009
Sea Sickness Band 12-027
Sea Strainers.....
.....10-018 to 020, 11-041
Sea-B-Que BBQ.....05-025
Seacocks.....10-044 to 046
Sea-Dog
Anchor Chocks.....14-041
Anchor Roller 14-039
Anchor Swivels.....14-037
Antenna Bases..03-093 to 095
Ashtray 17-044
Barrel Bolts.....04-066
Battery Straps 02-135
Battery Switch 02-028
Battery Terminal 02-086
Bilge Pump Switch 11-036
Bimini Strap.....04-025
Boat Hook Bracket 04-079
Boat Hooks.....14-049
Bow Eyes 13-041
Bow Roller.....14-039
Bow Socket 16-012, 013
Bucket of Brushes 06-047
Bungee Dock Lines 14-017
Cabin Hooks.04-069, 077, 078
Cable Outlets 02-116
Canvas Scissors 18-016
Catches 04-064, 065
Chafe Kit 14-016
Chain Stopper 14-041
Chocks 04-015
Cigarette Lighter..... 02-117
Circuit Breakers....02-053, 054
Cleats ..... 04-011 to 014
Coat Hooks 04-077, 078
Coaxial Connectors. 03-092, 093
Coho Fish Cleaner 17-040
Collector Box.....04-034
Coupler Lock 16-031
Cutters.....18-016
Deck Fill Hose Lock 06-055
Deck Fills.....04-017, 018
Deck Pipes 04-015
Deck Plate Keys.....04-019
Deck Plates .....04-041 to 043
Deck Step.....04-031
Dimmer Switch 02-011
Dock Cleats.....14-029
Drain Plugs.....10-021, 022
Drawer Pull.....04-070
Drink Holders 17-042, 043
Dripper Guard 10-015
Electrical Connectors ... 02-117
Emergency Deck Plug..04-018
Engine Control 08-003
Eye Bolts 13-035, 036
Eye Straps.....13-037, 038
Fairleads 13-041
Fan 05-031
Fast Pins 18-014
Faucet 11-022
Faucets, Washdown.....10-049
Fender Adjusters 14-025
Flag Poles 04-032, 033
Folding Steps 04-031
Foot Switch 14-047
Fuse Holders.....
.....02-042, 043, 045 to 047
Fuses 02-050, 051
Galley Foot Pump 11-025
Garboard Plug.....10-021
Gas Springs 04-051
Gauge Adapter Plates..03-010
Handheld Flood Light ...01-034
Handles 04-070
Handrails 04-024
Hasps 04-067, 068
Hatch Lift Pin.....04-061
Hatch Supports .....
.....04-048, 049, 051

Hatches 04-043, 044
Hawse Pipes 04-015
Heaters 05-033
Hinges ..... 04-071 to 076
Hooks 04-077, 078
Horns ..... 12-022 to 024
Hull Scraper 06-050
Ignition Switches .. 02-012, 013
Impeller Pullers 11-048
Kayak Foot Braces 17-039
Kill Switch 02-014, 12-019
Ladder Locks 04-030
Ladders 04-028
Latches 04-062, 063
Life Ring Bracket 12-010
Lift Handle 04-070
Lift Rings 04-061
Lights - Bulbs .....
.....01-043 to 047, 049,
Lights - Cabin 01-021, 022
Lights - Chart 01-026
Lights - Docking 01-035
Lights - Flood 01-034, 035
Lights - Navigation .. 01-008, 009
Lights - Pole 01-014
Lights - Pop-Up 01-025
Lights - Spreader 01-035
Lights - Under Cabinet ... 01-022
Masthead Light 01-009
Microphone Clip 03-084
Motion Sensor Switch .. 02-011
Motor Flusher 09-033
Motor Well Boots 08-047
Multi-Tool 18-017
Oar Locks 17-003
OB Motor Bracket 08-042
Oil Measure Bottle 09-017
Pad Eyes ..... 13-037 to 041
Pelican Hooks 13-012
Pole Sockets 04-032, 033
Prop Wrench 09-069
Pulls, Handles 04-070
Quick Links 13-027
Radar Reflectors 12-020
Rail Fittings ..... 04-020 to 022
Rail Mount Clamps 04-023
RGB Controller 01-028
Ring Pulls 04-061
Rings 13-036, 037
Rod Holder ..... 17-025 to 027
Rope Cutter 14-011
Rub Strakes 04-051
Scissors 18-016
Scupper 10-012
Shackles 13-019, 021
Ship's Bells 12-021
Shock Cords 14-012
S-Hooks 13-034
Sink Drains 11-021
Ski Tow Ring 17-006
Snaps ..... 13-028 to 032
Snubbers 14-016, 017
Stand-Off Brackets 03-093
Steering Wheels 08-049
Step/Handle 04-031
Suction Cup Handle 04-024
Switches .....
02-002 to 005, 007, 009 to 013
Swivels 13-026
Table Brackets 15-017
Tables 17-040
Tank Vents 04-040
Thimbles 13-016
Thru-Hulls 10-012, 015
Tiller Pulley 08-047
Toaster 05-015
Top Fittings ..... 04-024 to 027
Turnbuckles 13-015
USB Chargers .....
.....02-120 to 122, 03-104
Vents .....04-035 to 04-038
Volt Meters 03-103, 104
Water Inlets & Outlets .. 10-048
Whipping Twine 14-010
Whistles 12-021
Winch Handle 13-090
Window Adjuster .. 04-048, 049
Windshield Washer Kit . 04-010
Windshield Wipers 04-009
Wiper Control 02-004
Wire Cover 02-116
Wire Rope Clips 13-015
Wrench 18-017
Sea-Dog Cordage
Anchor Lines 14-016
Dock Lines 14-014
Fender Lines 14-024
Whipping Twine 14-010
Sealand / Dometic
Ball Valve 10-045
Check Valve 10-047
Discharge Pump 11-015
Gravity Toilet 11-006
Holding Tanks 11-013, 014
Hose Fittings 10-024
MasterFlush 11-005, 006
Noz-All Adapters 11-015
Sani Potti 11-007
Sanitation Hose 10-004
Sealand Toilets .. 11-002 to 007
Tank Monitors 11-016, 017
Tank Treatment 11-018
Tank Vent Filter 11-018
VacuFlush ..... 11-002 to 004
Sealants
3M 06-010
BoatLIFE 06-003
Epoxy ..... 06-015 to 020
Penetrating 06-011
Sikaflex 06-006, 007
Seals
Cable ..... 02-112 to 116
Holding Tank 11-015
Seam Sander 06-011
Seam Sealers 04-032, 06-010
Search & Rescue Transponders
ACR 12-018
Ocean Signal 12-018
Searchlights 01-017, 018
SeaStar / Dometic
BayStar Steering .. 08-019, 020
Capilano Steering . 08-034, 035
Connection Kits . 08-009 to 011
Control Cables .. 08-006 to 008
Controls ..... 08-003 to 005
Fittings 08-038
Hydraulic Steering .....
.....08-018 to 039
Jack Plates 08-039
Kicker Tie Bar Kits 08-036
Mechanical Steering .....
.....08-012 to 017
ORB Fittings 08-038
Power Assist Steering .....
.....08-016, 039
Power Purge Jr 08-036
Steering ..... 08-012 to 039
Steering Cables . 08-012 to 016
Steering Wheels 08-049
Seat
Armrests 15-003
Bases ..... 15-006 to 014
Foot Rests/Steps 15-015
Seats ..... 15-002 to 005
Shock Absorbers 15-006
SeaTech
Flex Pipe 10-029
Ice Maker Tube 10-029
Poly Tube Cutter 10-029
Quick Connect Fittings .....
.....10-030 to 032
Seating Chapter ... 15-001 to 017
Seaview
Cable Seals 02-115
Mounts ..... 03-096 to 099
Pole Lights 01-014
Security & Monitoring
BRNKL Accessories 03-095
Seizing Wire 18-015
Self-Fusing Tape 06-012
Seloc Manuals 09-047
Senders, Fuel 09-007
Sensors, Fume ..... 12-002 to 004
Sensors/Senders
Oil Pressure 03-008, 009
Speedometer 03-008, 009
Temperature 03-008, 009

Set Screws 18-011
Sextant 12-050
Shackles
Blue Wave 13-020
Galvanized 13-018, 019
Gloma 13-022, 023
Harken 13-021, 022
Sea-Dog ..... 13-019 to 021
Shackle Guards 13-045
Snap 13-032, 033
Stainless Steel .. 13-019 to 025
Titan 13-018
Wichard 13-024, 025
Shaft
Bearing 09-053, 057
Packing 09-048, 049
Retention Collars 09-056
Seals 09-051, 052, 055, 056
Stuffing Box 09-056
Shaft Grounding Systems .....
..... 03-130, 131
Shaft Seals
Lasdrop 09-056
PSS 09-054, 055
Tides Marine 09-051, 052
Shaft Wiper Assemblies
Electro-Guard 03-131
Shakespeare
AIS Antenna . 03-085, 086, 089
AM/FM 03-086, 087, 089
Bases ..... 03-093 to 095
Cable Outlet 02-116
Classic 03-087
Coax Connectors 03-092
Extensions 03-093
Galaxy Antennas .. 03-086, 087
Hailers 03-084
Quick Connect Antennas . 03-085
Sirius 03-090
SSB 03-087
Stand-Off Brackets 03-093
TV 03-089
VHF Antennas ... 03-085 to 089
Wi-Fi Boosters 03-091
Sharpener, Knife 18-016
Sharpshooter, 3M 06-039
Shear Pins 09-069
Shelf Brackets 04-078
Shields Hose
Exoflex 10-006
Hose Connectors 10-025
Ships
Bell 12-021
Scraper 18-017
Ship-Shore Switch 02-029
Shock Absorbers
Seat Suspension 15-006
Shock Cord 14-012, 013
Shockles 14-017
Shockwave
Seat Suspension 15-006
Seats 15-002
Shoe Covers 07-047
S-Hooks 13-034
Shore Power
Cable Holder & Clips 02-085
Camco 02-084
Cords ..... 02-075 to 084
Marinco ..... 02-078 to 084
Smart Plug ..... 02-075 to 077
Shower
Fixtures ..... 11-022 to 025
Systems & Pumps 11-039, 040
Shrink, Heat
Connectors ..... 02-100 to 104
Shrinktek, Heat Shrink . 02-106
Tube ..... 02-104 to 106
Shunts
Blue Sea Systems 03-103
Mastervolt 03-126
Victron 03-107, 123
Shurflo
Accumulator Tank. 11-030, 031
Bait & Washdown 11-038
Ballast Pump 11-038
Check Valve 10-048
Oil Change Pump 11-056
Pressure Regulator 10-048
Raw Water Strainer 11-041
Water Pumps 11-029, 030
Shurhold
Boat Hook 06-049
Bronze Wool 07-045
Brushes ..... 06-046 to 050
Buff Magic Pads 06-046
Camera Adapter 17-039
Cleaner & Wax 06-036
Dock-A-Reni 14-049
Hose Strap 06-055
Nozzle 06-055
Pad Cleaner 06-046
Polisher Kit 06-046
Polishing Pads 06-046
Rope Cleaner 06-051
Rotary Polishers 06-046
Snap Stick 06-023
Squeegee 06-050
Wash Mitt 06-052
Shurtape
Duct Tape 06-013
Electrical Tape 02-136
Heat Shrink Tape 16-011
Masking Tapes 07-036
Waterproof Repair 06-013
Shut-Off Valves .....
..... 10-043, 044, 046, 047
Sierra
Alternators 09-042
Bearing Removal Tool .. 09-039
Bellows 09-037
Bus Bar 02-060, 061
Cable Tools 09-034
Cam Lock, Keyed 04-060
Circuit Breakers 02-054
Cut-Off Switches 02-014
Disposable Funnel 09-017
Drain Plugs & Washers.. 09-038
Engine Parts ..... 09-036 to 043
Engine Tools 09-034
Engine Warning 12-004
Exhaust Flappers 09-087
Fault Finder 02-108
Fogging Oil 06-029
Fuel Additives 06-027
Fuel Filters ..... 09-020 to 023
Fuel Hose 09-017
Fuel Injector Analyzer ... 09-034
Fuel Injector Cleaner 06-027
Fuel Injector Cleaning Kit .....
..... 09-023
Fuel Line Assemblies ... 09-011
Fuel Line Fittings .....
..... 09-011, 015, 016
Fuel Pumps 09-036
Fuel Sender 09-007
Fuel Stabilizer 06-027
Fuse Holders .. 02-042, 046, 047
Fuse Test Kit 02-108
Fuses 02-050, 051
Generator Parts 09-035, 036
Glove Box Lock 04-063
Grease Filler Adaptor ... 09-034
Hose Clamps 10-010
Ignition Analyzer 09-034
Ignition Switches .. 02-012 to 014
Impellers .. 09-036, 039, 11-048
Indicator Lights 02-038
Motor Flusher 09-033
Oil Drain Kit 11-054
Oil Filters 09-032
Oil Pumps 06-023, 024
Oils & Lubricants .. 06-025, 026
Primer Bulbs 09-017
Prop Wrench 09-069
Push-Pull Switches 02-005
Racor Style Filters 09-022
Roto Switches 02-004
Sensors/Senders 03-008
Shift Cable Snake 09-034
Spark Plug Wires . 09-045, 046
Starters 09-042
Switches ..... 02-002 to 005,
..... 02-007 to 010, 013, 014
Tach/Hourmeter 03-005
Terminal Blocks 02-061
Timing Light 09-046
Toggle Switches ... 02-007, 008

Trailer Connectors 16-021, 022
Trailer Jacks 16-015
Trailering Clips 16-033
Tune-Up Kits 09-043
U-Joints 09-040
Water Pumps..... 11-047
Sierra Parts Resource 09-002
Signal
Devices ..... 12-013 to 019
Flares 12-012, 013
Lights..... 12-013 to 015
Shapes 12-020
Smoke 12-012, 013
Strobes..... 12-013 to 015
Sikaflex
Compounds..... 06-006, 007
Mixing Gun 18-017
Sealant Chart 06-004, 005
Sikaflex Cleaning Wipes.. 06-043
Sikkens, Cetol 07-002, 07-016
Silent Running 09-003
Silicone
Caulking 06-003, 010
Exhaust Hose..... 10-006, 007
Water Injection Hose 09-052
Simms
Caulking Tube Caps..... 06-011
Paint Brushes..... 07-032, 033
Wire Brushes..... 06-051
Single Braid Rope 14-009
Sinkers, Cannonballs 17-035
Sinks & Drains..... 11-019 to 021
Sionyx Night Vision Cameras.....
.....03-010 to 013
Siphon Hose Pump 11-056
Sirius
Antenna..... 03-090
Receiver..... 03-079
Stereos.....
.....03-065 to 067, 074, 075
Siruis Signal . Electronic Distress
Signal 12-013
Skeg Guard 09-068
Ski
Mirrors 17-005
Pylons 17-006
Ropes..... 17-013, 014
Tow Eyes..... 17-006
Skin Care..... 06-043
Skippers Product
Watershedz 06-036
Skywinch Trailer Winch ... 16-017
Slam Shut Latch 04-060
Sleeve Rubber Bearings . 09-057
Sleeves, Nicropress 13-017
Slides
Boat Top ..... 04-024 to 027
Seat..... 15-006 to 011
Slip-Ring Anchors..... 14-034
Smart Pins, Blue Wave.... 13-007
Smart Plug..... 02-075 to 077
Smell Zapper 06-036
Smoke
Detectors..... 12-004
Eliminator 06-036
Smoke Signals 12-012, 013
Smooth Moves
Seat Suspension 15-006
Snap
Hooks ..... 13-028 to 032
Shackles..... 13-032, 033
Stick 06-023
SNAPP Filter, Racor 09-026
Snatch Blocks..... 13-045
Snubbers
Downrigger..... 17-035
Mooring 14-016, 017
Soap, Boat..... 06-030 to 034
Sockets
Electrical..... 01-049
Flag Pole 04-032, 033
Light 01-049
Oar Lock..... 17-003
Solar
Charge Controllers.. 03-116, 117
Connectons 03-117
Dock Edge Lights . 14-030, 031
MPPT Remote Panels.....
..... 03-116, 117
Solenoids
Blue Sea Systems..... 02-024
Cole Hersee 02-025
EGIS..... 02-025
Maxwell 14-047
Propane..... 05-029, 12-006
Sure Power 02-025
Solstice
Inflatable Kayak..... 17-012
Paddleboards 17-012
Pup Planks 17-011
Solvable
Anti-Freeze..... 06-029
Fuels 05-045
Linseed Oil 07-015
Paint Remover 07-029
Thinners 07-028
Xylene 07-028
Solvents..... 07-028
Sonar Modules
Furuno..... 03-039
Garmin 03-033
Raymarine..... 03-022
Soo-Line, Pike Poles..... 14-049
Sound Barrier 09-003
Soundown 09-003
Southco Door Latch..... 04-063
Spar Fly 13-091
Spark Plug
Plugs 09-044
Testers..... 09-046
Wires 09-045, 046
Spartite Mast Sealant 13-042
Speakers
Fusion ..... 03-070 to 072
Hailers 03-084
Rockford Fosgate..... 03-077
Shakespeare 03-084
Wire..... 02-070
Spectro Bulbs ..... 01-043 to 049
Speed Polish, McLube 06-021
Speedometer
Sensors/Senders.. 03-008, 009
Speedometers... 03-002 to 007
Speich Wipers 04-010
Spider Spot Removers .....
.....06-033, 038
Spinlock
Camcleats, Clutches .....
.....13-052 to 055
Comparison Chart..... 12-033
Deck Organizers 13-057
Deckware .. 12-029 to 035, 040
Duffle Bags..... 12-034
Harnesses 12-035
Inflatable Belt Packs..... 12-041
Inflatable Vests.....
.....12-029 to 032, 040
Knee Pads..... 12-035
Line Guides 13-056, 057
Lume-On 12-034
Pylon Light 12-034
Safety Lines 12-035
Sail Feeder..... 13-056
Spinnaker Blocks 13-056
Tension Gauges 13-057
Tiller Extensions 13-043
Waterproof Packs..... 12-034
Spiral Wrap..... 02-127
Spliced Line Fittings 13-013
Splicing
Custom Service..... 14-007
Kits & Fids 14-011
Split
Loom 02-127, 128
Ring Pliers..... 18-017
Rings 18-013
Sponges
Sanding 07-045
Sponges..... 06-051, 052
Sport Marine Hydrofoils... 08-063
Spotlights..... 01-017, 018
Spray
Adhesive 06-011
Hood..... 07-047
Hose Nozzles..... 06-055
Lubricants..... 06-020 to 022

Spray Guns
Cleaner....06-039
Spray Guns....07-029 to 031
Spray Nine
Anti-Seize Greases....06-023
Cleaners....06-036, 037, 041
Degreaser....06-036
Hand Cleaner....06-043
Spray Paint
Engine....07-029
Preval Gun....07-029
Spreader Lights....01-035, 036
Spring
Catches....04-062, 063
Clamps....04-078, 079
Gas....04-050, 051
Trolling....14-017
Springfield
Deck Chairs....15-005
Motor Support....16-033
Seat Hardware..15-007 to 013
Seats....15-003 to 005
Ski Pylon....17-006
Table....15-017
Table Pedestals....15-015, 016
Squeegees
System Three....06-020
Window....06-050
Sta-Bil Fuel Additives06-027, 028
Staffs, Flag....04-032, 033
Stain Removers....
..06-033, 034, 037 to 039, 041
Stainless Steel
Ball Valves....10-046
Chain....14-036
Cleaners....06-041 to 043
Fasteners....18-005 to 015
Locking Wire....18-015
Pipe Fittings....10-032 to 035
Rail Fittings....04-020 to 023
Stove Pipe....05-015
Tubing....04-023
Wire....13-017
Sta-Lok Rigging....13-002, 003
Stanchion, Fittings 04-020 to 023
Stands, Boat....16-002 to 005
Stand-Up Paddleboard
Paddleboards....17-012
Storage Racks....17-004
Stanpro Channel....04-056
Staples, Log....14-017
StaPlug Emergency Plug... 12-009
Star brite
Aluminum Cleaner....06-043
Bearing Grease....06-023
Bilge Cleaner....06-037
Black Streak Remover .06-038
Cleaners....06-037 to 039, 043
Dehumidifier....05-032, 033
Epoxy Sticks....06-018
Filter Wrench....09-033
Fuel Additives....06-027, 028
Funnels....09-017
Gear Lube....06-024, 025
Guns & Pumps....06-024
Liquid Tape....02-136
Magic Sponge....06-051
Mildew Control....05-032, 033
Oils & Lubricants..06-023, 024
Scrub Pads....06-051
StarTron....06-027, 028
Teak Oil & Cleaner. 07-014, 015
Telescoping Handle....06-049
Utility Brushes....06-050, 051
Zipper Lube....06-023
Starboard, Taco....04-057
Starlink Mounts....03-099
Starter Cord, Samson....14-010
Starters
EMP....09-040, 041
Sierra....09-042
Switches....02-012 to 014
Startron Additives....06-027, 028
Stazo, Marinedeck....04-057
Steel Wool....07-045
Steering
Cable....08-012 to 016
Cable Boot....08-048
Cable Lubricant.06-020 to 022
Cable Pulley....08-047
Dometic....08-012 to 039
EZ-Steer....08-045
Fluid....08-037
Hose Fittings....08-038
Hydraulic....08-018 to 039
Hydraulic Hose....08-037
Hydrofoils....08-063
Intellisteer....08-043
Interceptors....08-060 to 062
Motor Well Boots....08-047
Panther....08-042
Power Assist....08-016, 039
Powrtran Tailfin....08-047
Rack & Pinion Steering.. 08-015
Rotary....08-013, 014
SeaStar....08-012 to 039
SeaStar Tie Bar Kits....08-036
Thrusters....08-051 to 054
Trim Tabs...08-056 to 059, 062
Trolling Motor....08-042 to 047
Trollmaster....08-044
Wheels....08-048, 049
Xtreme Power Assist....08-016
Steering & Controls Chapter .....
....08-001 to 063
Step
Boarding....04-031
Folding....04-031
Foot Rest....15-015
Transom....04-031
Stereos
Fusion....03-065 to 072
Rockford Fosgate.03-074, 075
Sirius XM Receiver....03-079
Stern
Drive Motor Lock....09-070
Eyes....13-034
Stern Drive Installation Jack.....
....16-034
Stopper, Chain....14-041
Stops
Door....04-065
Sail Track....13-045
Sliding Window....04-065
Storage
Nanuk Cases....12-027
Racks, Kayaks....17-004
Rust Protection Bags ...06-022
Shore Power....02-078
Stove
Diesel Heaters....
....05-034 to 037, 043, 044
Diesel....05-013, 014
Electric....05-011, 012
Methyl Hydrate....07-028
Pipe & Fittings....05-015
Pipe Wire....18-015
Propane....05-010 to 014
Top Cleaning Sheets....07-041
Top Toaster....05-015
Strainers
Fresh Water....11-040, 041
Fuel....09-020 to 031
Intake....10-017, 018
Pump....11-041, 042
Raw Water....10-018 to 020
Round....10-018
Scoop....10-017, 018
Strakes, Rub....04-051
Strap Hinges....04-071
Straps
Battery....02-134, 135
Cable....02-123 to 125
Eye....13-037, 038
Gas Tank....09-005
Nylon....14-012
SS Ratchet Straps....16-018
Tie-down....16-014
Winch....16-018
Strip Lighting....01-028
Strippers
Paint....07-029
Wire....02-110, 111
Stripspeed, Propspeed....07-010
Strobe Lights....12-013 to 016
Stuffing
Boxes....09-056

Packing 09-048, 049
Submersible Pumps 11-031 to 034
Suction Cup Handle 04-024
Sugatsune
Barrel Bolts.....04-066
Door Holder.....04-065
Handles.....04-070
Hatch Supports 04-049
Hinges.....04-073, 074, 076
Hooks.....04-077
Latches & Catches . 04-063, 064
Magnetic Touch Latch ..04-063
Shelf Brackets.....04-078
Towel Rack.....04-078
Sunglasses.....17-045
SUP (Paddleboards)
Board Leash.....17-012
Paddleboards.....17-012
Pumps.....17-012, 015
Safety Kit.....12-012
Super Hooker 14-034
Superspar Varnish.....07-017
Super-Tuff.....06-039
Supports
Boats.....16-002 to 005
Hatch.....04-048 to 051
Motor.....08-039 to 042
Sure Power
Battery Equalizer..03-127, 128
Battery Separators 03-128
Circuit Breakers.....02-054
Converters.....03-127
Isolators.....03-128
Solenoid 02-025
Terminal Boot Covers...02-087
Surge Protection, Fuel.....09-019
Survival
Blanket 12-010
Suits 12-036, 037
Swim Ladders.....04-028 to 030
Switches
Battery.....02-015 to 028
Bilge Pumps..... 11-035, 036
Boots 02-008
Circuit Panels....02-029 to 037
Cut Off.....02-014, 12-019
Dimmer..... 02-011
Float 11-035, 036
Foot 14-047
Ignition.....02-012 to 014
Kill 02-014, 12-019
Oil Pressure 03-008
Panels .....02-029 to 037
Push Button.....02-002, 003
Push-Pull.....02-005
Rocker.....02-008 to 010
Roto.....02-004
Ship to Shore 02-029
Toggle.....02-006 to 008
Wiper.....02-004
Swivel-Eze
Pedestals & Bases. 15-013, 014
Ski Pylon 17-006
Swivels
Anchor.....14-037
Seat.....15-006 to 012
Syringes 06-020
System Three .....06-015 to 020

T

Table
Brackets 04-078
Camco.....15-017
Coho Cleaning 17-040
Fasteners 04-068, 078
Fillet.....05-022, 17-040
Garelick.....15-016
Hinges.....04-071 to 076
Magma 05-022
Pedestals .....15-015 to 017
Railblaza 17-024
Sea-Dog 17-040
Springfield 15-017
Tablet
Holders, Scanstrut.....17-017
Tachometers.....03-002 to 007
Tack Cloth.....07-028
Tackle Box Insert 04-044
Taco
Drink Holders 17-042
Moldings.....04-053 to 055
Pin & Lanyard.....18-014
Rod Holder 17-025
Rub Strakes 04-051
Starboard Lumber 04-057
Table Support & Base ..15-016
Tubing 04-023
Tailfin Kicker System 08-047
Tank
Accumulator 11-030, 031
Gas.....09-004 to 006
Holding..... 11-013 to 015
Jerry Cans.....09-004
Level Indicator.....
.....03-009, 09-007, 11-017
Propane.....05-027
Vacuum 11-004
Vents .....04-039 to 041
Water Heaters ...05-045 to 047
Water Tanks 11-025
Withdrawal Assembly ...09-008
Tank Monitoring .....
03-030, 047, 048, 051, 11-017
Tape
Anti-Chafe 13-042
Butyl Caulking 06-010
Dispenser.....07-035, 036
Double Sided.....06-013
Duct.....06-013
Edge Sealer 04-032
Electrical.....02-136
Foam 04-056
FTZ.....02-136
Gorilla.....06-013
Heatshrink 16-011
Liquid.....02-136
Masking.....07-036, 037
Mast Boot 13-042
Mylar Seam 09-003
Non-Slip 04-031, 032
Propane.....05-027
Reflective 12-010
Rescue 06-012
Rigging & Sail Repair ...13-042
Sealing 06-012
Self-Bonding Tape.....02-136
Self-Fusing 06-012
Shurtape.....02-136, 06-013,
.....07-036, 16-011
Tear-Aid.....06-012
Teflon.....06-023
Thermofab.....09-048
Wire Marker.....02-106
Tarps
Boat Covers .....16-006 to 012
Holders.....14-012
Tarred Sisal 14-010
Taylor Made
Canvas Fastener Tool ..18-005
Fender Lock 14-025
Flag Poles 04-033
Pontoon Rail Hanger....14-025
Ring Pliers.....18-017
T-Bolt Clamps..... 10-011
Tea Tree Oil, Forespar.....05-033
Teak
Cleaners & Oil 07-014, 015
Flag Poles 04-033
Handrails 04-024
Plugs 18-016
Teakdecking Systems
Caulking & Epoxy.....06-007
Reef Hook 06-011
Seam Sander 06-011
Teak Cleaner 07-015
Tear-Aid Repair Tape.....06-012
Techflex
Conduit Tubing 02-128
Dispenser Rack.....02-128
Install Tool 02-128
Tef-Gel.....06-023
Teflon, Tape 06-023
Teknor Apex Hoses 06-054
Telephone Connectors 02-085

Telescoping
Boat Hooks....14-049
Deck Brushes....06-047 to 049
Faucet....11-021, 022
Fish Net....17-040
Handles....06-047, 049
Tell-Tales....13-091
Temperature
Alarm....12-004 to 006
Gauge....03-002 to 007
Sensors/Senders..03-008, 009
Tempress
Armrest Brackets....15-003
Boot Saver Rack....17-045
Deck Plates....04-041
Hatches....04-044
Rod Holders....17-025, 027
Seat Covers....15-003
Seat Stand....15-013
Seats....15-002 to 005
Tackle Box Insert....04-044
Tension Gauges....13-057
Tera Pumps....11-056
Terminal
Battery....02-086, 087
Electrical....02-088 to 104
Links....02-023, 027
Tessilmare Rub Rails....04-052
Test Tank Cleaner....06-029
Tester
Battery....02-135
Clip....02-108
Tether, Safety....12-035
T-H Marine
Access Hatch....04-044
Aerator Filter....11-039
Bait Timer....11-039
Battery Trays....02-134
Boots & Grommets....08-048
Check Valve....10-048
Cooler Mount....17-044
Deck Plate....04-042
Gator Patch....06-012
Gator Skinz....04-032
Glove Box....04-063
Jack Plates....08-040
Lights - Spreader....01-035
Lights - Strip....01-028
Lights - Underwater....01-030
Livewell Plugs....10-022
Paddle Holder....17-002
Pass Thru Fittings....02-113
Prop Wrench....09-069
Rigging Flange Kits....08-048
Rod Holder Drain Cap..17-030
Scuppers....10-012
Slam Latches....04-060
Thru-Hulls....10-013, 016
Trailer Jacks....16-015
Trailer Winches....16-016
Transom Trim Control...08-040
Transom Wedge....08-042
Washdown Hose....06-055
Water Outlet....10-049
Windshield Fastener....04-025
Thermal Blanket....12-010
Thermofab Tape....09-048
Thermometer, Fridge....05-006
Thimbles....13-015, 016
T-Hinges....04-076
Thinners....07-027, 028
Threaded Rod....18-012
303 Products....06-040
3M
Abrasives....07-040 to 044
Carpet Mask....07-035
Caulking....06-010
Cleaners & Wax...06-039, 040
Ear Protection....07-047
Edge Sealer....04-032
Electrical Tape....02-136
Masking Paper....07-035
Metal Cleaners....06-043
Mildew Stain Remover.06-039
Oil Absorber Pads....09-032
Polishing Compounds..06-040
Polishing Pads....06-044, 045
Reflective Tape....12-010
Respirators....07-048, 049
Safety Walk....04-032
Scotch Gard....06-040
Sealant Chart....06-008, 009
Sealants....06-010
Seam Sealer....06-010
Sharpshooter....06-039
Silicone....06-010
Sponges....06-051
Spray Adhesive....06-011
Spray Gun Cleaner....06-039
Spray Guns....07-030, 031
Stainless Cleaner....06-043
Tapes....07-036, 037
Velcro....14-013
Vinylester....06-019
Three-Way Valves...10-046, 047
Thru-Hull
Exhaust....09-087
Connectors....10-016
Dripper Guard....10-015, 017
Nuts....10-013
Plugs....12-009
Thru-Hulls....10-012 to 016
Wrench....10-014
Thrusters, Vetus...08-051 to 054
Tides Marine....09-051 to 053
Tie Bar, Trolling Motor....
....08-042, 045 to 047
Tie Down Engineering
Anchors....14-034
Boat Guides....16-028, 029
Bunk Carpeting....16-028
Bunk Slicks....16-028
Dock Ladder....14-030
Fenders....16-028
Fold-Away Tongue Kit..16-029
Glide-Ons....16-028, 029
Trailer Brackets....16-023, 024
Trailer Rollers....16-023
U-Bolts....16-024
Winch Cables....16-018
Tie Downs
Battery Box....02-134, 135
Boat Cover....16-014
Cooler....17-044
Transom....16-014
Ties, Cable....02-123 to 125
Tiller
Cable....08-047
Extensions....13-042, 043
Lock Box....13-042
Pulley....08-047
Rope Clamps....08-047
Tamer....13-045
Timers, Bait Tank....11-039
Timing Light....09-046
Tire Carrier....16-027
Tissue Toilet....11-019
Titan
Anchor Swivels....14-037
Galvanized Shackles....13-018
Motor Stands....16-034
Rope/Chain....14-035
Stainless Chain....14-036
Stern Drive Jack....16-034
Toaster....05-015
Toe Rail Pad Eye....13-040
Toggle
Guards....02-038
Rigging....
..13-005, 006, 008, 011 to 014
Switches....02-006 to 008
Togglers....18-014
Toilet
Bowl Cleaners....11-019
Bucket, Camco....11-006
Gravity Discharge....11-006
Groco....11-012
Heads....11-002 to 010, 012
Jabsco....11-007 to 011
MasterFlush....11-005, 006
Parts....11-003 to 005,
....008 to 012, 015
Rebuild Kits....11-005
Sani-Potti, Portable....11-007
Tissue....11-019
Toilets....11-002 to 010, 012

Treatment 11-018, 019
VacuFlush ..... 11-002 to 005
Tongue Jacks 16-015
Tools
Caulking Guns 18-017
Countersinks 18-019
Drill Bits 18-019
Electrical..... 02-107 to 111
Grease Guns 06-024
Hose Clamp Tools 10-010
Lug Crimpers..... 02-109, 110
Navigation 12-050
Plug Cutters 18-019
Polytube Cutter 10-029
Putty Knives 18-017, 018
Screwdrivers 18-018, 019
Sierra..... 09-034
Torches..... 02-107
Topside Paint..... 07-011, 012
Torrid Water Heaters 05-046
Tow Bars, TurboSwing..... 17-006
Tow Hitches 16-029, 030
Towables, Airhead 17-007 to 010
Towel Rack 04-078
Towels 06-051, 052
Towing
Hooks 13-033
Ski Ropes..... 17-013, 014
Trac Ecological
Barnacle Buster..... 06-030
Descaler 06-030
Sea Flush 06-030
Track
Sail Stops 13-045
Travelers 13-083, 084
Traction Wax..... 06-033, 038
Trailer
Bearing Protectors 16-025
Brakes 16-026, 027
Connectors and Wiring.....
..... 16-021, 022
Couplers..... 16-030
Guides..... 16-028, 029
Hitch Balls 16-030
Jacks..... 16-015
Licence Plate Holder 16-020
Lights..... 16-019 to 021
Locks..... 16-031, 032
Rollers 16-023
Safety Chains..... 16-027
Tie Downs 16-014
Trailering Clips 16-033, 034
U-Bolts 16-024
Wheel Hub Kits 16-025
Winches 16-016
Wire, Bulk..... 02-070
Wiring 16-021, 022
Trailering Chapter. 16-001 to 037
Transat Marine
Anchors 14-033
Cleats 04-012
D-Ring 13-037
Fender Hanger 14-025
Pad Eyes..... 13-037, 039
Rail Fittings 04-022, 023
Snap Shackles 13-033
Spring Hooks..... 13-032
Swivels 13-026
Wire..... 13-017
Transducers
Airmar..... 03-042
Furuno..... 03-042, 043
Garmin 03-032
Maretron..... 03-050
Raymarine..... 03-020
Transhield Boat Covers ... 16-011
Transmitters
AIS 03-015, 022, 036, 083
EPIRB 12-017, 018
PLB 12-016, 017
Radios ..... 03-079 to 084
Transom
Door Latch..... 04-063
Handles 04-070
Ladder ..... 04-028 to 030
Pad..... 08-041
Plugs 10-021, 022
Tie Downs 16-014
Transom Saver..... 16-033
Wedges 08-042
Wheels 16-034
Trap Pullers 17-037
Travelers, Harken 13-083, 084
Trays
Battery..... 02-134
Painting 07-034
Trident
Conduit..... 02-127
Gas Detection Systems 05-029
Hose..... 10-004 to 009
Propane Fittings ... 05-028, 029
Propane Tanks 05-027
Torque Clamps 10-011
Trim
Aluminum 04-055
Control Systems 08-056 to 063
Gauge ..... 03-002 to 007
Tabs..... 08-056 to 059, 063
Trim & Tilt
Brackets ..... 08-040 to 042
Fluid 06-024
Trim Control Systems
Bennett..... 08-062
Dometic / SeaStar 08-057
Lectrotab 08-056, 057
Lenco 08-058, 059
SE Sport Hydrofoils..... 08-063
Zipwake..... 08-060 to 062
Trimax
Cable Locks 16-032
Outboard Motor Lock ... 09-070
Trim-Lok
Drip Rail 04-057
Edge Trim..... 04-056
Trolling
Motor Steering... 08-042 to 047
Plates 08-063
Springs 14-017
TrollMaster..... 08-044
T-Rope Eyes..... 13-009
Trumpet Horns..... 12-023, 024
T-Track & Stops..... 13-045
Tube
Aluminum Tubing 04-023
Convoluted 02-127
Copper 10-036
Cutter 10-029
Exhaust 09-086
Heat Shrink ..... 02-104 to 106
Ice Maker 10-029
Potable Water..... 10-029
Rigging 08-048
Stainless Steel Tubing.. 04-023
Transom Drain..... 10-022, 023
Tuff-Lite
Fog Nozzle 12-009
Plumbing Fittings.. 10-024, 025
Tune-Up Kits..... 09-042, 043
TurboSwing
Tow Bar 17-006
Turnbuckles
Bodies 13-010
Turnbuckles.. 13-005, 006, 013
Turning Point
Propellers ..... 09-058 to 067
TV
Antennas 03-089
Connectors..... 02-085
Mount 03-079
Twine 14-010

U

U-Bolt
Trailer 16-024
U-Bolts 13-034, 035
U-Joints 09-040
U-Line Ice Maker 05-006
Ultra Safety
Pump Switch 11-036
Tef-Gel..... 06-023
Umbrellas 05-021
Underwater Lights ... 01-029, 030
Uniden VHF Radios. 03-079, 080
Uni-Seal, Sealand 11-015

USB Chargers
02-120 to 122, 03-104
Utility
Clips 04-078, 079
Holders.....17-041
Hooks 04-077
Lights.....01-036

V

VacuFlush
Pumps 11-003, 004
Status Panels 11-003
Tanks..... 11-004
Toilet Systems ... 11-002 to 005
Vacuum Generators 11-003
Valves
3-Way 10-046, 047
Anti-Siphon.....09-008
Ball .....10-044 to 047
Check 10-047, 048
Diverter.....10-046, 047
Fairview.....10-045 to 048
Gate 10-046
Seacocks.....10-044 to 047
Solenoid 05-029, 11-008
Vane Pumps 11-041
Vang Master, Harken . 13-074, 075
Vapour
Detectors 05-029, 12-002 to 004
Vapour Proof Fixtures ..01-037
Varnish.....07-016, 017
VC Paints, Antifouling.....07-008
Velcro, 3M Dual Lock 14-013
Vented Loops 10-049
Ventilation Hose 10-009
Vents
Air.....04-039
Clamshell 04-037
Cowl 04-036
Engine Room ....04-035 to 038
Gas Tank 04-039, 040
Holding Tank filter..... 11-018
Louvered .....04-035 to 038
Veratron
Buzzer Alarm.....03-007
Diagnositics Tool 03-007
Engine Gauges .03-005 to 007
Engine Monitoring Displays.....
.....03-005 to 007
LinkUp Gateways.....03-007
Oceanlink Series ..03-005, 006
Sensors 03-008, 009
VL FlexSeries 03-007
VMH Series 03-005
Vertex
Battery Cable 02-067
Battery Lugs 02-089
Boat Cable 02-071, 072
Bus Bars.....02-060
Cable Clamps.....02-126
Cable Glands 02-113
Cable Ties 02-123, 124
Dual USB & 12V Receptacle ..
.....02-120, 121
Fuse Blocks.....02-045
Heat Shrink 02-105
Heat Shrink Terminals ..02-103
Power Posts 02-062, 063
Power Socket 02-119
Primary Wire 02-069
Shipboard Cable 02-065
Terminal Boots 02-088
Terminal Connectors .....
.....02-096, 097
Vessel Monitoring .....
.....03-049 to 052, 095
Vests, PFD .....
.....12-029 to 032, 038 to 040
Vetus
Bilge/Oil Separator 11-035
Deck Vents 04-039
Exhaust Flapper 09-087
Exhaust Systems .09-082, 083
Flexible Water Tanks 11-025
Gas Tank Vents 04-040
Hose Connectors 10-027
Intake Strainers 10-018
Thrusters .....08-051 to 054
VHF
Antenna Bases ..03-093 to 095
Antennas .....03-085 to 089
Coax Cable 03-092
Em-trak.....03-083
Garmin 03-082, 083
Icom .....03-080 to 082
Radios .....03-079 to 084
Raymarine.....03-083, 084
Uniden.....03-079, 080
Vico
Boat Cover Pole 16-013
Ratchet Tie Downs 16-014
Victron
Batteries 02-131, 132
Battery Chargers .. 03-112, 113
Battery Isolators 03-129
Battery Monitors 03-107
Converter 03-127
Inverter/Chargers03-119 to 121
Inverters 03-118
Remotes/Monitors 03-121
Shunts 03-107, 123
Smart Battery Protect ...03-129
Solar Accessories..... 03-117
Tank Sensors 03-122
Village Marine
Desalinator Parts.....05-010
Vinyl
Cleaner.....06-031 to 041
Moldings.....04-052 to 055
Vinylester Filler.....06-019
Volt Meters
Blue Sea.....03-101 to 103
Faria .....03-002 to 004
Sea-Dog 03-103, 104
Veratron.....03-005 to 009
Vulcan Anchors.....14-032

W

W.L. Fuller
Countersinks 18-019
Drill Bits 18-019
Plug Cutters 18-019
Waketower Light.....01-003
Walbro Fuel Pumps 11-057
Wallet, Harken 13-058
Wash Mitt.....06-052
Wash Safe
Clean All 06-041
Mildew Wash 06-041
Rust Off 06-041
Rust Stopper 06-041
Washdown
Hose.....06-053 to 055
Pumps 11-036, 037
Taps.....10-049
Washer
Fastener 18-011
Windshield.....04-003, 010
Waste Tank
Deck Fittings .....04-016 to 018
Filter 11-018
Fittings..... 11-015
Gauges..... 11-016 to 018
Moeller Tanks 11-014
Noz-All Adapters 11-015
Pumps 11-004, 015, 016
Sealand 11-013, 014
Water
Filters 05-009
Floats & Loungers 17-010, 011
Flow Detectors 12-005
Heaters.....05-045 to 047
Inlet/Outlet.....10-048, 049
Pickup 10-017, 018
Pressure Gauge 03-002 to 007
Pressure Regulators 10-048
Pressure System .. 11-029, 030
Puppy 11-042
Purifiers 05-009
Sensor 12-005, 006
Sensors/Senders..03-008, 009

Separators.....09-021 to 030
Strainers.....10-018 to 020
Tanks.....11-025
Temperature Gauge.....03-002 to 007
Water & Stain Repeller....06-036
Water Pressure Systems.....11-029, 030
Water Pump Kits.....11-047, 048
Water Purifiers
Acuva.....05-009
Carbon Filter.....06-056
Forespar.....05-009
Land And Sea.....05-009
Water Freshener.....06-056
Water Purifiers.05-009, 06-056
Water Ski Buoys.....14-022
Water Witch
Pump Switch.....11-035
Waterproof
Container.....12-012
Nanuk Cases.....12-027
Notebook.....12-051
Packs & Bags.....12-034
Spinlock Packs.....12-034
Throw Bag.....12-010
Watersports & Fishing Chapter ..17-002 to 045
Watertight
Cable Outlets....02-112 to 116
Watertite, Interlux.....07-012
Wave Wifi.....03-091
Waxes...06-033 to 036, 038 to 039
Weather Station
Maretron.....03-050
Weatherstrip.....04-056
Wedges, Sta-Lok.....13-003
Weights, Downrigger.....17-035
WEMA Senders.....09-007
Wesmar
Fan.....05-031
Floor Protection.....07-036
Hailer Speaker.....03-084
Western Pacific
Bronze Wool.....07-045
Locking Wire.....18-015
Muffler Tape.....09-048
Packing.....09-048, 049
Stainless Steel Wool....07-045
Wet Notes.....12-051
Wexco
Wipers & Motors...04-004, 005
Whale
Check Valve.....10-048
Float Switch.....11-035
Galley Foot Pumps11-025, 026
Grey Water Tank.....11-015
Gulper Waste Pumps...11-016
Gusher Hand Pumps....11-051
Shower Faucets.....11-024
Washdown Pumps.11-037, 039
Water Heaters.....05-047
Water Pressure System11-029
Wheel
Bearing Grease.....06-023
Bearing Protector.....16-025
Docking.....14-028
Lock.....16-032
Steering.....08-048, 049
Wheel-A-Weigh.....16-034
WHIMIS Label Set.....06-052
Whipping Twine.....14-010
Whips, Mooring.....14-028
Whisker Poles.....13-043, 044
Whistles.....12-021
Whitecap
Boarding Handle.....04-030
Cleats.....04-011 to 013
Flag Pole Sockets.....04-033
Teak Flag Poles.....04-033
Teak Handrails.....04-024
Thru-Hulls.....10-014
Wichard
Carbine Hooks.....13-031
Chain Gripper.....14-041
Eye Bolts.....13-036
Eye Strap.....13-037
Key Rings.....17-045
Knives.....18-016
Mooring Hook.....14-048
Pad Eyes.....13-040, 041
Pelican Hook.....13-012
Pre-Feeder.....13-056
Shackles.....13-024, 025
Snap Shackles.....13-032, 033
Tether.....12-035
U-Bolts.....13-034
Wi-Fi
Antennas.....03-090, 091
Booster.....03-090, 091
Winch
Anchor.....14-043 to 047
Cable.....16-018
Foot Switches.....14-047
Grease, Harken.....13-078
Handle Holders.....13-090
Handles.....13-078, 090
Harken.....13-079, 080
Straps.....16-018
Trailer.....16-016
Utility.....16-017
Wind Instruments....13-090, 091
Windlasses.....14-043 to 046
Windline
Anchor Chocks.....14-041
Anchor Rollers.....14-040, 041
Fender Holders.....14-023
Ladders.....04-028
Marithane Wheels.....14-037
Windmeters.....13-090, 091
Window
Bedding.....06-003, 006, 007
Channel.....04-056
Cleaners.....06-040, 041
Handles/Locks...04-063 to 066
Saver.....04-025
Stops.....04-065
Windshield
Adjusters.....04-048, 049
Keepers.....04-065, 066
Treatment.....06-040, 041
Washer.....04-003, 010
Wiper Motors.....04-002, 004, 005, 007, 010
Wiper Switches.....02-004
Wipers.....04-002 to 010
Windtrak, Wind Vane13-090, 091
Wing Nuts.....18-010
Winterizing Kits.....06-056
Wipers, Windshield..04-002 to 010
Wire
Battery Cable.....02-066, 067
Bilge Pump.....02-070
Boat Cable.....02-071, 072
Brushes.....06-051
Clamps, Electrical..02-126, 127
Coaxial.....03-092
Connectors.....02-088 to 104
Downrigger.....17-034
Electrical.....02-065 to 072
Life Line.....13-017
Locking.....18-015
Marker Tape.....02-106
Primary.....02-068 to 070
Rigging.....13-017
Speaker.....02-070
Stainless Steel.....13-017
Stripper.....02-110, 111
Thimbles.....13-015, 016
Wire Rope Clips.....13-015
Wire Connectors...02-082 to 084
Wire Rope
Clips.....13-015
Stainless Steel.....13-017
Steering.....08-047
Thimbles.....13-015, 016
Wireless
Cellular Booster.....03-090
Remote Steering.....08-043, 044, 047
Wifi Booster.....03-090, 091
Wise
Seat Hardware.....15-008, 010
Seats.....15-004, 005
Wonderflex Hose.....10-008
Worklights.....01-036, 037

Wrap it Up, Airhead 14-013
Wrench
Oil Filter.....09-033
Propeller.....09-069
Sea-Dog.....18-017
Thru-Hulls.....10-014
Wrist Bands, Seasickness.....
.....12-027

X

Xantrex
Battery Chargers.. 03-115, 116
Inverter/Chargers .03-123, 124
Inverters 03-118
LinkLite/LinkPro.....03-107
Solar Charge Controller..03-116
True Charge Remote Panels...
..... 03-116
XCalibur Pumps 11-030
Xtreme Power Assist
Steering.....08-016
Xylene 07-028

Y

Y-Valves.....10-046, 047

Z

Zaal
Salt Remove Soap 06-029
Sewage Treatment..... 11-019
Toilet Bowl Cleaner 11-019
Zap Straps.....02-123 to 125
ZF Marine.....08-002
Zig Zag Cleat.....04-014
Zinc
Anodes.....06-058 to 070
Saver.....03-130, 131
Spray, Seaguard 07-013
Zipper Lube 06-023
Zipwake Trim Control System ....
.....08-060 to 062

ABRASIVES
Application Chart 07-038

ACR
Personal Signal Light
Table.....12-015

AWLGRIP
Paint Systems
Info .....07-018 to 026

BATTERIES
Terminology 02-129

BLUE SEA SYSTEMS
ACR Selection 02-020
Add-A-Battery.....02-020
Battery Switch
Specs 02-018, 019
Battery Wiring
Schematics.....02-015
Correct Fuse Holder 02-048
Correct Fuse.....02-049
Ordering Custom Panels
360 Panels 02-031

BOATLIFE
Sealant Chart 06-002

CARVER BOAT COVERS
Drop Ship Program.....16-006

CENTEK
Exhaust System Sizing....09-084

DOMETIC
Selecting Air Conditioning . 05-049

ELECTRICAL WIRE
Wire Selection Chart 02-073

FARIA
Gauges Chart 03-002, 003

HGE MANIFOLDS
Crossover Chart 09-074

INFLATABLE VESTS
Mustang Comparison 12-044
Spinlock Comparison 12-033

INTERLUX
Cetol Marine 07-002
Paint Charts & Info . 07-003 to 007
Solvent Chart.....07-027

JABSCO
Impeller Tables ..... 11-049 to 051

LIGHT BULBS
Light Bulb Nomograph.....01-038

LUNASEA LED BULBS
Crossover Chart 01-042

MARETRON
About NMEA 2000 03-053

MARINCO
Adapters .....02-079 to 081
Wiper/Blade Chart 04-006

MARTYR
System Overview 06-058, 059

MSR HYDRONIC HEATERS
Anode Charts 05-038, 039

MUSTANG
Lifejacket Comparison.....12-044

NOVA KOOL
Crossover Chart 05-005

POLYFORM
Fender/Buoy Guide .14-018, 019
Mooring Tips.....14-020

PROPSPEED
Estimated Coverage.....07-010

MAXWELL
Chainwheel Chart.....14-046

ROCNA
Sizing Chart.....14-032

SEASTAR / DOMETIC
Control Cables.....08-006
Steering Cables.....08-012
Steering Options.....08-005
Which Hydraulic System .08-018

SEAVIEW MOUNT SYSTEM
Mount Builder 03-096, 097

SIERRA
Lubes & Oils 06-025, 026

SIKAFLEX
Sealant Chart 06-004, 005

SPINLOCK
Lifejacket Comparison.....12-033

SYSTEM THREE
Product Use Chart.....06-016

3M
Sealant Charts.....06-008, 009

TACO
Rub Rail Selector Tips.....04-053

TESSILMARE
Rub Rail Selector Tips.....04-052

TRIDENT HOSE
Application Chart 10-003

TURNING POINT
Propellers .....09-058 to 067

VacuFlush
How Vaucuflush Works.... 11-003

VETUS
Thruster Selection 08-052

Jump To Index Sections

A J S

B K T

C L U

D M V

E N W

F O X

G P Y

H Q Z

I R Back To Cover

attwood®

The easiest, most reliable bilge pumps ever designed



Eliminate air-locks - Patented X-Air™ Impeller ejects trapped air in the pump and pipework.

Easy installation and service - External mounting feet and integrated outlet reduces time and effort.

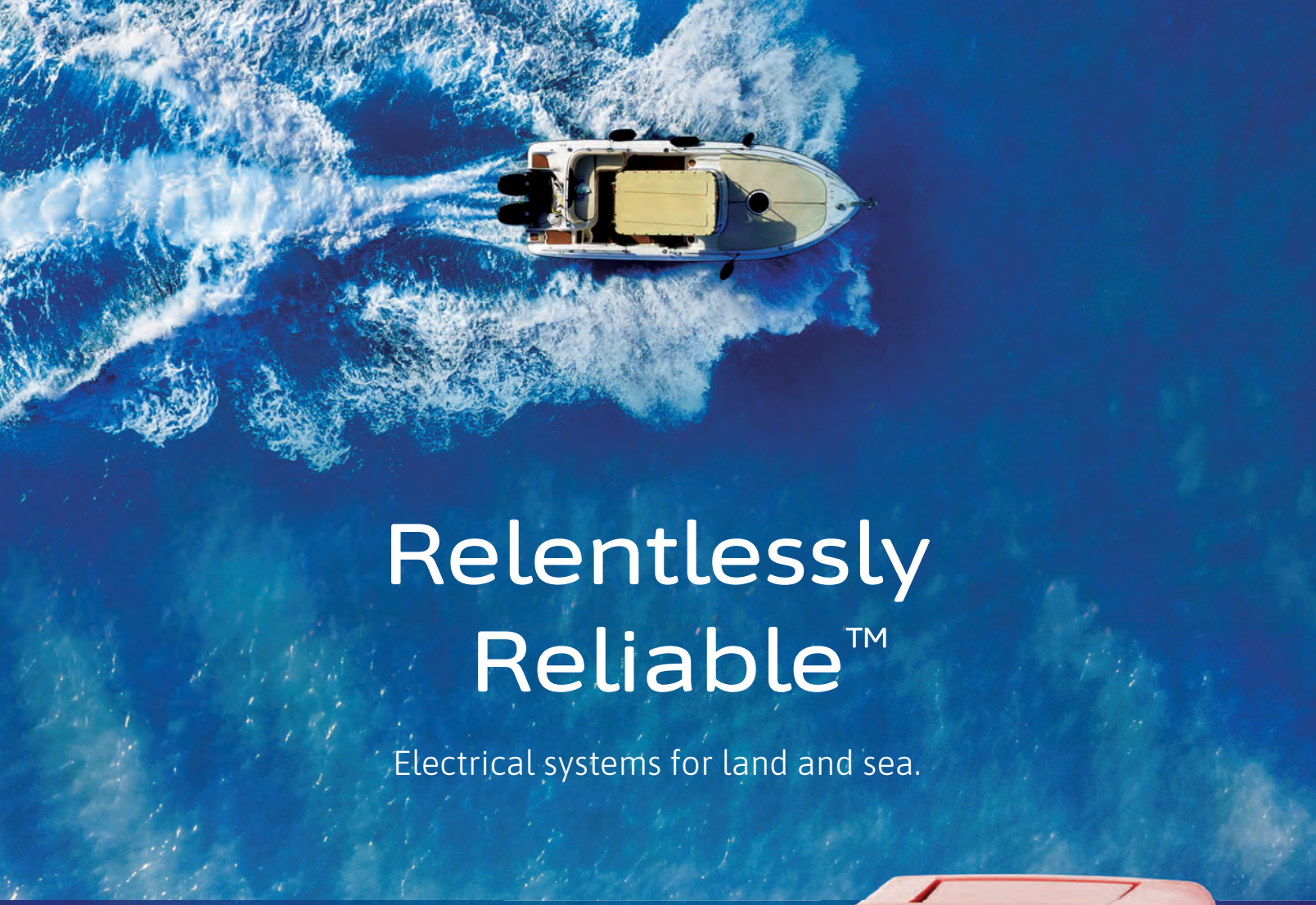
Unmatched reliability - 40%* better protection against water ingress and electrolysis - vs. Mk1.

*Sahara Mk1 vs the new Sahara Mk2.



attwoodmarine.com

NAVICO GROUP™



Relentlessly Reliable™

Electrical systems for land and sea.

m-Series Mini On-Off Battery Switch



Switches a single battery to a single load group

- Ignition-protected and safe for gasoline-powered boats
- User-friendly knob clearly indicates switch position
- Surface, front panel or rear panel mounting
- Isolating cover with snap-on sections protects rear contacts

BLUE SEA™ SYSTEMS

NAVICO GROUP

bluesea.com