

Catálogo de accesorios Náuticos



2025

El Navegante

www.repuestoselnavegante.com



Dometic SS-137 Safe-T QC® Steering Systems

- Virtually all power-assisted sterndrive boats.
- Replaces all Dometic Safe-T helms made since 1968 with little or no dash modifications.
- For single station use only. Accepts wheels up to 16" diameter.
- Consist of:
 - (1) **836555** (SH5094-1P) Safe-T QC Helm (Single)
 - (1) **836859** (SB27484P) Safe-T QC 90° Bezel Kit
 - (1) SSC62XX - QC Steering Cable

Order No.	Length	List Price	Order No.	Length	List Price
834855	8'	\$237.99	834920	15'	\$237.99
834867	9'	\$237.99	834932	16'	\$237.99
834879	10'	\$237.99	834944	17'	\$237.99
834881	11'	\$237.99	834956	18'	\$237.99
834893	12'	\$237.99	834968	19'	\$237.99
834906	13'	\$237.99	834970	20'	\$237.99
834918	14'	\$237.99	835023	22'	\$299.09

MAP PRICE



Dometic SS-137 Safe-T QC® Steering Systems with Steering Wheel



Order No.	Length	List Price	Order No.	Length	List Price
834985	8'	\$267.09	834991	14'	\$267.09
834986	9'	\$267.09	834992	15'	\$267.09
834987	10'	\$267.09	834993	16'	\$267.09
834988	11'	\$267.09	834994	17'	\$267.09
834989	12'	\$267.09	834995	18'	\$267.09
834990	13'	\$267.09	834996	20'	\$267.09

INCLUDES STEERING WHEEL



- Package includes: SS-137 Safe-T QC Steering System and Marpac **7-0253** - Plastic Steering Wheel.
- Marpac Steering Wheel ships separate from Dometic Box (Not part of Dometic Steering System).

Dometic SS-132 NFB™ Safe-T II Steering Systems



- Suitable for most single station boats with a single non-power-assisted outboard engine up to V4 and minimal engine flutter or steering instability.
- For single station use only.
- Accepts wheels up to 16" diameter.
- Consist of:
 - (1) **836621** (SH5150P) NFB Safe-T II Helm (Single)
 - (1) **836811** (SB27150P) NFB Rotary 90° Bezel Kit
 - (1) SSC62XX - QC Steering Cable

Order No.	Length	List Price	Order No.	Length	List Price
835101	10'	\$324.29	835153	15'	\$338.89
835113	11'	\$326.79	835163	16'	\$342.39
835126	12'	\$330.29	835175	17'	\$345.39
835138	13'	\$333.39	835187	18'	\$348.49
835147	14'	\$335.89	835202	20'	\$354.39

Dometic SS-147 NFB™ 4.2 Steering Systems



- Suitable for most single station boats with a single non-power-assisted outboard engine up to V6 and minimal engine flutter or steering instability.
- 4.2 accepts wheels up to 16" diameter.
- Consist of:
 - (1) **836666** (SH4910P) NFB 4.2 Helm (Single)
 - (1) **836811** (SB27150P) NFB Rotary 90° Bezel Kit
 - (1) SSC62XX - QC Steering Cable

Order No.	Length	List Price	Order No.	Length	List Price
835504	10'	\$380.99	835554	15'	\$380.99
835516	11'	\$380.99	835566	16'	\$380.99
835528	12'	\$380.99	835578	17'	\$380.99
835530	13'	\$380.99	835580	18'	\$380.99
835542	14'	\$380.99	835592	20'	\$380.99

MAP PRICE

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailer
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

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- Engine & Care
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- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic SSX-176 XTREME™ NFB™ Steering Systems



- Suitable for most single station boats with a single non-power-assisted outboard engine up to V6 and minimal engine flutter or steering instability.
- Consist of:
 - (1) SHX7606 - Xtreme NFB Helm
 - (1) SSCX64XX - Xtreme QC Steering Cable

MAP PRICE

Order No.	Length	List Price	Order No.	Length	List Price
836210	11'	\$447.90	836222	17'	\$447.99
836212	12'	\$447.99	836224	18'	\$393.39
836214	13'	\$447.99	836226	19'	\$393.39
836216	14'	\$447.99	836228	20'	\$393.39
836218	15'	\$447.99	835754	22'	\$423.99
836220	16'	\$447.99	835767	24'	\$423.99

Dometic SSX-177 XTREME™ NFB™ Tilt Steering Systems



- Suitable for most single station boats with a single non-power-assisted outboard engine up to V6 and minimal engine flutter or steering instability.
- Consist of:
 - (1) SHX97606 - Xtreme Tilt NFB Helm
 - (1) 836678 (SH91800P) Sport Tilt Mechanism
 - (1) SSCX64XX - Xtreme QC Steering Cable

Order No.	Length	List Price	Order No.	Length	List Price
836230	11'	\$531.59	836240	16'	\$532.39
836232	12'	\$531.79	836242	17'	\$532.39
836234	13'	\$531.79	836244	18'	\$531.79
836236	14'	\$532.39	836246	19'	\$532.39
836238	15'	\$531.79	836248	20'	\$532.39

Dometic SS-151 NFB™ Pro Rack Steering Systems



- Suitable for most single station boats with a single non-power-assisted outboard engine up to V6 and minimal engine flutter or steering instability.
- NFB Rack accepts wheels up to 16" diameter.
- New back mount design installs easy replaces standard Dometic Rack Steering without dash modifications.
- Consist of:
 - (1) 836758 (SH5230P) NFB Rack Helm (Single/Dual)
 - (1) 836912 (SB39544P) NFB Rack 90° Bezel Kit
 - (1) SSC1 4XX - Rack Single Steering Cable

Order No.	Length	List Price	Order No.	Length	List Price
835908	10'	\$352.99	835958	15'	\$367.29
835910	11'	\$367.09	835960	16'	\$369.89
835922	12'	\$371.69	835972	17'	\$390.39
835934	13'	\$360.19	835984	18'	\$393.19
835946	14'	\$363.79	836001	20'	\$400.69

Dometic SS-152 NFB™ Pro Rack Steering Systems



- Suitable for most single station boats with a single non-power-assisted outboard engine up to V6 and minimal engine flutter or steering instability.
- NFB Rack accepts wheels up to 16" diameter.
- New back mount design installs easy replaces standard Dometic Rack Steering without dash modifications.
- Consist of:
 - (1) 836758 (SH5230P) NFB Rack Helm (Single/Dual)
 - (1) 836912 (SB39544P) NFB Rack 90° Bezel Kit
 - (1) SSC135XX - Rack Dual Steering Cable

Order No.	Length	List Price	Order No.	Length	List Price
836127	12'	\$721.49	836153	15'	\$777.19
836139	13'	\$729.09	836165	16'	\$785.09
836141	14'	\$736.49			

Dometic SS-141 Back Mount Rack Single Steering Systems



- Back mount rack replaces 1984-date Dometic "The Rack" steering without dash modification.
- Virtually all power-assisted sterndrive boats with wheels up to 16" diameter.
- For single station use only.
- Consist of:
 - (1) 836708 (SH5210P) Back Mount Rack Helm (Single)
 - (1) 836900 (SB39526P) Back Mount 90° Bezel Kit
 - (1) SSC134XX - Rack Single Steering Cable

Order No.	Length	List Price	Order No.	Length	List Price
834689	8'	\$242.19	834742	14'	\$243.39
834704	10'	\$243.39	834754	15'	\$242.19
834716	11'	\$243.39	834766	16'	\$243.39
834728	12'	\$243.39	834778	17'	\$243.39
834730	13'	\$243.39	834780	18'	\$243.39

Dometic SSC62 QC® Steering Cable



- Fits SH5150P, SH4910P, SH4920P, SH5094-1P, SH91190P, SH91526P, SH9127P and SH91523-1P.

Order No.	Length	List Price		Order No.	Length	List Price	
838089	8'	\$146.09	F0-6220100	838182	18'	\$149.49	F0-4640100
838093	9'	\$146.09	F0-6220100	838194	19'	\$149.89	F0-2940100
838106	10'	\$146.29	F0-0420100	838207	20'	\$150.19	F0-3150100
838118	11'	\$146.59	F0-1620100	838221	22'	\$243.29	F0-0307100
838120	12'	\$146.99	F0-9820100	838245	24'	\$256.49	F0-4597100
838132	13'	\$147.49	F0-4230100	838269	26'	\$269.59	F0-1788100
838144	14'	\$147.79	F0-5430100	838283	28'	\$282.79	F0-5979100
838156	15'	\$148.29	F0-0830100	838307	30'	\$295.99	F0-9170200
838168	16'	\$148.69	F0-8040100	838347	34'	\$357.79	F0-5405200
838170	17'	\$149.09	F0-6340100				

Dometic SSC124 Rack Steering Replacement Cable



- Old Style XR-4 rack steering cable that fits old Dometic Rack Helms: SH5098P, SH5097P, SH91528, SH91529.
- Length 9'.

Order No.	Mfg. No. / Description	List Price	
837457	(SSC12409)	\$162.76	D0-1203100

**LIMITED
QUANTITIES**

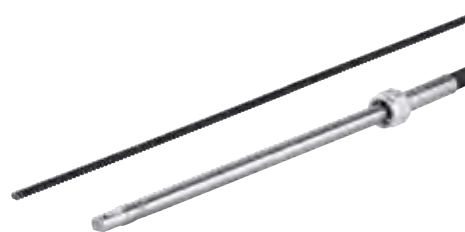
Dometic SSC219 Jet Boat Steering Cable



- JBS steering cable for the Dometic jet boat steering helms; SH5087P, SH5088P, SH91691P, SH91692P, SH91678P (obsolete) and SH91679P (obsolete).

Order No.	Length	List Price		Order No.	Length	List Price	
837560	10'	\$178.19	F0-3742100	837596	13'	\$188.79	F0-5123100
837572	11'	\$182.59	F0-1872100	7001474	14'	\$192.59	F0-1843100
837584	12'	\$186.39	F0-7403100	7001476	15'	\$196.39	F0-7473100

Dometic SSCX64 Xtreme Steering Cable



- Designed specifically for the XTREME helms.
- This cable offers lower backlash and is more efficient than a standard steering cable.
- It provides the lowest ease of effort, a close "fit" of the core to liner for lowest lost motion.
- The concept provides the "tight" fit of core to liner yet allows area for lubrication.
- The design of the helm allows higher loads to be placed into the cable requiring this new design cable.
- There is a quick connect feature on both the steering cable and spent travel tube for easy, quick installation.

Order No.	Length	List Price		Order No.	Length	List Price	
837914	10'	\$165.89	F0-2161100	837976	16'	\$178.19	F0-3742100
837926	11'	\$168.29	F0-0871100	837988	17'	\$179.49	F0-4652100
837938	12'	\$170.29	F0-0291100	837990	18'	\$182.19	F0-3572100
837940	13'	\$172.29	F0-0602100	838005	20'	\$186.19	F0-3303100
837952	14'	\$174.29	F0-0022100	838017	22'	\$189.79	F0-5823100
837964	15'	\$176.19	F0-3332100				

Dometic SSC134 Rack Single Steering Cable



- For single cable steering only.
- Fits SH5210P, SH5230P, SH91610P and SH91630P.

Order No.	Length	List Price		Order No.	Length	List Price	
838411	10'	\$227.19	F0-3095100	838485	17'	\$205.09	F0-6534100
838423	11'	\$232.09	F0-6426100	838497	18'	\$207.99	F0-9554100
838435	12'	\$191.29	F0-0933100	838498	19'	\$210.59	F0-1474100
838447	13'	\$194.09	F0-6853100	838500	20'	\$213.49	F0-4494100
838459	14'	\$196.89	F0-2873100	838505	21'	\$265.09	F0-6558100
838461	15'	\$199.59	F0-1793100	838512	22'	\$268.59	F0-1088100
838473	16'	\$202.39	F0-7614100				

Dometic SSC135 Rack Dual Steering Cable



- SSC-135 dual cable replacement.
- Fits SH5210P, SH5230P, SH91610P and SH91630P.

Order No.	Length	List Price		Order No.	Length	List Price	
838550	11'	\$587.09	F0-6901400	838598	15'	\$618.99	F0-9233400
838562	12'	\$597.29	F0-0181400	838602	16'	\$626.19	F0-3383400
838574	13'	\$604.49	F0-4132400	838613	17'	\$630.59	F0-1414400
838586	14'	\$611.79	F0-5282400				

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailing

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

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Misc.

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Dometic Safe-T® QC® Helms



- Collet and hitch pin secure QC cable to helm.
- Conical plastic nut holds spent travel tube.

Order No.	Mfg. No. / Description	List Price	
836555	(SH5094-1P) Single Cable	\$101.69	F0-8117000
836859	(SB27484P) Safe-T QC 90° Bezel Kit	\$32.99	F0-9032000
836847	(SB-27483P) Safe-T QC 20° Bezel Kit	\$45.99	F0-9123000

Dometic NFB™ 4.2 Helms



- Two bolts secure QC cable to helm.
- One bolt holds spent travel tube.
- Cast finish helms have No FeedBack feature.

Order No.	Mfg. No. / Description	List Price	
836666	(SH4910P) Single Cable	\$177.89	F0-2542100
836671	(SH4920P) Dual Cable	\$322.89	F0-2062200
836811	(SB27150P) Rotary NFB 90° Bezel Kit	\$38.19	F0-3762000

Dometic Back Mount Rack Helm



- Four bolts and nuts secure cable's rack housing to helm.
- Helm/cable install as unit from back of dash.
- Helm requires current generation rack cables.
- Dual cable has one rack housing with two cables attached. Single helm works on both single and dual cable applications.
- One bezel is offered; angle to dash is changed by adding wedges.

Order No.	Mfg. No. / Description	List Price	
836708	(SH5210P) Single Cable	\$95.89	F0-2176000
836900	(SB39526P) Back Mount 90° Bezel Kit	\$30.09	F0-6012000
836950	(SB27449P) 20° Wedge Kit	\$31.89	F0-2322000

Dometic NFB™ Safe-T II Helm



- Collet and hitch pin secure QC cable to helm.
- One bolt holds spent travel tube.
- Cast finish helm has No FeedBack feature.

Order No.	Mfg. No. / Description	List Price	
836621	(SH-5150P) Single Cable	\$171.59	F0-1102100
836811	(SB27150P) Rotary NFB 90° Bezel Kit	\$38.19	F0-3762000
836847	(SB-27483P) Safe-T QC 20° Bezel Kit	\$45.99	F0-9123000

Dometic NFB™ Pro Rack Helm



- Four bolts and nuts secure cable's rack housing to helm.
- Helm has No FeedBack feature.
- Helm/cable install as unit from back of dash.
- Helm requires current generation rack cables.
- Dual cable has one rack housing with two cables attached. Single helm works on both single and dual cable applications.
- One bezel is offered; angle to dash is changed by adding wedges.

Order No.	Mfg. No. / Description	List Price	
836758	(SH5230P) Single/Dual Cable	\$186.99	F0-9803100
836912	(SB39544P) Rack NFB 90° Bezel Kit	\$31.09	F0-6712000
836950	(SB27449P) 20° Wedge Kit	\$31.89	F0-2322000

Dometic 4.2 NON NFB Helm



- For the boat owner that likes the ease of the 4.2 mechanical advantage and does not want the NFB clutch in the helm.
- Great for pontoon boats and sail boats.

Order No.	Mfg. No. / Description	List Price	
836594	(SH4951P) Single Cable	\$498.99	Z0-4342300
836582	(SH4952P) Dual Cable	\$317.69	F0-8322200

Dometic HPS Rotary Helm



- HPS Rotary High Performance Steering is the best 3-turn way to steer a power-assisted sterndrive.
- Designed exclusively for power-steered boats.

Order No.	Mfg. No. / Description	List Price	
836506	(SH5180P) Single Cable	\$279.99	Z0-9918100

Dometic JBS Helm



- Designed exclusively for jet boats.
- Ultra-compact helm with stylish 4.4" bezel is easy to install and very rugged.
- 135° turning arc lock-to-lock.

Order No. Mfg. No. / Description List Price
837659 (SH5087P) **\$192.59** F0-1843100



Dometic Tilt Steering



836710



836565



836678



836570

TILT MECHANISM - TAPER WHEEL SHAFT

Order No.	Mfg. No.	Type	Cover Style	List Price	
836678	(SH91800P)	Sport	Flexible Rubber Bellows	\$180.99	F0-9662100
836680	(SH91900P)	Sport Plus	Solid Round Cover	\$202.89	F0-2024100

HELMS (REQUIRE TILT MECHANISM AS SHOWN ABOVE)

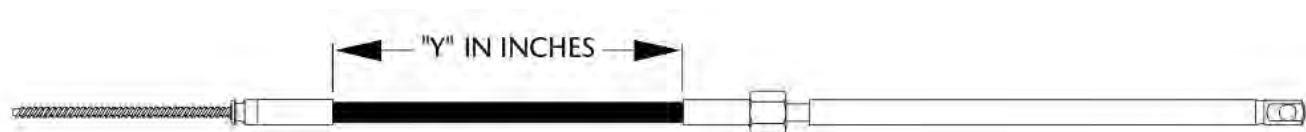
Order No.	Mfg. No. / Description	List Price	
836565	(SH91523-1P) Safe T QC Tilt Helm	\$149.69	F0-8740100
836633	(SH91190P) NFB Safe T II Tilt Helm	\$202.49	F0-4714100
7001468	(SH91526P) NFB 4.2 Single Tilt Helm	\$275.99	F0-3137200
8020194	(SH91527P) NFB 4.2 Dual Tilt Helm	\$390.19	F0-3137200
836710	(SH91610P) Back Mount Rack Tilt Helm	\$133.79	F0-5639000
836760	(SH91630P) NFB Rack Tilt Helm	\$212.39	F0-7684100
836607	(SH4971P) 4.2 NON NFB Single Tilt Helm	\$421.99	Z0-9247200

KIT - HELM AND TILT MECHANISM

Order No.	Mfg. No. / Description	List Price	
836570	(SHT91523) Includes: Safe T QC Tilt Helm	\$296.99	Z0-4039100
836695	(SHT91526) Includes: NFB 4.2 Single Tilt Helm	\$498.99	Z0-4342300
836772	(SHT91630) Includes: NFB Rack Tilt Helm	\$421.99	Z0-9247200

- Tilt steering is an option for all mechanical steering systems.
- Precise, easy turning.
- Pre-loaded dual taper bearings ensures minimal free play at the wheel.
- Smooth operation and feel.
- Shaft seals to prevent water ingress.
- 48° of tilt articulation.
- 5 positive lock positions.
- Compact footprint.
- Fits most dashes.
- When ordering mechanical Tilt Steering, note that a special Tilt version of the helm must be ordered. Also, a Tilt Mechanism must be ordered.

How to Measure Steering Cables "Measure Twice. Order Once." Courtesy of Dometic



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.

Electronics

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Safety

Steering, Controls

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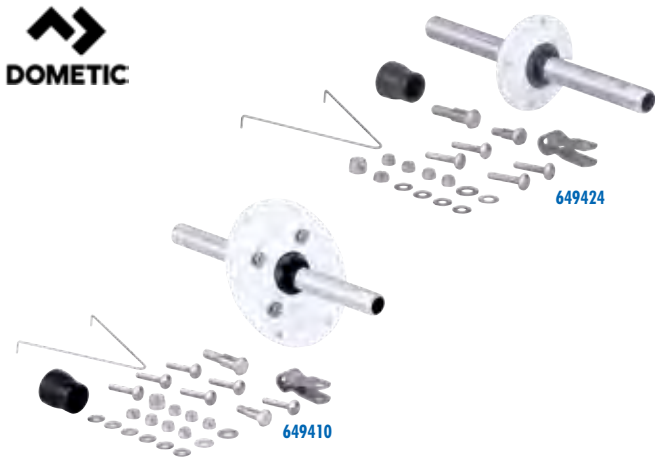
Hardware, Fasteners

Camouflage

Misc.

Comm.

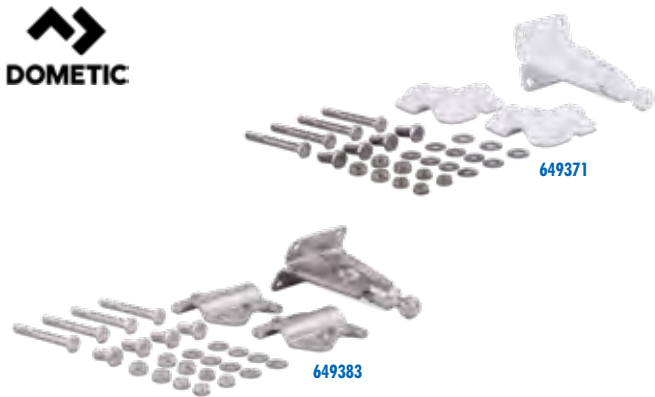
Dometic Steering Connection Kits - Splashwell Mounting



- This cable connection is used on boats where standard tilt tube or transom support mounting methods are precluded by a splashwell box or lack of engine tilt tube.
- The mounting surface is usually near perpendicular to the transom and between 12 and 16 inches from the center line of the boat and/or tiller (25" - 33" total splash well width).

Order No.	Mfg. No. / Description	List Price	
649424	(SA27254P) 90° Splashwell Mount Kit	\$146.89	FO-2820100
649410	(SA27253P) 15° Splashwell Mount Kit	\$219.99	FO-9935100

Dometic Outboard Clamp Block Kit



- A replacement part for the ball post and clamp block assembly in steering connection kits - 649439 (SA27255P) and 649434 (SA27256P).

Order No.	Mfg. No. / Description	List Price	
649371	(SA27055P) Corrosion Resistant	\$129.09	FO-6309000
649383	(SA27149P) Stainless Steel	\$218.79	FO-5135100

Dometic QC® II Helm Converter



- Upgrades older Dometic Rotary Helms to Quick-Connect cable interface.
- For helms with threaded spigots.

Order No.	Mfg. No. / Description	List Price	
838032	(SA27620P)	\$23.59	FO-1561000

Dometic Hitch Pin and Tag for Quick Connect Helm and QC II Helm Converter



Dometic Steering Connection Kits - Transom Support Mount



- Used for older model outboards without tilt tubes, low HP outboards or applications where transom design interferes with standard tilt tube mounting.
- In salt or brackish water only use 649439 - Stainless Steel Kit.

Order No.	Mfg. No. / Description	List Price	
649439	(SA27255P) Stainless Steel	\$450.29	FO-0251300
649434	(SA27256P) Corrosion Resistant	\$210.49	FO-4374100

Dometic Ski Boat Inboard Clamp Block Kit



- Heavy duty with black metal flake finish.
- 4-1/2" stand-off.

Order No.	Mfg. No. / Description	List Price	
649484	(SA27579P)	\$144.19	FO-3900100

Dometic Inboard Clamp Block Kit (Ski Boat)



- Heavy duty with black metal flake finish.
- 2-1/4" stand-off.

Order No.	Mfg. No. / Description	List Price	
649478	(SA27578P)	\$129.29	FO-0509000

Dometic Splashwell Threaded Tube with Ball



- Corrosion resistant.
- Not for through-transom use.

Order No.	Mfg. No. / Description	List Price	
649408	(SA36316P)	\$53.09	FO-6173000
649395	(SA37868P) Boat Only	\$15.99	FO-9111000

Dometic Support Tubes



Order No.	Mfg. No. / Description	List Price	
649447	(SA27274P) Aluminum	\$33.69	FO-8532000
649458	(SA27275P) Stainless Steel	\$108.19	FO-3757000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

- Replacement hitch pin for all Dometic helms with the quick connect cable attachment port and for all Dometic SA27620P QC II Helm Converters.

Order No.	Mfg. No. / Description	List Price	
836493	(SA27245P)	\$6.79	FO-5740000

Dometic Clevis Kit - Ski Boat



- Stainless steel.

Order No.	Mfg. No. / Description	List Price	
649561	(SA27576P) With Short Bolt	\$114.99	Z0-4747000
649573	(SA27577P) With Long Bolt	\$126.99	Z0-4528000

Dometic Inboard Tiller Arm Bushing Kit



Order No.	Mfg. No. / Description	List Price	
649527	(SA27313P)	\$13.39	F0-7390000

Dometic Plastic Spent Travel Tube



- For Safe-T QC, Safe-T "TS" and Big-T Helms.

Order No.	Mfg. No. / Description	List Price	
649547	(SA35680P)	\$11.19	F0-3870000

Dometic Universal Tie Bar Kit



- Maximum length: 25-1/2".

Order No.	Mfg. No. / Description	List Price	
649600	(SA27252P)	\$450.69	F0-8451300

T & R Marine Steering Tube Cleaning Brush



- Cleans corroded engine tilt tubes.
- Constructed of steel wire with 8" shaft.
- For use with electric drill motor.

Order No.	Mfg. No. / Description	List Price	
642580	(TB-10)	\$27.79	E0-4802000

Dometic Clevis Kits



- Stainless steel.

Order No.	Mfg. No. / Description	List Price	
649509	(SA27314P) With Short Bolt	\$56.39	F0-7493000
649511	(SA27329P) With Long Bolt	\$48.69	F0-8043000

Dometic Rod End Kits



- 1/2"-20 thread.

Order No.	Mfg. No. / Description	List Price	
649460	(SA27276P) Steel	\$76.29	F0-0435000
649466	(SA27277P) Stainless Steel	\$139.89	F0-2979000

Dometic Plastic Spent Travel Tube



- For NFB 4.2, NFB Safe-T II and HPS Rotary Helms.

Order No.	Mfg. No. / Description	List Price	
649550	(SA38603P)	\$11.69	F0-8180000

Marpac Steering Cable Protector



- Heavy duty rubber boot.
- Output end: 3/8" diameter.
- Cable end: 1" diameter.
- Overall diameter: 1-1/2".
- Maximum length: 10".
- Minimum length: 3-1/2".

Order No.	Description	List Price	
7-0678	Steering Cable Protector	\$6.39	G0-8240000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
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- Seating & Pedestals
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- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Uflex Packaged Mechanical Steering Systems

A convenient kit form, especially suitable as replacement steering, that includes helm, bezel and cable. The cable is available in 1-ft increments from 8 to 20 feet (specify cable length when ordering). The wheel is not included.

Uflex Fourtech™ Universal Rotary Steering Systems



- Featuring the T91 helm with a Planetary Gear Design, the Fourtech offers performance, flexibility and durability increased by top quality materials and construction.
- Centered on the main drive shaft, this helm requires less room behind the dash and is a direct “drop in” replacement for competing system; requiring no new holes for installation.
- The Fourtech package includes (T91) helm (PLANETARY GEAR DESIGN), (X34) 90° bezel and highly flexible M90 Mach cable (patented).

NEW MODELS

Order No.	Description	List Price	
8040200	Length 10'	\$223.19	FO-3265100
8040205	Length 11'	\$223.19	FO-3265100
8040210	Length 12'	\$223.19	FO-3265100
8040215	Length 13'	\$223.69	FO-8565100
8040220	Length 14'	\$223.19	FO-3265100
8040225	Length 15'	\$223.19	FO-3265100
8040230	Length 16'	\$223.19	FO-3265100
8040235	Length 17'	\$223.19	FO-3265100
8040240	Length 18'	\$223.19	FO-3265100
8040245	Length 20'	\$223.19	FO-3265100
8040250	Length 22'	\$365.59	FO-1955200
8040255	Length 24'	\$385.39	FO-7796200

Uflex Rotech™ Steering Systems



- Featuring the T71FC helm with a Planetary Gear Design, the Rotech reduces steering effort and delivers more balanced loads on the steering wheel.
- Centered on the main drive shaft, this helm requires less room behind the dash and is a direct “drop in” replacement for competing system; requiring no new holes for installation.
- The Rotech package includes (T71FC) helm, (X34) 90° bezel and M66 Universal Rotary Steering Cable with stainless steel output fittings.

Order No.	Description	List Price	
8040000	Length 8'	\$205.89	FO-2144100
8040005	Length 9'	\$205.89	FO-2144100
8040010	Length 10'	\$205.89	FO-2144100
8040015	Length 11'	\$205.89	FO-2144100
8040020	Length 12'	\$205.89	FO-2144100
8040025	Length 13'	\$205.89	FO-2144100
8040030	Length 14'	\$205.89	FO-2144100
8040035	Length 15'	\$205.89	FO-2144100
8040040	Length 16'	\$205.89	FO-2144100
8040045	Length 17'	\$205.89	FO-2144100
8040050	Length 18'	\$205.89	FO-2144100
8040055	Length 20'	\$205.89	FO-2144100

Uflex Racktech™ Steering Systems

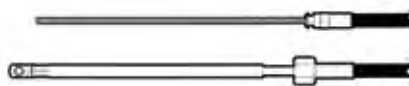


- The Racktech Rack and Pinion steering package offers a compact installation and features the M86 cable with an armor wrapped stainless steel core for maximum efficiency and minimal lost motion.
- Ideal for boats with minimal clearance behind the dash, the Racktech is recommended for power assisted sterndrives and other applications with minimal rudder torque.
- The Racktech package includes (G86) helm assembly, (X34) 90° bezel and M86 preassembled rack and steering cable.

LIMITED QUANTITIES

Order No.	Description	List Price	
8040060	Length 10'	\$214.69	FO-8205100
8040065	Length 11'	\$214.69	FO-8205100
8040070	Length 12'	\$214.69	FO-8205100
8040075	Length 13'	\$214.69	FO-8205100
8040090	Length 16'	\$214.69	FO-8205100
8040095	Length 17'	\$214.69	FO-8205100
8040100	Length 18'	\$214.69	FO-8205100
8040105	Length 20'	\$210.69	FO-8474100

Uflex M66 Universal Rotary Steering Cables



- Directly replaces Uflex, SSC6200 and 290 steering cables with no adapters.
- Features solid stainless steel engine output fittings for enhanced longevity and durability.

Order No.	Length	List Price	Order No.	Length	List Price
2006910	8'	\$140.49	2006950	16'	\$140.49
2006915	9'	\$140.49	2006955	17'	\$140.49
2006920	10'	\$140.49	2006960	18'	\$140.49
2006925	11'	\$140.49	2006965	20'	\$140.49
2006930	12'	\$140.49	2006970	22'	\$216.39
2006935	13'	\$140.49	2006975	24'	\$234.19
2006940	14'	\$140.49	2006980	26'	\$253.39
2006945	15'	\$140.49			

Uflex M90 Steering Cables



- Specifically designed for high performance and high efficiency applications, M90 Mach cable (patented) offers increased flexibility and durability by top quality materials and construction.
- Ideal solution for long cable runs and tight bend applications.
- Corrosion resistant materials, stainless steel engine side output fitting.

Order No.	Length	List Price	Order No.	Length	List Price
942400	10'	\$155.49	942474	17'	\$155.49
942412	11'	\$155.49	942486	18'	\$155.49
942424	12'	\$155.49	942501	20'	\$155.49
942436	13'	\$155.49	942513	22'	\$228.59
942448	14'	\$155.49	942537	24'	\$246.59
942450	15'	\$155.49	942549	26'	\$265.49
942462	16'	\$155.49	942551	30'	\$301.49

Uflex M86 Steering Cables

U/FLEX

- For older Morse Rack & Pinion.
- Will work with SSC124 and 300619 Rack.

Order No.	Description	List Price	Order No.	Description	List Price
2006520	Length 10'	\$180.99	2006545	Length 15'	\$180.99
2006525	Length 11'	\$180.99	2006550	Length 16'	\$180.99
2006530	Length 12'	\$180.99	2006555	Length 17'	\$180.99
2006535	Length 13'	\$180.99	2006560	Length 18'	\$180.99
2006540	Length 14'	\$180.99	2006570	Length 20'	\$180.99



Uflex Rotary Helms

U/FLEX

- Fast connect, simple installation.
- All stainless steel cable output ends.
- Made of corrosion resistant materials.
- Standard 3/4" tapered shaft.
- Minimal feedback.
- Stroke: 9".
- Lock-to-lock steering wheel turns: Approx. 3.8.
- Maximum steering wheel diameter: 16".
- Minimum steering cable bend radius: 7.9".
- Use with M66 or M90 Cable.
- Optional 90° or 20° installation.
- No hardware, use X34 or X35 mounting bezels.
- Not to be used on boats equipped with engines that exceed the maximum horsepower rating of the boat.
- For boats faster than 50 mph our hydraulic steering systems are recommended.
- T71 is available in package with ROTECH.



Order No.	Mfg. No. / Description	List Price	Order No.	Mfg. No. / Description	List Price
8040140	(T71FC) Single Cable Steering Helm	\$100.09	F0-6007000		
8040145	(T72FC) Dual Cable Steering Helm	\$155.09	F0-6580100		

Uflex Rotary Helm - Zero Torque

U/FLEX

- Ideal for outboards and surfacing propellers.
- All stainless steel cable output ends.
- Corrosion resistant materials.
- Optional 90° or 20° installation.
- Standard 3/4" tapered shaft.
- Lock-to-lock steering wheel turns: Approx 3.8.
- Stroke: 9" (228 mm).
- Maximum allowable steering wheel diameter: 16" (406 mm).
- Minimum steering cable bend radius: 7.9" (200 mm).
- Use with M66 Cable.
- No hardware, use X34 or X35 mounting bezels.
- Single cable steering helm.
- Available in ACCURA Kit which includes the X34 Bezel and M66 Cable.



Order No.	Mfg. No. / Description	List Price	Order No.	Mfg. No. / Description	List Price
8040150	(T73FC)	\$176.49	F0-4532100		

LIMITED QUANTITIES

Uflex Rotary Tilt Helm

U/FLEX

- Tilt range of 48° and five locking positions.
- Tilt device eliminates underdash movement.
- Standard 3/4" tapered shaft - stainless steel.
- All stainless steel cable output ends.
- Made of corrosion resistant materials.
- Stroke: 9".
- Lock-to-lock steering wheel turns: Approx 3.8.
- Maximum steering wheel diameter: 16".
- Minimum steering cable bend radius: 7.9".
- Use with M66 or M90 Cable.
- Use with 8040185 (X52) Tilt Mechanism
- Not to be used on boats equipped with engines that exceed the maximum horsepower rating of the boat.
- X52 tilt mechanism fits Ultraflex tilt mount rotary and rack and pinion steering helms as well as Ultraflex tilt mount hydraulic pumps except SilverSteer™ and MasterDrive™ steering systems.
- For boats faster than 50 mph our hydraulic steering systems are recommended.



Order No.	Mfg. No. / Description	List Price	Order No.	Mfg. No. / Description	List Price
8040155	(T81FC) Single Cable Steering Helm	\$146.79	F0-5720100		

Uflex Rack & Pinion Helms

U/FLEX

- All stainless steel cable output ends.
- Corrosion resistant materials.
- Optional 90° or 20° installation.
- Standard 3/4" tapered shaft.
- Lock-to-lock steering wheel turns: 3.5.
- Stroke: 8.2" (210 mm).
- Maximum allowable steering wheel diameter: 16.5" (420 mm).
- Minimum steering cable bend radius: 7.9" (200 mm).
- G86 and G88 NR steering systems are not to be used on boats equipped with engines that exceed the maximum horsepower rating of the boat.
- Available in package includes X34 bezel and M86 cable with RACKTECH.
- No hardware, use X34 or X35 mounting bezels.



Order No.	Mfg. No. / Description	List Price	Order No.	Mfg. No. / Description	List Price
8040165	(G86) Standard Helm	\$87.09	F0-6906000		
8040170	(G96) Tilt Helm (Use with Tilt Assembly X52)	\$113.99	F0-9797000		

Uflex Bezel Kits

U/FLEX

- Fits all cable helms.

Order No.	Mfg. No. / Description	List Price	Order No.	Mfg. No. / Description	List Price
3715130	(X34) Black 90° Mounting	\$28.89	F0-2202000		
8040175	(X34W) White 90° Mounting	\$41.29	F0-0982000		
8040180	(X35) Black 20° Mounting	\$35.59	F0-1942000		



Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailer

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Ezy-Glide "Stik II" Stick Steering - Model 840



- A mechanical steering system designed so the operator may be positioned in the front for better visibility and convenience.
- A one piece stainless steel drive spool along with a durable high impact housing provide a superior single lever steering platform for today's fisherman.
- The slower ratio provides the added mechanical advantage needed for higher horsepower as well as 4 stroke engines.
- Maximum horsepower rating of 70 HP/90 HP Jet.
- Total handle travel: 58"/206°.
- Steering ratio: 6.4/1.
- Housing dimensions: Approximately 6" x 6".
- Lever length: 16".

Order No.	Description	List Price	
336203	Length 8'	\$474.00	FO-0813300
336215	Length 9'	\$474.00	FO-0813300
336227	Length 10'	\$474.00	FO-0813300
336239	Length 11'	\$474.00	FO-0813300
336241	Length 12'	\$474.00	FO-0813300
336253	Length 13'	\$474.00	FO-0813300
336265	Length 14'	\$474.00	FO-0813300
336277	Length 15'	\$474.00	FO-0813300

Ezy-Glide Stik Steering Accessories



Order No.	Mfg. No. / Description	List Price	
3362034	(DC-212) Dress Cover for all Ezy-Stik Systems	\$8.50	FO-5950000
3362036	(H-260) Lever (1/2" x 16"), Knob and Nut	\$30.00	FO-0012000
3362038	(HP-900) Mounting Hardware Pack	\$5.75	FO-3040000
3362039	(K-060) Black Knob for 1/2" Handle	\$5.00	FO-0530000

Perko Fig. 1226 Rope Clamp



- Chrome plated zinc alloy.
- For 1/8" or 3/16" rope.
- Length overall 1-1/4", width 11/16".
- Sold 2 per display pack.

Order No.	Mfg. No. / Description	List Price	
533554	(1226 DPO CHR)	\$10.99	FO-9670000

Panther Auxiliary Motor Steering Kit - Zinc



- Ideal way to provide remote control steering for any type or size of outboard trolling motor up to 25 horsepower.

Order No.	Mfg. No. / Description	List Price	
1941024	(552400) Zinc Plated Steel for Freshwater	\$40.99	FO-9682000
1942401	(552401) Zinc Plated Steel for Freshwater (Bulk)	\$40.99	FO-9682000
1942600	(552600) Stainless Steel for Saltwater	\$80.09	FO-6065000
1945100	(555100) Quick Disconnect for 1941024 (552400)	\$23.99	JO-9131000

Ezy-Glide "Stik III" Stick Steering - Model 870



- The Ezy-Stik III has incorporated many of the outstanding and time proven features of the Model 840. Such as a one piece stainless steel drive spool and reinforced composite housing.
- The Model 870 has been developed due to the increased demand for a system with quicker response and shorter lock-to-lock travel distance.
- Maximum horsepower rating of 70 HP/90 HP Jet.
- Total handle travel: 44.8"/161°.
- Steering ratio: 5.0/1.
- Housing dimensions: Approximately 7-1/2" x 7-1/2".
- Lever length: 16".

Order No.	Description	List Price	
336316	Length 10'	\$474.00	FO-0813300
336280	Length 11'	\$474.00	FO-0813300
336281	Length 12'	\$474.00	FO-0813300
336284	Length 13'	\$474.00	FO-0813300
336285	Length 14'	\$474.00	FO-0813300
3362029	Length 15'	\$474.00	FO-0813300

NEW MODEL

Ezy-Glide Replacement Cables for "Stik II" and "Stik III"



Order No.	Mfg. No. / Description	List Price	
336633	(RC-0800) Length 8'	\$239.00	FO-0376100
336645	(RC-0900) Length 9'	\$239.00	FO-0376100
336660	(RC-1000) Length 10', Reach 112"	\$239.00	FO-0376100
336300	(RC-1100) Length 11', Reach 124"	\$239.00	FO-0376100
336301	(RC-1200) Length 12', Reach 136"	\$239.00	FO-0376100
336302	(RC-1300) Length 13', Reach 148"	\$239.00	FO-0376100
336661	(RC-1400) Length 14', Reach 160"	\$239.00	FO-0376100
336662	(RC-1500) Length 15', Reach 172"	\$239.00	FO-0376100

NEW MODELS

Panther Marine Engine Trolling Motor Tie Bar Kits



- Connects an auxiliary trolling motor to SeaStar Solutions or Uflex hydraulic steering.
- The Trolling Motor Tie Bar is 1/2" thick and along with the drive bracket composed entirely of stainless steel.
- The rod is fully threaded so it can be cut for custom installations.
- Up to 40HP.

Order No.	Mfg. No. / Description	List Price	
1942700	(552700) SeaStar Solutions Steering	\$302.99	FO-9021200
1941831	(552900) Uflex Steering	\$337.09	EO-2825200

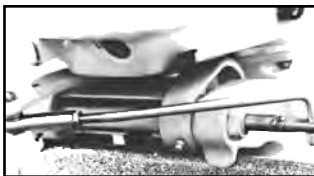
REPLACEMENT DRIVE BRACKET

- Drive bracket for SeaStar Solutions.

Order No.	Mfg. No. / Description	List Price	
1945102	(552750)	\$81.99	EO-9416000

T & R Marine Standard 3/8" Diameter Steering Link Arm

T&R



- Plated steel construction.
- Complete with adjustable ball joint and nylon lock nuts to insure vibration proof locking.
- Diameter 3/8".
- Chrysler/Force, up to 140 HP.

Order No.	Mfg. No. / Description	List Price	
2077523	(SLA-960F)	\$74.59	E0-4955000

T & R Marine Clamp Mount Connection Kit

T&R



- This kit mounts on the clamp bracket of the engine to clear most braces in the engine well.
- Steering tube is provided with grease fitting and O-ring.
- All parts furnished for simple hook up.
- The steering kit must be removed before removing the engine, thus discouraging theft.
- Stainless steel and aluminum makes this kit corrosion resistant.
- Tohatsu/Nissan, 9.9, 12, 15, 18 HP, 1982 and newer.

Order No.	Mfg. No. / Description	List Price	
2077513	(OSM-3796)	\$278.29	E0-2780200

T & R Marine Clamp Mount Connection Kit

T&R



- This kit mounts on the engine clamp bracket to provide thru tube steering.
- Stainless steel kit with aluminum brackets and stainless steel hardware.
- Fits: Johnson/Evinrude, 25 HP.

Order No.	Mfg. No. / Description	List Price	
2077506	(OSM-3225)	\$301.89	E0-2462200

T & R Marine Dual Cable Connection Kits - Same Side

T&R

- Dual cable kit for cables installed down same side of boat (port or starboard).
- Steering tube is provided with grease fittings and O-ring.
- All parts provided for simple hook up.
- Stainless steel and aluminum makes this kit corrosion resistant.

MERCURY 1980 & NEWER BLACK MAX MARINER V6 1980 & NEWER

Order No.	Mfg. No. / Description	List Price	
2077508	(OSM-3665)	\$439.29	E0-7492300

YAMAHA 115-200 HP, 1984 AND NEWER

Order No.	Mfg. No. / Description	List Price	
2077510	(OSM-3790)	\$415.49	E0-2611300

T & R Ball Joint

T&R



- Plated steel.
- Spring loaded to give you zero end-play.
- 1/2-20 thread.

Order No.	Mfg. No. / Description	List Price	
3439003	(FBJ-9003)	\$50.09	G1-6523000

Buck-Algonquin Threaded Ball

BUCK ALGONQUIN



- 304 stainless steel.
- Complete with two nuts.
- Ball diameter 1".
- Overall length 3-1/8".
- Thread size 1/2" x 2".

Order No.	Mfg. No. / Description	List Price	
261405	(70THDBALL)	\$38.39	H0-3032000

Buck-Algonquin Swivel Socket

BUCK ALGONQUIN



- Bronze.
- Accommodates ball type steerers.
- Complete with cotter pin and set screw.
- Overall length 5".
- Thread size 3/4"-14.
- Ball opening 1".

Order No.	Mfg. No. / Description	List Price	
261393	(00SWS75)	\$219.89	H0-3913100

T & R Marine Super 7/16" Diameter Steering Link Arms

T&R



- Plated steel construction.
- Complete with adjustable ball joint and nylon lock nuts to insure vibration proof locking.
- Diameter 7/16".

Order No.	Mfg. No. / Description	List Price	
2077520	(SLA-945F) Johnson/Evinrude, 120-235 HP	\$110.99	E0-4238000
2077522	(SLA-955F) Mercury, 120-200 HP	\$89.49	E0-2176000

T & R Marine Clamp Mount Connection Kit

T&R



- Constructed of aluminum and plated steel.
- This kit fits under engine clamps and is designed to prevent motor from jumping off the transom.
- Also prevents damage to the transom by the clamps.
- All parts furnished for simple hook up.
- Mariner: 9.9, 15 HP - 1982 and newer. Suzuki: 9.9, 15, 16, 25 HP - 1982 and newer. Johnson/Evinrude: 9.9, 15, 25, 30, 35, 40 HP - 1977 and newer. Yamaha: 9.9, 15 HP - 1984 and newer.

Order No.	Mfg. No. / Description	List Price	
633607	(FWK-3475)	\$177.99	E0-9433100

T & R Marine Dual Steering Connection Kits - Same Side

T&R



- Dual cable kit for cables installed down same side of boat (port or starboard).
- Steering tube is provided with grease fitting and O-ring.
- All parts provided for simple hook up.
- Stainless steel and aluminum makes these kits corrosion resistant.
- Note: Steering link arm not included in these kits.

MERCURY 1980 & NEWER BLACK MAX MARINER V6 1980 & NEWER

- Fits all Mercury/Mariner 2.4. Suzuki 150-150SS-200 HP 1986 and newer, 115-140 HP 1987 and newer.

Order No.	Mfg. No. / Description	List Price	
634053	(OSM-3798)	\$165.29	E0-7932100

JOHNSON/EVINRUDE

Order No.	Mfg. No. / Description	List Price	
2077509	(OSM-3789) V4 and V6, 1989 and Newer	\$165.29	E0-7932100
634027	(OSM-3794) 70-235 HP, 1977-88, except 225	\$165.29	E0-7932100

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailer

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

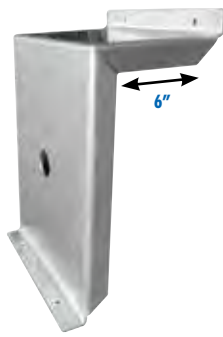
Hardware, Fasteners

Camouflage

Misc.

Comm.

Ezy-Glide Rigger's Pal Mounting Bracket



- This aluminum mount pad is for port mount installation adjacent to the operator's seat.
- The Rigger's Pal Mount Pad with its compact and space-saving design is for mounting the helm of the stick steering system.
- Dimensions: 12" high, 6" deep, 10" wide.

Order No.	Mfg. No. / Description	List Price	
336657	(RP-12)	\$121.00	FO-0748000

Ezy-Glide Adjustable Mounting Bracket



- Adjustable aluminum mount pad for installation adjacent to the operator's seat.
- Uses the same compact and space-saving design as the Rigger's Pal for mounting the helm of the stick steering system.
- Adjusts by 1" positions both in depth and height.
- 7 height positions and 5 depth positions.
- Dimensions: 10" wide, adjusts from 4" to 18-1/4" high and adjusts from 8-3/4" to 11-7/8" deep.

Order No.	Mfg. No. / Description	List Price	
366802	(AB-12)	\$180.50	FO-5362100

NEW PRODUCT

T-H Marine Steering Console Mount



- Aluminum console features welded construction, plywood reinforced face for steering wheel mounting, adjustable height, space for mounting switches and instruments and a flat top for depth finder mounting.
- Adaptable to most aluminum or fiberglass boats.
- Manufactured from .090" thick material.
- Overall width: 24", top of console: 20". Overall depth: 10-1/2", top of console: 5-1/2". Overall height: Adjustable from 16" to 26".

Order No.	Mfg. No. / Description	List Price	
640905	(SCM-2DP)	\$313.79	EO-4353200

MPI Products Outboard Rigging Tubing



- Our premium outboard rigging tubing has a crush resistant proprietary PE blend construction, which provides excellent flexing and abrasion protection.
- Material is resistant to bilge acids, fuel solutions and ultra violet rays.
- For all bracket mounted outboard motors.
- Is formulated for maximum resistance to UV and ozone.
- Temperature range is -40° F to 160° F.

Order No.	Mfg. No. / Description	List Price	
641818	(127-2006) Black 2" ID Length 50'	\$306.79	FO-5741200
641819	(127-2003) Black 2" ID Length 10'	\$63.49	FO-4444000
768626	(128-2006) White 2" ID Length 50'	\$306.79	FO-5741200
768640	(127-2126) Black 2-1/2" ID Length 50'	\$355.09	FO-6584200
768652	(127-3006) Black 3" ID Length 50'	\$401.59	FO-1118200

T-H Marine Rigging Hose



- Provide an excellent system to protect cables and wiring from dirt, abrasion, sun and water.
- Durable, flexible and kink resistant.
- 50' roll.

Order No.	Mfg. No. / Description		List Price	
6400255	(RFH-1-DP) Diameter 2" Black		\$248.69	FO-8047100
64000260	(RFH-2-DP) Diameter 2" White		\$277.69	FO-8349100

Marpac Rigging Flange



- Fits 2" rigging hose.

Order No.	Description	List Price	
7-7025	Rigging Flange	\$16.99	GO-8311000

NEW PRODUCT

MPI Products Outboard Rigging Flange



- Premium quality, crush resistant proprietary PE blend construction provides excellent flexing and abrasion protection.
- Material is resistant to bilge acids, fuel solutions and ultra violet rays.
- For all bracket mounted outboard motors.
- Is formulated for maximum resistance to UV and ozone.
- Temperature range is -40° F to 160° F.
- Black.

Order No.	Mfg. No. / Description	List Price	
641806	(747-2000) 2" ID	\$18.09	FO-6621000
768715	(747-2120) 2-1/2" ID	\$21.89	FO-2351000
768727	(747-3000) 3" ID	\$40.49	FO-4382000

NEW PRODUCT

- Adjustable flange allows alignment to motor.
- Fits 2" rigging hose.

Order No.	Description	List Price	
7-7030	Rigging Flange	\$25.99	GO-1471000

T-H Marine Rigging Flanges



- An excellent system to protect cables and wiring from dirt, abrasion, sun and water.
- The rigging flange serves to connect the rigging hose, which comes from the engine, to the boat.
- The molded polypropylene flange is internally threaded to retain rigging hose and to make rigging adjustment simple.
- The back side of the flange is textured to allow inverted mounting.
- Fits 2" rigging hose.

BLACK

Order No.	Mfg. No. / Description	List Price	
6400252	(RF-1-DP)	\$17.99	FO-9521000

CHROME PLATED

Order No.	Mfg. No. / Description	List Price	
641957	(RF-1-CP-DP)	\$35.09	FO-6542000

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Misc.

Comm.

T-H Marine Black Rigging Flange Kit



- Flange kit includes: Black rigging flange with 4' of black rigging hose.

Order No.	Mfg. No. / Description	List Price	
6400257	(RFK-1-DP)	\$57.99	FO-9504000

T-H Marine Rigging Flange with Fuel Hose Port and Hose Union



Typical Fuel Hose Assembly

- Completes professional rigging installation.
- Split design allows installation on pre-rigging boats.
- Fuel hose port fits Type "A" Hose and hose union fits Type "B" Hose.
- Installs with T-H Marine Rigging Hose.
- Complies with ABYC - NMMA Specs.

Order No.	Mfg. No. / Description	List Price	
640961	(RFFHP-1-DP) Rigging Flange w/Fuel Hose Port	\$21.79	FO-5251000
640970	(RFHU-1-DP) Rigging Flange Hose Union	\$18.29	FO-0821000

Marpac Rigging Flange with Fuel Hose Port and Hose Union



Complete Assembly

Order No.	Description	List Price	
7-7027	Rigging Mount Flange with Fuel Hose Port	\$16.99	GO-8311000
7-7029	Rigging Flange Hose Union	\$13.99	GO-7390000
7-7033	Rigging Hose - 2" x 50' L	\$229.00	GO-3435100

NEW PRODUCT

Marpac Motor Well Boots



- Protects fuel lines, wires and cables.
- Gas and oil resistant.
- Keeps water out.
- Adjustable fit.
- Black.

Order No.	Diameter Opening	List Price	
7-0677	3"	\$7.29	GO-8840000
7-0674	3-1/2"	\$3.29	GO-0220000
7-0675	4-1/2"	\$4.19	GO-1820000

T-H Marine Cable Boots



- Constructed of rugged black vinyl that resists ultraviolet rays, gasoline and oil.
- No longer is it necessary to split or cut your motor well boot to pass cables through. This cable boot provides a fully open area to pass wiring and cables through and when rigging is complete simply pull cable tie snug around wires and cable to complete installation.

Order No.	Mfg. No. / Description	List Price	
641906	(CB-2-DP) 2" Boot	\$9.69	FO-8760000
641907	(CB-1-DP) 3" Boot	\$11.29	FO-0970000
641921	(CB-4-DP) 4-1/2" Boot	\$14.49	FO-4101000

T-H Marine Cable Boot Grommets



- Cable boot fits snugly onto top of grommet.
- Fits underneath cable boot to provide an internal sleeve to protect cables, hoses and wires from chafing against a rough hole cut or sharp edge.
- Fits into pass-thru hole for steering, electrical and control cables and provides a smooth, cafe-free fitting.
- Black.

Order No.	Mfg. No.	Fits	List Price	
6400109	(CBG-2-DP)	Fits 641906 (CB-2-DP) 2" Boot	\$7.09	FO-6940000
6400108	(CBG-1-DP)	Fits 641907 (CB-1-DP) 3" Boot	\$7.69	FO-8350000

T-H Marine Reinforcing Rings for Cable Boots



- Installs over the base flange of T-H Marine cable boots.
- Provides a neat and tidy trim.
- Reinforces the softer vinyl cable boot to protect it from pulling thru screws due to movement of cables.
- Black.

Order No.	Mfg. No. / Description	List Price	
641912	(CBR-2-DP) Fits 641906 (CB-2-DP) 2" Boot	\$4.39	FO-7030000
641909	(CBR-1-DP) Fits 641907 (CB-1-DP) 3" Boot	\$4.69	FO-8230000
641914	(CBR-4-DP) Fits 641921 (CB-4-DP) 4-1/2" Boot	\$5.09	FO-6530000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

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- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Moeller Plastic Tiller Rope Grommet



- Prevents damage to control cables.
- Recessed mounting holes for #6 fasteners.
- Black.
- Sold per pair.

Order No.	Mfg. No. / Description	List Price	
486568	(020101-10) 3" OD	\$7.59	F0-1350000

Marpac Utility Grommets



- Tough, flexible black vinyl.
- It is designed for multiple uses in boats, such as cable pass-throughs, landing net holders, fishing rod supports or protectors, stern light holders or any number of other uses.
- Can be used either horizontally or vertically.
- Sold per pair.

Order No.	Description	Maximum Hole Size:	List Price	
7-0615	2-3/4" OD	1-3/4"	\$9.09	F0-6360000
7-0614	3-3/8" OD	2-3/8"	\$10.09	F0-6070000

Rig Rite Rigging Grommets



- Black rubber and plastic grommet.
- Packed on header cards.

Order No.	Mfg. No. / Description	List Price	
2970611	(610) 1-7/8" OD 1" ID	\$5.69	H0-1430000
2970615	(615) 2-3/4" OD 1-3/4" ID	\$5.49	H0-9230000
2970620	(620) 3-3/8" OD 2-1/4" ID	\$6.59	G1-8240000

T-H Marine Utility Grommets



- Made of tough, flexible vinyl.
- It is designed for multiple uses in boats, such as cable pass thru, landing net holder, fishing rod support or protector, stern light holder or any number of other uses.
- Black.
- Sold per pair.

Order No.	Mfg. No. / Description	Max. Hole Size:	List Price	
641767	(UG-2-DP) 2-3/4" OD	1-3/4"	\$13.89	F0-2790000
641781	(UG-1-DP) 3-3/8" OD	2-3/8"	\$14.49	F0-4101000
641793	(UG-3-DP) 4" OD	3"	\$19.49	F0-4631000

T-H Marine Zippered Rigging Sleeve - Black



- Protects your cables and hoses with this easy to remove rigging sleeve.
- Made of rugged Sunbrella fabric, this sleeve will withstand the elements and resist fading.
- Easily zips on and off to access cables or hoses when needed.
- Ends are secured by cable ties sewn into pockets.
- Length 48".

Order No.	Mfg. No. / Description	List Price	
640950	(ZRS-1DP)	\$70.09	E0-7525000

MPI Products Series 123 Split Conduit Tubing



- Our premium wire and cable conduit tubing creates a quality appearance in wiring systems.
- Corrugated, slit polyethylene provides excellent conduit for multiple wire or cable routing.
- An ideal product for hose abrasion protection.
- Flexible and specially formulated in accordance with UL94 V-2 tests for flammability.
- Meets tough ABYC standards.
- Is formulated for maximum resistance to UV and ozone.
- Temperature range is -40° F to 200° F.
- Length 50'.
- Black.

LIMITED QUANTITIES

Order No.	Mfg. No. / Description	List Price	
768892	(123-0586) 5/8" ID	\$37.39	F0-7162000
543319	(123-0346) 3/4" ID	\$40.59	F0-1482000
768943	(123-1126) 1-1/2" ID	\$120.19	F0-3148000

T-H Marine Flex™ Expandable Braided Sleeving



- Lightweight, braided jacketing for bundling and protecting wires, cables and hoses.
- Braided from high temperature yarns.
- Chemical resistant.
- The unique expansion characteristics makes T-H FLEX easy to slip on.
- The sleeving cuts easily and cleanly with a hot knife and once installed, will beautify and protect any wire, hose or cable application.

LIMITED QUANTITIES

Order No.	Mfg. No. / Description	List Price	
642344	(FLX-25-DP) Diameter 1/4" Length 100'	\$60.89	F0-2624000

Dometic Baystar Outboard Hydraulic Steering

BAYSTAR™

BY  DOMETIC

Dometic BayStar hydraulic steering is brought to you by the manufacturers of Dometic, the most trusted name in pleasure boat steering. Dometic BayStar allows you to install all of the safety, reliability and comfort of hydraulic steering onto your single engine vessel with a Coast Guard approved transom/HP rating up to MAX 150 HP. Combine this with the superior design team, rigid ISO quality control and teamed with the best materials and precision manufacturing, Dometic BayStar continues the tradition bringing comfort and safety to boating.

The Dometic BayStar Steering System consists of a super low friction helm for smooth comfortable steering, a balanced cylinder - featuring a compact design that fits most splashwells. The systems are easy to install with "cut-to-length" tubing. Available in complete kits or by individual components.

Dometic BayStar is NOT recommended in applications with high steering effort (i.e. such as those using high performance engines or boats capable of attaining high speeds), customers should consider upgrading the system to Dometic Pro Steering. This will reduce the steering effort due to the fact that Dometic Steering provides more output power resulting in lower steering effort.

Dometic Baystar Outboard Hydraulic Steering Kits



- Consist of: **799885** (HH4314-3) Baystar Standard Helm, **800616** (HC4645H) Baystar Cylinder, **801060** (HT4420H) Baystar 20' Tubing Kit, **799784** (HA5438) Filler Kit and (2) **799779** (HA5430) Hydraulic Fluid, Quart.

Order No.	Mfg. No. / Description	List Price	MAP PRICE
799116	(HK4300-4) Without Tubing	\$869.99	Z0-9015600

BAYSTAR HYDRAULIC PLUS STEERING KIT

- Consist of: **799950** (HH4514-3) Baystar Plus Helm, **800616** (HC4645H) Baystar Cylinder, **799784** (HA5438) Filler Kit and (2) **799779** (HA5430) Hydraulic Fluid, Quart.

Order No.	Mfg. No. / Description	List Price	MAP PRICE
799120	(HK4500A-3) Without Tubing	\$993.19	D0-5549700

Dometic Baystar Outboard Hydraulic Steering Cylinder



- Balanced cylinder, featuring a compact design that fits most splashwells and provides full engine movement.
- Requires a minimum 21" splashwell width.
- Use **800577** (HP4600) Seal Kit.
- Some installations require spacer kit **800575** (HO-5090).

Order No.	Mfg. No. / Description	List Price	MAP PRICE
800616	(HC4645-3)	\$598.99	Z0-9853400
800618	(HC4647-3) Honda	\$655.79	F0-5095400
800619	(HC4648-3) Short Plate	\$655.79	F0-5095400
800575	(HO5090) Cylinder Spacer Kit	\$40.89	F0-2682000

Dometic Baystar Outboard Hydraulic Tilt Steering Kit



- All the same features of our **799114** (HK4200A-3) Baystar Outboard Hydraulic Steering Kit, but with the convenience of a tilt helm.
- Consist of: **799899** (HH4315-3) Baystar Sport Tilt Helm, **800616** (HC4645H) Baystar Cylinder, **800506** (HO-5120) 20' Hydraulic Hose and (2) **7-1087** Hydraulic Fluid, Quart.

Order No.	Description	List Price	MAP PRICE
799102	Baystar Outboard Hydraulic Tilt Steering Kit	\$1,764.29	F0-0053210

Dometic Baystar Outboard Hydraulic Steering Helms



Helm pumps are fitted with positionable O-ring style hose fitting ports (commonly referred to as ORB). Do NOT attempt to install an NPT pipe fitting into a -3 helm hose fitting port. Doing so will lead to irreparable damage to the helm. ONLY use Dometic O-ring style hose fittings (ORB).

- Both the standard and tilt helms require a 3" cut-out hole in the dash.
- Gives 5.2 wheel turns lock to lock.
- Standard 3/4" tapered steering shaft.

Order No.	Mfg. No. / Description	List Price	MAP PRICE
799873	(HH4311-3) Baystar 1.1 Front Mount Helm	\$585.39	F0-7790400
799885	(HH4314-3) Baystar 1.4 Front Mount Helm	\$518.99	Z0-9977300
799899	(HH4315-4) Baystar 1.4 Sport Tilt Helm	\$902.29	Z0-7151600
799950	(HH4514-3) Baystar Plus 1.4 Front Mount Helm	\$541.99	Z0-9397300

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Baystar Outboard Hydraulic Steering

Dometic Baystar Tubing Kit



- Can be used with all Baystar helms with appropriate fittings.
- Kit contains (2) 20' lengths of tubing.

Order No. Mfg. No. / Description
801060 (HT4420H)

List Price **\$203.69** MAP PRICE FO-8524100

Dometic Gland Kits for Baystar Cylinder (Old Style)



- Complete assembled end gland with replacement retaining wire.
- Requires two seal kits to completely re-seal the cylinder, both port and starboard (sold separately).

Order No.	Mfg. No. / Description	List Price	Part No.
800580	(HP5607) Baystar Cylinder - Port Side	\$158.79	FO-5111100
800582	(HP5608) Baystar Cylinder - Starboard Side	\$158.79	FO-5111100

Dometic Baystar Outboard Hydraulic Steering Components



Order No.	Mfg. No. / Description	List Price	Part No.
801387	(HS5147) Seal Kit for HH4016/HH4015 Helms	\$20.19	FO-3141000
800602	(HA4642) Baystar Cylinder Pivot Plate	\$140.59	FO-1489000
800620	(HF4202) Horizontal Bleeder Tee (2 Per Kit)	\$66.19	FO-3364000
800577	(HP4600) Gland Kit for Baystar Cylinder - Compact	\$149.99	FO-9940100
796411	(HP6050) Cylinder Support Rod Kit (2 Per Kit)	\$123.29	FO-0368000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety

Steering, Controls

Dometic Baystar Outboard Hydraulic Steering Application Guide

Engine Manufacturer	Year	Model	Cylinder	Notes
HONDA	1992 to Date	30-50 HP	HC4645-3	2
	1996 to Date	75-90 HP	HC4645-3	
	2015 to Date	BF100	HC4645-3	
	1998 to 2010	115-130 HP	HC4647-3	
	2003 to Date	135-150 HP	HC4645-3	
	2010 to Date	115 HP	HC4645-3	
JOHNSON/EVINRUDE	1991 to Date	40-150 HP	HC4645-3	2
	1997 to Date	115 HP FICHT	HC4658-3	4
	1997 to Date	75-150 HP FICHT	HC4645-3	5
	1998 to Date	40-140 HP 4-Stroke	HC4658-3	1, 2, 4
MERCURY/MARINER	1984 to Date	75-150 HP	HC4645-3	5
	1998 to Date	40-60 HP	HC4648-3	1, 2
SELVA	2000 to Date	25-70 HP	HC4648-3	1, 2
	2000 to Date	90-150 HP 4-Stroke	HC4645-3	5
	2011 to 2013	115 HP	HC4658-3	
SUZUKI	1986 to Date	150 HP	HC4645-3	5
	1987 to 2002	115-140 HP	HC4645-3	1
	1990 to 2000	90-100 HP	HC4645-3	
	1998 to Date	40-70 HP 4-Stroke	HC4645-3	1, 2
	2001 to Date	90-140 HP 4-Stroke	HC4658-3	1, 4
TOHATSU	1990 to Date	40-140 HP	HC4645-3	2
	2014 to Date	BFT60-BFT150	HC4645-3	
YAMAHA	1998 to Date	40-50 HP	HC4645-3	2
	1998 to Date	60 HP	HC4645-3	3
	1986 to Date	70-90 HP 2-Stroke	HC4645-3	1
	1997 to Date	80-150 HP 4-Stroke	HC4645-3	5
	2000 to Date	25-70 HP 4-Stroke	HC4648-3	1, 2
	2011 to Date	F115A Inc. SHO 90 & 115	HC4658-3	
2014 to Date	F115B	HC4645-3		

1. Requires Cylinder Spacer Kit **800575** (H05090).
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 #63D-48511-004D must be installed.
4. Cylinder **800616** (HC4645H) 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 150 HP engines or Command Thrust engines MUST use Dometic.

Dometic Baystar Cylinder Pivot Plates



HA4640
Comes with cylinder HC4645H



HA4641
Converts HC4645H to HC4647H



HA4642
Converts HC4645H to HC4648H



HA4643
Converts HC4645H to HC4658H

NOTICE: HC4645H compact cylinder is included in the BayStar Steering Kits. If your engine requires the use of a cylinder other than HC4645H or HC4658H then please refer to the figures above for additional replacement pivot plate. Available Special Order Only.

- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Outboard Hydraulic Steering Packages

Dometic Front Mount Outboard Hydraulic Steering Package



- Provides easier and smoother steering than any other competitive systems.
- Standard 3/4" tapered steering wheel shaft.
- Suitable for most major outboard engine brands.
- Single engine, threaded tilt tube 350 HP maximum.
- Dual engines, threaded tilt tube 450 HP maximum combined. (Order tie bar separately.)
- Consist of:
 - (1) **800000** (HH5271-3) Front Mount Steering Helm
 - (1) **800639** (HC5345-3) Front Mount Cylinder
 - (2) **799779** (HA5430) Hydraulic Fluid, Quart
- Fittings for most applications
- Please refer to a cylinder application chart when ordering.
- Package without hose kit.

MUST ORDER HOSE KIT SEPARATELY PAGE 413

MAP PRICE

Order No.	Mfg. No. / Description	List Price	
799126	(HK6400-4)	\$1,449.99	Z0-9478010

Dometic Pro Front Mount Outboard Hydraulic Steering Package



- For Performance Boats
- High-speed straight course running with instant steering response.
- High power/speed (50 mph/150 HP and up) outboard boats.
- Precision built and easy to install.
- Typical applications: Bass, Ski and other high speed outboard powered boats.
- Designed for long life in a marine environment.
- Suitable for most major outboard engine brands.
- Single engine, threaded tilt tube 300 HP maximum.
- Consist of:
 - (1) **805854** (HH5770-3) PRO Front Mount Steering Helm
 - (1) **800745** (HC6345-3) PRO Front Mount Cylinder
 - (2) **799779** (HA5430) Hydraulic Fluid, Quart
- Please refer to cylinder application chart when ordering.
- Package without hose kit.

MUST ORDER HOSE KIT SEPARATELY PAGE 413

MAP PRICE

Order No.	Mfg. No. / Description	List Price	
798125	(HK7500-4)	\$1,783.99	Z0-9989210

Dometic Classic Tilt Helm Outboard Hydraulic Steering Package



- Dometic tilt steering's strong design and versatility mean style, durability and comfort for almost any boat!
- 5 wheel positions allow adjustment to the most comfortable steering position.
- 48° tilt range (18 down - 30 up).
- Standard 3/4" tapered steering wheel shaft.
- Consist of:
 - (1) **800045** (HH6541-3) Classic Tilt Steering Helm
 - (1) **800639** (HC5345-3) Front Mount Cylinder
 - (2) **799779** (HA5430) Hydraulic Fluid, Quart
- Package without hose kit.

MUST ORDER HOSE KIT SEPARATELY PAGE 413

MAP PRICE

Order No.	Mfg. No. / Description	List Price	
799146	(HK6400TC-4)	\$1,930.29	D0-3244510

Dometic Classic Tilt Helm Outboard Hydraulic Steering Packages



- Dometic tilt steering's strong design and versatility mean style, durability and comfort for almost any boat!
- 5 wheel positions allow adjustment to the most comfortable steering position.
- 48° tilt range (18 down - 30 up).
- Standard 3/4" tapered steering wheel shaft.
- Consist of:
 - (1) **800045** (HH6541-3) Classic Tilt Steering Helm
 - (1) **800639** (HC5345-3) Front Mount Cylinder
 - (1) Hose Kit
 - (2) **799779** (HA5430) Hydraulic Fluid, Quart

Order No.	Description	List Price	
799293	16' Hose Kit	\$2,356.99	F0-9894610
799291	20' Hose Kit	\$2,359.59	F0-1715610
799295	24' Hose Kit	\$2,425.59	F0-1979610

- Electronics
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- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Outboard Hydraulic Steering Packages

Dometic Sport Tilt Helm Outboard Hydraulic Steering Package



- Dometic tilt steering's strong design and versatility mean style, durability and comfort for almost any boat!
- 5 wheel positions allow adjustment to the most comfortable steering position.
- 48° tilt range (12 down - 36 up).
- Standard 3/4" tapered steering wheel shaft.
- Consist of:
 - (1) **805258** (HH6191-3) Sport Tilt Steering Helm
 - (1) **800639** (HC5345-3) Front Mount Cylinder
 - (2) **799779** (HA5430) Hydraulic Fluid, Quart
- Package without hose kit.

MUST ORDER HOSE KIT SEPARATELY PAGE 413

MAP PRICE

Order No.	Mfg. No. / Description	List Price	Z0-9593510
799140	(HK6400TS-3)	\$2,052.99	

Dometic Sport Tilt Helm Outboard Hydraulic Steering Packages



- Dometic tilt steering's strong design and versatility mean style, durability and comfort for almost any boat!
- 5 wheel positions allow adjustment to the most comfortable steering position.
- 48° tilt range (12 down - 36 up).
- Standard 3/4" tapered steering wheel shaft.
- Consist of:
 - (1) **805258** (HH6191-3) Sport Tilt Steering Helm
 - (1) **800639** (HC5345-3) Front Mount Cylinder
 - (1) Hose Kit
 - (2) **799779** (HA5430) Hydraulic Fluid, Quart

Order No.	Description	List Price	F0-9894610
799287	16' Hose Kit	\$2,356.99	
799289	20' Hose Kit	\$2,359.59	
799290	24' Hose Kit	\$2,425.59	

Dometic Power Assist



- Highly recommended on any 150 HP and above outboard application to give your boat the same, easy steering you are accustomed to in your car.
- Also recommended for the following: Twin and Triple engine applications, Bass Boats, Pontoon Boats (150 HP+), Power Catamarans, Inboard powered cruisers without engine driven power assist.
- Uses an electronically controlled on-demand hydraulic pump to provide "Power" for your Dometic Hydraulic Steering System.
- Comprised of two circuits: A hand operated manual system, which is the control element and a hydraulic power pump, which is the working element.
- Harness length: 15'.

MAP PRICE

DOMETIC POWER ASSIST - 12/24 VOLT

- 1,000 psi maximum system peak pressure. Relief pressure: 2,000 psi.

Order No.	Mfg. No. / Description	List Price	Z0-8744120
797906	(PA1200-2)	\$2,761.99	

DOMETIC POWER ASSIST PRO - 12/24 VOLT

- 1,500 psi maximum system peak pressure. Relief pressure: 2,000 psi.

Order No.	Mfg. No. / Description	List Price	Z0-9447020
797912	(PA1315-2)	\$2,848.99	

Dometic Xtreme Power Assist Steering Unit



- Significantly reduced steering effort provides a car-like driving experience for mechanically steered boats.
- Engineered to fit a wide range of single engine, mechanically steered outboard boats from 90-200HP.
- Integrates with any existing SeaStar rack or rotary cable steering system, so there is no need to install new steering to take advantage of this new technology.
- Designed as a self-contained, plug-and-play system which easily mounts to all major outboard brands and 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.

MAP PRICE

Order No.	Mfg. No. / Description	List Price	Z0-9999510
841265	(XPA1012P)	\$1,999.99	

Domestic Outboard Hydraulic Steering Helms

The Domestic helm pump is the heart of the hydraulic steering system. Domestic helm pumps are the product of many years of research and experience by the world's foremost builder of manual hydraulic steering systems. Our efforts have resulted in a design which represents the ultimate in efficiency, safety and reliability, yet is easy to install and maintain. Superior design, teamed with the finest materials, precision manufacturing and rigid quality control all add up to an outstanding product which is certain to set industry standards for years to come.

Domestic Front Mount Steering Helms



- Compact, stylish design.
- Convenient front of dash fill.
- Small 3" hole cutout on dash.
- Can be retrofitted into old Domestic 4.5" hole cutout.
- Relief valve setting: 1,000 PSI (70 BAR).
- Complete with elbow fittings.
- Use **801298** (HP6032) Seal Kit.

Order No.	Mfg. No. / Description	List Price	MAP PRICE	ZO
799999	(HH5269-4) 1.4 cubic inch	\$871.99		ZO-3407500
800000	(HH5271-4) 1.7 cubic inch	\$738.99		ZO-3245500
805347	(HH5273-3) 2.0 cubic inch	\$1,010.49		FO-4370700
800013	(HH5272-4) 2.4 cubic inch	\$1,011.99		ZO-2885700

Domestic Commercial Front Mount Steering Helm



- Specifically designed to be used on smaller fishing vessels involved in the Lobster and Crabbing Industries.
- Designed with a stainless steel shaft and heavy duty shaft seal and wiper.
- This new shaft and seal help protect the Helm Pump from the abrasive effects of sediment that is brought on board by the operator handling traps or pots.
- Relief valve setting: 1,000 PSI (70 BAR).
- Use **801325** (HP6037) Seal Kit.

Order No.	Mfg. No. / Description	List Price	MAP PRICE	ZO
805222	(HH5217-4) 1.7 cubic inch	\$918.29		ZO-1162600
805236	(HH5224-4) 2.4 cubic inch	\$1,138.09		ZO-4957700

Domestic Classic Tilt Steering Helms



- 5 wheel positions allow adjustment to most comfortable steering position.
- 48° tilt range (18° down - 30° up).
- Convenient front of dash fill.
- 4.5" dash cutout.
- Relief valve setting: 1,000 PSI (70 BAR).
- Complete with elbow fittings.
- Use **801298** (HP6032) Seal Kit.

Order No.	Mfg. No. / Description	List Price	MAP PRICE	ZO
800045	(HH6541-4) 1.7 cubic inch	\$1,218.99		ZO-9618800
800050	(HH6542-4) 2.4 cubic inch	\$1,472.89		ZO-2840010

Domestic Sport Tilt Steering Helms



- 5 wheel positions allow adjustment to most comfortable steering position.
- 48° tilt range (12° down - 36° up).
- Remote fill point.
- 3" dash cutout.
- Relief valve setting: 1,000 PSI (70 BAR).
- Complete with elbow fittings.
- Use **801298** (HP6032) Seal Kit.

Order No.	Mfg. No. / Description	List Price	MAP PRICE	ZO
805258	(HH6191-3) 1.7 cubic inch	\$1,242.29		FO-0696800
805474	(HH6192-3) 2.4 cubic inch	\$1,347.19		FO-3034900

Domestic Rear Mount Steering Helms



- Behind dash mounting configuration.
- Remote fill point.
- 1-1/16" hole required.
- Relief valve setting: 1,000 PSI (70 BAR).
- Complete with elbow fittings.
- Use **801298** (HP6032) Seal Kit.

Order No.	Mfg. No. / Description	List Price	MAP PRICE	ZO
802303	(HH5261-4) 1.7 cu. in.	\$956.49		ZO-9125600
802512	(HH5262-4) 2.4 cu. in.	\$1,161.39		ZO-7819700

Domestic PRO Front Mount Steering Helms



- For high-performance boats with single non-power-assisted outboards up to 350 HP.
- Suited for all those critical high speed, single powered outboard boats, like Bass, Flats, Combo Race/Ski and other performance boats capable of speeds in excess of 65 MPH.
- Small 3" hole cutout on dash.
- Relief valve setting: 1,500 PSI (103 BAR).
- Use **801298** (HP6032) Seal Kit.

Order No.	Mfg. No. / Description	List Price	MAP PRICE	ZO
805753	(HH5779-4) 1.7 cu. in.	\$744.89		ZO-1670500
805854	(HH5770-4) 2.0 cu. in.	\$937.99		ZO-9038600

Domestic PRO Sport Tilt Steering Helm



- 5 wheel positions allow adjustment to most comfortable steering position.
- 48° tilt range (12° down - 36° up).
- Remote fill point.
- 3" dash cutout.
- Relief valve setting: 1,500 PSI (103 BAR).
- Complete with elbow fittings.
- Use **801298** (HP6032) Seal Kit.
- 2.0 cubic inch.

Order No.	Mfg. No. / Description	List Price	MAP PRICE	ZO
805880	(HH6190-4)	\$1,156.99		ZO-3476800

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

- Electronics
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- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Steering Helm Service Kits, Seal Kits and Accessories

Dometic Helm Service Kit



- Service kit for Dometic helms, except commercial helms.

• Kit includes:

Dometic #	Description	Qty.
747521	Wheel Shaft Lock Nut, 5/8" NF, Jam Nylon	1 each
067424	Nut, 1/4" NC Nyloc	4 each
201429	Washer, 1/4" Flat SS	4 each
260130	Woodruff Key	1 each
225226	Quad Ring Seal .210 70DUR N	1 each
763721	Top Plate	1 each

Order No. **801298** Mfg. No. / Description (HP6032) List Price **\$15.09** F0-6501000

Dometic Commercial Helm Service Kit

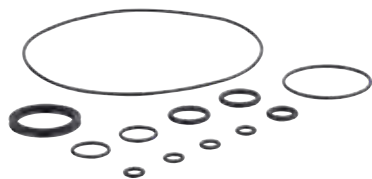


- Service kit for Dometic commercial helms.
- Kit includes:

Dometic #	Description	Qty.
747521	Wheel Shaft Lock Nut, 5/8" NF, Jam Nylon	1 each
225226	Quad Ring Seal .210 70DUR N	1 each
260130	Woodruff Key	1 each
793687	Plate Seal M/C Alum	1 each
798567	O Ring NO6745329 70DUR N	1 each
827926	B/U Ring 8-018 90DN0300	1 each
798676	O Ring NO6745102 70DUR N	3 each
826025	FHMS # 8-32X 3/8 SS + UC	3 each
067424	Nut, 1/4" NC Nyloc	4 each
210429	Washer 1/4 Flat BS/USS ZP	4 each

Order No. **801325** Mfg. No. / Description (HP6037) List Price **\$108.09** F0-6657000

Dometic Replacement Helm Seal Kit



- For Dometic 1.7 and 2.4 helm pumps manufactured from 1984 thru 1989.

Order No. **801400** Mfg. No. / Description (HS5151) List Price **\$66.19** F0-3364000

Dometic Replacement Helm Seal Kit



- For Dometic Baystar 1.6 Helm Pump (HH4015, HH4016).

Order No. **801387** Mfg. No. / Description (HS5147) List Price **\$20.19** F0-3141000

Dometic Backplate Kit



- Used to retrofit a new Dometic standard helm in the old 4.5" diameter hole, or reduce the helm protrusion from the dash by the thickness of the dash, or retrofit new Dometic standard helm into hole cutouts for mechanical and hydraulic steering systems.

Order No. **799847** Mfg. No. / Description (HA5418) List Price **\$60.99** F0-9624000

Dometic Round Bezel



- Reduces the distance the helm protrudes from the front of the dash to 3.75".

Order No. **799835** Mfg. No. / Description (HA5478) List Price **\$245.19** F0-3617100

Dometic 20° Wedge Kit



- This kit is designed to mount the helm at a 20° angle to the mounting surface.
- Four possible mounting configurations are available.
- Note: Not for use with Baystar helm pumps.

Order No. **799811** Mfg. No. / Description (HA5419) List Price **\$120.59** F0-1448000

Dometic Non-Vented Filler Plug



- Sold each.

Order No. **801224** Mfg. No. / Description (HA5432) List Price **\$18.49** F0-4921000

Dometic Vent Plug



- Supplied with Dometic Helm Pump.
- Must be used with helm pump on all single steering station systems.
- Must be used on uppermost helm pump on multi-steering station systems.
- Black.
- Sold and priced as a bag of 5.

Order No. **801220** Mfg. No. / Description (HP6126) List Price **\$57.09** F0-6993000

Dometic Front Mount Outboard Hydraulic Steering System



- Dometic Outboard Hydraulic Steering offers many models of steering cylinders to suit most applications.
- The standard and most commonly used model is the Front Mount steering cylinder.
- Before ordering it is necessary to determine the best possible application for your boat, taking into account the hull design, speed and usage of the boat.
- Keep in mind that engines today have become larger, more powerful and heavier than in the past.

Dometic Front Mount Outboard Installation Recommendations

ENGINE	NORMAL USE	AGGRESSIVE USE (SEE NOTE 1)
	DOMETIC FRONT MOUNT	DOMETIC TOURNAMENT SERIES (See Note 1)
SINGLE ENGINE	SINGLE CYLINDER 350 HP Maximum • 75 MPH Maximum HC53XX-3 Cylinder (See Note 2)	SINGLE CYLINDER 350 HP Maximum HC63XX-3 Pro Cylinder (See Note 2 & 3) or HC6845S
DUAL ENGINE NON COUNTER ROTATING	SINGLE CYLINDER 450 HP Maximum • 55 MPH Maximum HC53XX-3 Cylinder HO60XX Tie Bar	SINGLE CYLINDER Tournament Cylinders
	DUAL CYLINDER Tournament Cylinders HC53XX-3 Cylinder HO60XX Tie Bar	DUAL CYLINDER Tournament Cylinders
DUAL ENGINE COUNTER ROTATING	SINGLE CYLINDER 600 HP Maximum • 55 MPH Maximum HC53XX-3 Cylinder HO60XX Tie Bar	SINGLE CYLINDER Tournament Cylinders
	DUAL CYLINDER 600 HP Maximum • 55 MPH Maximum HC53XX-3 Cylinder HO60XX Tie Bar	DUAL CYLINDER Tournament Cylinders
TRIPLE ENGINE ONE WITH COUNTER ROTATING	DUAL CYLINDER 600 HP Maximum • 55 MPH Maximum HC53XX-3 Cylinder HO60XX Tie Bar *MAX center engine drop <.75"	DUAL CYLINDER Tournament Cylinders
	TRIPLE CYLINDER 900 HP Maximum • 55 MPH Maximum HC53XX-3 Cylinder HO60XX Tie Bar *MAX center engine drop <.75"	Consult Dometic Technical Service

Note 1: Dometic has specific steering equipment for boats that are driven aggressively, used in severe conditions or with more than 300 HP per engine.

Note 2: ALL ENGINES over 300 HP and all boats that are driven aggressively must use a high strength tiller bolt, kit part **799852** (HA5822). All front mount cylinders built after June 15, 2007 will have this high strength bolt included in the box. High strength tiller bolts can be identified by the marking "DOMETIC ARP" on the head of the bolt.

Note 3: HC63xx PRO Cylinders are designed for all those critical high speed, single outboard engine boats, such as Bass, Flats combo Race/Ski and other performance orientated boats capable of speeds in excess of 65 mph. For optimal performance, the use of Dometic PRO helms and PRO Hoses are recommended.

Dometic Front Mount Outboard Hydraulic Cylinders

- Independent engine tilt for twin engine installations.
- 5 turns lock to lock steering response (1.7 standard system).
- Suitable for use with all Dometic Helms and Dometic Power Assist.
- State of the art proprietary sealing system offers excellent resistance to repeated compression set and is designed to better withstand the harsh environment.
- Cylinder now fitted with Positionable O-ring fittings (ORB).
- Some installations require spacer kit **800575** (HO-5090).



800639

Order No.	Mfg. No. / Description	List Price	MAP PRICE
800639	(HC5345-3)	\$864.99	Z0-9884600
800664	(HC5345-3) Commercial Grade	\$881.79	E0-4316600
800622	(HC5347-3) Honda 115-130 HP, 1998-09	\$1,083.49	F0-4485700
800055	(HC5445-3) Honda BF200-250 HP, 2001-Date	\$1,029.09	F0-6302700
800643	(HC5348-3)	\$1,083.49	F0-4485700
800735	(HC5358-3)	\$988.09	F0-6619600

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Dometic Front Mount Outboard Hydraulic Steering Application Guide

Single Engine Application Guide

Year	Model	Cylinder	Notes
HONDA			
1996-Date	75-90 HP	HC5345-3	
1998-2009	115-130 HP	HC5347-3	
1998-Date	30-50 HP	HC5345-3	1
2001-Date	BF150 HP	HC5345-3	3
2001-Date	BF200-250 HP	HC5445-3	
2003-Date	BF135 HP	HC5345-3	
2010-Date	115 HP	HC5345-3	
2015-Date	BF100 HP	HC5345-3	

JOHNSON/EVINRUDE

1991-Date	40-300 HP	HC5345-3	Inc. ETech
1997-2006	75-300 HP Ficht	HC5345-3	
1998-Date	40-140 HP 4-Stroke	HC5358-3	1
2000-2003	115 HP FICT	HC5358-3	1
2002-Date	200-225 HP 4-Stroke	HC5345-3	
2007-Date	200-250 HP 3.3L V6	HC5345-3	Inc. H.O. Models

MERCURY

1989-Date	75-300 HP	HC5345-3	
1998-Date	30-60 HP	HC5348-3	1
2003-Date	150-300 HP XS	HC6345-3	
2004-Date	150-200 HP Verado	HC5345-3	
2017-Date	175/200/225 HP 3.4L V6	HC5345-3	
2018-Date	250-300 HP 4.6L V8	HC5345-3	2

OXE

2017-Date	200 HP Diesel I4 2.4L	HC5345-3	
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SELVA

2000-2013	90-115 HP	HC5358-3	
2014-Date	115 HP	HC5345-3	
2000-Date	150 HP	HC5345-3	
2007-Date	200-300 HP 4.2L V6	HC5345-3	

SUZUKI

1986-2000	DT100 HP	HC5345-3	
1998-Date	40-140 HP 4-Stroke	HC5358-3	
1986-2002	115-140 HP	HC5345-3	Not 1996
1986-2013	150-225 HP 2 & 4-Str.	HC5345-3	
2004-Date	DF200-300 HP 3.6-4.0L V6	HC5345-3	
2013-Date	150-200 HP 4 Cylinder	HC5358-3	
2017-Date	DF325-350 HP 4.4L V6	HC5345-3	

TOHATSU

1990-Date	40-140 HP	HC5345-3	
2014-Date	BFT60-BFT150	HC5345-3	
2014-Date	BFT200-BFT250	HC5445-3	

YAMAHA

1990-2003	40-90 HP 2-Stroke	HC5345-3	1
1986-Date	100-300 HP 2-Stroke	HC5345-3	
1997-Date	80-250 HP 4-Stroke	HC5345-3	
2000-Date	150-300 HP DI	HC5345-3	
2003-Date	25-70 HP 4-Stroke	HC5348-3	1
2007-Date	200-300 HP 4.2L V6 4-Str.	HC5345-3	
2007-Date	F300-F350 HP 5.3L V8	HC5345-3	3
2011-Date	F115A SHO 90/115 HP	HC5358-3	
2012-Date	150-200 HP 2.8L 4 Cyl.	HC5345-3	
2014-Date	F115B	HC5345-3	

Note 1: Requires Spacer Kit **800575** (H05090).**Note 2:** PRO XS **MUST** use HC6345-3**Note 3:** Optional cylinder part HC5358-3. Slight interference may occur when using the HC5358-3, with the engine in the full tilt position.**Note 4:** May require extensive cowlings modifications.

Twin Engine Application Guide

Year	Model	Cylinder	Tie Bar Kits		Notes
			Single Cylinder	Dual Cylinder	
HONDA					
1996-Date	75-90 HP	HC5345-3	H06001	H06002	3
1998-2009	115-130 HP	HC5347-3	H05063	H05064	5
1998-Date	30-50 HP	HC5345-3	H06001	H06002	2
2001-Date	150 HP 4-Stroke	HC5345-3	H06001	H06002	8
2001-Date	BF200-250 HP	HC5445-3	H06001	H06002	
2003-Date	BF135 HP	HC5345-3	H06003	H06002	
2011-Date	115 HP	HC5345-3	H06003	H06002	
2015-Date	BF100 HP	HC5345-3	H06003	H06002	7

JOHNSON/EVINRUDE

1991-Date	40-300 HP	HC5345-3	H06003	H06002	Inc. ETech
1996-Date	75-250 HP Ficht	HC5345-3	H06003	H06002	
1998-Date	40-140 HP 4-Stroke	HC5358-3	H06003	H06002	2
2000-Date	115 HP FICT	HC5358-3	H06003	H06002	2
2002-Date	200-225 HP 4-Stroke	HC5345-3	H06003	H06002	
2005-Date	E250 DPX Vindicator	HC5348-3	H06003	H06002	
2007-Date	200-250 HP 3.3L/3.4L	HC5345-3	H06003	H06002	Inc. H.O. Models

MERCURY

1989-Date	75-300 HP	HC5345-3	H06001	H06002	3
1996-Date	75-200 HP 2 & 4-Stroke	HC5345-3	H06001	H06002	8
1998-Date	30-60 HP	HC5345-3	H06001	H06002	2
2002-2003	225 HP 4-Stroke	HC5358-3	H06001	H06002	1
2004-Date	150-200 HP Verado	HC5345-3	H06001	H06002	
2003-Date	150-200 HP XS	MUST Use Tournament Cylinders			
2003-Date	250-300 HP XS	MUST Use Tournament Cylinders			
2016-Date	150 HP 3.0L 4-Stroke	HC5345-3	N/A	H05520	9
2017-Date	175-225 HP 3.4L V6	HC5345-3	H06001	H06002	
2018-Date	250-300 Pro XS 4.6L	HC6345-3	HA5521	HA5520	9

OXE

2017-Date	200 HP Diesel I4 2.4L	MUST Use Tournament Cylinders			
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SUZUKI

1986-Date	100 HP	HC5345-3	H06003	H06002	
1986-2002	115-140 HP	HC5345-3	H06001	H06002	Not 1996
1986-2015	150-300 HP 2 & 4-Str.	HC5345-3	H06003	H06002	
1998-Date	40-140 HP 4-Stroke	HC5358-3	H06003	H06002	2
2003-Date	90 HP 4-Stroke	HC5358-3	H06003	H06002	2
2013-Date	DF150-300 HP	HC5345-3	H06001	H06002	
2017-Date	DF325-350 HP 4.4L V6	MUST Use Tournament Cylinders			

YAMAHA

1990-2007	40-90 HP 2-Stroke	HC5345-3	H06003	H06002	
1986-Date	100-250 HP 2-Stroke	HC5345-3	H06001	H06002	
2000-Date	150-300 HP DI	HC5345-3	H06001	H06002	
2001-2003	80-250 HP 4-Stroke	HC5358-3	H06001	H06002	1
2003-Date	F150-F250 HP 3.3L	HC5358-3	H06001	H06002	
2003-Date	25-70 HP 4-Stroke	HC5348-3	H06003	H06002	2
2007-Date	200-300 HP 4.2L V6	HC5345-3	H06001	H06002	
2007-Date	F300-F350 HP 5.3 V8	MUST Use Tournament Cylinders			
2011-Date	F115A SHO 90/115 HP	HC5358-3	H06003	H06002	
2014-Date	F115B	HC5345-3	H06001	H06002	

Note 1: HC5345-3 is optional for **SINGLE ENGINE ONLY** applications. **DO NOT** use HC5345-3 for twin engine applications as operational interference may occur.**Note 2:** Requires Spacer Kit **800575** (H05090).**Note 3:** Minimum Engine Center = 27".**Note 4:** May require extensive cowlings modifications.**Note 5:** H05030 and H05064 comes without Tie Bar.**Note 6:** One cylinder per engine. Must use Mercury supplied tiller bolt for installation.**Note 7:** Customer supplied SS washer must be installed under rod engine.**Note 8:** Slight interference may occur with H06001 tie bar, contact Dometic technical support.**Note 9:** Refer to table on Page for tie bar part number.

Electronics

Trolling Motors

Instruments

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Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailing

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Misc.

Comm.

Dometic Catamaran Front Mount Outboard Hydraulic System

Dometic Catamaran Front Mount Outboard Hydraulic Cylinder



- The Dometic Front Mount Pivot Cylinder is for Catamaran designs.
- The internal o-ring is designed to limit the amount of fluid bypass decreasing the amount of re-alignment.
- This cylinder is best used in applications that require a liquid tie bar.
- NOT recommended for single engine applications.

Order No. **800655** Mfg. No. / Description (HC5375-3) List Price **\$1,227.09** F0-6985800

Dometic Liquid Tie Bar Valve



- Allows 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 Dometic hoses may be used on vessels not exceeding speeds of 55 mph.
- For vessels exceeding speeds of 55 mph a Dometic Pro helm and Pro hoses must be used.

Order No. **802404** Mfg. No. / Description (HA5471-2) List Price **\$523.19** F0-3266300

Dometic Side Mount Outboard Hydraulic Steering System

Engine/Cylinder Configuration	Description	Qty. Req.	Model	Part #
SINGLE ENGINE (Single Cylinder) Applications up to 300 HP Maximum Number of Turns: 4.8/5.7	Cylinder	1	Side Mount	HC5370-3
	Helm	1	Dometic	HH5271-3
	Hose Kit	1	Outboard Hose	HO51xx
	Steering Fluid	3	Dometic Fluid	HA5430
	FOR EXTRA STEERING STATIONS ADD:			
	Helm	1	Dometic	HH5271-3
	Fitting Kit	1	Add A Station	HF6007
	Hose Kit	1	Outboard Hose	HO51xx
	Steering Fluid	1	Dometic Fluid	HA5430
OPTIONAL EQUIPMENT	Back Plate Kit (For Standard Helms)			HA5418
	20 Degree Wedge (For Standard Helms)			HA5419
	Autopilot Fitting Kit (For All -3 Helms)			HF6007
	Power Assist Steering			PA1200-2



- Alternative to front mount cylinder.
- Suitable for installation in shallow splashwells.
- Unbalanced cylinder with 4.8/5.7 turns lock-to-lock (1.7 helm).
- Single and multiple outboard engine installations with total power to 600 HP in twin counter rotating application.
- Typical applications include center console fishboats and cruisers.
- Note: Not for use with Dometic Pro helms.

Order No. **800652** (HC5370-3) List Price **\$742.39** F0-7691500
801363 (HP6055) Extension Rod and Pin **\$162.89** F0-2041100
801510 (HP6088) Seal Kit for HC5370-3 **\$195.19** F0-3663100
801503 (HS1513) Seal Kit for Older HC5370 & HC5371 **\$76.29** F0-0435000

Dometic Splashwell Mount Outboard Hydraulic Steering System

Engine/Cylinder Configuration	Component Description	Qty. Req.	Model	Part #
SINGLE ENGINE (Single Cylinder) Applications up to 300 HP Maximum Number of Turns: 5.5/6.5	Cylinder	1	Splashwell	HC5380-3
	Helm	1	Dometic	HH5271-3
	Hose Kit	1	Outboard Hose	HO51xx
	Steering Fluid	3	Dometic Fluid	HA5430
	FOR EXTRA STEERING STATIONS ADD:			
	Helm	1	Dometic	HH5271-3
	Fitting Kit	1	Add A Station	HF6007
	Hose Kit	1	Outboard Hose	HO51xx
	Steering Fluid	1	Dometic Fluid	HA5430
OPTIONAL EQUIPMENT	Back Plate Kit (For Standard Helms)			HA5418
	20 Degree Wedge (For Standard Helms)			HA5419
	Autopilot Fitting Kit (For All -3 Helms)			HF6007
	Power Assist Steering			PA1200-2

Engine/Cylinder Configuration	Component Description	Qty. Req.	Model	Part #
DUAL ENGINE (Single Cylinder) Non-Counter Rotating Applications up to 300 HP Maximum Counter Rotating Applications up to 600 HP Maximum Number of Turns: 5.6/6.5	Cylinder	1	Splashwell	HC5380-3
	Tie Bar Kit	1	Splashwell	HC5380-3
	Mount Tie Bar			HO5010
	Helm	1	Dometic	HH5271-3
	Hose Kit	1	Outboard Hose	HO51xx
	Steering Fluid	3	Dometic Fluid	HA5430
FOR EXTRA STEERING STATIONS ADD:				
	Helm	1	Dometic	HH5271-3
	Fitting Kit	1	Add A Station	HF6007
	Hose Kit	1	Outboard Hose	HO51xx
	Steering Fluid	1	Dometic Fluid	HA5430
OPTIONAL EQUIPMENT	Back Plate Kit (For Standard Helms)			HA5418
	20 Degree Wedge (For Standard Helms)			HA5419
	Autopilot Fitting Kit (For All -3 Helms)			HF6007
	Power Assist Steering			PA1200-2

- Light duty alternative to front and side mount cylinders.
- Unbalanced cylinder with 5.5/6.5 turns lock-to-lock.
- Fits engines with or without support (steering) tube.
- Single and multiple engine capability and has total power to 600 HP twin in counter rotating application.
- It can be transom or hull mounted cylinder.
- **Note:** Not for use with Dometic Pro helms.



Order No. **800676** (HC5380-3) List Price **\$956.89** F0-2896600

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailing
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Pro Front Mount Outboard Hydraulic Steering System

Dometic Pro Front Mount Outboard Hydraulic Steering Application Guide



Engine Manufacturer	Year	Model	Cylinder	Notes
HONDA	2001 to Date	BF150-250 HP	HC6345-3	HA5472 stroke limit kit must be installed when using BF200-BF250
JOHNSON/ EVINRUDE	2002 to Date 2003 to Date 2005 to Date	150-250 HP 4-Stroke 150-300 HP ETech E250 HP Vindicator	HC6345-3 HC6345-3 N/A	
MERCURY	1989 to Date	150-300 HP 2-Stroke, 4-Stroke and XS Engines Including 4.6L V8	HC6345-3	
SUZUKI	1986 to Date	150-300 HP 2-Stroke, 4-Stroke	HC6345-3	Includes ALL models
YAMAHA	1986 to Date	150-300 HP 2-Stroke, 4-Stroke	HC6345-3	

- Dometic PRO Outboard Steering systems are suited for all those critical high speed, single powered outboard boats, like Bass, Flats, combo Race/Ski and other performance orientated boats capable of speeds in excess of 65 mph.
- Before ordering it is necessary to determine the proper cylinder and helm pump for your application.
- Using the table to the right, choose the correct cylinder as per your outboard engine.
- Dometic recommends the use of a Dometic PRO helm and Dometic PRO (1500 psi) reinforced Kevlar hoses with All Dometic PRO systems.

Dometic Pro Front Mount Outboard Hydraulic Cylinders



- These cylinders have keyed support brackets to prevent racking of the cylinder which gives it a more solid feel and more robust bushings.
- Suited for all those critical high speed, single powered outboard boats, like Bass, Flats, combo Race/Ski and other performance orientated boats capable of speeds in excess of 65 MPH.
- All Dometic PRO systems require the use of a Dometic PRO helm and Dometic PRO (1,500 psi) reinforced Kevlar hoses ONLY!

Order No. **800745** Mfg. No. / Description (HC6345-3) Black Version List Price **\$1,096.99** MAP PRICE **F0-9876700**

Dometic Steering Cylinder Seal Kits and Cylinder Accessories

Dometic Front Mount Cylinder Seal Kits



- For Dometic cylinders: HC5340, HC5341, HC5342, HC5343, HC5344, HC5345, HC5346, HC5347, HC5348, HC5358, HC5365, HC5375, HC5394, HC5445, HC6750, HC6751, HC6752, HC6753, HC6754 and HC6755.

Order No. **801464** Mfg. No. / Description (HS157) Includes Pin Wrench List Price **\$184.99** MAP PRICE **F0-9492100**
 Order No. **801490** Mfg. No. / Description (HS167) Does Not Include Pin Wrench List Price **\$150.99** MAP PRICE **F0-9650100**
 Order No. **801452** Mfg. No. / Description (HS152) For Snap Ring Cyl. HC5340 & HC5394 List Price **\$88.59** MAP PRICE **F0-1026000**

Dometic Outboard Cylinder Grounding Strap



- Designed to provide added protection against corrosion caused by stray current.
- This is designed for use on Dometic and BayStar front mounting outboard cylinders.

Order No. **799850** Mfg. No. / Description (HA5477) List Price **\$26.69** MAP PRICE **F0-8681000**

Dometic Hydraulic Cylinder Service Kit



- Designed for easier servicing of the hydraulic cylinder.
- A compact bleeder wrench simplifies access of hard to reach places.
- While the end gland wrench is conveniently adaptable to fit both 4-hole and 8-hole end glands.
- A perfect tool kit for dealer mechanics who works on Dometic steering systems and wants to save time and money.

Order No. **801398** Mfg. No. / Description (HS300) List Price **\$135.99** MAP PRICE **F0-9159000**



- Easy installation.
- Simple autopilot interface.
- Simple multiple steering station connection.
- Fits most power and non-power assist sterndrives.
- Single and multiple drives.

Dometic Sterndrive Outboard Hydraulic Steering System

Dometic Sterndrive Outboard Hydraulic Steering Application Guide

Engine Manufacturer	Steering Configuration	Engine/Drive Description	Year	Cylinder Description		Number Turns Lock To Lock		Notes
				Model No.	Mfg. No.	Dometic 1.7 Helm	Dometic 2.4 Helm	
MERCURISER	Non Power Assist	ALPHA I	2000 to Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6
		BRAVO I	2000 to Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6
		BRAVO II	2000 to Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6
		BRAVO III	2000 to Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6, 7
	Power Assist	ALPHA I	2000 to Date	125-8EM	HC5328-3	4.9/5.8	3.4/4.1	2
		BRAVO I	2000 to Date	125-8EM	HC5328-3	4.9/5.8	3.4/4.1	2
BRAVO II		2000 to Date	125-8EM	HC5328-3	4.9/5.8	3.4/4.1	2	
BRAVO III		2000 to Date	125-8EM	HC5328-3	4.9/5.8	3.4/4.1	2	
VOLVO	Non Power Assist	290	To Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6
		Diesel	To Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6
		DPS	2000 to Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6
	Power Assist	290	To Date	125-8EM	HC5328-3	4.8/5.8	3.4/4.1	2
		Diesel	To Date	125-8VEM	HC5329-3	4.9/5.8	3.4/4.1	2
		DPS & SX	1996 to Date	125-6VPS	HC5331-3	4.8/5.5	3.4/4.1	2
YANMAR	Non Power Assist	ZT370	To Date	BA135-7EM	HC5332-3	5.0	3.5	1, 4, 5, 6, 7
	Power Assist	ZT370	To Date	125-8EM	HC5328-3	4.8/5.8	3.4/4.1	2

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. Requires cylinder rod end adapter HA5424 supplied by Dometic.
4. HC5332-3 replaces HC5326-3 as of January 2000. If installing HC5326 additional clevis supplied by engine manufacturer required. Mastry Engine part #SUN144 *not provided by Dometic.
5. The installation of the HC5332-3 sterndrive cylinder requires the use of Dometic Outboard hose only. DO NOT use 3/8" copper or nylon tube.
6. 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.
7. Yanmar Engines using the Bravo III drives require the use of cylinder HC5326-3.

System Configuration	Component Description	Qty. Req.	Model	Part #
SINGLE & DUAL STERNDRIVE	Cylinder	1	See Application Guide	
	Helm	1	Dometic (See Note 1)	HH5271-3
		1	Dometic (See Note 2)	HH5272-3
	Steering Fluid Tube/Hose	3	Dometic Fluid	HA5430
	FOR EXTRA STEERING STATIONS ADD:			
	Helm	1	Dometic (See Note 1)	HH5271-3
			Dometic (See Note 1)	HH5272-3
	Fitting Kit	1	Add A Station: - For use with Steering Hose - For use with Tube/Copper	HF6007 HF6010
	Steering Fluid Extra Tube/Hose	1	Dometic Fluid	HA5430
OPTIONAL EQUIPMENT	Back Plate Kit		(For Standard Helms)	HA5418
	20 Degree Wedge		(For Standard Helms)	HA5419
	Autopilot Fitting Kit		(For Use w/Hose)	HF6007 HF6010
	Power Assist Steering		(For Use w/Tube/Copper)	PA1200-2

1. Dometic helms are the standard recommendation for both non-power and power steered applications.
2. Dometic helms with a higher displacement can be specified for less wheel turns where faster response is desired. Consult application guide at top of page for options.
3. For dual stern drives - use the tie bar supplied by the engine manufacturer.

Dometic Sterndrive Cylinder



- Fits most power and non power assist sterndrives.
- Single and multiple drives.
- Simple autopilot interface.
- Simple multiple steering station connection.

FOR POWER ASSIST ENGINES - BODY DIAMETER 1.25"

Order No.	Mfg. No. / Description	List Price	
800744	(HC5328-3) 125-8EM	\$737.99	F0-9561500
801411	(HS154) Seal Kit	\$57.49	F0-4204000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

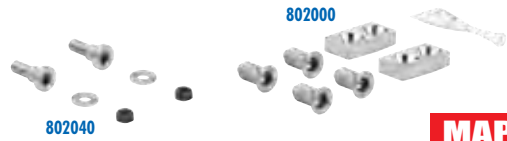
Dometic Tournament Series Front Mount Outboard Hydraulic Cylinder



- Suitable for use with all Dometic Helms and Dometic Power Assist.
- Heavy duty universal cylinder.
- Reversible, bolt on stainless steel tie bar plates.
- Robust design with heavy duty support brackets, barrel, shaft and seals.
- New pivot plate design provides smooth articulation and a sealed joint (patent pending).
- Heavy duty adjustable tie bar (patent pending).
- Equipped with stainless steel adjustable O-ring sealed elbow fittings which can be easily orientated in any direction.
- Important Information: Each configuration requires a hardware kit and tie bar kit(s), with the exception of the single engine configuration.

Order No. Mfg. No. / Description List Price
800780 (HC6845) **\$1,340.39** FO-7283900

Dometic Hardware Kits for Tournament Series



Order No.	Mfg. No. / Description		List Price	
802000	(HA6801) Single Engine	Single Cylinder	\$139.59	FO-1779000
802012	(HA6802) Twin Engine	Single Cyl. Starboard	\$717.09	FO-6910500
802024	(HA6804) Twin Engine	Dual Cylinder	\$510.49	FO-4375300
802036	(HA6806) Triple Engine	Dual Cylinder	\$955.49	FO-4886600
802040	(HA6808) Suzuki Integrated Steering, AMD Engines		\$79.49	FO-4655000
802048	(HA6811) Quad Engine	Dual Cylinder	\$1,366.49	FO-4565900

MAP PRICING

Dometic ORB Cylinder Tee Fitting Kit for Tournament Series

- 2 per kit.

Order No. Mfg. No. List Price
801782 (HF6005) **\$80.29** FO-0265000



Dometic Tournament Series Front Mount Outboard Hydraulic Application Guide

Configuration	Cylinder		Hardware Kit		Tie Bar				Notes
	Part #	Qty.	Part #	Qty.	Engine Center Distance		Part #	Qty.	
Single Engine - Single Cylinder	HC6845	1	HA6801	1	N/A	N/A	N/A	N/A	1
Twin Engine - Single Cylinder (Starboard)	HC6845	1	HA6802	1	25.0" - 25.6"	635 mm - 650 mm	H06821	1	1, 3, 4, 5
					25.7" - 30.6"	653 mm - 777 mm	H06822	1	1, 3, 4, 5
					30.7" - 39.4"	780 mm - 1,001 mm	H06823	1	1, 3, 4, 5
					39.5" - 54.0"	1,003 mm - 1,372 mm	H06824	1	1, 3, 4, 5
Twin Engine - Dual Cylinder	HC6845	2	HA6804	1	25.0" - 26.5"	635 mm - 673 mm	H06820	1	1, 3, 4, 5
					26.6" - 29.3"	676 mm - 744 mm	H06821	1	1, 3, 4, 5
					29.4" - 34.2"	747 mm - 869 mm	H06822	1	1, 3, 4, 5
					34.3" - 43.0"	871 mm - 1,092 mm	H06823	1	1, 3, 4, 5
					43.5" - 58.0"	1,105 mm - 1,473 mm	H06824	1	1, 3, 4, 5
Triple Engine - Dual Cylinder	HC6845	2	HA6806	1	25.0" - 27.9"	635 mm - 709 mm	H06822	2	1, 2, 3, 4, 5, 6
					28.0" - 36.0"	711 mm - 914 mm	H06823	2	1, 2, 3, 4, 5, 6
					36.0" - 51.0"	914 mm - 1,295 mm	H06824	2	1, 2, 3, 4, 5, 6
Quad Engine - Dual Cylinder	HC6845	2	HA6811	1	Consult Dometic Technical Service				1, 2, 3, 4, 5
Quintuplet Engine (Plus)	Consultant Dometic Technical Service								1, 2, 3, 4, 5

1. Installation may vary according to the following factors: engine mounting height, transom thickness, use of transom savers, tiller bolt location, engine tilt range and engine size.
2. For center engine drops greater than 3" (76mm), please consult Dometic 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 center to center distance.

1. Based on recommended engine manufacturer minimum center to center distances. Deviating from these recommendations may require stroke limiting cylinders and/or engine tilt limiting, please consult Dometic Technical Service.
5. Cylinder's must be plumbed in parallel only, no series connections. Only exception is if cylinders are utilizing a liquid tie bar.
6. Maximum drop: ≤ 3 inches (76mm).

Configuration	Cylinder		Hardware Kit		Tie Bar				Notes
	Part #	Qty.	Part #	Qty.	Engine Center Distance		Part #	Qty.	
Triple Engine - Triple Cylinder	HC6845*	3	HA6807	1	28.0" - 28.8"	711 mm - 736 mm	H06819	3	1, 2, 3, 4
					28.9" - 30.5"	737 mm - 774 mm	H06820		1, 2, 3, 4
					30.6" - 33.3"	775 mm - 847 mm	H06821		1, 2, 3, 4
					33.4" - 38.3"	848 mm - 974 mm	H06822		1, 3, 4, 6
					38.4" - 47.0"	975 mm - 1,194 mm	H06823		1, 3, 4, 6
					47.1" - 62.1"	1,195 mm - 1,578 mm	H06824		1, 3, 7

1. Installation may vary according to the following factors: engine mounting height, transom thickness, use of transom savers, tiller bolt location, engine tilt range, and engine size.
2. Will require trim limiting at 0" (0 mm) drop.**
3. Tie Bar length may vary depending on toe in/toe out setup. To allow for toe, add or subtract from your nominal engine center to center distance.
4. Maximum drop 1.5" (38 mm) with trim limiting.**

5. Maximum drop 1.5" (38 mm) without trim limiting.
6. Maximum drop 3" (76 mm) with trim limiting.**
7. Maximum drop 3" (76 mm) without trim limiting.

* HC6850 for Honda V6 or where stroke reduction is desired.

** Trim limiting required as interference between the tie bar and support bracket will occur during independent trim/tilt.

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Domestic Inboard Hydraulic Steering System



- Regular duty cylinders.
- Heavy duty cylinders.
- Easy installation for single and dual rudder vessels.
- Cylinders supplied with bleeder fittings.
- Two axis articulation.
- Easy autopilot interface.

Domestic Inboard Hydraulic Steering Application Guide

BOAT LENGTH UP TO	PLANING HULL				DISPLACEMENT OR SEMI DISPLACEMENT HULL				SAIL	
	SINGLE ENGINE		TWIN ENGINE		SINGLE ENGINE		TWIN ENGINE		SINGLE ENGINE	
	PLEASURE	WORK	PLEASURE	WORK	PLEASURE	WORK	PLEASURE	WORK	PLEASURE	WORK
26 ft. (8m)	System 1	System 4	System 1	System 4	System 2	System 4	System 2	System 4	System 4	System 4
32 ft. (10m)	System 2	System 4	System 1	System 4	System 3	System 4	System 3	System 4	System 4	System 4
38 ft. (11.5m)	System 3	System 5	System 2	System 5	System 5	System 5	System 3	System 5	System 4	System 5
44 ft. (13.5m)	System 5	-	System 3	System 5	-	-	System 5	System 1	System 5	System 1
50 ft. (15m)	-	-	System 5	-	-	-	-	-	-	-

a) Displacement Hull: Maximum hull speed does not normally exceed 12 knots.
 b) Semi Displacement Hull: Maximum hull speed does not normally exceed 18 knots.

c) Planing Hull: Maximum hull speed normally exceeds 18 knots.

SYSTEM 1: 4 TURNS LOCK TO LOCK

- Consist of:
 - (1) **800000** (HH5271-3) Helm
 - (1) **800804** (HC5312-3) BA125-7ATM Cylinder
 - (3) **799779** (HA5430) Hydraulic Fluid, Quart

SYSTEM 2: 5 TURNS LOCK TO LOCK

- Consist of:
 - (1) **800000** (HH5271-3) Helm
 - (1) **800816** (HC5313-3) BA135-7ATM Cylinder
 - (3) **799779** (HA5430) Hydraulic Fluid, Quart

SYSTEM 3: 6 TURNS LOCK TO LOCK

- Consist of:
 - (1) **800000** (HH5271-3) Helm
 - (1) **800828** (HC5314-3) BA150-7ATM Cylinder
 - (3) **799779** (HA5430) Hydraulic Fluid, Quart

SYSTEM 4: 4-1/4 TURNS LOCK TO LOCK

- Consist of:
 - (1) **800013** (HH5272-3) Helm
 - (1) **800866** (HC5318) BA150-7TM Cylinder
 - (3) **799779** (HA5430) Hydraulic Fluid, Quart

SYSTEM 5: 5-1/2 TURNS LOCK TO LOCK

- Consist of:
 - (1) **800013** (HH5272-3) Helm
 - (1) **800878** (HC5319) BA175-7TM Cylinder
 - (3) **799779** (HA5430) Hydraulic Fluid, Quart

Domestic Inboard Hydraulic Cylinders



- Easy installation for single and dual rudder vessels.
- Two axis articulation.
- Easy autopilot interface.
- Cylinders supplied with bleeder fittings.

INBOARD ATM CYLINDERS - ALUMINUM

Order No.	Mfg. No.	Model #	Body Dia.	Seal Kit	List Price	
800804	(HC5312-3)	BA125-7ATM	1.25"	HS5154	\$851.39	F0-7959500
800816	(HC5313-3)	BA135-7ATM	1.35"	HS5155	\$878.19	F0-3741600
800828	(HC5314-3)	BA150-7ATM	1.50"	HS5156	\$908.39	F0-7853600

INBOARD TM CYLINDERS - BRASS

Order No.	Mfg. No.	Model #	Body Dia.	Seal Kit	List Price	
800878	(HC5319-3)	BA175-7TM	1.75"	HS5183	\$1,173.19	F0-3212800

Domestic Cylinder Seal Repair Kits

FOR ALUMINUM CYLINDERS

Order No.	Mfg. No. / Description	List Price	
801411	(HS5154) With Body Diameter 1.25"	\$57.49	F0-4204000
801426	(HS5155) With Body Diameter 1.35"	\$57.49	F0-4204000
801433	(HS5156) With Body Diameter 1.50"	\$59.89	F0-2914000

FOR BRASS CYLINDERS

Order No.	Mfg. No. / Description	List Price	
803230	(HS5182) With Body Diameter 1.50"	\$75.99	F0-9135000
803242	(HS5183) With Body Diameter 1.75"	\$84.09	F0-6885000
803255	(HS5184) With Body Diameter 2.00"	\$85.79	F0-5006000



- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Tie Bar Kits - Complete



- For engine centers up to 36".
- No adapters are required.

Order No.	Mfg. No. / Description	List Price	
802363	(HO6001) Single Cylinder	\$669.59	F0-1786400
802378	(HO6003) Single Cylinder	\$677.39	F0-7147400
802384	(HO6002) Dual Cylinder	\$708.19	F0-3759400

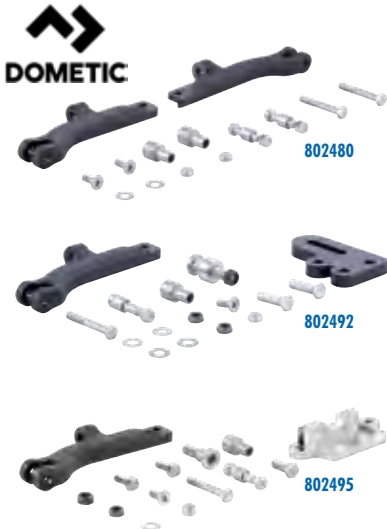
Dometic Tournament Series Tie Bar Kits - Complete



REFER TO APPLICATION GUIDE ON PAGE 404

Order No.	Mfg. No. / Description	List Price	
802416	(HO6820)	\$506.89	F0-2845300
802428	(HO6821)	\$539.59	F0-1777300
802434	(HO6822)	\$620.99	F0-9643400
802442	(HO6823)	\$734.99	F0-9441500
802466	(HO6824)	\$816.69	F0-8617500

Dometic Tournament Drive Bracket Kits



- For use with the Adjustable Tie Bars on standard Dometic steering cylinders.
- This series of hardware kits will allow the consumer to take full advantage of all the features and benefits of Dometic's heavy duty adjustable tie bar products for twin engine applications up to 600 HP.
- Meets/exceeds all applicable standards.
- Utilizes proven Tournament series adjustable tie bars.
- Anodized aluminum adjustable tie bar with built in maximum stroke indicator.
- High strength forged aluminum drive bracket.
- Eliminates the need for cut-to-length traditional tie bars.

NEW MODEL

Order No.	Mfg. No. / Description	List Price	
802480	(HA5520) Twin Engine Dual Cylinder Tie Bar Kit	\$236.19	F0-3356100
802492	(HA5521) Twin Engine Single Cylinder Tie Bar Kit	\$247.89	F0-2537100
802495	(HA5522) Single Engine Dual Cylinder Tie Bar Kit	\$647.89	F0-2535400

1. Installation may vary according to the following factors: engine mounting height, transom thickness, use of transom savers, tiller bolt location, engine tilt range, and engine size.
2. Cylinder's must be plumbed in parallel only, no series connections.
3. Tie bar length may vary depending on toe in/toe out setup. To allow for toe, add or subtract from your nominal engine center to center distance.
4. Based on recommended engine manufacturer minimum center to center distances. Deviating from these recommendations may require stroke limiting cylinders and/or engine tilt limiting, please consult Dometic Technical Service.
5. Cylinder interference may occur with independent trim/tilt of the engines.
6. Mercury or Honda outboard engines using "O-O" style tiller arm only.

Configuration	Hardware Kit		Tie Bar				
	Part #	Qty.	Engine Center to Center Distance		Part #	Qty.	Notes
Twin Engine - Single Cylinder	HA5521	1	25.0" - 25.7"	635 mm - 653 mm	H06821	1	1, 3, 4, 5
	HA5521	1	25.8" - 30.7"	655 mm - 780 mm	H06822	1	1, 3, 4, 5
	HA5521	1	30.8" - 39.3"	782 mm - 998 mm	H06823	1	1, 3, 4
	HA5521	1	39.4" - 54.5"	1000 mm - 1384 mm	H06824	1	1, 3, 4
Mercury CMS and Honda	HA5522	1	25.0" - 26.2"	635 mm - 667 mm	H06821	1	1, 3, 4, 5, 6
	HA5522	1	26.3" - 31.2"	668 mm - 794 mm	H06822	1	1, 3, 4, 5, 6
	HA5522	1	31.3" - 40.0"	795 mm - 1016 mm	H06823	1	1, 3, 4, 6
	HA5522	1	40.1" - 55.0"	1017 mm - 1397 mm	H06824	1	1, 3, 4, 6
Twin Engine - Dual Cylinder	HA5520	1	28.0" - 29.0"	711 mm - 737 mm	H06819	1	1, 2, 3, 4, 5
	HA5520	1	29.1" - 30.6"	739 mm - 777 mm	H06820	1	1, 2, 3, 4, 5
	HA5520	1	30.7" - 33.4"	779 mm - 848 mm	H06821	1	1, 2, 3, 4, 5
	HA5520	1	33.5" - 38.4"	850 mm - 975 mm	H06822	1	1, 2, 3, 4
	HA5520	1	38.5" - 47.1"	997 mm - 1196 mm	H06823	1	1, 2, 3, 4

Dometic Tie Bar Adapter Kit - Yamaha



- Only for OEM Tie Bars. Adapter plates only.
- For use with OEM Tie Bar from the engine manufacturer.

Order No.	Mfg. No. / Description	List Price	
802290	(HO5036A)	\$370.99	F0-9695200

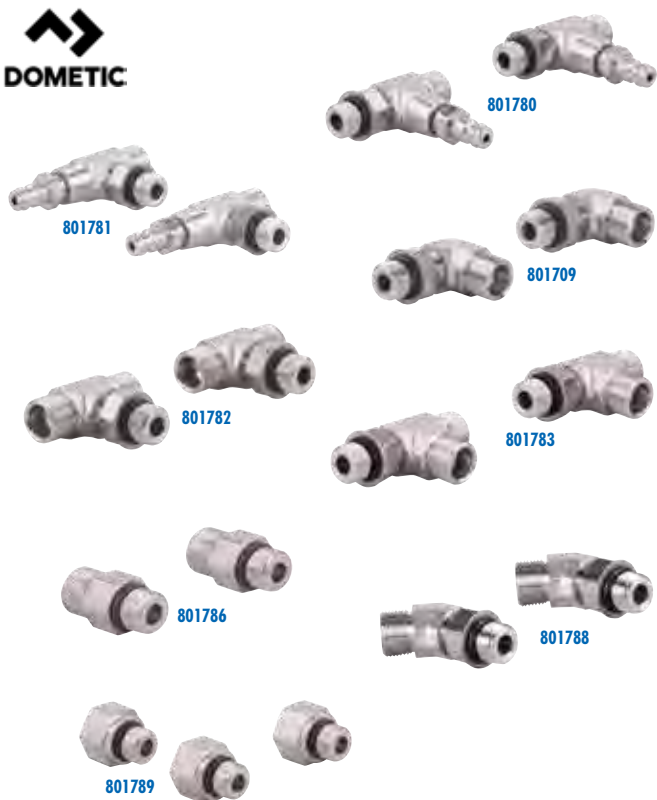
T & R Marine Tie Bar Kit - Complete



- Adjustable to 31" centers.
- Stainless steel makes this kit corrosion resistant.
- Yamaha: 115-225 HP, 1984 and newer, J/E: 50-235 HP, Mercury: 40-225 HP, Mariner: 40-225 HP and Suzuki: 150-150SS-200 HP, 1986 and newer.

Order No.	Mfg. No. / Description	List Price	
633289	(DEL-9805)	\$264.49	E0-7389100

Dometic Positionable O-Ring Hose Fittings (ORB)



- These fittings are made of corrosion resistant stainless steel and now thread into the cylinders/helms via Positionable O-ring hose parts.
- Fittings can be easily orientated in any direction to accommodate tube routing.
- **CAUTION:** NOT for use in an NPT helm/cylinder hose fitting port.

Order No.	Mfg. No. / Description		List Price	
801780	(HF6001) Vertical Bleeder Tee	2 Per Kit	\$89.19	FO-3426000
801781	(HF6002) Horizontal Bleeder Tee	2 Per Kit	\$89.19	FO-3426000
801709	(HF6004) Elbow Fitting	2 Per Kit	\$53.99	FO-9773000
801782	(HF6005) Tee Fitting	2 Per Kit	\$80.29	FO-0265000
801783	(HF6006) Tee Fitting	2 Per Kit	\$82.89	FO-2085000
801786	(HF6009) Straight Fitting	2 Per Kit	\$28.49	FO-4991000
801788	(HF6011) 45° Fitting	2 Per Kit	\$45.49	FO-4813000
801789	(HF6012) -5 ORB (M) -1/4" NPT (F)	3 Per Kit	\$57.69	FO-8304000

Dometic Tiller Bushing Kit



- High strength tiller bolt.
- For: HC5345-3, HC5346-3, HC5347-3, HC5348-3, HC5358-3, HC5445-3, HC6345-3, HC5358-3, HC6750-3, HC6751-3, HC6752-3, HC6753-3, HC6754-3, HC6755-3 and HC6760-3.

Order No.	Mfg. No. / Description	List Price	
801337	(HA5829)	\$40.19	FO-3182000

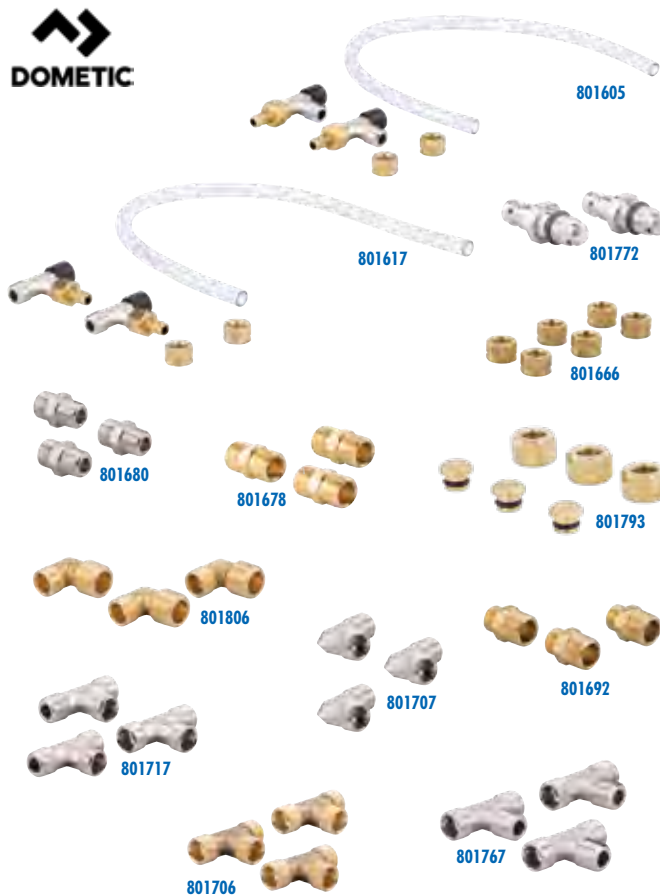
Dometic Front Mount Cylinder High Strength Tiller Bolt Kit



- The nut/bolt in this kit are to be used with ALL 300HP+ outboard engines as well as ALL Mercury XS engines.

Order No.	Mfg. No. / Description	List Price	
799852	(HA5822)	\$31.29	FO-0912000

Dometic NPT Fittings



- All Dometic manual hydraulic steering systems utilize the same style of fittings for all applications.
- These are 3/8" compression fittings which utilize a 9/16"-24 extra fine thread.
- **CAUTION:** NPT fittings are not to be used in a -3 helm and/or cylinder. Doing so will result in irreparable damage to the helm/cylinder. ONLY use a Dometic ORB Hose Fitting in a -3 helm and/or cylinder.

Order No.	Mfg. No. / Description		List Price	
801605	(HF5520) Horizontal Bleeder Tee	2 Per Kit	\$102.69	FO-8817000
801617	(HF5521) Vertical Bleeder Tee	2 Per Kit	\$98.99	FO-9296000
801772	(HF5548) Bleed Nipple	2 Per Kit	\$34.59	FO-1242000
801666	(HF5526) Tube Nut - 3/8"	6 Per Kit	\$29.89	FO-2902000
801793	(HF5524) Cap Plug Nut - 3/8"	6 Per Kit	\$30.49	FO-4312000
801678	(HF5527) Union Coupling Fitting	3 Per Kit	\$24.09	FO-6861000
801680	(HF5528) Straight - 1/4" NPT to 3/8" Tube	3 Per Kit	\$30.79	FO-5512000
801692	(HF5532) Conn. - 3/8" NPT to 3/8" Tube	3 Per Kit	\$23.69	FO-8561000
801707	(HF5529) Elbow - 1/4" NPT to 3/8" Tube	3 Per Kit	\$50.89	FO-2653000
801806	(HF5534) Elbow - 3/8" NPT to 3/8" Tube	3 Per Kit	\$33.59	FO-1532000

TEE FITTINGS (3 PER KIT)

Order No.	Mfg. No. / Description	List Price	
801706	(HF5530) 3/8" Tube	\$49.99	FO-9943000
801717	(HF5531) 1/4" NPT to 3/8" Tube, 90°	\$58.79	FO-5114000
801767	(HF5536) 1/4" NPT to 3/8" Tube, 180°	\$50.39	FO-7253000

Dometic Tiller Plate Washer Kit



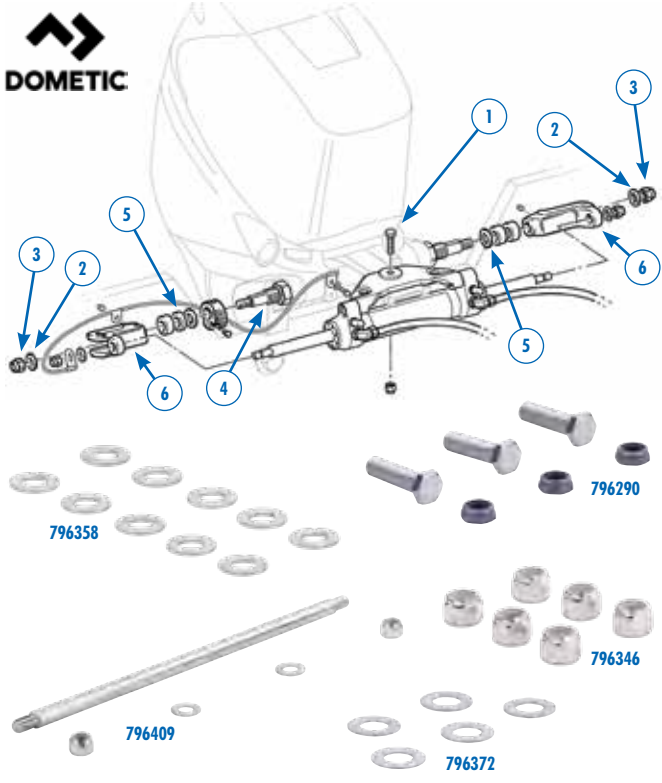
- Dometic outboard steering cylinder tiller plate washer kit.
- For: HC5345-3, HC5347-3, HC5348-3 and HC5358-3.

Order No.	Mfg. No. / Description	List Price	
7001444	(HA5820)	\$72.89	FO-2015000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailer
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

- Electronics
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- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Front Mount Cylinder Parts - HC5345-3



Item	DMI #	MFG #	Qty.	Description	List Price	
1	796290	(HP6001)	1	Stainless Steel Bolt & Nut	\$33.09	F0-6132000
2	796358	(HP6134)	2	Stainless Steel Washer	\$12.89	F0-2090000
3	796346	(HF6008)	2	FCP Nut, 1/2"	\$40.09	F0-6082000
4	796409	(HP6016)	1	Support Rod	\$121.39	F0-7948000
5	796372	(HP6017)	2	FCP Washer	\$10.39	F0-7270000
6	796485	(HP6014)	2	S.S. Support Bracket	\$303.79	F0-5621200

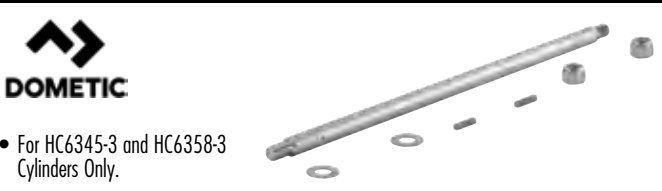
Dometic Clevis Connection



• 7/8" NF threads, 5/8" hole.

Order No. **795560** Mfg. No. / Description (HP6123) List Price **\$274.59** F0-1229100

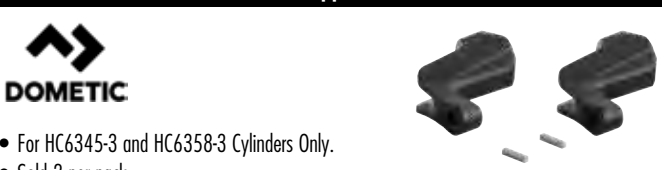
Dometic Support Rod



• For HC6345-3 and HC6358-3 Cylinders Only.

Order No. **801349** Mfg. No. / Description (HP6111) List Price **\$172.39** F0-7602100

Dometic Support Brackets



• For HC6345-3 and HC6358-3 Cylinders Only.
• Sold 2 per pack.

Order No. **801351** Mfg. No. / Description (HP6101) List Price **\$185.99** F0-9103100

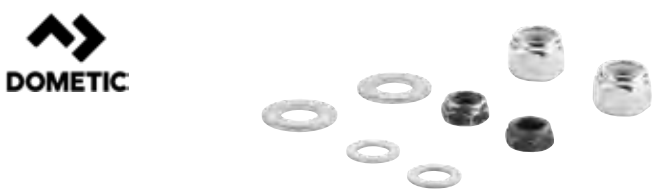
Dometic Stainless Steel Hex Bolt and Nut



• Stainless steel.
• 3/8" x 1-5/8".
• 3 of each.

Order No. **795558** Mfg. No. / Description (HP6007) List Price **\$68.89** F0-2284000

Dometic Cylinder Service Kit



Order No. **801313** Mfg. No. / Description (HP6036) List Price **\$47.89** F0-2533000

Dometic Hardware Kit with Slide Plate



• For front mount slide cylinder.

Order No. **801286** Mfg. No. / Description (HP6031) List Price **\$408.39** F0-7858200

Dometic Hydraulic Steering Cylinder Spacer Kit



• Spacer kit for: HC5345-3, HC5348-3 and HC5358-3.
• For low HP outboard engines.

Order No. **800575** Mfg. No. / Description (HO5090) List Price **\$40.89** F0-2682000

Dometic Spacer Kit



• Comes with spacers and adjusting nut.

Order No. **801301** Mfg. No. / Description (HP6033) List Price **\$72.29** F0-0605000

Dometic Ball Joints



Order No. **797615** Mfg. No. / Description (HP6003) For Tie Bar, 1/2" SST List Price **\$136.59** F0-1659000
Order No. **801270** Mfg. No. / Description (HP6013) Rod Eng, 5/8" x 5/8"-18UNF List Price **\$193.69** F0-8553100

Dometic Outboard Hydraulic Hose Kits

Determine length by measuring along the intended path to the center of engine, round up to next even foot and add 2 feet.

Dometic Standard Outboard Hydraulic Hose Kits



801678

Order No.	Mfg. No.	Length	List Price	
800400	(HO5102)	2'	\$173.99	FO-9712100
800412	(HO5103)	3'	\$173.99	FO-9712100
800422	(HO5104)	4'	\$173.99	FO-9712100
800435	(HO5106)	6'	\$173.99	FO-9712100
800448	(HO5108)	8'	\$173.99	FO-9712100
800451	(HO5110)	10'	\$173.99	FO-9712100
800464	(HO5112)	12'	\$173.99	FO-9712100
800477	(HO5114)	14'	\$173.99	FO-9712100
800480	(HO5116)	16'	\$177.19	FO-3042100
800493	(HO5118)	18'	\$179.69	FO-8752100
800506	(HO5120)	20'	\$179.69	FO-8752100
800519	(HO5122)	22'	\$231.99	FO-9326100
800522	(HO5124)	24'	\$245.79	FO-5027100
800535	(HO5126)	26'	\$312.69	FO-8881200
800549	(HO5130)	30'	\$348.69	FO-8044200
800563	(HO5140)	40'	\$459.39	FO-7512300

- Supplied with pre-attached hose fittings on both ends.
- 1,000 psi.
- Can be used with all Dometic systems, except Dometic PRO, BayStar, Capilano and 3-line inboard systems.
- Sold per pair only.

3/8" UNION COUPLING FITTING (3 PER KIT)

Order No.	Mfg. No. / Description	List Price	
801678	(HF5527)	\$24.09	FO-6861000

Dometic Double Stainless Steel Bulkhead Hose Kits



- These hose assemblies have integral 316 stainless steel bulkhead plate(s) and 316 stainless steel fittings which allow for tidy hose routing while preventing hose kinking or chafing.
- Sold per pair only.

Order No.	Mfg. No. / Description	List Price	
800361	(HO-8816) Length 16'	\$310.99	FO-9671200
800373	(HO-8818) Length 18'	\$308.79	FO-5161200

Racor Marine Hose Fittings for Bulkhead Hose



401999

401997

401961

CRIMP, FEMALE SAE 45° - SWIVEL - STRAIGHT

Order No.	Mfg. No. / Description	List Price	
401961	(108MS-6-5B) 5/16" (Fits Hynautic)	\$11.49	G0-0770000

FIELD ATTACHABLE, FEMALE SAE 45° - SWIVEL - STRAIGHT

Order No.	Mfg. No. / Description	List Price	
401997	(208MS-6-5B) 5/16", Reusable (Fits Hynautic)	\$16.89	G0-2311000

F.A. MARINE TUBE - STRAIGHT WITH O-RING

Order No.	Mfg. No. / Description	List Price	
401999	(2TFMS-6-5B) 5/16" - Reusable (Fits Dometic)	\$19.99	G0-9331000

Dometic Pro Outboard Hydraulic Hose Kits



- Supplied with pre-attached hose fittings on both ends.
- 1,500 psi.
- Can be used with all Dometic systems, except BayStar, Capilano and 3-line inboard systems.
- Sold per pair only.

Order No.	Mfg. No. / Description	List Price	
800241	(HO5710) Length 10'	\$265.89	FO-2168100
800246	(HO-5714) Length 14'	\$265.89	FO-2168100
800261	(HO-5716) Length 16'	\$265.89	FO-2168100
800284	(HO-5718) Length 18'	\$265.89	FO-2168100
800297	(HO5720) Length 20'	\$265.89	FO-2168100
800309	(HO5724) Length 24'	\$463.79	FO-5642300

Dometic Standard Bulkhead Hose Kits



- Each hose has an integral bulkhead fitting for tidy routing of hoses through a splashwell bulkhead, helping to eliminate excess loose hose, kinking or chafing.
- Can be used with all Dometic systems, except BayStar, Capilano and 3-line inboard.
- Sold per pair only.

Order No.	Mfg. No. / Description	List Price	
800157	(HO8110) Length 10'	\$282.39	FO-7679100
800070	(HO8114) Length 14'	\$280.99	FO-9669100
800184	(HO8116) Length 16'	\$283.09	FO-6189100
800198	(HO8118) Length 18'	\$283.09	FO-6189100
800200	(HO8120) Length 20'	\$283.09	FO-6189100
800210	(HO8122) Length 22'	\$348.89	FO-2244200
800223	(HO8124) Length 24'	\$365.99	FO-9165200
800234	(HO8130) Length 30'	\$416.09	FO-6219200

T-H Marine Bulkhead Strain Relief Hose Kit



- Distributes strain from bends in hose.
- Water tight gripper fitting - no leaks.
- Great for hydraulic steering hose.
- Bulkhead fitting has flange for protection.
- Flange is 2-3/4" diameter and requires 1-1/4" installation hole.

Order No.	Mfg. No. / Description	List Price	
641341	(BSR-1K-DP)	\$21.59	E0-9161000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailer
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Marpac Reinforced Nylon Tubing



- Marpac Hydraulic Hose Kits exclusively manufactured by Parker Hannifin and Uflex.
- With fast, accurate response and a corrosion resistant thermoplastic construction.
- 1,000 psi.
- Sold in full rolls only.

Order No.	Description	List Price	
402002	5/16" x 50' Length	\$132.89	GO-4098000
402014	5/16" x 100' Length	\$254.89	GO-8707100

Marpac High Strength Semi-Rigid Nylon Tubing



- For use with inboard, sterndrive or seadrive steering systems with Dometic I helms only.
- Not recommended for tubing runs in excess of 100'.
- Marpac Hydraulic Hose Kits exclusively manufactured by Parker Hannifin and Uflex.
- Sold in full rolls only.

Order No.	Description	List Price	
804460	3/8" x 25' Length	\$43.89	GO-1492000
804462	3/8" x 50' Length	\$68.19	GO-9654000

Dometic Nylon Tubing



- Outside diameter 3/8".
- Recommended for: Inboard, sterndrive and Seadrive steering systems with Dometic (1.7 cu. in.) helms only.
- Do not use on outboard systems.
- Sold in full rolls only.

Order No.	Mfg. No.	Length	List Price	
801102	(HT5092)	25'	\$100.59	FO-1407000
801115	(HT5095)	50'	\$149.39	FO-7540100
801128	(HT5100)	100'	\$299.69	FO-8790200

Dometic Remote Bulkhead Fittings



- Field installable series of products reduces the amount of stocking hose SKU's by allowing the user to install these on a standard hose kit.
- Split grommet design allows for easy installation onto a hose assembly.
- Increased inner diameter of plastic base plate simplifies fitting installation by allowing crimped hose fitting to pass through the base plate.
- Stainless steel cover plates available for both single and dual applications provide cost effective cosmetic upgrade.

Order No.	Mfg. No. / Description	List Price	
803011	(HO7100) Single Hose Stainless Steel	\$85.49	FO-4895000
803026	(HO7105) Single Hose Plastic	\$39.89	FO-2972000
803038	(HO7200) Dual Hose Stainless Steel	\$78.69	FO-8055000
803040	(HO7205) Dual Hose Plastic	\$38.89	FO-2272000

Dometic Hydraulic Steering Fluid



- Formulated to provide the best performance for your steering system.
- A perfect blend of viscosity stabilizers, anti-wear agents and corrosion inhibitors will ensure maximum steering life performance.

Order No.	Mfg. No. / Description	List Price	
799779	(HA5430H) Quart	\$28.59	FO-1002000
799760	(HA5440H) Gallon	\$108.19	FO-3757000

Dometic Filler Kit



- This kit is needed to properly bleed the Dometic outboard steering kit.
- Screws onto the Dometic and equivalent fluid to bleed the Dometic system.
- For use on Dometic's Helm I/O, O/B and I/B engine pumps for boats up to 40'.
- Includes: Tube and pushpin to vent and re-seal Dometic HA5430 Oil bottle (Not included).

Order No.	Mfg. No. / Description	List Price	
799784	(HA5438)	\$28.69	FO-8002000

Marpro Premium Marine Steering Fluid



- Ideal for use in all marine hydraulic steering systems.
- Provides outstanding antioxidant performance in ASTM D2272 testing, as well as superior anti-wear and corrosion protection capabilities.
- Meets or exceeds OEM specifications; will not void warranty.

Order No.	Description	List Price	
7-1087	Quart 12 Per Case	\$15.99	FO-9111000
7-1086	Gallon 4 Per Case	\$54.19	FO-3973000

Dometic Electronic Power Steering Fluid



- Specially formulated for marine applications.
- Quart.

Order No.	Mfg. No. / Description	List Price	
799838	(HA5482)	\$41.29	FO-0982000

Dometic Additional Dometic Steering Station or Autopilot ORB Fitting Kits



- These 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 accommodate tube routing.
- **CAUTION:** NOT for use in an NPT helm/cylinder hose fitting port.

FITTING KIT FOR AN OUTBOARD SYSTEM

- Fitting kit to add a 2nd station or autopilot to an outboard system.

Order No.	Mfg. No. / Description	List Price	
801784	(HF6007)	\$244.19	F0-3907100

FITTING KIT FOR AN INBOARD OR STERNDRIVE SYSTEM

- Fitting kit to add a 2nd station or autopilot to an inboard or sterndrive system.

Order No.	Mfg. No. / Description	List Price	
801787	(HF6010)	\$113.79	F0-5697000

Dometic Power Purge Jr. - Air Purging Kit



- The easy way to 100% purge air out of BayStar and Dometic hydraulic steering systems.
- Makes bleeding systems simple, ensuring steering feel is solid every time.
- 100% portable.
- Powered by 12 volt battery.
- Quick connect fittings.
- Filter screens helps keep contamination out of your steering system.
- Optional Dual Cylinder Purging Kit **797805** (HA5461) available.
- **841264** (HP6149) Low Profile Hose Fitting Kit - for use in applications with limited clearance to hydraulic cylinder fill/bleed connections.

Order No.	Mfg. No. / Description	List Price	
797792	(HA5445-2) Power Purge Jr.	\$1,537.29	F0-0167010
797805	(HA5461) Dual Cylinder Purging Kit	\$395.99	F0-9177200
841264	(HP6149) Low Profile Hose Fitting Kit	\$449.89	F0-2941300
797817	(HP6170) Quick Connect Hose Ends	\$132.29	F0-0629000

Dometic Fitting Kits to Add a 2nd Station or Autopilot



- Contains fittings for adding either a 2nd station or an autopilot to an existing Dometic System.
- Can be used with outboard hose kit, nylon tubing or copper tubing installations.

Order No.	Mfg. No. / Description	List Price	
800901	(HF5501) With 25' Tubing	\$211.29	F0-0974100
800914	(HF5502) Without Tubing	\$100.79	F0-5507000

Dometic Application Kit



- Kit to connect 3/8" diameter copper tubing to Dometic cylinders (using Dometic outboard hose).

Order No.	Mfg. No. / Description	List Price	
800956	(HF5508)	\$162.29	F0-0631100

Dometic Purge Hose Kits



Order No.	Mfg. No. / Description	List Price	
799840	(HA5486) Length 15'	\$310.49	F0-4371200
799842	(HA5487) Length 30'	\$390.79	F0-5537200

Dometic Capilano Variable Turns Hydraulic Steering System

- The helm pump features variable displacement enabling the helmsman to adjust the steering wheel turns to suit various maneuvering and weather conditions.
- Systems are not air-pressurized; no air leaks or pressure drops.
- Each helm is its own reservoir; separate reservoir not needed.
- For most inboard powered boats with single or twin engines from 30 to 55 feet in length.
- This application guide should be used with discretion.
- It is the final responsibility of the boat designer-builder to specify maximum expected steering loads.
- Meets ABS, Lloyd and Det Norske Veritas specifications.

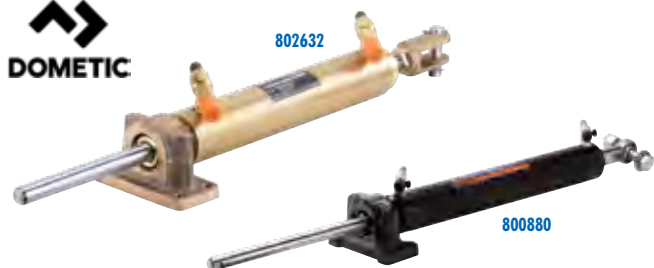
Dometic Capilano Helm Pumps



- Electronics
 - Trolling Motors
 - Instruments
- A unique variable displacement feature allows the number of steering wheel turns to be adjusted by the helmsman within a predetermined range.
 - Shaft is 3/4" standard taper with 5/8" NF threads.
 - Protected by built-in 1,000 PSI pressure relief valves.

Order No.	Mfg. No.	Model	Displacement:	List Price	
802505	(HH5250)	1250V	1.7 cu. in. - 3.4 cu. in.	\$1,848.59	F0-1049210
802517	(HH5275)	1275V	2.7 cu. in. - 5.4 cu. in.	\$1,888.19	F0-3712310

Dometic Capilano Cylinders - Trunion Mount



- Steering, Controls
 - Pumps
 - Fuel System
 - Seating & Pedestals
 - Trailering
 - Tops & Covers
 - Perform.
- Heavy duty brass cylinders with bleed fittings; chrome plated stainless steel rods.
 - Stainless steel and bronze mounting hardware.
 - Comes with stainless rod and bronze clevis.
 - 7" standard travel, except 802644 (HC-5379) which has 11" standard travel.
 - Single cylinder may be used for single rudder or dual rudder with tie bar.
 - Balanced cylinders.

Order No.	Mfg. No. / Description	Stroke	List Price	
802632	(HC5357) BA200-7TMC Rod End Clevis	7"	\$1,569.59	F0-1789010
800880	(HC5373-3) BA175-9TMB Ball Joint	9"	\$1,044.99	F0-9413700
802644	(HC5379) BA200-11TMC Rod End Clevis	11"	\$1,752.39	F0-7662210

Dometic Steering Wheel Bushing



- Paint & Paint Acc.
 - Fun & Flotation
 - Topside Acc.
 - Cockpit & Deck
- Solid brass construction. Adapts 1" straight steering wheel hub to 3/4" tapered helm shaft. Capilano Helms Only.

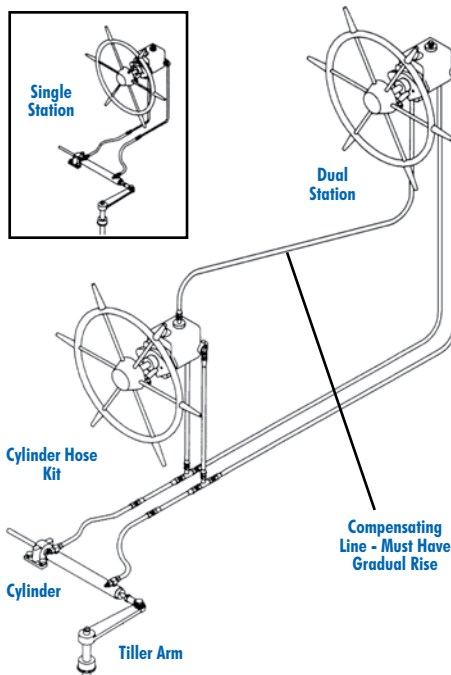
Order No.	Mfg. No. / Description	List Price	
803014	(HB0573)	\$52.79	F0-5963000

Dometic Fitting Kit for Capilano Steering



- Misc.
 - Comm.
- For 5/8" copper tubing.

Order No.	Mfg. No. / Description	List Price	
801779	(HF5592)	\$100.79	F0-5507000



Dometic Fill and Vent Plug Kit



- This kit will facilitate filling and purging of the steering system at a more convenient and accessible area than the helm pump.
- A through dash fitting, complete with a waterproof vent plug, 18" long vinyl tube and elbow fittings are supplied with this kit.

Order No.	Mfg. No. / Description	List Price	
802997	(HA5450)	\$93.29	F0-0356000

Dometic Capilano Cylinder Hose Kit



- This hose kit contains (2) 18" hoses.
- For single cylinder applications.

Order No.	Mfg. No. / Description	List Price	
802808	(HA5731)	\$120.49	F0-4348000

Dometic Helm Seal Kit



- Seal kit for: HH5250 and HH5275 helm pumps.

Order No.	Mfg. No. / Description	List Price	
803204	(HS161)	\$68.49	F0-4974000

Dometic Cylinder Seal Kit



- Seal kit for: HC5378 and HC5379 cylinders.

Order No.	Mfg. No. / Description	List Price	
803266	(HS185)	\$80.59	F0-1465000

Dometic Inboard Power Steering



Steering today's high horsepower luxury yachts and commercial boats all too often challenges the helmsman's physical endurance and cruising enjoyment.

The Dometic Power Steering System was designed specifically to meet this challenge, representing the ultimate in comfort, simplicity, safety and reliability. Superior design and selection of materials, precision manufacturing and rigid quality control all add up to an outstanding rugged product, continuing the Dometic tradition.

The Dometic open center Power Steering system has been designed to steer commercial and pleasure boats, requiring a maximum output force of 10,308 lbf or 45,852 Newtons, or a maximum torque of 66,130 in-lbs or 7,472 Newton meters. If uncertain of your application, or you have special requirements, refer to the Dometic power steering brochure or consult the factory.

HOW IT WORKS

Dometic hydraulic power steering uses the ship's engine(s) to provide the "POWER" for the power steering system, via an engine or electric motor driven hydraulic pump. A manual hydraulic steering system consisting of a standard Dometic helm and a hydraulic steering cylinder, (fitted with an integral servo cylinder and a power steering valve) supplies the "control" portion of the power steering system. Under normal conditions, with engines running, a hydraulic oil supply is in a stand-by mode, ready to be directed to the steering cylinder as dictated by the steering wheel, servo cylinder and power steering valve. Turning the steering wheel left or right causes the power system to go from 'stand-by' into 'operating' mode and moves the steering cylinder accordingly. In the event of a power source failure, hydraulic oil is automatically pumped directly from the steering helm into the servo and steering cylinder, providing the helmsman with manual back-up steering. An engine room mounted oil reservoir allows easy system fill and assists the in-line oil cooler in cooling the hydraulic oil. An in-line oil filter helps protect the steering system components against contaminants.

POWER STEERING CYLINDER

- Effortless steering from docking to top speed.
- Responsive steering 3-1/2", turns lock to lock (or to suit).
- Automatic manual back up steering.
- Simplified installation.
- Multiple steering stations.
- Easy autopilot interface.

Mfg. No. / Description

- (HC5802) 9" x 2 Cylinder
- (HC5804) 11" x 2 Cylinder
- (HC5806) 9" x 2.5 Cylinder



SELECTION GUIDE

Cylinder Part Number	Displacement Hulls (Standard)	Displacement Hulls (Heavy Duty)	Planning Hulls	Displacement	Bore	Stroke
HC5802 - Twin 9" x 2 Cylinder	Up to 75'	Up to 55'	Up to 85'	42.50"	2.0"	9"
HC5804 - Twin 11" x 2 Cylinder	Up to 85'	Up to 60'	Up to 100'	52.00"	2.0"	11"
HC5806 - Twin 9" x 2.5 Cylinder	Up to 110'	Up to 80'	Up to 120'	74.22"	2.5"	9"

Dometic Complete Seal Kit (HS5180)



- For power steering cylinder.
- Consists of: Main Cylinder, Servo Cylinder and Servo Valve.

Dometic Servo Cylinder Seal (HS5197)

- For HC5801 and HC5803 power steering cylinders.

Dometic Servo Valve Block Seal Kit (HS5196)



- For all power steering cylinders.

Dometic Main Cylinder Seal (HS5198)

- For HC5801, HC5802, HC5803 and HC5804 power steering cylinders.

Hynautic Gauge - Bottom Mount

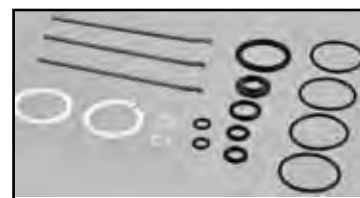


- Gauge - Bottom mount.
- 0-60 PSI.

Order No. Mfg. No. / Description
401656 (HP6004)

List Price
\$46.09 F0-6223000

Hynautic Seal Kits for Cylinders



Order No.	Mfg. No. / Description	List Price
402026	(KS-01) For K-11 - K-14 Cylinders	\$52.49 F0-4763000
401985	(KS-06) For K-21 - K-29 (After 08/83)	\$52.09 F0-6463000

Hynautic Seal Kits for Heavy Duty Helm Pumps



Order No.	Mfg. No. / Description	List Price
401579	(HS-01) For H-20 Series (1978 & Earlier)	\$53.69 F0-8573000
401593	(HS-02) For H-20 Series (1979 to Date)	\$53.69 F0-8573000
401606	(HS-04) For H-40 Series (1979 to Date)	\$53.69 F0-8573000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Hynautic to Dometic Cross Reference



Hynautic Part #	Hynautic Description	Dometic Part #	Dometic Description	Remarks
H-116	Rear Mount Helm - 1.6 cu. in.	HH5260-3	Dometic Rear Mount Helm - 1.4 cu. in.	Advisory Note 764618
H-120	Rear Mount Helm - 2.0 cu. in.	HH5261-3	Dometic Rear Mount Helm - 1.7 cu. in.	Advisory Note 764618
H-124	Rear Mount Helm - 2.4 cu. in.	HH5262-3	Dometic Rear Mount Helm - 2.4 cu. in.	Advisory Note 764618
H-21	Heavy Duty Helm - 1" Straight, 2.75 cu. in.	N/A		Will continue to manufacture 20 Series Helms
H-22	Heavy Duty Helm - 1" Straight, 2.00 cu. in.	N/A		Will continue to manufacture 20 Series Helms
H-22-2	Heavy Duty Helm - 1" Straight, 1.6 cu. in.	N/A		Will continue to manufacture 20 Series Helms
H-25	Heavy Duty Helm - 3/4", 1"/ft Tapered, 2.75 cu. in.	N/A		Will continue to manufacture 20 Series Helms
H-26	Heavy Duty Helm - 3/4", 1"/ft Tapered, 2.00 cu. in.	N/A		Will continue to manufacture 20 Series Helms
H-29	Heavy Duty Helm - 1" Straight, 2.75 cu. in.			Designed for Auto Pilot Drive
H-41	Heavy Duty Helm - 1" Straight, 5.50 cu. in.	N/A		Will continue to manufacture 40 Series Helms
H-41-2	Heavy Duty Helm - 3/4", 1"/ft Tapered, 5.50 cu. in.	N/A		Will continue to manufacture 40 Series Helms
H-42	Heavy Duty Helm - 1" Straight, 4.00 cu. in.	N/A		Will continue to manufacture 40 Series Helms
H-42-2	Heavy Duty Helm - 3/4", 1"/ft Tapered, 4.00 cu. in.	N/A		Will continue to manufacture 40 Series Helms
H-42-4	Heavy Duty Helm	N/A		Will continue to manufacture 40 Series Helms
H-216	Tilt Helm - 1.6 cu. in.	HH6541-3	Dometic Classic Tilt Helm - 1.7 cu. in.	
H-220	Tilt Helm - 2.0 cu. in.	HH6543-3	Dometic Classic Tilt Helm - 2.0 cu. in.	
H-224	Tilt Helm - 2.4 cu. in.	HH6542-3	Dometic Classic Tilt Helm - 2.4 cu. in.	
H-316	Marol Helm - 1.6 cu. in.	HH5271-3	Dometic Front Mount Helm - 1.7 cu. in.	Advisory Note 764621
H-320	Marol Helm - 2.0 cu. in.	HH5273-3	Dometic Front Mount Helm - 2.0 cu. in.	Advisory Note 764621
H-324	Marol Helm - 2.4 cu. in.	HH5272-3	Dometic Front Mount Helm - 2.4 cu. in.	Advisory Note 764619
H-50	Heavy Duty Helm - 3/4" Tapered, 2.00 cu. in.	HH5273-3	Dometic Front Mount Helm - 2.0 cu. in.	Advisory Note 764623
H-51	Heavy Duty Helm - 3/4" Tapered, 2.75 cu. in.	HH5272-3	Dometic Front Mount Helm - 2.4 cu. in.	Advisory Note 764623
H-52	Heavy Duty Helm - 3/4" Tapered, 1.65 cu. in.	HH5271-3	Dometic Front Mount Helm - 1.7 cu. in.	Advisory Note 764623
H-816	1.6 80 Series Compact Helm w/Int. Reservoirs & Relief	HH5271-3	Dometic Front Mount Helm - 1.7 cu. in.	Advisory Note 764622
H-820	2.0 80 Series Compact Helm w/Int. Reservoirs & Relief	HH5273-3	Dometic Front Mount Helm - 2.0 cu. in.	Advisory Note 764622
H-824	2.4 80 Series Compact Helm w/Int. Reservoirs & Relief	HH5272-3	Dometic Front Mount Helm - 2.4 cu. in.	Advisory Note 764622
K-1-B / K-1-C	Inboard Universal Mount Cylinder - Stroke 9"	HC5369	Cylinder - BA150-9TM - Stroke 9"	Advisory Note 764624
K-2-B / K-2-C	Inboard Universal Mount Cylinder - Stroke 9"	HC5373	Cylinder - BA175-9TM - Stroke 9"	Advisory Note 764625
K-3-B / K-3-C	Inboard Universal Mount Cylinder - Stroke 9"	HC5802	Cylinder - BA200-9TM - Stroke 9"	Retracted Length is 3.5" Longer on the HC5802 Cyl. - 764615
K-4-B / K-4-C	Inboard Universal Mount Cylinder - Stroke 12"	HC5378	Cylinder - BA200-11TM - Stroke 11"	1" Shorter Stroke - Advisory Note 764616
K-6	Outboard Front Mount, Drag Link Cylinder			HyTrac kits will remain in some form
K-6S	I/O K-6 Cylinder (Non Power-Assist)	HC5332	I/O Merc/Volvo SX 135-7EM Cyl.	
K-8	Inboard Universal Mount Cylinder - Stroke 9.5"	HC5806	Large Inboard Cylinder - Stroke 9"	
K-10	Outboard Slide Plate Cylinder - Stroke 9.5"		Dometic Pivot Mounts	
K-11	Outboard Ball Mount Cylinder - Stroke 9"	HC5370-3	Outboard Side Mount Cylinder - Stroke 8"	Advisory Notice 764613
K-12	Outboard Ball Mount Cylinder - Stroke 7"	HC5370-3	Outboard Side Mount Cylinder - Stroke 8"	2" Longer Stroke - Advisory Notice 764613
K-13	Outboard Side Mount Cylinder - Stroke 9"	HC5380-3	Outboard Splashwell Mount Cyl. - Stroke 9"	1" Shorter Stroke - Advisory Notice 764614
K-14	Outboard Side Mount Cylinder - Stroke 7"	HC5380-3	Outboard Splashwell Mount Cyl. - Stroke 9"	Advisory Notice 764614
K-18	Inboard Universal Mount Cylinder - Stroke 7"	HC5322-3	Universal Mount Cylinder - Stroke 7"	Stroke & Mount Differ
K-19	Inboard Universal Mount Cylinder - Stroke 9"	HC5323-3	Universal Mount Cylinder - Stroke 9"	Stroke & Mount Differ
K-22	Inboard Fixed Mount Cylinder - Stroke 10"	K-22		The Hynautic Version will stay as is
K-27	Inboard Fixed Mount Cyl. - Rod Ends on both ends	K-27		The Hynautic Version will stay as is
K-28	Inboard Fixed Mount Cylinder - Stroke 12"	K-22		Only Difference is the Stroke
K-29	Inboard Fixed Mount Cyl. - Rod Ends on both ends	K-27		Only Difference is the Stroke
K-31	Inboard Fixed Mount Cylinder - Stroke 10"	K-31		The Hynautic Version will stay as is
K-51	Inboard BA150-7 Cylinder	HC5314	I/B BA150-7ATM Cylinder	Advisory Notice 764626
K-59	Inboard Tube Mount Unbalanced 125 - 7" Cylinder	HC5370	O/B Side Mount Cylinder	HC Versions are Unbalanced, K-59 is a
		HC5328	I/O 125-8EM Cylinder	Balanced Cylinder See Application for details
		HC5329	I/O 125-8VEM Cylinder	for Specific Cylinder
PSK-10	Servo Cylinder	HC5801	Dometic P/S 9" Cylinder	Replaces PSK-10 and Power Cylinder
PSK-11	Open Center Servo Cylinder	HC5803	Dometic P/S 11" Cylinder	Replaces PSK-11 and Power Cylinder
PSK-12	Closed Center Servo Cylinder			No Equivalent Product

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Uflex Gotech Hydraulic Steering Package



FOR ENGINES UP TO 115 HP



- Specifically designed to fit the tight cowling clearances and space constraints of smaller horsepower engines.
- For engines under 115 HP.
- Wheel turns 4.5.
- Kit includes:
 - (1) UP18 - Intermediate Mount Helm Pump
 - (1) UC69-1 - Inboard Cylinder
 - (2) Oil 150 - Hydraulic Oil (2 Liters)
 - (1) KIT OB-GT/M - Hose Kit (pair of 19.7' hoses)

LIMITED QUANTITIES

Order No. Mfg. No. / Description List Price
2006820 (GOTECH 1.0) **\$1,018.59** FO-1031700

Uflex Hytech Hydraulic Steering Package



FOR ENGINES UP TO 175 HP



- Specifically designed to fit the tight cowling clearances and space constraints of smaller horsepower engines.
- For engines up to 175 HP.
- Wheel turns 4.7
- Kit includes:
 - (1) UP20F - Front Mount Helm Pump
 - (1) UC95-0BF-1 - Front Mount Outboard Cylinder
 - (2) Oil 150 - Hydraulic Oil (2 Liters)
 - 40' of Cut to Length Tubing

Order No. Mfg. No. / Description List Price
2006825 (HYTECH 1.1) **\$1,031.69** FO-8122700

Uflex Protech Hydraulic Steering Packages



MUST ORDER HOSE KIT SEPARATELY PAGE 426



- Kit includes:
 - (1) UP28F - Front Mount Helm Pump
 - (1) UC128TS - Front Mount Outboard Cylinder
 - (2) Oil 150 - Hydraulic Oil (2 Liters)
- Recommended for:

Single Engine/Single Cylinder	Up to 300 HP
Dual Engine/Single Cylinder	Up to 300 HP (non counter rotating engines)
Dual Engine/Single Cylinder	Up to 500 HP (counter rotating engines)
Dual Engine/Dual Cylinder	Up to 500 HP (non counter rotating engines)
Dual Engine/Dual Cylinder	Up to 600 HP (counter rotating engines)
- Please see cylinder application guide on the Page 422.

Order No. Mfg. No. / Description List Price
8033000 (PROTECH 1.1) Includes: UC128TS-1 Cylinder **\$1,351.59** FO-1164900
8033005 (PROTECH 2.1) Includes: UC128TS-2 Cylinder **\$1,318.89** FO-2232900

Uflex SilverSteer Hydraulic Steering Packages



MUST ORDER HOSE KIT SEPARATELY PAGE 426



- Specially designed for high performance, high torque applications. Recommended for bass boats, flat boats and tournament fishing boats.
- Recommended for:

Single Engine/Single Cylinder	Up to 350 HP
Dual Engine/Single Cylinder	Up to 350 HP (non counter rotating engines)
Dual Engine/Single Cylinder	Up to 600 HP (counter rotating engines)
Dual Engine/Dual Cylinder	Up to 600 HP (non counter rotating engines)
Dual Engine/Dual Cylinder	Up to 700 HP (counter rotating engines)
- Please see cylinder application guide on the Page 459.

SILVERSTEER HYDRAULIC STEERING PACKAGES WITH UC128-SVS CYLINDER

- Kit includes:
 - (1) UP28F-SVS - Front Mount Helm Pump
 - (1) UC128-SVS - Front Mount Outboard Cylinder
 - (2) Oil 150 - Hydraulic Oil (2 Liters)
- Order No. Mfg. No. / Description List Price
2007105 (SILVERSTEER 1.0B) Includes: UC128-SVS 1 Cylinder **\$1,559.69** FO-8719010
2007115 (SILVERSTEER 2.0B) Includes: UC128-SVS 2 Cylinder **\$1,880.09** FO-6061310

SILVERSTEER HYDRAULIC STEERING PACKAGES WITH UC130-SVS CYLINDER

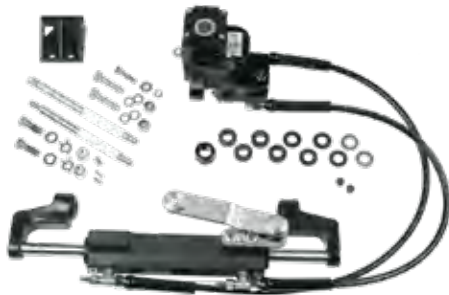
- Kit includes:
 - (1) UP28F-SVS - Front Mount Helm Pump
 - (1) UC130-SVS - Front Mount Outboard Cylinder
 - (2) Oil 150 - Hydraulic Oil (2 Liters)
- Order No. Mfg. No. / Description List Price
930176 (SILVERSTEERXP1) Includes: UC130-SVS 1 Cylinder **\$1,586.19** FO-3301110
930188 (SILVERSTEERXP2) Includes: UC130-SVS 2 Cylinder **\$1,586.19** FO-3301110

SILVERSTEER TILT HYDRAULIC STEERING PACKAGES

- Kit includes:
 - (1) UP25T-SVS / X70 - Front Mount Helm Pump with Tilt Mechanism
 - (1) UC128-SVS - Front Mount Outboard Cylinder
 - (2) Oil 150 - Hydraulic Oil (2 Liters)
- Order No. Mfg. No. / Description List Price
2007110 (SILVERSTEER 1TB) Includes: UC128-SVS 1 Cylinder **\$1,880.09** FO-6061310
2007120 (SILVERSTEER 2TB) Includes: UC128-SVS 2 Cylinder **\$1,880.09** FO-6061310

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Uflex ZTF Tiller Hydraulic Steering System



- Uflex ZTF Tiller systems eliminate propeller torque at the tiller handle when the driver is not actively changing direction.
- Using a patented hydraulic valve, the propeller torque is locked from reaching the tiller handle unless the driver pushes or pulls on the end of the handle, at which point the valve opens and allows for active steering movements.
- Kit includes:
UC128-ZTF + hoses pre filled with oil
Valve assembly including tiller arm connection bracket
Engine connection brackets
Push pull cables for throttle and shift
- For use with Suzuki DF150A - DF175A - DF200A.

NEW PRODUCT

Order No. Mfg. No. / Description
3715222 (ZTF Tiller S2)

List Price
\$2,908.39 FO-7853020

Uflex Intermediate Mount Position Helm



- Built-in lock valve for positive rudder lock.
- Integrated relief valve for over-pressure protection.
- 3/4" tapered stainless steel shaft.
- Corrosion proof composite housing.
- Easy accessible lock valve and shaft seal for replacement.
- Includes 2x 1/4" NPT fittings.
- Displacement/revolution: 18 cc - 1.1 cu.in.
- Relief valve setting: 55 Bar - 800 PSI.
- For use with UC81-0BF, UC68-OBS and UC69-1 cylinders only.

LIMITED QUANTITIES

Order No. Mfg. No. / Description List Price
930405 (UP18) **\$606.79** FO-5742400

Uflex Front Mount Helm



- Built-in lock valve for positive rudder lock.
- Integrated relief valve for over-pressure protection.
- 3/4" tapered stainless steel shaft.
- Corrosion proof composite housing.
- Easy accessible lock valve and shaft seal for replacement.
- Includes 90° adjustable fittings for 3/8" hose.
- Displacement/revolution: 20 cc - 1.2 cu.in.
- Relief valve setting: 70 Bar - 1,000 PSI.
- For use with UC95-0BF, UC68-OBS and UC69-1 cylinders only.

Order No. Mfg. No. / Description
2007210 (UP20FM)

List Price
\$610.69 FO-8472400

Uflex Front Mount Helms



- Built-in lock valve for positive rudder lock.
- Integral relief valve for over-pressure protection.
- 3/4" tapered stainless steel shaft.
- Ball bearing piston race.
- Easy accessible lock valve and shaft seal for replacement.
- Includes 90° adjustable fittings for 3/8" tube.
- Cast iron rotor for greater durability and longer life.
- Relief valve setting: 70 Bar - 1,000 PSI.

Order No.	Mfg. No.	Displacement/Revolution	List Price	
2007220	(UP25FM)	25 cc - 1.5 cu. in.	\$701.99	FO-9319400
8033355	(UP28FM)	28 cc - 1.7 cu. in.	\$764.69	FO-8253500
8033365	(UP33FM)	33 cc - 2.0 cu. in.	\$790.19	FO-3135500
930479	(UP39FM)	39 cc - 2.4 cu. in.	\$811.29	FO-0976500

Uflex High Performance Front Mount Helm



- Built-in lock valve for positive rudder lock.
- Integral relief valve for over-pressure protection.
- 3/4" tapered stainless steel shaft.
- Ball bearing piston race.
- Easy accessible lock valve and shaft seal for replacement.
- Includes 90° adjustable fittings for 3/8" tube.
- Cast iron rotor for greater durability and longer life.
- Displacement/revolution: 25 cc - 1.5 cu.in.
- Relief valve setting: 105 Bar - 1,500 PSI.

Order No. Mfg. No. / Description
2007222 (UP25F-SVS)

List Price
\$704.69 FO-8239400

Uflex Tilt Mount Helms



- Built-in lock valve for positive rudder lock.
- Integrated relief valve for over-pressure protection.
- Stainless steel shaft.
- Ball bearing piston race.
- Easy accessible lock valve and shaft seal for replacement.
- Cast iron rotor for greater durability and longer life.
- Includes 90° adjustable fittings for 3/8" hose.
- Tilt mechanism: X52 - tilt range of 48° and five locking positions.
- Relief valve setting: 70 Bar - 1,000 PSI.

Order No.	Mfg. No.	Displacement/Revolution	List Price	
8033360	(UP28T-X52)	28 cc - 1.7 cu. in.	\$1,046.99	FO-9823700
8033370	(UP33T-X52)	33 cc - 2.0 cu.in	\$976.89	FO-2838600

Uflex High Performance Tilt Mount Helms



- Built-in lock valve for positive rudder lock.
- Integral relief valve for over-pressure protection.
- Stainless steel shaft.
- Ball bearing piston race.
- Easily accessible lock valve and shaft seal for replacement.
- Cast iron rotor for greater durability and longer life.
- Includes 90° adjustable fittings for 3/8" hose.
- Tilt mechanism for SilverSteer systems: X70-SVS - tilt range of 48° and five locking positions.
- Relief valve setting: 105 Bar - 1,500 PSI.

Order No.	Mfg. No.	Displacement/Revolution	List Price	
930582	(UP25T-SVS-X70)	25 cc - 1.5 cu. in.	\$1,140.39	FO-7289700
930594	(UP33T-SVS-X70)	28 cc - 2.0 cu.in	\$1,140.39	FO-7289700

Uflex Tilt Mechanism

TUFLEX



- Tilt range of 48° and five locking positions.
- Tilt mechanism for mechanical, hydraulic and electronic steering systems.

Order No. Mfg. No. / Description

8040185 (X52)

List Price

\$205.09 FO-6534100

Uflex Front Mount Outboard Cylinder

TUFLEX



- Balanced: The number of wheel turns lock-to-lock is equal port to starboard and vice-versa.
- Front mount cylinder for outboard engines up to 115 HP.
- Replaceable cylinder end caps.
- Fittings for high pressure flex hose: 3/8".
- Inside diameter: 1.08", stroke: 7.3".

Order No. Mfg. No. / Description

931003 (UC81-0BF)

List Price

\$600.99 FO-9602400

Uflex Side Mount Cylinder

TUFLEX



- Unbalanced: the wheel number of turns lock-to-lock is not equal port to starboard and vice-versa.
- Features a turning nut for a fast and easy installation to the engine tube (PATENTED).
- Clearance required at the engine tube side: 14.76".
- Not recommended for use in installations where the boat speed exceeds 55 mph (48 knots) or 60 mph (52 knots) for dual cylinder/dual engines installations.
- Not intended for use in racing applications.
- Fittings for high pressure flex hose: 3/8".
- Inside diameter: 1.25", stroke: 8".

Order No. Mfg. No. / Description

8033335 (UC132-0BS)

List Price

\$544.59 FO-1218300

Uflex Inboard Cylinders

- Aluminum.
- All balanced cylinders: The number of turns lock-to-lock is equal port to starboard and vice-versa.
- Fittings for high pressure flex hose: 3/8".

Order No. Mfg. No. / Description

8033100 (UC116-I) Inside Diameter: 1.25", Stroke: 7"

List Price

\$564.69 FO-8259300

8033340 (UC168-I) Inside Diameter: 1.57", Stroke: 7"

\$705.99 FO-9149400

8033345 (UC215-I) Inside Diameter: 1.57", Stroke: 9"

\$681.79 FO-5277400

Uflex Remote Fill Adapter

TUFLEX



- Remote fill adapter for rear mount and tilt mount pumps.

Order No. Mfg. No. / Description

8030025 (KIT F)

List Price

\$60.49 FO-4324000

Uflex Front Mount Outboard Cylinder

TUFLEX



- Balanced: The number of wheel turns lock-to-lock is equal port to starboard or vice-versa.
- Adjustable boss style fittings for easy installation.
- High resistance stainless steel connection bolt (ULTRABOLT).
- Replaceable cylinder end caps.
- Split and pinned cylinder mounting rod for easy installation and bushings to prevent friction with engine tilt tube.
- Recommended for use with outboard engines 175 HP total and where the boat speed does not exceed 55 mph (48 knots).
- Not intended for use in racing applications.
- Fittings for high pressure flex hose: 3/8".
- Inside diameter: 1.18", stroke: 7.3".

Order No. Mfg. No. / Description

8033350 (UC950BF-1)

List Price

\$601.09 FO-6702400

931050 (UC950BF-2)

\$662.69 FO-8836400

931065 (UC950BF-3)

\$602.59 FO-1812400

ACCESSORIES

Order No. Mfg. No. / Description

2007193 (UC95 END CAP KIT) End Cap Kit

List Price

\$221.79 FO-5255100

932704 (UC95 HRDW PACK) Mounting Kit

\$115.59 FO-1908000

NEW MODEL

TUFLEX



8033100

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Uflex Front Mount Outboard Cylinders

U/FLEX



- Balanced: The number of wheel turns lock-to-lock is equal port to starboard or vice-versa.
- Adjustable boss style fittings for easy installation.
- High resistance stainless steel connection bolt (ULTRABOLT).
- Replaceable cylinder end caps.
- Heavy duty stainless steel cylinder rod, seals and link assemblies, is simple to install and fits almost every 2 and 4 stroke outboard engine on the market.
- Fittings for high pressure flex hose: 3/8".
- Inside diameter: 1.37", stroke: 7.28".
- Recommended for use with UP25, UP28, UP33 and UP39 series helms and preassembled hoses (Kit OB and Kit OB/R5).

Order No.	Mfg. No. / Description	List Price	
2007190	(UC128TS-1) Starboard Side Link Arm	\$829.99	FO-9908500
8033305	(UC128TS-2) Starboard Side Link Arm	\$829.99	FO-9908500
8033300	(UC128TS-1P) Port Side Link Arm	\$829.99	FO-9908500
8033310	(UC128TS-2P) Port Side Link Arm	\$829.99	FO-9908500

ACCESSORIES

Order No.	Mfg. No. / Description	List Price	
2007195	End Cap - Sold Each	\$45.39	FO-7713000
2007192	End Cap Kit	\$236.39	FO-7456100
932613	(73115F) Tilt Tube Rod - Stainless Steel	\$49.89	FO-2943000
932625	(40735C) Spacer Kit	\$27.09	FO-6981000
932637	(40822X) Tiller Arm Connecting Kit (Ultrabolt)	\$49.59	FO-1743000
932649	Bull Horn Mounting Bracket	\$45.39	FO-7713000
932702	Mounting Kit	\$49.89	FO-2943000

Uflex UC128-OBF Front Mount Cylinder Application

Engine	Model	Year	Cylinder	Part Number	Packaged
MERCURY/MARINER	115-125-150 EFI 2 Stroke	1990-07	UC128TS-1	43231 N	PROTECH 1
	225-250 EFI 2 Stroke	2000-07	UC128TS-1	43231 N	PROTECH 1
	75-90-115 Optimax	2004-18	UC128TS-3	43233 T	PROTECH 3
	135-150-175-200-225-250 Optimax	1999-18	UC128TS-1	43231 N	PROTECH 1
	Racing 300 Optimax	1999-11	UC128TS-1	43231 N	PROTECH 1
	100-115 EFI 4 Stroke	2007 to Date	UC128TS-1	43231 N	PROTECH 1
	250 Saltwater EFI 4 Stroke	2007-11	UC128TS-1	43231 N	PROTECH 1
	135-150-175-200 Verado L4	2004-12	UC128TS-1	43231 N	PROTECH 1
	PRO XS 175-200 V6, 225-300 V8 4 Stroke	2018 to Date	UC128TS-1	43231 N	PROTECH 1
	EVINRUDE	E75-E90 2 Stroke	2004 to Date	UC128TS-2	43232 R
E115-E130-E135 V4 2 Stroke		1995-20	UC128TS-2	43232 R	PROTECH 2
E150-E175-E200-E225-E250-E300 V6 2 Stroke		1995-20	UC128TS-2	43232 R	PROTECH 2
YAMAHA	115C-130B 2 Stroke	1990-08	UC128TS-2	43232 R	PROTECH 2
	75C-90 2 Stroke	1998-08	UC128TS-2	43232 R	PROTECH 2
	F70 4 Stroke	2010 to Date	UC128TS-1P	43234 V	-
	150F-200F-250G 2 Stroke	1990-08	UC128TS-2	43232 R	PROTECH 2
	150 HPDI Vmax 2 Stroke	1996-07	UC128TS-2	43232 R	PROTECH 2
	175-200-225-250-300 HPDI Vmax 2 Stroke	2000-08	UC128TS-2	43232 R	PROTECH 2
	F115-F150 EFI 4 Stroke	2000-08	UC128TS-2	43232 R	PROTECH 2
	F200-F225-F250 4 Stroke	1999-07	UC128TS-2	43232 R	PROTECH 2
HONDA	F115-F130-F150D-F150F-F175A-F200F-F200G L4	2002 to Date	UC128TS-1	43231 N	PROTECH 1
	F200-F225-F250-F300 V6 4 Stroke	2004 to Date	UC128TS-2	43232 R	PROTECH 2
	BF75-BF90 4 Stroke	1995 to Date	UC128TS-1	43231 N	PROTECH 1
	BF115-BF130 4 Stroke	1998 to Date	UC128TS-3	43233 T	PROTECH 3
	BF135-BF150 4 Stroke	2005 to Date	UC128TS-1	43231 N	PROTECH 1
SUZUKI	BF150 V-Tec 4 Stroke	2008 to Date	UC128TS-1	43231 N	PROTECH 1
	BF175-BF200-BF225-BF250 4 Stroke	2001 to Date	UC128TS-1	43231 N	PROTECH 1
	DF70-80-90 4 Stroke	1998 to Date	UC128TS-2	43232 R	PROTECH 2
	DF100-115-140 4 Stroke	2008 to Date	UC128TS-1	43231 N	PROTECH 1
TOHATSU	DF150-175-DF200 L4 4 Stroke	2006 to Date	UC128TS-1	43231 N	PROTECH 1
	DF200-DF225-DF250-DF300 V6 4 Stroke	2004 to Date	UC128TS-2	43232 R	PROTECH 2
	115-120-140 2 Stroke	2004 to Date	UC128TS-2	43232 R	PROTECH 2
	70-90-115 TLDI 4 Stroke	2004 to Date	UC128TS-1	43231 N	PROTECH 1
SELVA	MFS 50-60-75-90-100-115 4 Stroke	2018 to Date	UC128TS-1	43231 N	PROTECH 1
	BFT 115-150-200-225-250 4 Stroke	2014 to Date	UC128TS-1	43231 N	PROTECH 1
	BFT 60-75-80-90-100 4 Stroke	2015 to Date	UC128TS-1	43231 N	PROTECH 1
	80 Portofino/Tigershark 2 Stroke	1995-08	UC128TS-1	43231 N	PROTECH 1
JOHNSON	150 White Shark 2 Stroke	2001-07	UC128TS-2	43232 R	PROTECH 2
	100 EFI Marlin-115 EFI Narwhal	2000 to Date	UC128TS-2	43232 R	PROTECH 2
	225 Beaked Whale 4 Stroke	2019 to Date	UC128TS-2	43232 R	PROTECH 2
	100-150 EFI Killer Whale 4 Stroke, 200 SEI Whale 4 Stroke	2000 to Date	UC128TS-1	43231 N	PROTECH 1
	BJ90-115-140 4 Stroke	2001-07	UC128TS-1	43231 N	PROTECH 1
J90-115 V4 2 Stroke, J150-175 V6 2 Stroke	1995-07	UC128TS-2	43232 R	PROTECH 2	
J200-225 V6 4 Stroke	2004-07	UC128TS-2	43232 R	PROTECH 2	

Recommended for:

Single Engine/Single Cylinder
Up to 300 HPDual Engine/Single Cylinder
Up to 300 HP
(non counter rotating engines)Dual Engine/Single Cylinder
Up to 500 HP
(counter rotating engines)Dual Engine/Dual Cylinder
Up to 500 HP
(non counter rotating engines)Dual Engine/Dual Cylinder
Up to 600 HP
(counter rotating engines)

Electronics

Trolling
Motors

Instruments

Electrical

Lighting

Anchor
& Dock

Safety

Steering,
Controls

Pumps

Fuel
SystemSeating &
Pedestals

Trailing

Tops &
Covers

Perform.

Propellers

Engine &
CareCleaning &
CarePaint &
Paint Acc.Fun &
FlotationTopside
Acc.Cockpit
& DeckHardware,
Fasteners

Camouflage

Misc.

Comm.

Uflex High Performance Front Mount Outboard Cylinders

- Balanced: The number of wheel turns lock-to-lock is equal port to starboard or vice-versa.
- Adjustable boss style fittings for easy installation.
- High resistance stainless steel connection bolt (ULTRABOLT).
- Replaceable cylinder end caps.
- Specially designed for high performance, high torque applications, the SilverSteer™ UC128 SVS cylinder is recommended for bass boats, flat boats and tournament fishing boats.
- Fittings for high pressure flex hose: 3/8".
- Inside diameter: 1.37", stroke: 7.28".
- Recommended for use with UP25, UP28, UP33 and UP39 series helms and preassembled hoses (Kit OB and Kit OB/R5).



Order No.	Mfg. No. / Description	List Price
8033315	(UC128-SVS 1) Starboard Side Link Arm	\$1,010.39 F0-7270700
8033325	(UC128-SVS 2) Starboard Side Link Arm	\$1,010.39 F0-7270700
8033320	(UC128-SVS 1P) Port Side Link Arm	\$1,010.39 F0-7270700
8033330	(UC128-SVS 2P) Port Side Link Arm	\$1,010.39 F0-7270700

ACCESSORIES

Order No.	Mfg. No. / Description	List Price
932651	(BULLHORN-SVS) Bull Horn Mounting Bracket	\$45.39 F0-7713000
3711410	(40735C) Spacer Kit	\$29.89 F0-2902000

Recommended for:

Single Engine/Single Cylinder	Up to 350 HP
Dual Engine/Single Cylinder	Up to 350 HP (non counter rotating engines)
Dual Engine/Single Cylinder	Up to 600 HP (counter rotating engines)
Dual Engine/Dual Cylinder	Up to 600 HP (non counter rotating engines)
Dual Engine/Dual Cylinder	Up to 700 HP (counter rotating engines)

Uflex UC128-SVS Front Mount Cylinder Application

Engine	Model	Year	Cylinder	Part Number	Packaged
MERCURY/MARINER	115-125-150 EFI 2 Stroke	1990-07	UC128SVS-1	41281 U	SilverSteer 1
	225-250 EFI 2 Stroke	2000-07	UC128SVS-1	41281 U	SilverSteer 1
	135-150-175-200-225-250 Optimax	1999-18	UC128SVS-1	41281 U	SilverSteer 1
	Racing 300 Optimax	1999-11	UC128SVS-1	41281 U	SilverSteer 1
	250 Saltwater EFI 4 Stroke	2007-11	UC128SVS-1	41281 U	SilverSteer 1
	135-150-175-200 Verado L4	2004-12	UC128SVS-1	41281 U	SilverSteer 1
	PRO XS 175-200 V6, 225-300 V8 4 Stroke	2018 to Date	UC128SVS-1	41281 U	SilverSteer 1
EVINRUDE	E115-E130-E135 V4 2 Stroke	1995 to Date	UC128SVS-2	41282 W	SilverSteer 2
	E150-E175-E200-E225-E250-E300 V6 2 Stroke	1995 to Date	UC128SVS-2	41282 W	SilverSteer 2
YAMAHA	115C-130B 2 Stroke	1990-08	UC128SVS-2	41282 W	SilverSteer 2
	150F-200F-250G 2 Stroke	1990-08	UC128SVS-2	41282 W	SilverSteer 2
	150 HPDI Vmax 2 Stroke	1996-07	UC128SVS-2	41282 W	SilverSteer 2
	175-200-225-250-300 HPDI Vmax 2 Stroke	2000-08	UC128SVS-2	41282 W	SilverSteer 2
	F115-F150 EFI 4 Stroke	2000-08	UC128SVS-1	41281 U	SilverSteer 1
	F200-F225-F250 4 Stroke	1999-07	UC128SVS-2	41282 W	SilverSteer 2
	F115-F150-F175-F200 L4	2002 to Date	UC128SVS-1	41281 U	SilverSteer 1
	F200-F225-F250-F300 V6 4 Stroke	2004 to Date	UC128SVS-2	41282 W	SilverSteer 2
F350 V8 4 Stroke	2006 to Date	UC128SVS-1	41281 U	SilverSteer 1	
HONDA	BF135-BF150 4 Stroke	2005 to Date	UC128SVS-1	41281 U	SilverSteer 1
	BF150 V-Tec 4 Stroke	2008 to Date	UC128SVS-1	41281 U	SilverSteer 1
	BF175-BF200-BF225-BF250 4 Stroke	2001 to Date	UC128SVS-1	41281 U	SilverSteer 1
SUZUKI	DF100-115-140 4 Stroke	2008 to Date	UC128SVS-1	41281 U	SilverSteer 1
	DF150-175-DF200 L4 4 Stroke	2006 to Date	UC128SVS-1	41281 U	SilverSteer 1
	DF200-DF225-DF250-DF300-DF350 V6 4 Stroke	2004 to Date	UC128SVS-2	41282 W	SilverSteer 2
TOHATSU	115-120-140 2 Stroke	2004 to Date	UC128SVS-2	41282 W	SilverSteer 2
	70-90-115 TLDI 4 Stroke	2004 to Date	UC128SVS-1	41281 U	SilverSteer 1
	MFS 50-60-75-90-100-115 4 Stroke	2018 to Date	UC128SVS-1	41281 U	SilverSteer 1
	BFT 115-150-200-225-250 4 Stroke	2014 to Date	UC128SVS-1	41281 U	SilverSteer 1
	BFT 60-75-80-90-100 4 Stroke	2015 to Date	UC128SVS-1	41281 U	SilverSteer 1
SELVA	80 Portofino/Tigershark 2 Stroke	1995-08	UC128SVS-1	41281 U	SilverSteer 1
	150 White Shark 2 Stroke	2001-07	UC128SVS-2	41282 W	SilverSteer 2
	100 EFI Marlin-115 EFI Narwhal	2000 to Date	UC128SVS-1	41281 U	SilverSteer 1
	225 Beaked Whale 4 Stroke	2019 to Date	UC128SVS-2	41282 W	SilverSteer 2
	100-150 EFI Killer Whale 4 Stroke, 200 SEI Whale 4 Stroke	2000 to Date	UC128SVS-1	41281 U	SilverSteer 1
JOHNSON	BJ90-115-140 4 Stroke	2001-07	UC128SVS-1	41281 U	SilverSteer 1
	J90-115 V4 2 Stroke, J150-175 V6 2 Stroke	1995-07	UC128SVS-2	41282 W	SilverSteer 2
	J200-225 V6 4 Stroke	2004-07	UC128SVS-2	41282 W	SilverSteer 2

• **WARNING:** These recommendations should be used as a general reference only. Final selection should be made with the assistance of a qualified installation technician.

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Uflex High Performance Front Mount Outboard Cylinders

UFLEX



931306



931318

- Balanced: The number of wheel turns lock-to-lock is equal port to starboard or vice-versa.
- Side fittings for easy installation.
- High resistance stainless steel connection bolt (ULTRABOLT).
- Replaceable cylinder end caps.
- Recommended for high horsepower applications, bass boats and tournament fishing boats.
- Heavy duty stainless steel cylinder rod, seals and link assemblies, is simple to install and fits almost every 2 and 4 stroke outboard engine in the market.
- Fittings for high pressure flex hose: 3/8".
- Inside diameter: 1.42", stroke: 7.28".

Recommended for:

Single Engine/Single Cylinder	Up to 350 HP
Dual Engine/Single Cylinder	Up to 350 HP (non counter rotating engines)
Dual Engine/Single Cylinder	Up to 600 HP (counter rotating engines)
Dual Engine/Dual Cylinder	Up to 600 HP (non counter rotating engines)
Dual Engine/Dual Cylinder	Up to 700 HP (counter rotating engines)

Order No.	Mfg. No. / Description	List Price	
931306	(UC130-SVS 1) Starboard Side Link Arm	\$1,035.09	FO-6542700
931318	(UC130-SVS 2) Starboard Side Link Arm	\$1,035.09	FO-6542700
931332	(UC130P-SVS 1) Port Side Link Arm	\$1,035.09	FO-6542700
931344	(UC130P-SVS 2) Port Side Link Arm	\$1,035.09	FO-6542700

Uflex UC130-SVS Front Mount Cylinder Application

Engine	Model	Year	Cylinder	Part Number	Packaged
MERCURY/MARINER	115-125-150 EFI 2 Stroke	1990-07	UC130-SVS-1	43225 U	SilverSteer 1
	225-250 EFI 2 Stroke	2000-07	UC130-SVS-1	43225 U	SilverSteer 1
	135-150-175 Optimax	1999-18	UC130-SVS-1	43225 U	SilverSteer 1
	200-225-250 Optimax	1999-18	UC130-SVS-1	43225 U	SilverSteer 1
	Racing 300 Optimax	1999-11	UC130-SVS-1	43225 U	SilverSteer 1
	250 Saltwater EFI 4 Stroke	2007-11	UC130-SVS-1	43225 U	SilverSteer 1
	135-150-175-200 Verado L4	2004-12	UC130-SVS-1	43225 U	SilverSteer 1
	FOURSTROKE 175-200 V6	2018 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	FOURSTROKE 225-300 V8	2018 to Date	UC130-SVS-1	43225 U	SilverSteer 1
EVINRUDE	E115-E130-E135 V4 2 Stroke	1995 to Date	UC130-SVS-2	43226 W	SilverSteer 2
	E150-E175-E200-E225-E250-E300 V6 2 Stroke	1995 to Date	UC130-SVS-2	43226 W	SilverSteer 2
YAMAHA	115C-130B 2 Stroke	1990-08	UC130-SVS-2	43226 W	SilverSteer 2
	150F-200F-250G 2 Stroke	1990-08	UC130-SVS-2	43226 W	SilverSteer 2
	150 HPDI Vmax 2 Stroke	1996-07	UC130-SVS-2	43226 W	SilverSteer 2
	175-200-225-250-300 HPDI Vmax 2 Stroke	2000-08	UC130-SVS-2	43226 W	SilverSteer 2
	F115-F150 EFI 4 Stroke	2000-08	UC130-SVS-1	43225 U	SilverSteer 1
	F200-F225-F250 4 Stroke	1999-07	UC130-SVS-2	43226 W	SilverSteer 2
	F115-F150-F175-F200 L4	2002 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	F200-F225-F250-F300 V6 4 Stroke	2004 to Date	UC130-SVS-2	43226 W	SilverSteer 2
F350 V8 4 Stroke	2006 to Date	UC130-SVS-1	43225 U	SilverSteer 1	
HONDA	BF135-BF150 4 Stroke	2005 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	BF150 V-Tec 4 Stroke	2008 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	BF175-BF200-BF225-BF250 4 Stroke	2001 to Date	UC130-SVS-1	43225 U	SilverSteer 1
SUZUKI	DF100-115-140 4 Stroke	2008 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	DF150-175-200 L4 4 Stroke	2006 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	DF200-DF225-DF250-DF300-DF350 V6 4 Stroke	2004 to Date	UC130-SVS-2	43226 W	SilverSteer 2
TOHATSU	115-120-140 2 Stroke	2004 to Date	UC130-SVS-2	43226 W	SilverSteer 2
	70-90-115 TLDI 4 Stroke	2004 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	MFS 50-60-75-90-100-115 4 Stroke	2018 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	BFT 115-150-200-225-250 4 Stroke	2014 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	BFT 60-75-80-90-100 4 Stroke	2015 to Date	UC130-SVS-1	43225 U	SilverSteer 1
SELVA	80 Portofino/Tigershark 2 Stroke	1995-08	UC130-SVS-1	43225 U	SilverSteer 1
	150 White Shark 2 Stroke	2001-07	UC130-SVS-2	43226 W	SilverSteer 2
	100 EFI Marlin/115 EFI Narwhal	2000 to Date	UC130-SVS-1	43225 U	SilverSteer 1
	225 Beaked Whale 4 Stroke	2019 to Date	UC130-SVS-2	43226 W	SilverSteer 2
	150 EFI Killer Whale 4 Stroke - 200 SEI Whale 4 Stroke	2000 to Date	UC130-SVS-1	43225 U	SilverSteer 1
JOHNSON	BJ90-115-140 4 Stroke	2001-07	UC130-SVS-1	43225 U	SilverSteer 1
	J90-115 V4 2 Stroke	1995-07	UC130-SVS-2	43226 W	SilverSteer 2
	J150-175 V6 2 Stroke	1995-07	UC130-SVS-2	43226 W	SilverSteer 2
	J200-225 V6 4 Stroke	2004-07	UC130-SVS-2	43226 W	SilverSteer 2

Electronics

Trolling Motors

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Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

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Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Uflex Masterdrive™ Power Assisted Outboard Steering System

Uflex Masterdrive™ Power Unit



- 90° swiveling fittings for easy installation.
- Semitransparent 0.11 gallon tank gives immediate oil level vision.
- Vented filler plug.
- Suitable for applications with autopilot.
- Bulkhead or floor mount.
- Black galvanized motor case, salt water resistant.
- 15' wiring harness included.
- IP67 waterproof.
- Ignition protected (SAE J-1171 and UNI EN 28846).
- 12 volt.

Order No.	Mfg. No. / Description	List Price	
930746	(UPMD)	\$2,414.99	F0-940610

Uflex Masterdrive™ Main Helms



X66 Tilt Mechanism

- Front Mount and Tilt Mount Helm versions.
- Built-in relief valve.
- 3/4" tapered shaft.
- Corrosion resistant painted body.
- Waterproof.

FRONT MOUNT HELM

Order No.	Mfg. No.	Displacement/Revolution		List Price	
930657	(UH32-F)	32 cc - 1.95 cu. in.	Single Cylinder	\$993.09	F0-6159600
930669	(UH40-F)	40 cc - 2.44 cu. in.	Dual Cylinder	\$993.19	F0-3259600

TILT MOUNT HELM (DOES NOT INCLUDE X66 TILT)

- This only the helm pump, you will need the X66 tilt mechanism additionally.

Order No.	Mfg. No.	Displacement/Revolution		List Price	
930695	(UH40-T)	40 cc - 2.44 cu. in.	Dual Cylinder	\$993.19	F0-3259600

TILT MOUNT HELM WITH X66 TILT

Order No.	Mfg. No.	Displacement/Revolution		List Price	
930683	(UH32-T-X66)	32 cc - 1.95 cu. in.	Single Cylinder	\$1,028.19	F0-3791700

Uflex Masterdrive™ Tilt Mechanism



- Tilt mechanism for MasterDrive tilt mount helms.
- Tilt range of 48° and five locking positions.

Order No.	Mfg. No. / Description	List Price	
930734	(X66)	\$212.59	F0-1884100

Uflex MasterDrive Power Steering



- Eliminates torque at the steering wheel.
- Three different selectable levels of power give the boater the desired feeling on the wheel.
- Automatically reverts to manual mode in case of power loss.
- The system always running permits immediate control in any sea conditions
- Equipped with safety switch ON/OFF (SMART BUTTON)
- Can be used on dual station installations
- Suitable for use with autopilot
- 12 volt.
- Ignition protected.
- System Components (1 single packaged KIT MD for single station containing):
 - (1) UH Front or tilt mount Master Helm
 - (1) UPMD Power Unit, 15' wiring harness included
 - (1) UCMD User Interface
 - (4) OL 150 bottles of hydraulic oil

Order No.	Mfg. No. / Description	List Price	
930658	(MD32FM)	\$3,930.99	F0-9615720

NEW PRODUCT

Uflex UCMD - User Interface



- Safety switch ON/OFF.
- Three different power levels with light indicator.
- Motor temperature visual indicator.
- Twin engine key selection included.
- Lighted panel for stand-by position.
- Plug-in wiring harness.
- Suitable for a second station installation.

Order No.	Mfg. No. / Description	List Price	
930772	(UCMD)	\$271.89	F0-2309100

NEW PRODUCT

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailer

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

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Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Uflex Hydraulic Hose Kits



- Two high pressure flexible hoses with pre-crimped brass fittings and bend restrictors on one end.
- Recommended for use with all Ultraflex standard helms with 1,000 psi relief valves.
- Sold per pair.

Order No.	Mfg. No. / Description	List Price	
8033375	(KITOBBDR-02) Length 2'	\$158.49	F0-4901100
8033380	(KITOBBDR-03) Length 3'	\$158.49	F0-4901100
8033385	(KITOBBDR-04) Length 4'	\$158.49	F0-4901100
8033390	(KITOB-06) Length 6'	\$155.19	F0-3680100
8033395	(KITOB-08) Length 8'	\$158.49	F0-4901100
8033400	(KITOB-10) Length 10'	\$158.49	F0-4901100
8033405	(KITOB-12) Length 12'	\$158.49	F0-4901100
8033410	(KITOB-14) Length 14'	\$158.49	F0-4901100
8033415	(KITOB-16) Length 16'	\$158.49	F0-4901100
8033420	(KITOB-18) Length 18'	\$158.49	F0-4901100
8033425	(KITOB-20) Length 20'	\$162.89	F0-2041100
8033430	(KITOB-22) Length 22'	\$226.09	F0-6285100
8033435	(KITOB-24) Length 24'	\$245.29	F0-0717100
8033440	(KITOB-26) Length 26'	\$265.29	F0-0758100
8033445	(KITOB-30) Length 30'	\$322.89	F0-2062200

Uflex Nylon Tubing



- 3/8" nylon tubing.
- It is not recommended in the applications where the total tubing run exceeds 50'.
- Not recommended for use with UC128-0BF and UC130-SVS cylinders.

Order No.	Mfg. No. / Description	List Price	
931508	(TU 95) Length 40'	\$7.23	F0-6050000
931510	(TU 95-50) Length 50'	\$7.23	F0-6769100

Uflex A90 Tie Bar



- Suitable for applications with dual UC128-0BF front mount cylinder.
- All stainless steel components.
- Electropolished stainless steel ball joints.
- Allows to tilt the engines independently.
- Applicable to engine centers variable from 26" to 37.4".

LIMITED QUANTITIES

Order No.	Mfg. No. / Description	List Price	
2006638	(A90X26) 26" Engine Center	\$601.59	F0-1112400

Uflex A96 Tie Bars



- Suitable for applications with single UC128-0BF or UC130-SVS front mount cylinder.
- Allows to tilt the engines independently.
- Stainless steel components.
- Electropolished stainless steel ball joints.

NEW MODELS

Uflex Bulkhead Hydraulic Hose Kits



- Two high pressure flexible hoses with pre-crimped brass fittings, R5 bulkhead fittings and bend restrictors on both ends.
- Recommended for use with all Uflex standard helms with 1,000 psi relief valves.
- Sold per pair.

NEW MODELS

Order No.	Mfg. No. / Description	List Price	
804440	(KITOBBHBR-12) Length 12'	\$228.79	F0-5106100
804441	(KITOBBHBR-14) Length 14'	\$228.79	F0-5106100
804444	(KITOBBHBR-16) Length 16'	\$207.99	F0-9554100
804446	(KITOBBHBR-18) Length 18'	\$207.99	F0-9554100
804448	(KITOBBHBR-20) Length 20'	\$207.99	F0-9554100
804450	(KITOBBHBR-22) Length 22'	\$322.89	F0-2062200
804452	(KITOBBHBR-24) Length 24'	\$342.09	F0-6493200

Uflex High Performance Hose Kits



- Two high pressure Kevlar standard flexible hoses with pre-crimped fittings and bend restrictors on both ends.
- Recommended for use with all Uflex SilverSteer and MasterDrive helms with 1,500 psi relief valves.
- Sold per pair.

Order No.	Mfg. No. / Description	List Price	
8031000	(KITOBSVS-12) Length 12'	\$268.49	F0-4978100
8031005	(KITOBSVS-14) Length 14'	\$243.89	F0-2707100
8031010	(KITOBSVS-16) Length 16'	\$243.89	F0-2707100
8031015	(KITOBSVS-18) Length 18'	\$243.89	F0-2707100
8031020	(KITOBSVS-20) Length 20'	\$243.89	F0-2707100
931905	(KITOBSVS-24') Length 24'	\$385.79	F0-5007200
931926	(KITOBSVS-30') Length 30'	\$506.59	F0-1645300

Uflex A94 Tie Bar



- Single cylinder/twin engine.
- Suitable for applications with single UC128 front mount cylinder.
- Allows to tilt the engines independently.
- Stainless steel components.
- Electropolished stainless steel ball joints.
- Not recommended for applications exceeding 500 HP.
- Cut to length.

Order No.	Mfg. No. / Description	List Price	
2006640	(A94)	\$569.19	F0-3489300

FROM 26" TO 29" CENTER ENGINES DISTANCE

Order No.	Mfg. No. / Description	List Price	
932055	(A96 M/Y-29) Fits Mercury and Yamaha Engines	\$1,033.79	F0-5632700
932079	(A96 S/H-29) Fits Suzuki and Honda Engines	\$1,163.69	F0-8541800

FROM 29" TO 34-1/2" CENTER ENGINES DISTANCE

Order No.	Mfg. No. / Description	List Price	
932081	(A96 M/Y-34.5) Fits Mercury and Yamaha Engines	\$1,143.39	F0-7300800
932083	(A96 S/H-34.5) Fits Suzuki and Honda Engines	\$1,286.39	F0-7400900

Uflex A95 Dual Cylinder Tie Bars

TIFLEX



- Suitable for applications with dual UC128-0BF or UC130-SVS front mount cylinder with the exception of the dual UC128-0BF cylinder with Suzuki DF100-115-140 4S engines. For these applications A90 - 40138H tie bar is used.
- Allows to tilt the engines independently.
- All stainless steel components.
- Electropolished stainless steel ball joints.

**NEW
MODELS**

FROM 26" TO 32" CENTER ENGINES DISTANCE

Order No.	Mfg. No. / Description	List Price	
932093	(A95 M/Y-32) Fits Mercury and Yamaha Engines	\$1,035.09	F0-6542700
932118	(A95 S/H-32) Fits Suzuki and Honda Engines	\$1,060.09	F0-6024700

FROM 32" TO 37-1/2" CENTER ENGINES DISTANCE

Order No.	Mfg. No. / Description	List Price	
932120	(A95 M/Y-37.5) Fits Mercury and Yamaha Engines	\$1,144.89	F0-2410800
932122	(A95 S/H-37.5) Fits Suzuki and Honda Engines	\$1,172.39	F0-7602800

Uflex Hydraulic Fluid

TIFLEX



- Hydraulic oil: ISO VG 15.

Order No.	Mfg. No. / Description	List Price	
2007030	(OIL 15) 1 Liter	\$23.59	F0-1561000

Uflex Helm Kits, Parts and Fittings

TIFLEX

Order No.	Mfg. No. / Description	List Price	
932512	(40875V) Shaft Seal Kit for UP25 and UP39 Helms	\$32.99	F0-9032000
932524	(40801N) Vented Filler Plug Kit with Valve	\$13.79	F0-5690000
932536	(40800L) Non-vented Filler Plug Kit	\$13.79	F0-5690000

Uflex End Cap Kits

TIFLEX

Order No.	Mfg. No. / Description	List Price	
2007191	End Cap Kit for UC1280BF Cylinders	\$99.19	F0-3496000
2007192	End Cap Kit for UC128TS Cylinders	\$236.39	F0-7456100
2007193	End Cap Kit for UC950BF Cylinders	\$221.79	F0-5255100
2007195	End Cap (Sold Each) for UC128THS Cylinders	\$45.39	F0-7713000

**NEW
PARTS**

Uflex A97 Triple Engine Tie Bar

TIFLEX



- Suitable for applications with triple outboard engine and dual cylinder UC128-0BF or UC130-SVS.
- From 26" to 30" twin engine centers.
- Fits Mercury and Yamaha engines.
- Mercury bracket included.

Order No.	Mfg. No. / Description	List Price	
932144	(A97 MY-30)	\$2,167.79	F0-5471510

Uflex BubbleBuster™

TIFLEX



- Reduce time and simplify purging hydraulic steering system with the self contained and portable BubbleBuster purging unit.
- Attach the hoses using the quick connect fittings to the helm and cylinder and with the push of a button the BubbleBuster begins cycling oil throughout the entire systems free of air.
- Components included:
 - (1) Motor pump with safety valve, switch and 1 gallon tank included, it allows the purging of 2 hydraulic steering systems before refilling.
 - (1) 12 volt electric motor with thermal protection; current absorption 8 amp.
 - (1) 13' electric harness with alligator clips for fast connection with the battery.
 - (1) Double spiralled hose to connect to helm pump-extended length: 19.6'.
 - (1) Double spiralled hose to connect to cylinder-extended length: 19.6'.
 - (1) Utility tray.

Order No.	Mfg. No. / Description	List Price	
8020709	(BUBBLEBUSTER)	\$1,371.69	F0-8106900

**NEW
PARTS**

SPARE PARTS

Order No.	Mfg. No. / Description	List Price	
802074	(42593V) Helm Purging Fitting	\$50.69	F0-8453000
802075	(42595Z) Fittings Replacement Kit	\$319.09	F0-6332200

OPTIONAL COMPONENTS

Order No.	Mfg. No. / Description	List Price	
802076	(KBE1) 49' Double Spiralled Hose to Connect to Cyl.	\$261.69	F0-8138100
802077	(KBD2) Double Cylinder Purging Kit	\$442.09	F0-6490300

Electronics

Trolling
Motors

Instruments

Electrical

Lighting

Anchor
& Dock

Safety

Steering,
Controls

Pumps

Fuel
SystemSeating &
Pedestals

Trailer

Tops &
Covers

Perform.

Propellers

Engine &
CareCleaning
& CarePaint &
Paint Acc.Fun &
FlotationTopside
Acc.Cockpit
& DeckHardware,
Fasteners

Camouflage

Misc.

Comm.

- Electronics
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- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety

- Pumps
- Fuel System
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- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
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- Comm.

Uflex Cylinder Kits

Part Number	Image	Description	Part Number	Image	Description
UC 94 Hardware			UC 128-OBF and 128-SVS Hardware		
40878B		UC94 Space Kit	40735C		Spacer Kit
73838G		Stainless Link Arm Bushing	73838G		Stainless Link Arm Bushing
71207A		Plastic Internal Link Arm Bushing	71207A		Plastic Internal Link Arm Bushing
42838Z		UC94 Tiller Bolt Kit	40822X		Tiller Bolt Kit
40736E-UC94		UC94 Mounting Hardware	40736E		UC128-OBF Mounting Hardware
40174M		UC94 Tilt Tube Rod	40736E-SVS		UC128-SVS Mounting Hardware
			73115F		Tilt Tube Rod

Uflex Fittings Chart

Part Number	Image	Description	Typical Application	Thread
AF45 (41284A)		45° Adjustable Fitting	Fitting for the back of the UP Series Helms	ORB, Size #6 to 3/8 Comp Fitting Helm Side = 9/16 - 18 UNF 2A Hose Side = 9/16 - 24 UNEF 2A
71928P		Brass Plug with O-ring for Pumps	Compensating line brass plug of the UP Series Helms	1/4 NPT Plug Helm Side = 1/4 NPT
EF38 (39472N)		90° Helm Fitting for UP Series	Fitting for port/starboard line in UP Series Helms prior to the boss fittings	1/4 NPT to 3/8 Comp Fitting Helm Side = 1/4 NPT Hose Side = 9/16 - 24 UNEF 2A
VFNO38 (40868Y)		Complete Boss Fitting UC1280BF	Bleed fitting for all outboard cylinders	ORB, Size #6 to 3/8 Comp Fitting Cylinder Side = 9/16 - 18 UNF 2A Hose Side = 9/16 - 24 UNEF 2A
VFNO38 (39925A)		Tee Fitting with Bleed Nipple	Bleed fitting for all inboard and sterndrive cylinders	1/4 NPT to 3/8 Comp Fitting Cylinder Side = 1/4 NPT Hose Side = 9/16 - 24 UNEF 2A
61BCA (71004K)		Brass Nut with Sleeve #61CA-6	3/8" compression nut with ferrule for cut to length nylon tubing	3/8" Comp Nut Fitting Side = 9/16 - 24 UNEF 2B Hose Side = 3/8 Comp Ferrule
Union 62CA-6		Union 3/8" Compression	Used to connect 2 standard 3/8" compression hoses	3/8" Comp Fitting Both Sides = 9/16 - 24 UNEF 2A
Q22 (898366)		Tapered Helm Fitting to Merc O-ring	Fitting for the back of the Merc UP Series Helms to O-ring face seal hoses	1/4 NPT to ORFS Fitting Side = 1/4 NPT Hose Side = ORFS (O-ring Face)

Uflex 90° Adjustable Fitting



- Nickel plated brass.
- For standard pumps (except UP18), UP20 and SilverSteer pumps.
- ORB, Size #6 to 3/8 Comp Fitting. Helm Side = 9/16 - 18 UNF 2A. Hose Side = 9/16 - 24 UNEF 2A.

Order No. Mfg. No. / Description List Price
8030030 (AF90) **\$21.19** F0-3841000

Uflex T-Fitting



- 1/4 NPT to 3/8 T-Fitting.
- Fitting used in the back of the previous version of the UP Series Helms before the boss fitting.
- 1/4 NPT to 3/8 Comp Fitting. Helm Side = 1/4 NPT. Hose Side = 9/16 - 24 UNEF 2A.

Order No. Mfg. No. / Description List Price
932562 (T-FITTING) **\$20.19** F0-3141000

Uflex Bleed T



- Nickel plated.
- 3/8" bleed T for cylinder.

Order No. Mfg. No. / Description List Price
932699 (39925A) **\$35.99** F0-9152000

Uflex T-Fitting



Order No. Mfg. No. / Description List Price
8030065 (MD T-FITTING) **\$34.89** F0-7994000

Uflex Boss Style T-Fitting



- Nickel plated brass.
- Fitting for back of helm in a dual station installation.
- ORB, Size #6 to 3/8 Comp Fitting. Cyl/Helm Side = 9/16 - 18 UNF 2A. Hose Side = 9/16 - 24 UNEF 2A

Order No. Mfg. No. / Description List Price
8003040 (71955T) **\$19.89** F0-2931000

Uflex Adjustable Bleed T



- Nickel plated.
- 3/8" adjustable bleed T for cylinder.
- For all cylinders except UC81-OBF and UC94-OBF with serial number prior to 30 1156 000001.

Order No. Mfg. No. / Description List Price
8030045 (40868Y) **\$38.69** F0-8072000

Uflex Union T-Fitting for 3/8" Tube



- T-Fitting for 3 standard 3/8" compression thread hose fittings.
- 3/8" Comp Fitting. All Sides = 9/16 - 24 UNEF 2A.

Order No. Mfg. No. / Description List Price
8030055 (UNION T) **\$20.29** F0-0241000

Uflex Fitting Kit



- Fitting kit for a second steering station or for an autopilot installation.
- It includes all necessary fittings for 3/8" nylon or copper tube.

Order No. Mfg. No. / Description List Price
8030020 (KIT95-2S) **\$90.99** F0-9636000



Uflex Connection Fitting



- 3/8" connector fitting, helm and tube.

Order No. Mfg. No. / Description List Price
8030035 (SF38) **\$21.59** F0-1151000

Uflex T-Fitting Assembly



- Used to replace the boss fitting in new outboard cylinders when trying to connect to O-ring face seal hoses.
- ORB, Size #6 to 3/8 Comp Fitting. Cylinder Side = 9/16 - 18 UNF 2A. Hose Side = 9/16 - 24 UNEF 2A.

Order No. Mfg. No. / Description List Price
8030050 (71861H) **\$71.39** F0-7994000

Uflex 90° Compression Fitting



- 90° fitting from bulkhead fitting to 3/8" compression hose.
- 3/8" Comp Fitting. Fitting Side = 9/16 - 24 UNEF 2B. Hose Side = 9/16 - 24 UNEF 2A.

Order No. Mfg. No. / Description List Price
8030060 (MD38NICOMFT) **\$30.79** F0-5512000

Uflex Fittings Chart

Part Number	Image	Description	Typical Application
UPS 11/16 Elbow		Powertech 11/16, 90° Elbow	90° fitting for the pressure and tank line on a Powertech Helm
UPS 90° Elbow		Powertec 90° Elbow	90° fitting for the two high pressure outlets on a Powertech Helm/also used for connection from a bulkhead
UPS Bulkhead T-Fitting		Powertech Bulkhead T-Fitting	T-Fitting used on blkhd fit or helm high pressure lines on Powertech Helm
UPS T-Fitting		Powertech T-Fitting	3-way ORF fitting for Mercury style ORF hoses

Part Number	Image	Description	Typical Application
UPS Union		Powertech Union for KITPS/PSDS	11/16" union to extend a KITPS/ KITPSDS hose
UPS Union OB		Powertech Union for KITOBPS	ORF to ORF union for connection of high pressure ORF style hoses
UPS 4-4 FLO-SS		Powertech Male Connector	Used when connecting an autopilot to Powertech System - autopilot to ORF hose

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
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- Safety
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- Hardware, Fasteners
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- Misc.
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- STEERING SYSTEMS
- MANUAL STEERING
- HYDRAULIC POWERPAKS
- ENGINE ALARM SYSTEMS
- CUSTOM DESIGNS
- FIELD SERVICE
- ENGINE CONTROL SYSTEMS
- CONVERSIONS - RETROFITS

Custom Commercial Hydraulic Steering

DESIGN • ENGINEERED • INSTALLATION • MAINTENANCE

Skipper has long been a major supplier of quality electro-hydraulic steering systems.

It its entirety, a complete steering system is made up of:

- **Hydraulic Power Unit (HPU):** Consists of electric motor driven pumping units, a divided reservoir with tank accessories, directional control valves, system motion control relief and check valves, gauges and suction and return line filtration.
- **Controls:** Follow up controls, non follow up controls, rudder angle indicator systems. All easily adaptable to the style of any type vessel.
- **Electrical:** Wheel house logic control panel, integrated alarms, engine room and engineers station ancillary equipment, magnetic starters and system junction boxes.
- **Cylinders:** Hydraulic cylinders and all mounting and installation accessories.
- **Installation Items:** Hoses and adapters, isolation ball valves, dual crossport relief valves.
- **Technical Instruction:** Piping schematic, electrical wiring one-line diagram, recommended cylinder/tiller arm arrangement.

Here in this brochure, in addition to assimilating the information required for your system, we have tried to pinpoint the individual components involved in steering systems, to appeal to and assist our customers in the repair and maintenance of their existing systems.

Skipper Triplex Superredundant Two Speed Steering System

Specially designed for the M/V Big J.O., Skipper incorporated the performance features large riverboats require.

Superredundant Controls • Two Speed • Dual Counterbalance Unloading

Smooth Rudder Response - Try two speeds for slower, smaller rudder commands and stopping point deceleration. Add dual counterbalance valves for pinpoint, measured rudder response. Incorporate an unloading system to automatically impart supercharged rudder power in crucial operating conditions.

Why Superredundant Controls?

- Two of everything: Inputs, Amplifiers and Feedbacks.
- Greater dependability, reliability and system independence.
- Added protection against emergency breakdowns.

Why Two Speed?

- Two speed control is automatic in follow up mode, keyed by the degree or rudder input signal and the end of rudder travel; also semi-automatic in NFU mode.
- Reduce shock of high volume on small rudder movements.
- Enhances system cooling.

Why Dual Counterbalance?

- Reduces mechanical wear and tear of cylinder to rudder tiller linkage.
- Smooths rudder movement in all conditions, diminishing valve shift sensations.
- Minimizes bounce at stroke's end, and eliminates electronic hunting due to slow valve cut-off.
- Negates normal valve leakage.

Why the Unloader?

- Protects horsepower load draw limits.
- Automatically maximizes power when needed.



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Topside Acc.

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Hardware, Fasteners

Camouflage

Misc.

Comm.

NEW CONSTRUCTION

MAJOR REBUILD

TROUBLESHOOT & REPAIR

- From engine room, to generators, to light switches and outlets, to wheel house and everywhere else in between
- Let us subcontract all electric and hydraulic from design through installation and commissioning
- Installations/repairs will meet Coast Guard & ABS regulations
- Rewire - remove existing cables and electrical components and re-install to the highest standard
- Design and furnish switchboards and alarm systems
- Complete diagnostic, maintenance and annual inspection of all your electrical and hydraulic equipment needs

**YOU CALL, WE COME & DON'T LEAVE UNTIL PROBLEM IS IDENTIFIED & FIXED!
WE MANAGE ALL SYSTEMS FOR THE LIFE OF YOUR VESSEL.**

CRANES & DAVITS

Troubleshoot, repair, service, commission, and technical support for Techimpianti and Palfinger/Ned-deck

Life Boat/Fast Rescue Vessels

Annual/5-year inspections available

STEERING SYSTEMS

Troubleshoot, repair, service, install, commission, and technical support for all systems

Complete inventory of all steering components

Annual inspections available

ALARM SYSTEMS

Troubleshoot, repair, service, install, commission, and technical support for all systems

Custom design and build any alarm system to meet your needs

Expertise in calibrating all system sensors

MARINE ELECTRICAL HIGH/LOW VOLTAGE

Custom design, build, troubleshoot, repair, service, install, and technical support for all electrical systems

ENGINE CONTROL

Troubleshoot, repair, service, install, commission, and technical support

Expertise in Mathers (ZF) control systems

Mechanical and electrical engine controls

HYDRAULIC SYSTEMS

Troubleshoot, repair, service, install, commission, and technical support

HPU, custom designs, component sales, field service, retrofits

ELECTRICAL SWITCHBOARDS

Troubleshoot, repair, service, install, commission, and technical support for all brands

Expertise in design, service and installation

OILY WATER SEPARATORS

Troubleshoot, repair, service, commission, and technical support for all brands

Annual inspections available

Service to IMO107 standards

MARINE SANITATION DEVICES

Troubleshoot, repair, service, commission, and technical support for all brands

Annual inspections available

Service to IMO107 standards

WATER MAKERS/UV PURIFIERS

Troubleshoot, repair, service, commission, and technical support for all brands

Annual inspections available

LP Fuel pump, high pressure pump, membrane, control panel expertise

WATERTIGHT DOORS

Troubleshoot, repair, service, install, commission, and technical support for all brands

Expertise in electrical and hydraulic

Annual inspections available

SEARCHLIGHTS

Troubleshoot, repair, service, install, commission, and technical support for all brands

Expertise in Xenon & Perko

Replacement bulbs available and in stock

BOW THRUSTERS

Troubleshoot, repair, service, commission, and technical support for all brands

BATTERY CHARGERS

Troubleshoot, repair, service, install, commission, and technical support for all brands

Expertise in sales of Newmar and Charles

TRAVELIFT/SHUTTLELIFT

Troubleshoot, repair, service, install, commission, and technical support

Annual inspections available

DECK WINCHES, WINDLASSES & CAPSTANS

Troubleshoot, repair, service, install, commission, and technical support

All electric and hydraulic brands

Sales and expertise in Palfinger, Norwegian, Patterson and SLM

**24/7 DISPATCH
1-844-365-2470**



- Electronics
- Trolling Motors
- Instruments
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- Lighting
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- Safety
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- Topside Acc.
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- Misc.
- Comm.

Telcor Instruments 8100 Non-Follow Up Jog Lever

Telcor Instruments, Inc.



- Spring loaded for fast and easy rudder movements.
- Completely watertight construction with o-ring seals throughout.
- Compatible for side-mount and top-mount applications.
- Zero epoxy construction.
- Double switch redundancy.
- Black anodized finish for superior corrosion resistance.
- Mounting dimensions match old Telcor models.

Telcor Instruments 8200 Full Follow Up Jog Lever

Telcor Instruments, Inc.



- Rudder precisely matches the lever position.
- Completely watertight construction with o-ring seals throughout.
- Compatible for side-mount and top-mount applications.
- Interfaces electronically with 7300 Feedback/Repeatback Rudder Position Sender and 7200 Position Sender.
- Available with up to 5 POTs.
- Interchangeable housing and POT with Telcor 7200 Position Sender.
- Zero epoxy construction.
- Black anodized finish for superior corrosion resistance.
- Mounting dimensions match old Telcor models.

Order No.	Description	Price on Request
679576	8100-2S NFU Assembly	Price on Request
679588	8100-4S NFU Assembly	Price on Request

Order No.	Description	Price on Request
679590	8200-1K FFU Assembly	Price on Request
679603	8200-2K FFU Assembly	Price on Request
679615	8200-5K FFU Assembly	Price on Request

Jastram Watertight and Weatherproof Jog Levers

Jastram Watertight and Weatherproof Jog Levers

Jastram ENGINEERING LTD.



- Ideal for indoor and outdoor stations.
- The Jastram Jog Levers provides non follow-up (time dependent) electric control.
- Jastram Jog Levers operate either completely on (as long as the switch is activated) or completely off (when it is released).
- Supplied with 5' of cable.
- Waterproof and corrosion resistant housings, with an IP 66 rating.

Jastram Helm Pump Seal Kits

Jastram ENGINEERING LTD.

Order No.	Mfg. No. / Description	List Price
677508	(119-0002) For 701 Helm Pump	\$119.19 E0-9398000
677520	(119-0085) For B1 and B2 Helm Pumps	\$117.79 E0-4388000

Jastram Cylinder Seal Kit

Jastram ENGINEERING LTD.

Order No.	Mfg. No. / Description	List Price
677456	(119-0083)	\$333.99 E0-9405200

Schmitt Model 150 Destroyer Type Steering Wheel

SCHMITT



- Oval section rings provide a comfortable grip for easy steering.
- The basic construction is TIG welded, highly polished nonmagnetic stainless steel with Pakkawood Trim.
- Black center cap.
- 6 Spokes
- Degree of dish is: 10°.
- Fits 3/4" tapered shaft.
- Spoke diameter: 3/8".
- Diameter 18".

Schmitt Stainless Steel Model 530 Sailboat Steering Wheel

SCHMITT



- Oval section rings provide a comfortable grip for easy steering.
- The basic construction is TIG welded, highly polished nonmagnetic stainless steel with Pakkawood Trim.
- 6 Spokes.
- Tubular spokes welded at hub and ring.
- Degree of dish is: Flat.
- Hub size: 1" straight shaft, 2-1/4" diameter, 2-1/8" long.
- Diameter 24".

Order No.	Description	List Price
602753	(152-18-111SS)	\$157.99 G0-5850100

Order No.	Description	List Price
602070	(532-24-900SS)	\$313.99 G0-7301200

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Marpac Stainless Steel Steering Wheels with Control Knob



7-0689



7-0690



7-0707



7-0698

- Steering wheel with control knob.
- Solid investment cast hub.
- No set screw required.
- Fits a standard 3/4" tapered shaft helm.

STEERING WHEEL ONLY (WITHOUT CAP NUT)

Order No.	Description	List Price	
7-0689	Diameter 13-1/2"	\$177.89	F0-2542100
7-0690	Diameter 13-1/2" (Black Powder Coat)	\$199.39	F0-7593100
7-0703	Diameter 15-1/2"	\$194.99	F0-9463100

STEERING WHEEL KIT FOR DOMETIC MECHANICAL STEERING

- For use with Dometic Mechanical Steering.
- 1/2"-20 thread.

Order No.	Description	List Price	
7-0709	Diameter 13-1/2"	\$209.79	F0-5864100
7-0708	Diameter 15-1/2"	\$272.39	F0-7609100
7-0706	Spare 1/2" Wheel Nut	\$22.59	F0-1851000

STEERING WHEEL KIT FOR DOMETIC HYDRAULIC STEERING

- For use with Dometic Hydraulic Steering.
- 5/8"-18 thread.

Order No.	Description	List Price	
7-0705	Diameter 13-1/2"	\$208.59	F0-1064100
7-0695	Diameter 13-1/2" (Black Powder Coat)	\$217.09	F0-6915100
7-0704	Diameter 15-1/2"	\$209.59	F0-1764100
7-0707	Spare 5/8" Wheel Nut	\$18.99	F0-9231000
7-0698	Spare 5/8" Wheel Nut (Black Powder Coat)	\$23.09	F0-6161000

STEERING WHEEL KIT FOR UFLX STEERING

- For use with Uflex Steering.
- M12 x 1.75 thread.

Order No.	Description	List Price	
7-0696	Diameter 13-1/2"	\$209.69	F0-8764100
7-0697	Diameter 15-1/2"	\$228.09	F0-6695100
7-0699	Spare M12 Wheel Nut	\$18.89	F0-2231000
7-0700	Spare M12 Wheel Nut (Black Powder Coat)	\$23.09	F0-6161000

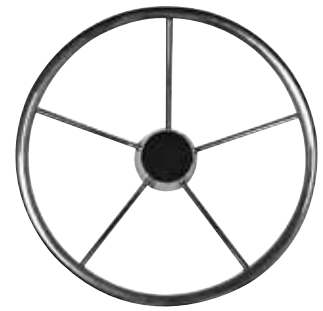
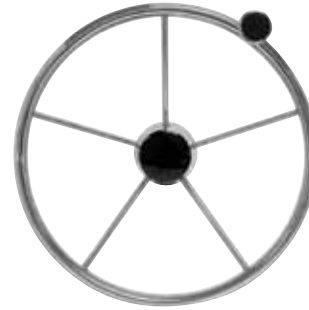
Marpac Stainless Steel Deluxe Control Knob



- Heavy duty cast marine grade stainless steel.
- Fits most oval shaped Destroyer Type Steering Wheels.
- Finger impression for a firmer grip.
- Inner bearing spinning knob for easier control.
- Included rubber pad offers a better fit.
- Includes clamp assembly (lock nut with strap) and wrench.
- Knob diameter: 1-7/8", knob height: 1-15/16".

Order No.	Description	List Price	
7-0256	Deluxe Control Knob	\$55.59	F0-1983000

Marpac Stainless Steel Steering Wheels - 5 Spoke Destroyer Type



- 5 spoke destroyer type.
- Stainless steel.
- Black composite center cap.
- Fits a standard 3/4" tapered shaft helm.

STEERING WHEELS WITHOUT CONTROL KNOB

- 25° dish.
- Diameter spokes: 3/8".

Order No.	Description	List Price	
7-0248	Diameter 13-1/2"	\$57.49	E0-2134000
7-0250	Diameter 15"	\$80.49	F0-4365000
7-9063	Replacement Center Cap	\$4.69	F0-8230000

STEERING WHEELS WITH CONTROL KNOB AND FINGER GRIPS

- 22° dish.
- Diameter spokes: 1/2".

Order No.	Description	List Price	
7-0687	Diameter 13-1/2"	\$127.49	F0-4298000
7-0688	Diameter 15-1/2"	\$133.89	F0-2739000

Marpac Stainless Steel Steering Wheels - 5 Spoke Destroyer Type



- 5 spoke destroyer type.
- Stainless steel.
- Black composite center cap.
- Fits a standard 3/4" tapered shaft helm.
- 10° dish.
- Diameter spokes: 3/8".

Order No.	Description	List Price	
7-0682	Diameter 15-1/2"	\$112.79	F0-5987000
7-0683	Diameter 18"	\$111.49	F0-4087000
7-0684	Diameter 20"	\$116.09	F0-6218000

Marpac Stainless Steel Control Knob



- Heavy duty cast marine grade stainless steel.
- Fits most oval shaped Destroyer Type Steering Wheels.

Order No.	Description	List Price	
7-0255	Steering Wheel Control Knob	\$25.29	F0-0771000

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

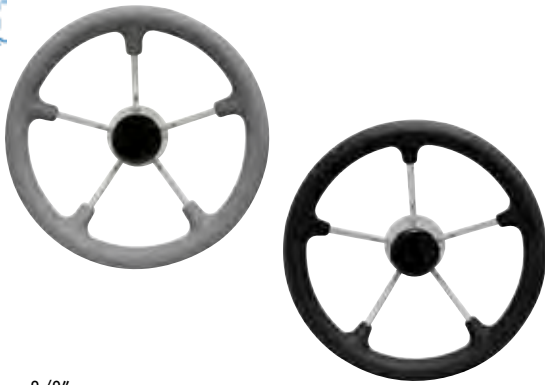
Hardware, Fasteners

Camouflage

Misc.

Comm.

Marpac Stainless Steel Destroyer Steering Wheels with Foam Grip



- 25° dish.
- Diameter spokes: 3/8".
- Fits standard 3/4" tapered shaft helm.

BLACK COMPOSITE CENTER CAP WITH BLACK FOAM GRIP

Order No.	Description	List Price	
7-0691	Diameter 13-1/2"	\$90.89	G0-0906000
7-0692	Diameter 15-1/2"	\$94.49	F0-4166000

BLACK COMPOSITE CENTER CAP WITH GRAY FOAM GRIP

Order No.	Description	List Price	
7-0693	Diameter 13-1/2"	\$87.69	F0-8316000
7-0694	Diameter 15-1/2"	\$94.49	F0-4166000

Dometic Champion Steering Wheel



- This 3-spoke steering wheel, with black PVC grip rim and center trim cap, will attach to marine helms with ABYC standard 3/4" tapered steering shafts, using anti-vibratory lock nuts.
- Diameter 13-1/2".

Order No.	Mfg. No. / Description	List Price	
838600	(SW59291P) Display Package	\$71.79	F0-5205000
838601	(SW-59291B) Bulk	\$64.69	F0-8254000

Dometic Stealth Steering Wheel



- This steering wheel, with black PVC grip rim and center trim cap, will attach to marine helms with ABYC standard 3/4" tapered steering shafts, using anti-vibratory lock nuts.
- Diameter 14".

Order No.	Mfg. No. / Description	List Price	
M767-5949	(SW59491P)	\$81.99	F0-9375000

LIMITED QUANTITIES

Dometic Steering Wheel Bushing



- Solid brass construction.
- Adapts 3/4" taper to 1" straight.
- Capilano Helms Only.

Order No.	Mfg. No. / Description	List Price	
803014	(HB0573)	\$52.79	F0-5963000

Marpac Plastic Steering Wheel



- Black rugged construction.
- Fits all standard 3/4" tapered shafts.
- Diameter 13".

Order No.	Description	List Price	
7-0252	Plastic Steering Wheel	\$45.79	F0-5023000

Marpac Plastic Steering Wheel



- Heavy duty, non-magnetic, UV resistant, high impact plastic.
- 4" dish.
- Fits all standard 3/4" tapered shafts.
- Meets ABYC P-22 and ISO 8848 standards.
- Diameter 13-1/4".

Order No.	Description	List Price	
7-0253	Plastic Steering Wheel	\$36.49	G0-5442000

Dometic Ace Steering Wheel



- This steering wheel, with black PVC grip rim and flush center pad, will attach to marine helms with ABYC standard 3/4" tapered steering shafts, using anti-vibratory lock nuts.
- Diameter 13-1/2".

Order No.	Mfg. No. / Description	List Price	
838702	(SW59691P)	\$48.99	Z0-4813000

Schmitt Fantasy Steering Wheel



- All polyurethane.
- Black Soft Grip with Brushed Spokes.
- Fits 3/4" tapered shaft.
- Includes black plastic cap.
- Diameter 13.8".

Order No.	Mfg. No. / Description	List Price	
838687	(PU013104)	\$121.99	G0-3718000

Dometic Steering Wheel Hardware Kit



- Kit consist of 1/2" NPT locknut, flat washer and woodruff key (half moon).
- For all mechanical helms with 3/4" tapered shaft.

Order No.	Mfg. No. / Description	List Price	
649538	(SA-27454P)	\$13.59	F0-1590000

Uflex Corsica Steering Wheel

TIFLEX



- 3 spoke marine steering wheel with PVC soft grip and aluminum spokes.
- Standard 3/4" taper.
- X63 Hub is required (Not included).
- Diameter 13.8".
- Meet with the EN28848, EN29775 & ABYC P22 standards.

Order No. Mfg. No. / Description
8020180 (CORSE BS) Black

List Price
\$149.59 F0-1740100

Uflex Antigua Steering Wheel

TIFLEX



- Composite soft touch grip steering wheels.
- 3 spoke steering wheel made of thermoplastic antishock material, soft grip.
- Standard 3/4" taper.
- Hub and center cap included.
- Diameter 13.8".
- Meet with the EN28848, EN29775 & ABYC P22 standards.

Order No. Mfg. No. / Description
2007310 (V60) Black

List Price
\$72.99 F0-9015000

Uflex Steering Wheel

TIFLEX



- 3 spoke steering wheel made of thermoplastic antishock material.
- Soft grip.
- Standard 3/4" taper.
- Hub and center cap included.
- Diameter 11.8".
- Meet with the EN28848, EN29775 & ABYC P22 standards.

Order No. Mfg. No. / Description
2007285 (V45) Black

List Price
\$64.99 F0-9454000

JIF Marine Steering Wheel

JIF
JIF MARINE LLC

- Classic sport wheel with leather grain appearance.
- Fits standard 3/4" tapered shaft.
- Hard black grip with center cap.
- Diameter 12-3/4".
- Dish 3".

Order No. Mfg. No. / Description
2187800 (EDG-BULK) Black

List Price
\$50.99 L0-0552000

Edson Teak Yacht Wheels

EDSON

SPECIAL
ORDER
ONLY

Fig. 603C



Fig. 601C



- These beautifully crafted wheels will give years of service and pleasure to the owner who wants the best workmanship on his yacht, work boat or fishing boat.
- Offshore-quality wheel.
- Solid teak spokes and felloes rigidly secured with stainless fasteners and holly bungs.
- Hub available in polished chrome.
- 1" straight bore only.
- Available in sizes from 24" to 38" on special order.
- Fig. 601C teak yacht wheels are spoked wheels.
- Fig. 603C teak wheels come with a laminated 1" diameter natural teak rim installed.

Edson Character Wheel

EDSON

SPECIAL
ORDER
ONLY

- Fig. 688 character wheels are designed and finished with "character".
- Patterned after the traditional heavy cast iron wheels.
- Made of lightweight 356-T6 aluminum.
- Heat-treated to T-6 hardness.
- Feature tan baked-on urethane powder coating and varnished teak handles.
- 1" straight bore only.
- Available in sizes 20", 25", 31" and 34" spoke to spoke on special order.

Electronics

Trolling
Motors

Instruments

Electrical

Lighting

Anchor
& Dock

Safety

Steering,
Controls

Pumps

Fuel
SystemSeating &
Pedestals

Trailer

Tops &
Covers

Perform.

Propellers

Engine
& CareCleaning
& CarePaint &
Paint Acc.Fun &
FlotationTopside
Acc.Cockpit
& DeckHardware,
Fasteners

Camouflage

Misc.

Comm.

T-H Marine Hot Foot™ Pro - Top Load Foot Throttles



- The top loading features for the throttle cable makes Hot Foot Pro easier to install and gives more foot and leg room.
- Patented idle stop for FICHT & Optimax.
- Stainless steel return spring.
- Teflon bushings on all critical pivot points and toe clip for added security.

Order No.	Mfg. No. / Description	List Price
640322	(HF-1T-DP) Fits J/E, Mercury/Mariner	\$230.09 E0-7527100
640335	(HF-1CT-DP) Fits Hon, Yam, Chy and Suz	\$216.09 E0-7026100

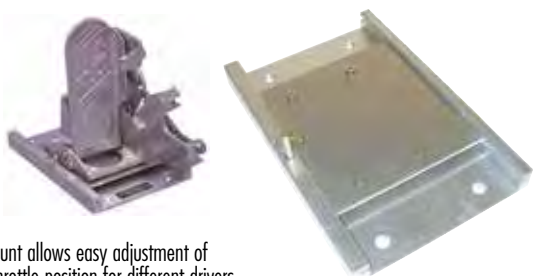
T-H Marine Hot Foot™ - Original Foot Throttle



- Original marine foot throttle for O/B, I/O and inboard engine applications.
- All cast aluminum - stainless steel hardware.
- A stainless steel spring returns engine to idle position when released.
- Equipped with toe clip for additional safety in extreme operating conditions.
- Mounts directly to floor of boat with four screws (Not included).

Order No.	Mfg. No. / Description	List Price
640309	(HF-1-DP) Universal Model - Fits All Marine Engines	\$196.39 D0-1175100
640310	(HFS-1-DP) Replacement Spring (All Models)	\$23.29 F0-0361000

T-H Marine Hot Foot™ - Slide Mount



- This sliding mount allows easy adjustment of the Hot Foot throttle position for different drivers or driving conditions.
- Mount allows over 5" of adjustment for people of different heights.
- All extruded aluminum and stainless steel construction.
- Stainless steel fasteners and release pin.

Order No.	Mfg. No. / Description	List Price
640361	(HFM-1-DP)	\$92.99 E0-4796000

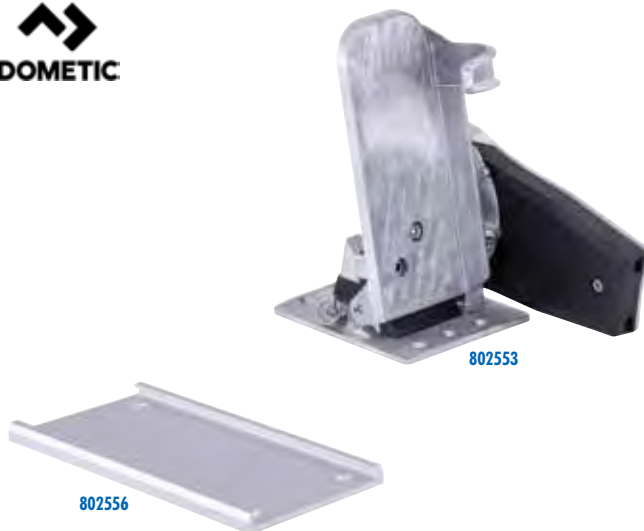
Bob's Machine Shop Marine Foot Throttle



- For outboard & inboard engine applications.
- A safety feature adaptable to all high performance boats.
- All aluminum machined unit to reduce weight and resist corrosion.
- Stainless steel hardware and nonsticking Teflon or nylon bearing surfaces for trouble free operation.
- A stainless steel spring returns engine to idle position when released.
- Included is a new toe clip for additional safety in extreme operating conditions.
- Uses standard control cables for easy hook-up.
- Mounts directly to floor of boat with four screws (not included).

Order No.	Mfg. No. / Description	List Price
304110	(307-002100)	\$258.49 E0-7839100

Domestic Pro-Pedal Foot Throttle



- The Pro-Pedal is the first foot throttle that can be fully customized to fit both the boat and the driver, making it easier and more enjoyable to pilot today's high-performance boats.
- The new foot throttle is designed with a robust torsion spring and locking fasteners to improve both reliability and durability, season after season and its compact design keeps the deck uncluttered and allows for more room around the pedal and an integrated slide makes it easy to adjust the pedal position for different drivers.
- Accept all types of 30 Series control cables.
- The cable attachment is concealed in a protected case to prevent from debris.
- Easy to adjust pedal idle start position.
- Unique wedge feature under the front of the pedal to prevent items from becoming jammed.
- Toe hook at the top of the pedal to allow the driver to manually pull the throttle back to idle if required.
- Robust stainless steel torsion spring to provide a long life.
- Adjustable slider plate with unique spring loaded feature which allows the driver to slide the pedal back and forth with just one hand.
- All mounting and assembly fasteners have self-locking features.
- The pedal is made of reliable rugged A380 aluminum.

Order No.	Mfg. No. / Description	List Price
839550	(FT7000P) Foot Throttle w/Slider Base Plate	\$343.39 F0-7304200
802553	(FT7050P) Foot Throttle	\$288.99 F0-9220200
802556	(FT7051P) Slider Base Plate	\$114.99 F0-9408000



- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Xtreme Dual-Function, Single or Dual Controls



- Lever/handle updated for aesthetics, ergonomics and improved durability.
- Multitude of control configurations to suit all boating types.
- Minimal changes to mounting scheme or cable nesting from Osprey or SL-3.
- Superior feel and function for most outboards, stern drives & inboards.
- Dual function lever controls both throttle and shift of one engine.
- Neutral engine warm-up feature.
- Friction adjustment feature included.
- "Easy-On" cable design accepts virtually every type of OEM and 3300/33C type cable.
- Easily adapted to push or pull cable actuation mode.
- Mechanical advantage 2.38:1.
- Meets/exceeds all applicable standards.
- Designed and assembled in the USA.
- For best performance always use Xtreme Control Cables.

TOP MOUNT CHROME CONTROLS

Order No.	Mfg. No. / Description	List Price	
490300	(CHX8142P) Single Trim & Tilt Switches	\$513.89	FO-2795300
490223	(CHX8151P) Single Neutral Interlock, Trim Switch	\$588.99	ZO-4828300
490315	(CHX8152P) Single Neutral Interlock, Trim & Tilt Switches	\$522.09	FO-6456300
490172	(CHX8241P) Dual Trim Switch	\$708.99	ZO-4806400
490320	(CHX8242P) Dual Trim Switch, Tilt Switch	\$630.69	FO-8414400

TOP MOUNT BLACK CONTROL

Order No.	Mfg. No. / Description	List Price	
490209	(CHX8640P) Single	\$420.99	ZO-4637200

SIDE MOUNT CHROME CONTROLS

Order No.	Mfg. No. / Description	List Price	
490297	(CHX8052P) Engine Cut Off, Trim & Tilt Switches	\$572.19	FO-3500400
490312	(CHX8051P) Engine Cut Off, Trim Switches	\$430.19	FO-3110300

SIDE MOUNT BLACK CONTROLS

Order No.	Mfg. No. / Description	List Price	
490285	(CHX8550P) Engine Cut Off Switch	\$437.99	ZO-9648200
490328	(CHX8555P) Trim Switch, Tilt Switch	\$512.59	FO-1885300
3463509	(CHX8554P) Trim Switch	\$380.49	FO-4366200

SIDE MOUNT CHROME CONTROLS - LEVER ON THE RIGHT

Order No.	Mfg. No. / Description	List Price	
490247	(CHX8351P) Engine Cut Off, Trim Switches	\$507.99	ZO-9103300
490259	(CHX8352P) Engine Cut Off, Trim & Tilt Switches	\$650.99	ZO-4132400

NEUTRAL SAFETY SWITCH

Order No.	Mfg. No. / Description	List Price	
490196	(051801-033)	\$10.99	ZO-4170000

Marpac Dual Function, Single Lever Controls



- Classic design with a modern look.
- Single lever, dual function control for easy one hand operation.
- Works with almost any outboard, I/O or inboard engine.
- Accepts any OEM control cable.
- Easy to use power trim and tilt button on the handle.
- Neutral safety switch prevents starting in gear.
- Mercury engines require the use of a 2006845 Uflex K35 Connection Kit (Sold Separately).

Order No.	Description	List Price	
7-0118	Top Mount	\$254.09	FO-6877100
7-0119	Side Mount	\$255.29	FO-0787100

UFLEX K35 CONNECTION KIT FOR SINGLE LEVER CONTROL BOXES

Order No.	Mfg. No. / Description	List Price	
2006845	(K35)	\$25.69	FO-8971000

Dometic MT-3 Dual-Function, Single or Twin Lever Top Mount Controls



- Ideal for inboards, sterndrives and outboards.
- Combines classic binnacle control styling with dual function levers, a neutral safety switch and an engine warm-up feature.
- Control throttle and shift with one lever instead of two.
- Can be used in a dual station application with the DS unit.
- This control uses 3300/33C type cables (single and dual lever) and 4300/43 type cables (single lever version only). Not suitable for use with Mercury and OMC OEM type control cables.

Order No.	Mfg. No. / Description	List Price	
490007	(CH5310P) Single Lever	\$435.49	FO-4840300
490019	(CH5300P) Twin Lever	\$764.19	FO-3943500

ACCESSORIES

Order No.	Mfg. No. / Description	List Price	
490526	(035232-001) Red Ball Knob	\$11.39	FO-7970000
490538	(035232-004) Black Ball Knob	\$9.69	FO-8760000
490499	(305499) Neutral Safety Switch	\$32.59	FO-1822000
490425	(308742) 43 Cable Heavy Duty Connection Kit	\$141.59	FO-1199000
490437	(032778-002) Hand Lever	\$156.99	ZO-4020100

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Marpac Top Mount Engine Controls



- Cast heavy duty stainless steel housing and arms.
- Single and dual levers with single action.
- Includes: Mounting hardware for 33C and 43C cables.

Order No.	Description	List Price	
7-0114	Single	\$200.19	GO-3143100
7-0115	Dual	\$310.99	GO-6380200

Uflex Single Lever Top Mount Controls - Low Profile



- Compact single lever controls offering a unique low profile style compared to other controls available on the market.
- Single lever/dual action control to operate both throttle and shift.
- Suitable for any type of boat with inboard engine.
- Enables easy and safe shifting by preventing accidental gear engagement unless engine is idling.
- Made of marine aluminum, chrome plated.
- Push in button disengages shift for warm-up.
- X12 neutral safety switch which prevents in-gear starting.
- For use with all Ultraflex control cables: C14 and MACH14 cables require no kit. For C2, C8 and MACHZero cables the connection kit K59 is included. C5, C16 and MACH5 cables require 8030010 (K60) Connection Kit. C36 and MACH36 cables require 8030015 (K62) Connection Kit. C22 cable requires (K61) Connection Kit.

Order No.	Mfg. No. / Description	List Price	
2006667	(B301CR) Single Lever for One Engine	\$431.59	FO-1120300
2006668	(B302CR) Twin Lever for Two Engines	\$767.89	FO-2573500

Uflex Single-Lever Side Mount Controls



- Single lever/dual action control to operate both throttle and shift.
- Suitable for any type of boat with outboard engine.
- Enables easy and safe shifting by preventing accidental gear engagement unless engine is idling.
- Can be installed horizontally or vertically, on the starboard or port side of the boat.
- Provided with a throttle friction system adjustable from outside.
- Pull-out handle disengages shift for warm-up.
- Provided with positive lock-in neutral to prevent accidental gear engagement.
- For use with all Ultraflex engine control cables except C22, C36 and MACH36. Uflex C5, C16 and MACH5 cables require K35 connection kit. Uflex C22 cable requires KB1 connection kit.

Order No.	Mfg. No. / Description	List Price	
2006645	(B183) Without Trim Switch	\$324.99	FO-9472200
2006650	(B184) With Trim Switch	\$358.09	FO-6605200
2006655	(B184MERC) For Mercury With Trim Switch	\$378.79	FO-5156200

Uflex Single Lever Top Mount Controls



- Single lever/dual action control to operate both throttle and shift.
- Suitable for any type of boats with inboard engine.
- Chrome plated marine aluminum.
- Pull-out handle disengages shift for warm-up.
- Neutral safety switch X43 prevents in-gear starting.
- Enables easy and safe shifting by preventing accidental gear engagement unless engine is idling.
- For use with C2, C8 and MACHZero Uflex engine control cables.

Order No.	Mfg. No. / Description	List Price	
490036	(B-103) Single Lever Control for One Engine	\$404.19	FO-3928200
490042	(B-104) Twin Lever Control for Two Engines	\$821.19	FO-3847500

Uflex Twin Lever Side Mount Control



- Suitable for small outboard engines.
- Made of nylon fiberglass with anodized aluminum levers.
- Left or right side mount installation.
- For use with Ultraflex engine control cables: C14 and MACH14 with K23 connection kit. C2, C8, and MACHZero with K25 connection kit. C5 and MACH5 without connection kit.

Order No.	Mfg. No. / Description	List Price	
2006680	(B49)	\$201.89	FO-2314100

Uflex Single Lever Side Mount Controls



- The universal control design allows for the connection of 33C Universal style cable and OMC (Johnson/Evinrude) cables with adapters included.
- Mercury Gen I cables can be easily connected with the addition of the 2006845 Uflex K35 Connection Kit (Sold Separately).
- Includes a positive lock-in neutral and trim switch.
- Enables easy and safe shifting by preventing accidental gear engagement unless engine is idling.
- Can be installed horizontally or vertically, on the starboard or port side of the boat.
- Provided with a brake tension release system adjustable from outside.
- Pull-out handle disengages shift for warm-up.
- Includes X12 neutral safety switch which prevents in-gear starting.
- Provided with positive lock-in neutral to prevent accidental gear engagement.
- For use with all Ultraflex engine control cables except C4, C36 and MACH36. Uflex C5, C16, MACH5 and Mercury cables require 2006845 Uflex K35 Connection Kit (Sold Separately). Uflex C22 and C23 cables require KB1 connection kit.

Order No.	Mfg. No. / Description	List Price	
2006665	(B310B) Black Handle	\$515.69	FO-8906300
2006670	(B310CH) Chrome Handle	\$529.09	FO-6307300

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Uflex Single Lever Side Mount Controls



- Single lever/dual action control to operate both throttle and shift.
- Suitable for any type of boats with outboard, inboard or I/O power plants.
- Enables easy and safe shifting by preventing accidental gear engagement unless engine is idling.
- Can be installed horizontally or vertically, on the starboard or port side of the boat.
- Made of painted marine aluminum.
- Pull-out handle disengages shift for warm-up.
- X12 neutral safety switch which prevents in-gear starting.
- Provided with a positive lock-in neutral to prevent accidental gear engagement.
- For use with all Ultraflex engine control cables except C22, C4, C36 and MACH36. Uflex C5, C16, MACH5 and Mercury cables require K35 connection kit. To connect C14 and MACH14 cables and current OMC cable to engine, use K51 connection kit.

Order No.	Mfg. No. / Description	List Price	
2006707	(B89) White Finish	\$325.29	F0-0772200
2006710	(B90) Black Finish	\$325.29	F0-0772200

Uflex Twin Lever Top Mount Control



- Two lever/single action control: Each lever operates separately either the throttle or the shift.
- Suitable for any type of boat with inboard engine.
- Flush mount suitable for exposed positions such as fly bridge.
- Made of marine aluminum with chrome plated lever.
- Adjustable friction to avoid throttle creep and positive detent for shift. Both can be adjusted from the outside.
- Neutral safety switch X12 prevents in-gear starting.
- For use with Ultraflex C2, C8 and MACHZero engine control cables. Uflex C22 cable requires K22 connection kit.

Order No.	Mfg. No. / Description	List Price	
2006678	(B46)	\$456.39	F0-7491300

Uflex Twin Lever Top Mount Control



- Two lever/single action control: Each lever operates separately either the throttle or the shift.
- Suitable for any type of boat with inboard engine.
- Made of aluminum, chrome plated finish.
- Throttle lever is provided with adjustable friction system and shift lever with forward, reverse and neutral detents.
- X12 neutral safety switch which prevents in-gear starting.
- Use with all Ultraflex control cables C14 and MACH14 cables require no kit. For C2, C8 and MACHZero cables the connection kit K67 is included. C5, C16 and MACH5 cables require K63 kit. C22 cable requires K64 kit. C36 and MACH36 cables require K65 kit.

Order No.	Mfg. No. / Description	List Price	
926501	(B322) Throttle and Shift	\$583.49	F0-4480400

Uflex Twin Lever Top Mount Control



- Housing is made of high resistance ABS with die cast levers.
- With lock in neutral and with trim switches.
- Single lever/dual action control to operate both throttle and shift, Twin lever for two engines with trim/dual action control to operate both throttle and shift.
- Suitable for any type of boats with inboard, outboard or I/O power plants.
- Enables easy and safe shifting by preventing accidental gear engagement unless engine is idling.
- Push in button to disengages shift for engine warm up.
- X12 neutral safety switch which prevents in-gear starting.
- For use with all Ultraflex control cables: C14 and MACH14 cables require no kit. For C2, C8 and MACHZero cables the connection kit K59 is included. C5, C16 and MACH5 cables require 8030010 (K60) Connection Kit. C36 and MACH36 cables require 8030015 (K62) Connection Kit. C22 cable requires (K61) Connection Kit.

Order No.	Mfg. No. / Description		List Price	
926305	(B501CHT/L) Single Engine	Chrome Plated	\$616.79	F0-5713400
926254	(B501BT/L) Single Engine	Gun Metal	\$617.89	F0-2523400
926317	(B502CHT/L) Double Engine	Chrome Plated	\$1,080.89	F0-2665700
2006705	(B502BT/L) Double Engine	Gun Metal	\$1,070.49	F0-4394700

Dometic Side Mount Ski Boat Control



- Single lever, dual action for throttle and shift.
- Superior neutral engine warm-up control.
- Flush mount design for quick, tidy installation.
- Includes hardware for two 3300/33C type cables.
- Crisp shifting ball grip for a solid, sure feel.
- Meets/exceeds all applicable industry standards.

Order No.	Mfg. No. / Description	List Price	
490108	(CH2200p)	\$498.79	F0-5194300

NEUTRAL SAFETY SWITCH

Order No.	Mfg. No. / Description	List Price	
490122	(CA27090P) For Ski Boat Control	\$46.59	F0-1623000
490134	(CA27100P) For Jet Boat Control	\$68.59	F0-1084000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailer
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

- Electronics
- Trolling Motors
- Instruments
- Electrical
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- Safety
- Steering, Controls**
- Pumps
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- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
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- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic S and Twin-S Single-Function, One or Two Lever Controls



- This classic control is great for inboards, single or dual station.
- Highly polished stainless steel cover.
- Easily adjustable throttle friction and shift detent feel.
- Optional lever extension, detent kits and neutral safety switch available.
- Additional hardware is required for twin station use.
- Both controls use 3300/33C and 4300 type cables. Not suitable for use with Mercury and OMC OEM type control cables.
- 4300 cables require the additional 40 series hardware kit.

Order No.	Mfg. No. / Description	List Price	
489650	(CH5210P) Single Lever	\$264.89	F0-2458100
489662	(CH5200P) Twin Lever	\$326.49	F0-4582200

ACCESSORIES

Order No.	Mfg. No. / Description	List Price	
490398	(CA67866P) Single S Handle Replacement	\$100.99	Z0-4656000
490526	(035232-001) Red Ball Knob	\$11.39	F0-7970000
490538	(035232-004) Black Ball Knob	\$9.69	F0-8760000
490588	(022328) Clutch Detent Kit	\$51.89	F0-2363000
490401	(042152) In-Series Dual Station Kit, 40 Series	\$39.39	F0-7572000
490350	(061001) Mounting Hardware Kit, Twin	\$58.09	F0-6604000
490933	(047307) Neutral Safety Switch Kit	\$84.39	F0-7095000

Dometic Neutral Safety Switch



- For Dometic SLT Top Mount Control.

Order No.	Mfg. No. / Description	List Price	
839045	(CA69009P)	\$58.69	F0-8014000

Dometic T-Handle DC Control



- Can be mounted flush on the dashboard or the side of the wheel box.
- Recommended for throttle, choke, air or fuel shutdown requiring up to 3" of travel.
- Chrome plated T-handle and adjustable stop locking knurled nut.
- Uses standard 33C cable with 3/16" thread.
- Optional mounting bracket is available for side of console mounting.

Order No.	Mfg. No. / Description	List Price	
489509	(301916)	\$153.79	F0-5670100
489511	(048210) Mounting Bracket, Stainless Steel	\$122.49	F0-4758000

Dometic Accessories for SR Top Mount Control



Order No.	Mfg. No. / Description	List Price	
490413	(040090) Adapter Kit for Each 4300 Series Cable	\$85.89	F0-2106000
402165	(060991) Mounting Hardware Kit	\$58.49	F0-4904000

Dometic Replacement Stainless Steel Lever



- Stainless steel throttle knobs fit most controls with 3/8-24 threaded levers.
- Stainless steel replacement lever fits Dometic SLT (CH5600P) and SR Twin (CH5400P) controls only.

Order No.	Mfg. No. / Description	List Price	
402178	(CA69060P)	\$84.19	F0-3985000

Dometic Bowden Wire Pivot

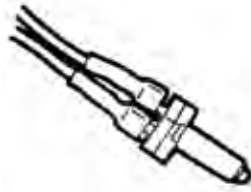


- Can be used with wire control to trip levers, choke handles, choke knobs, etc.
- Brass with stainless steel locking screw.
- Stop pivot for 33C Series, 1/4".

Order No.	Mfg. No. / Description	List Price	
494067	(047641)	\$27.99	F0-9591000

Uflex Control Boxes Accessories

Uflex Neutral Safety Switch



- Neutral safety switch to prevent in-gear starting.

Order No. Mfg. No. / Description List Price
2007350 (X12) **\$48.69** FO-8043000

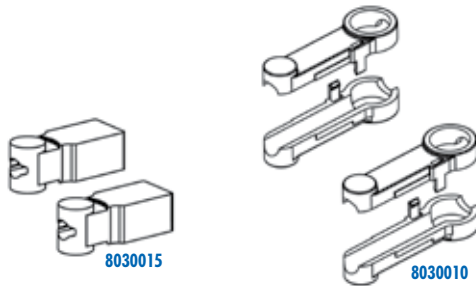
Uflex Connection Kit for Single Lever Control Boxes



- Kit to connect C5, C16, MACH5 and Mercury Style cables to single lever control boxes, except B301, B302, B103 and B104.

Order No. Mfg. No. / Description List Price
2006845 (K35) **\$25.69** FO-8971000

Uflex Connection Kits for B301 and B302 Control Boxes



K60 CONNECTION KIT

- Kit to connect C5, C16, MACH5 and Mercury (except GEN II) cables to B301 and B302 control boxes.

Order No. Mfg. No. / Description List Price
8030010 (K60) **\$16.99** FO-9811000

K62 CONNECTION KIT

- Kit to connect C36, MACH36 and Mercury GEN II cables to B301 and B302 control boxes.

Order No. Mfg. No. / Description List Price
8030015 (K62) **\$22.79** FO-5951000

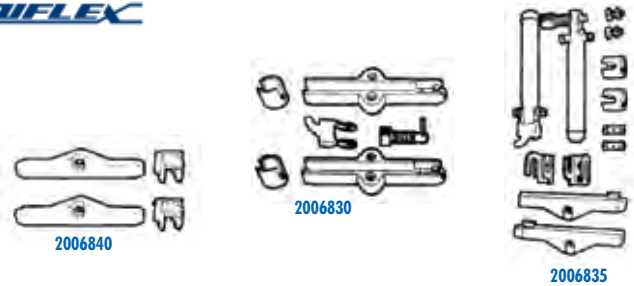
Rig Rite Shift and Throttle Control Mounting Board



- Single control.
- Made from King StarBoard marine grade plastic.
- Easy to cut with wood working tools if needed to size for specific dimensions.
- Dimensions: 12" x 12" x 1/2".

Order No. Mfg. No. / Description List Price
2970950 (950) **\$34.99** G0-4432000

Uflex Connection Kits for B47 and B49 Control Boxes



K23 CONNECTION KIT

- Kit to connect C14, MACH14 and OMC type "OS" cables to B47 and B49 control boxes.

Order No. Mfg. No. / Description List Price
2006830 (K23) **\$20.89** FO-2641000

K24 CONNECTION KIT

- Kit to connect C4 and OMC type "O" cables to B47 and B49 control boxes.

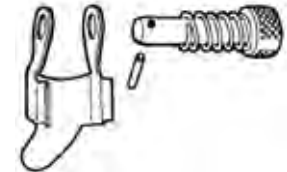
Order No. Mfg. No. / Description List Price
2006835 (K24) **\$82.79** FO-5975000

K25 CONNECTION KIT

- Kit to connect C2, C8, MACHZero and all 33C style cables to B47 and B49 control boxes.

Order No. Mfg. No. / Description List Price
2006840 (K25) **\$14.09** FO-6890000

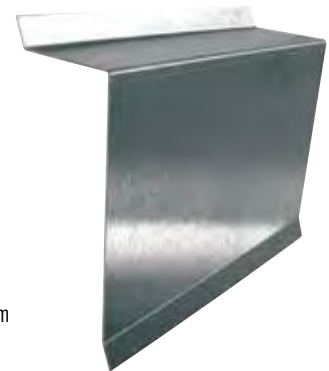
Uflex Connection Kit for B89 and B90 Control Boxes



- Kit to connect C14, MACH14 and OMC type "OS" cables to B89 and B90 control boxes.

Order No. Mfg. No. / Description List Price
2006850 (K51) **\$14.19** FO-3990000

T-H Marine Throttle Control Mount



- This bracket allows for simple installation of a throttle control box on gunwale of aluminum and some fiberglass boats.
- Made of high quality, formed .090" aluminum sheet for a long lasting good appearance.
- Can be painted to match boat paint color.

Order No. Mfg. No. / Description List Price
640943 (TCM-1-DP) **\$51.19** FO-3853000

Uflex PTO Cable



- Ends: 1/4" x 28 UNF.
- Length 30'.

Order No. Mfg. No. / Description List Price
494120 (CPTOX30) **\$557.29** FO-0109300

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Kobelt Push Pull Control Heads - One Station, Single Lever



Cable Kit



441016

441004

- Chrome finish cover and handle.
- Curved handle.
- All components are made from die-cast bronze with stainless steel hardware.
- Solid bronze frame for watertight installation.
- Stainless steel shaft supported in two bearings.
- Roller type detent.
- Adjustable nylon throttle friction.
- Neutral safety switch.
- In-line push or pull on cable end.
- Reverse motion hook-up for clutch and throttle.
- Throttle movement proportional to handle travel.
- Maximum clutch travel is 3" and Maximum throttle travel is 1-5/8".
- The 2048 consists of two 2046's jointed on a common frame and dome.

Order No.	Mfg. No. / Description	List Price	
441004	(2046-KU) Single Handle	\$1,236.19	GO-5282800
441016	(2048-KU) Twin Handle	\$2,300.39	GO-6214510
441509	(2046-0902) 40 Series Cable Connector Kit	\$57.49	FO-4204000
441511	(2046-0901) 30 Series Cable Connector Kit	\$51.89	FO-2363000

Kobelt Two Handle Push Pull Control Heads



- Two long handles with one detent and one friction.
- All components are made from die-cast bronze with stainless steel hardware.
- Chrome finish cover and handle.
- Solid bronze frame for watertight installation.
- Stainless steel shaft supported in two bearings.
- Roller type detent.
- Adjustable nylon throttle friction.
- Neutral safety switch.
- In-line push or pull on cable end.
- Reverse motion hook-up for clutch and throttle.
- Throttle movement proportional to handle travel.
- 3" stroke.
- The cable support bracket has been shortened to improve cable attachment access to the Control head.

Order No.	Mfg. No. / Description	List Price	
440987	(2015DK) Long Handles	\$965.09	GO-1664600
441507	(2015-0902) 40 Series Cable Connector Kit	\$57.49	FO-4204000
441508	(2015-0901) 30 Series Cable Connector Kit	\$51.89	FO-2363000

Kobelt Push Pull Control Heads - Two Stations, Single Lever



Cable Kit



441181

441129

- Chrome finish cover and handle.
- T-bar handle.
- All components are made from die-cast bronze with stainless steel hardware.
- Solid bronze frame for watertight installation.
- Stainless steel shaft supported in two bearings.
- Roller type detent.
- Adjustable nylon throttle friction.
- Neutral safety switch.
- In-line push or pull on cable end.
- Reverse motion hook-up for clutch and throttle.
- Throttle movement proportional to handle travel.
- The 2091 and 2092 master control heads feature a pullout handle for overriding throttle.
- Maximum clutch travel is 2-3/4" and Maximum throttle travel is 2-1/4".

Order No.	Mfg. No. / Description	List Price	
441129	(2091-KY) One Engine Primary Control	\$1,509.39	GO-9211010
441131	(2093-KY) One Engine Secondary Control	\$952.79	GO-7383600
441181	(2092-KY) Two Engines Primary Control	\$3,036.69	GO-8543020
441193	(2094-KY) Two Engines Secondary Control	\$1,609.19	GO-6187010
441509	(2046-0902) 40 Series Cable Connector Kit	\$57.49	FO-4204000
441511	(2046-0901) 30 Series Cable Connector Kit	\$51.89	FO-2363000
441117	(2090-1012) Replacement Chain Assembly	\$169.39	GO-9431100

Control Cables for Interconnect 2090 Series Control Heads



Order No.	Mfg. No. / Description	List Price	
350102	(45808) Cable Length 16'	\$141.98	GO-3159000
350126	(45808) Cable Length 20'	\$187.98	GO-5952100
350140	(45808) Cable Length 24'	\$198.98	GO-2333100
350164	(45808) Cable Length 28'	\$214.98	GO-4044100
350188	(45808) Cable Length 32'	\$235.98	GO-1185100
350190	(45808 47-34) Cable Length 34'	\$241.98	GO-3126100
350203	(45808) Cable Length 36'	\$256.98	GO-8127100
350215	(45808) Cable Length 56'	\$416.98	GO-8397200

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailing
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

VITALS

VESSEL SYSTEM MONITORING & SMART ALARM DEVICE (highly configurable)



KOBELT introduces the next generation in vessel monitoring.



Vitals provides advanced warning of potential equipment failures with an array of SMART alarms that alert you to potential problems before they become catastrophic. The specific benefit of this centralized monitoring and alarm system is that it can be easily configured to suit *your* specific boat. Be it the temperature of a critical bearing or the cycle times of your bilge pumps, Vitals will monitor your vessel's critical systems and alert you when any piece of monitored equipment is outside of its defined running parameters. With Vitals, you can set early warning signals at thresholds relevant to the specific equipment that needs monitoring. This improves the accuracy of alarms and avoids nuisance notifications. When an alarm is activated, the Vitals menu will accurately pinpoint exactly what the alarm pertains to, and corrective action can be taken immediately, with no wasted downtime trying to figure it out.

Vitals is designed to suit a vessel of any size, and is easy and intuitive to set up and configure. Most importantly, Vitals offers an early warning system that can prevent an otherwise simple problem from turning into an expensive repair, downtime, and the loss of use and enjoyment of your vessel. Enjoy your voyage knowing that you are protecting your investment *and* protecting the safety of those on board with Vitals.

Features

- Capacitive colour touch screen
- NMEA 2000, NMEA 0183, digital, analog & frequency inputs
- Eight digital inputs
- Four 0-32 volt DC analog inputs
- Two additional analog input channels
- Two frequency inputs
- Smart Temperature bus can connect up to twelve temperature sensors
- One programmable solid state relay output
- Optional input expansion modules are available

Benefits

- Easy & intuitive to set up and configure
- Highly configurable (can monitor anything)
- SMART functions (will customize your warning thresholds & alarms)
- Full featured engine monitoring
- Monitors battery voltage, oil pressure, water temperature, turbo boost, transmission pressure and much more
- Also monitors tank levels with standard tank level float sensors
- Measures RPM on two engines
- Integrated alarm speaker and also capable of visual alarms (Strobe light)
- Temperature sensors can measure alternators, pumps, hydraulic tanks and engine compartment

POWER & CONTROL

i7700 ELECTRONIC ENGINE CONTROL

The simple to install i7700 electronic control system replaces the existing mechanical control system. Why wrestle with your mechanical controls when you can have the benefits of electronic controls for a fraction of the cost of a new engine.

**EXCEEDINGLY
RESPONSIVE & ROBUST**

**ALL-IN-ONE
ACTUATOR HOUSING**

**SINGLE OR TWIN
ENGINE APPLICATIONS**



- Electronics █
- Trolling Motors █
- Instruments █
- Electrical █
- Lighting █
- Anchor & Dock █
- Safety █
- Steering, Controls** █
- Pumps █
- Fuel System █
- Seating & Pedestals █
- Trailering █
- Tops & Covers █
- Perform. █
- Propellers █
- Engine & Care █
- Cleaning & Care █
- Paint & Paint Acc. █
- Fun & Flotation █
- Topside Acc. █
- Cockpit & Deck █
- Hardware, Fasteners █
- Camouflage █
- Misc. █
- Comm. █

Mobile living made easy.



The i7700 actuator contains both the shift and throttle actuator within one compact housing and are not only powerful enough to manage the shift and throttle functions on the most extreme applications, they are also exceedingly responsive and robust. The actuators are linked to the control heads via a single 1/4" (6mm) CANbus cable making cable routing incredibly easy. In addition, the i7700 actuators have a mechanical back up "get home" feature which allows simple manual control should the need arise.

FEATURES

- Two cable actuators in a single chassis for complete shift and throttle control
- Utilizes automotive high speed CAN network (250 kbps)
- Maximum programmable cable travel: 3.14" (80 mm)
- Maximum load capability: 135 lbs [600 N]
- Maximum cable speed: 4.72 in/s [120 mm/s]
- Unit weight: 15 lbs [6.75 kg]
- Programmable home position
- Standard or customizable throttle curves forward and reverse
- Compatible with the Xtreme family of control cables (CCX633XX series)
- Dual redundant position sensing on all moving components
- Rugged electronics for 12 VDC applications
- Integrated neutral start protection (NSP) switch
- Low backlash position control
- Meets or exceeds ABYC, CE, ISO and SAE electrical and environmental requirements
- RPM input: NMEA 2000 or analog pulse compatible
- User settable trolling mode
- Single lever operation syncs both engine RPM's
- Control head features universal trim switch model built into port handle
- Independent trim switches available (dash mount kit HA5491)
- Maximum of three control heads per vessel
- Single or twin engine applications
- Override feature provides simple shift and throttle emergency engagement

NOTE: Requires Setup Tool EPSK1207 for installation.

ENVIRONMENTAL

Operating Temperature
-18°C to +77°C [ISO 25197]

Storage Temperature
-40°C to +85°C [ISO 25197]

Corrosion Resistance
300 hrs. salt spray [ASTM B117]

Water Ingress Protection
IPX7 [IEC 60529]

Random Vibration
0.0284 g²/Hz [ABYC P-24]

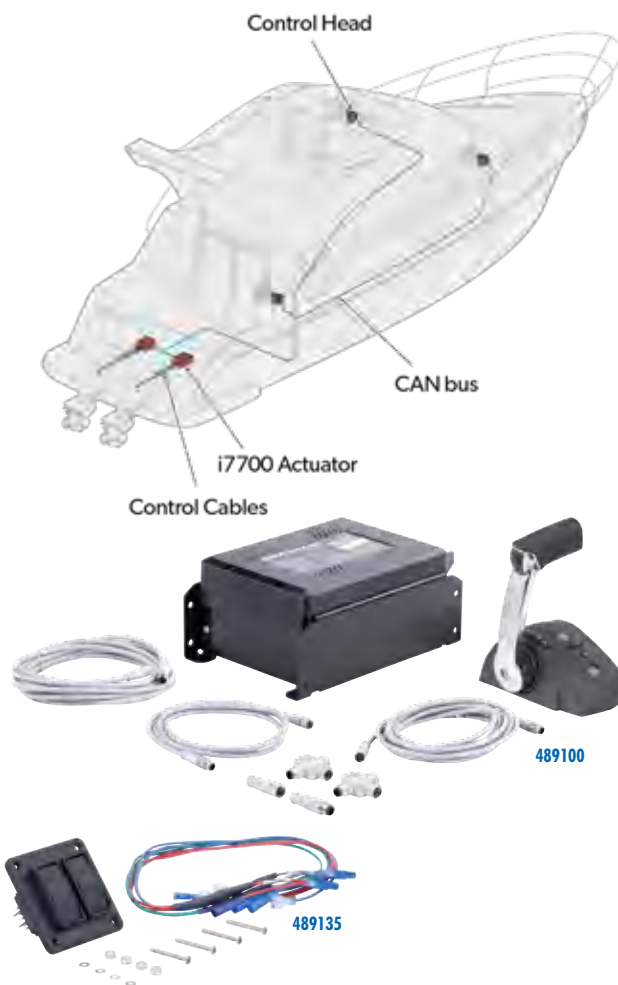
Resonant Vibration
1G zeropeak, 20-2000 Hz [ABYC P-24]

Mechanical Shock
50 G, 11 m-sec half-sine shape [ISO 25197]

Ignition Protection
SAEJ-1171

Meets EN60945 electromagnetic compatibility requirement

EXAMPLE OF I7700 ACTUATOR APPLICATION.



BASE SYSTEMS - SINGLE STATION KIT

Order No.	Mfg. No. / Description	List Price	
489100	(I7711) Single Engine	\$3,235.29	FO-0746220

ACCESSORIES

Order No.	Mfg. No. / Description	List Price	
489135	(HA5491) Dual Trim Switch Panel	\$436.99	FO-9850300
489140	(EPSK1207) EST Display Setup Tool	\$1,208.59	FO-1064800

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.



BETTER CONTROL OF THE BOAT IN ALL APPLICATIONS

i7700 SYSTEMS

TOOL REQUIRED TO SET UP SYSTEM	KIT PART #	EST DISPLAY SETUP TOOL FOR CONFIGURATION (EPSK1207)			
		i7711 SINGLE ENGINE	i7751 SINGLE ENGINE WITH TRIM	i7712 DUAL ENGINE	i7752 DUAL ENGINE WITH TRIM
BASE SYSTEMS – SINGLE STATION KITS					
ACTUATORS					
Actuator, i7700 Universal	AC7700	1	1	2	2
CONTROL HEAD KITS					
Single Top Mount, Control Head Kit	CH6810NT	1	-	-	-
Single Top Mount, Control Head Kit, with Trim	CH6810	1	-	-	-
Dual Top Mount Control Head Kit	CH6800NT	-	-	1	-
Dual Top Mount Control Head Kit, with Trim	CH6800	-	-	-	1
HARNESSES/TEES					
NMEA Communication Kit (2 tees, 1 male and 1 female terminator)	CM20001	1	1	1	1
Single CanBus Tee	CM10060	-	-	1	1
Micro C Ext, M-F (6ft CAN bus harness)	CM10006	1	1	1	1
Micro C Ext, M-F (12ft CAN bus harness)	CM10012	1	1	1	1
Micro C Ext, M-F (20ft CAN bus harness)	CM10020	1	1	1	1
MANUALS					
Book # 79 i7700 User Manual (stand alone)	710465	1	1	1	1
Book # 77 i7700 Installation Manual	710351	1	1	1	1
Quick Ref. – Single	710038	1	1	-	-
Quick Ref. – Dual	710013	-	-	1	1
OPTIONAL ACCESSORIES					
Dual trim switch panel for independent operation	HA5491	-	-	-	-
ADDITIONAL STATIONS KITS					
KIT PART #	EST DISPLAY SETUP TOOL FOR CONFIGURATION (EPSK1207)				
	i7711A SINGLE ENGINE	i7751A SINGLE ENGINE WITH TRIM	i7712A DUAL ENGINE	i7752A DUAL ENGINE WITH TRIM	
CONTROL HEAD KITS					
Single Top Mount, Control Head Kit	CH6810NT	1	-	-	-
Single Top Mount, Control Head Kit, with Trim	CH6810	-	1	-	-
Dual Top Mount Control Head Kit	CH6800NT	-	-	1	-
Dual Top Mount Control Head Kit, with Trim	CH6800	-	-	-	1

CONTINUED ON NEXT PAGE

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailer
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

BETTER CONTROL OF THE BOAT IN ALL APPLICATIONS



Steering & Controls

HARNESSES/TEES				
Single Tee	CM10060	1	1	1
Micro C Ext, M-F (30ft CAN bus harness)	CM10030	1	1	1

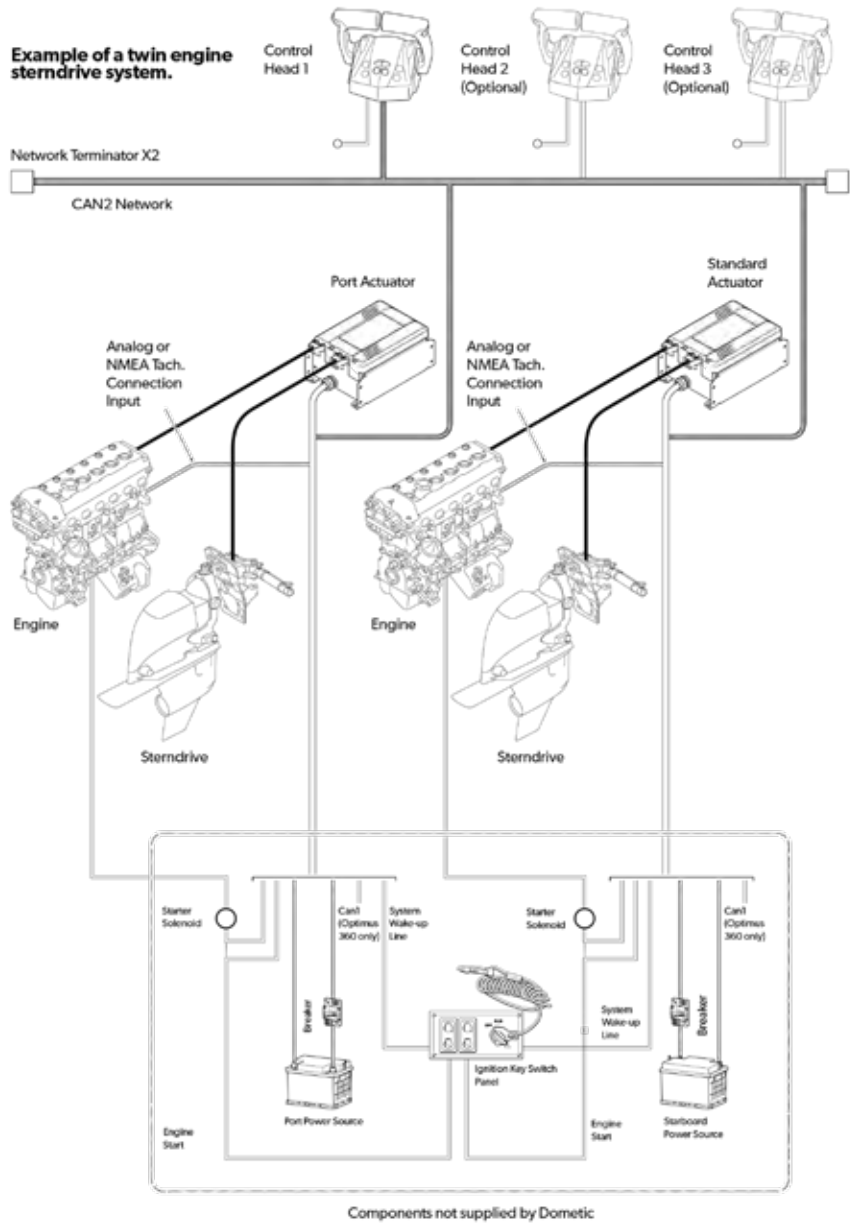
ADDITIONAL NMEA HARNESSES LENGTHS	
PART NO.	LENGTH (FEET)
CM10001	1'
CM10003	3'
CM10006	6'
CM10009	9'
CM10012	12'
CM10020	20'
CM10030	30'

SPECIFICATIONS

LOAD VS. ACTUATION SPEED	
LOAD (LBS)	SPEED (IN/SEC)
0	4.72
40	3.14
135	0.787



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- Electronics
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POWER & CONTROL

i7800 ELECTRONIC CONTROL

The i7800 electronic control system combines advanced electronics with over 50 years of mechanical engine control "know-how" into a system that's the perfect enhancement to nearly any boat/engine combination.

UP TO 3 STATIONS
KITS AVAILABLE FOR 2ND OR 3RD STATIONS

TROLLING MODE
ABILITY TO INCREASE THROTTLE
RESOLUTION FOR IMPROVED CONTROL

ENGINE RPM SYNCHRONIZATION
CONTROL CRUISE SPEED WITH
SINGLE LEVER OPERATION



Mobile living made easy.



- Electronics
- Trolling Motors
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- Misc.
- Comm.

Dometic i7800 Electronic Engine Controls

Available in single or twin handle with or without universal trim. System kits are available based on the number of engines to be controlled and for single station applications. When a second or third station is needed, kits are available that include the parts for that 2nd or 3rd station. Connectivity is simply made via the CANbus harness. Additional stations can be added by selecting from the 'Additional Stations' list.

Control Head Styling

The control heads are ergonomically designed for maximum comfort and control. Available with or without universal trim switches, they each also include easily adjustable drag and detent adjustment pins to suit the operator's preference.

Applications

- Suitable for all engines with mechanical shift and mechanical throttle.
- Single or twin engine applications.
- Inboard, IO and Outboard.
- Supports up to three stations.

Environmental

- Operating temperature: -18°C to +77°C [ISO 25197]
- Storage temperature: -40°C to +85°C [ISO 25197]
- Corrosion resistance: 300 hours salt spray [ASTM B117]
- Water ingress protection: IPX7 [IEC 60529]
- Random vibration: 0.0284 g²/Hz [ABYC P-24]
- Resonant vibration: 1 G zero-peak, 20-2000 Hz [ABYC P-24]
- Mechanical shock: 50 G, 11 m-sec half-sine shape [ISO 25197]
- Ignition protection: SAEJ-1171
- Meets EN60945 electromagnetic compatibility requirement

Features

- Two cable actuators in a single chassis for complete shift and throttle control
- Utilizes automotive high speed CAN network (250 kbps)
- Maximum programmable cable travel: 3.14" (80 mm)
- Maximum load capability: 135 lbs [600 N]
- Maximum cable speed: 4.72 in/s [120 mm/s]
- Unit weight: 15 lbs [6.75 kg]
- Programmable home position
- Standard or customizable throttle curves forward and reverse
- Compatible with SeaStar's Xtreme family of control cables (CCX633XX series)
- Dual redundant position sensing on all moving components
- Rugged electronics for 12 VDC applications
- Integrated neutral start protection (NSP) switch
- Low backlash position control

BASE SYSTEMS - SINGLE STATION KITS

Order No.	Mfg. No. / Description	List Price	
489054	(i7811) Chrome Single Engine	\$3,835.99	Z0-3986030
489078	(i7851) Chrome Single Engine with Trim	\$3,951.99	Z0-1916130
489092	(i7812) Chrome Dual Engine	\$6,393.99	Z0-8841150
489110	(i7852) Chrome Dual Engine with Trim	\$7,463.19	F0-3242250

ADDITIONAL STATIONS KITS

Order No.	Mfg. No. / Description	List Price	
489115	(i7811A) Chrome Single Engine	\$1,948.59	F0-1046310
489080	(i7851A) Chrome Single Engine with Trim	\$1,785.99	Z0-5658310
489104	(i7812A) Chrome Dual Engine	\$1,933.99	Z0-8560510
489125	(i7852A) Chrome Dual Engine with Trim	\$2,317.19	F0-3022610

ACCESSORIES

Order No.	Mfg. No. / Description	List Price	
489135	(HA5491) Dual Trim Switch Panel	\$436.99	F0-9850300
489140	(EPSK1207) EST Display Setup Tool	\$1,208.59	F0-1064800



- Meets or exceeds ABYC, CE, ISO and SAE electrical and environmental requirements
- RPM input: NMEA 2000 or analog pulse compatible
- User settable trolling mode
- Single lever operation syncs both engine RPM's
- Control head features universal trim switch model built into port handle
- Independent trim switches available (dash mount kit HA5491)
- Maximum of three control heads per vessel
- Single or twin engine applications
- Override feature provides simple shift and throttle emergency engagement.

NOTE: Requires Setup Tool EPSK1207 for installation.

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DOMETIC OUTDOOR

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailer

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

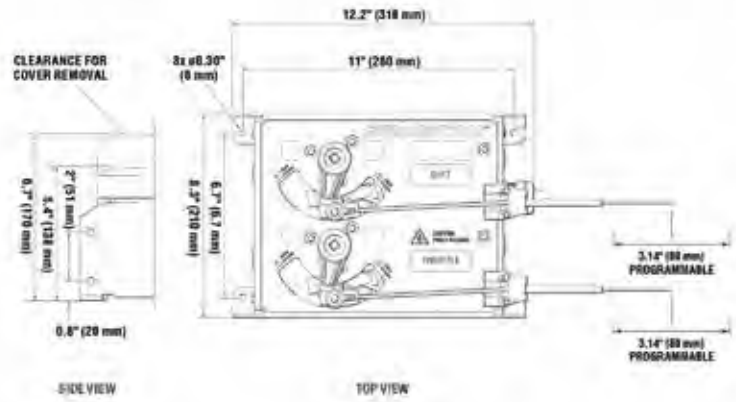
Comm.

DIMENSIONAL DATA

Shift and Throttle Actuators

The i7800 actuator contains both the shift and throttle actuator within one compact housing and are not only powerful enough to manage the shift and throttle functions on the most extreme applications, they are also exceedingly responsive and robust.

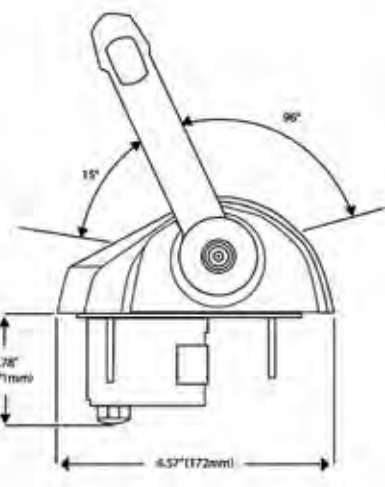
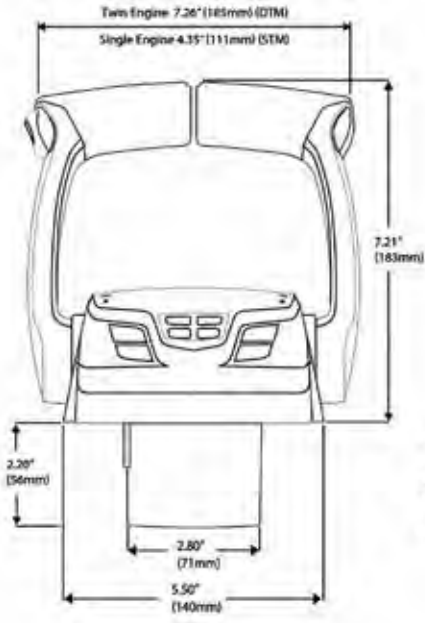
The actuators are linked to the control heads via a single 1/4" (6mm) CANbus cable making cable routing incredibly easy. In addition, the i7800 actuators have a mechanical back up "get home" feature which allows simple manual control should the need arise.



- Electronics
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Steering, Controls

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- Comm.



i7800 ELECTRONIC ENGINE CONTROL

TOOL REQUIRED TO SET UP SYSTEM

Requires EST Display setup tool for configuration (EPSK1207)

Base Systems – Single Station Kits	Kit Part #	i7811 Chrome Single Engine	i7811-BE Black Single Engine	i7851 Chrome Single Engine w/ Trim	i7851-BE Black Single Engine w/ Trim	i7812 Chrome Dual Engine	i7812-BE Black Dual Engine	i7852 Chrome Dual Engine w/ Trim	i7852-BE Black Dual Engine w/ Trim
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ACTUATORS

Actuator, i7700 Universal	AC7700	1	1	1	1	2	2	2	2
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CONTROL HEAD KITS

Single Top Mount, Control Head Kit	CH7810NT	1	-	-	-	-	-	-	-
Single Top Mount, Control Head Kit, black	CH7810NT-BE	-	1	-	-	-	-	-	-
Single Top Mount, Control Head Kit, with Trim	CH7810	-	-	1	-	-	-	-	-
Single Top Mount, Control Head Kit, with Trim, Black	CH7810-BE	-	-	-	1	-	-	-	-
Dual Top Mount Control Head Kit	CH7800NT	-	-	-	-	1	-	-	-
Dual Top Mount Control Head Kit, Black	CH7800NT-BE	-	-	-	-	-	1	-	-
Dual Top Mount Control Head Kit, with Trim	CH7800	-	-	-	-	-	-	1	-
Dual Top Mount Control Head Kit, with Trim, Black	CH7800-BE	-	-	-	-	-	-	-	1

HARNESSES/TEES

NMEA Communication Kit (2 tees, 1 male and 1 female terminator)	CM20001	1	1	1	1	1	1	1	1
Single CanBus Tee	CM10060	-	-	-	-	1	1	1	1
Micro C Ext, M-F (6ft CAN bus harness)	CM10006	1	1	1	1	1	1	1	1
Micro C Ext, M-F (12ft CAN bus harness)	CM10012	1	1	1	1	1	1	1	1
Micro C Ext, M-F (20ft CAN bus harness)	CM10020	1	1	1	1	1	1	1	1

MANUALS

Book # 79 i7700 User Manual (stand alone)	710465	1	1	1	1	1	1	1	1
Book # 77 i7700 Installation Manual	710351	1	1	1	1	1	1	1	1
Quick Ref. – Single	710038	1	1	1	1	-	-	-	-
Quick Ref. – Dual	710013	-	-	-	-	1	1	1	1

OPTIONAL ACCESSORIES

Dual trim switch panel for independent operation	HA5491	-	-	-	-	-	-	-	-
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Additional Stations Kits

Kit Part #	i7811A Chrome Single Engine	i7811A-BE Black Single Engine	i7851A Chrome Single Engine w/Trim	i7851A-BE Black Single Engine w/ Trim	i7812A Chrome Dual Engine	i7812A-BE Black Dual Engine	i7852A Chrome Dual Engine w/Trim	i7852A-BE Black Dual Engine w/ Trim
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CONTROL HEAD KITS

Single Top Mount, Control Head Kit	CH7810NT	1	-	-	-	-	-	-
Single Top Mount, Control Head Kit, Black	CH7810NT-BE	-	1	-	-	-	-	-
Single Top Mount, Control Head Kit, with Trim	CH7810	-	-	1	-	-	-	-
Single Top Mount, Control Head Kit, with Trim, Black	CH7810-BE	-	-	-	1	-	-	-
Dual Top Mount Control Head Kit	CH7800NT	-	-	-	-	1	-	-
Dual Top Mount Control Head Kit, Black	CH7800NT-BE	-	-	-	-	-	1	-
Dual Top Mount Control Head Kit, with Trim	CH7800	-	-	-	-	-	-	1
Dual Top Mount Control Head Kit, with Trim, Black	CH7800-BE	-	-	-	-	-	-	-

HARNESSES/TEES

Single Tee	CM10080	1	1	1	1	1	1	1
Micro C Ext., M-F (30ft CAN bus harness)	CM10030	1	1	1	1	1	1	1

ADDITIONAL NMEA HARNESS LENGTHS

Part No.	Length (feet)	Part No.	Length (feet)
CM10001	1'	CM10012	12'
CM10003	3'	CM10020	20'
CM10006	6'	CM10030	30'
CM10009	9'		

ZF Mathers MicroCommander Electronic Engine Controls



455231



455228



455239

- Electronics █
- Trolling Motors █
- Instruments █
- Electrical █
- Lighting █
- Anchor & Dock █
- Safety █
- Steering, Controls █
- Pumps █
- Fuel System █
- Seating & Pedestals █
- Trailering █
- Tops & Covers █
- Perform. █
- Propellers █
- Engine & Care █
- Cleaning & Care █
- Paint & Paint Acc. █
- Fun & Flotation █
- Topside Acc. █
- Cockpit & Deck █
- Hardware, Fasteners █
- Camouflage █
- Misc. █
- Comm. █

• Cost competitive with hydraulic systems and the price is lower than pneumatic systems.

CONTROLS ANY ENGINE:

- Gas or diesel inboards, I/O's or outboards.
- Dual control available for twin engine boats.
- Easy to install or retrofit.
- Step-by-step instructions are available.
- Each system consist of: One actuator per engine, one single or dual control lever per station, one multiconductor cable per station, per engine, one power unit: 12 VDC 10 amp circuit per shaft and standard 33C push-pull cable and brackets for throttle and clutch connections.

TOP MOUNT CONTROLS

Order No.	Mfg. No. / Description	List Price	
455239	(3341002030) Black T Handle, Single	\$477.75	DO-0228300
455228	(3341002007) Black with Chrome Lever, Dual	\$794.85	DO-8853600
455234	(3341004003) Black with Chrome Lever	\$1,527.75	DO-0222210
455231	(3341004004) Chrome, Dual	\$1,717.80	DO-4247310

ZF Mathers Control Actuator - MicroCommander



• Order connection cable and 33C type cables separately.

Order No.	Mfg. No. / Description	List Price	
455214	(3340004073)	\$3,180.45	DO-6344520

ZF Mathers Control Accessories



455484



Order No.	Mfg. No. / Description	List Price	
455484	(70129067) Circuit Breaker, 10 amp	\$90.18	A0-8109000
698021	10 amp Circuit Breaker	\$85.49	F0-4895000

MULTI-STATION CONTROL:

- One to five stations can be installed per actuator and stations can be added at any time.

EASY STATION TRANSFER:

- Only one station is active at a time.
- However, you can move from station to station & take control simply by pushing a transfer button.
- Each station has one.

CONTROL INDICATOR LIGHTS

- When the light is on, it indicates that particular station has control.
- The light at all other stations will be off.

HIGH AND LOW IDLE SETTINGS:

- Low is ideal for slow trolling.
- High, which is adjustable to as much as 10% of the full speed range, enhances starting and warming up the engine or docking and maneuverability in tight quarters.

BUILT-IN DENTENTS:

- These indicate "Neutral", "Ahead" and "Astern" lever positions.
- They are spring loaded, rolling detents that last a lifetime and provide a firm, smooth feel.

DOUBLE INTERLOCKED CONTROLS:

- To start the engine, operator must have controls in "on" mode, lever must be in neutral and it can be moved thru the ahead speed range to start and warm-up engine without engaging the clutch.
- Fast reversals are sequenced to protect the drive train and engine.

ENGINE ROOM ACTUATOR:

- The actuator is located in the engine area, is water resistant against water spray and can be mounted in any attitude.
- It houses the electronics and two servo motors, one for throttle and one for shift.
- It is connected to the engine throttle and shift levers by short 33C type cables.
- It is connected to the controls by an 8-conductor shielded electric cable.

ZF Mathers Accessories



Order No.	Mfg. No. / Description	List Price	
483317	(AT11-1001) Air Treatment Component Service Kit	\$195.00	B0-0557100
483367	(AD12-5001) Air Drive Service Kit	\$273.77	B0-9364200
455407	(10232) Regulator	\$515.00	B0-0536400
483521	(PA3-4201) Actuator Service Kit	\$256.29	B0-6603200
453565	(SB06595) Alignment Disc	\$85.00	A0-0058000
453574	(SB12261) Retractor Pin Kit	\$594.14	A0-4149500
453578	(SB07385) Brake Tool	\$60.00	A0-0006000
483468	(MG20-0200) Gauge Assembly, 0-100 Speed	\$195.00	B0-0557100
483470	(MG21-0200) Gauge Assembly, 0-200 Ahead	\$195.00	B0-0557100
483482	(MG21-0300) Gauge Assembly, 0-200 Astern	\$195.00	B0-0557100
483494	(MG21-0400) Gauge Assembly, 0-200 Brake	\$195.00	B0-0557100
483418	(CH5-5406) Overhaul Kit	\$401.99	B0-9716300
483444	(CI-1074) Overhaul Kit Booster	\$320.00	B0-0088200

ZF Mathers 8-Conductor Connection Cables



- Sold per foot.

Order No.	Mfg. No. / Description	List Price	
455252	(XG01051402) Length 500'	\$2.25/ft.	B0-3020000
455249	(20-8CSTRCOA) Length 1,000'	\$999.99	B0-9999800

ZF Mathers CruiseCommander

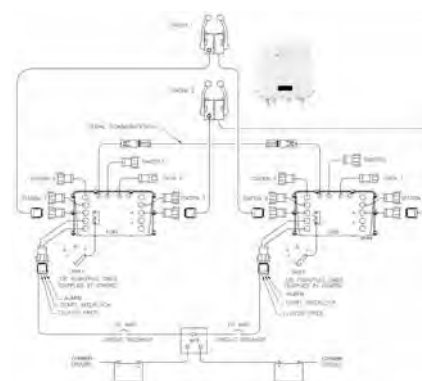


Contact Your Salesman or Donovan Marine
for Your Specific Needs.

- CruiseCommand is a revolutionary control system for vessels with electronic engines and solenoid gears.
- CruiseCommand offers single lever control, four station capability and easy station transfer, station-in-command indicators, speed/shift sequence protection, neutral start interlock, high and low idle speed and audible and visual indicators.
- CruiseCommand features plug-in connections and an external keypad setup.
- The watertight enclosure never needs opening, making this a maintenance-free system.
- Built-in features include an LED troubleshooting display, synchronization and troll.
- Plugable connections make installation nearly effortless.
- Determine cable length, engine and gear requirements, then plug in the system.
- Customized kits are provided to meet specific needs for production builders.
- An external keypad setup on the CruiseCommand enclosure makes configuring the controls easier than ever.
- Punch in a code and the processor makes the correct adjustments.
- Configurations can be changed at any time to meet new specifications.
- CruiseCommand's self-diagnostic software operates a multifunction LED display located on the front panel of each processor.
- This display allows for uncomplicated checking of battery voltage and clutch status for each engine, lever positions on each control head and multi-station transfer button status.
- CruiseCommand packs a lot of features into a small processor, including built-in troll and engine synchronization

Order No.	Mfg. No. / Description	List Price	
455205	(3340002001) Control Processor	\$2,799.30	D0-4493220
700434	(APS-70) Automatic Power Selector	\$207.09	F0-6944100

ZF Mathers 9000 Series MicroCommander and ClearCommand



Example of Twin Screw -
2 Station Electronic Throttle Mechanical Shift

Note: Multi Engine applications, consult factory for specific needs and requirements.

- A single-lever electronic control system designed for precise, instant control of mechanical engines and gears on yachts and commercial vessels.
- Designed for vessels utilizing mechanical and electronic throttle and shift combinations.
- Standard features on both products include an LED display which utilizes self diagnostic software.
- The LED display codes for setup or system status.
- All system functions are incorporated on one circuit board, allowing easy customization of features.
- Increased vessel efficiency is achieved with engine synchronization, standard on every 9000 Series processor.
- One lever synchronization is programmed into all processors and allows multi-engine control with one lever.
- The circuit board is conformal coated to protect against humidity, contamination, dust and dirt.
- Meets EMC, CE and current environmental standards as well as UL 1500 with built in ignition protection.
- IP rating 44.

Requirements:

- (2) Power/Start Interlock Wire Harness
- (4) Control Head Wire Harness
- (1) Serial Wire Harness - On Twin Engine Applications
- (2) Tachometer Feedback Wire Harness - Synch Applications Only
- (2) 92102 Processors
- (1) APS - Automatic Power Selector
- (2) 10 AMP Circuit Breaker
- (2) 33C Push-Pull Cable (Supplied by Others)
- (2) Throttle Harness

Order No.	Mfg. No. / Description	List Price	
455219	(3340004007) Engine, Electronic, Clutch, Solenoid	\$3,039.75	C0-9738520
455229	(3340004048) Engine, Servo 2, Clutch, Servo 1	\$3,329.55	D0-4636620
645756	(E1H-H500) Pressure Switch	\$392.98	C0-3043300
455217	(3340004028) Electronic Throttle, Mechanical	\$3,199.98	D0-8995520
455478	(3340004082) Electronic Throttle/Shift	\$5,793.39	D0-1743640

ZF Mathers Accessories

Order No.	Mfg. No. / Description	List Price	
483503	(14512) Transfer Panel Dimmer ABS	\$490.00	A0-0009400
483519	(PA1-1501) Positioner Service Kit	\$128.15	B0-4351100
483533	(PA3-4100) Service Kit	\$555.00	B0-0599400
483537	(RV5-1500-2) Relay Valve	\$1,200.00	B0-0008010
483545	(RV5-1601) Relay Valve Service Kit	\$65.00	B0-0585000
483557	(RV8-1601) Relay Valve Service Kit	\$93.29	B0-6938000
483560	(SB20-1601) Repair Kit	\$873.79	B0-1468700
483569	(SB06652) Reline Kit, Caliper	\$858.41	B0-7527700
483570	(SB12260) Piston Kit	\$541.79	B0-1678400

Order No.	Mfg. No. / Description	List Price	
483608	(SRK-QE45) Quick Exhaust Service Kit	\$60.00	B0-0045000
483646	(VS2-1001) Service Kit for Shuttle	\$26.49	B0-4832000
483634	(VS2-1000) Shuttle Valve	\$96.09	B0-8468000
483329	(AD12-2101) Spool Valve Clutch	\$503.99	B0-9535400
483420	(CI-1038) Spool Valve Service Kit	\$60.00	B0-0045000
483610	(SV2-3501) Spool Valve Service Kit	\$55.92	B0-3305000
483331	(AD12-2201) Spool Valve Supply	\$576.67	B0-0091500
455220	(3340004013) ClearCommand - Elect Eng, Sol Gear	\$3,197.25	C0-6671720

Electronics

Trolling
Motors

Instruments

Electrical

Lighting

Anchor
& Dock

Safety

Steering,
Controls

Pumps

Fuel
SystemSeating &
Pedestals

Trailer

Tops &
Covers

Perform.

Propellers

Engine
& CareCleaning
& CarePaint &
Paint Acc.Fun &
FlotationTopside
Acc.Cockpit
& DeckHardware,
Fasteners

Camouflage

Misc.

Comm.

Design Data Sheet - Hydraulic Steering System



Company Name: _____

Vessel Name: _____

Vessel Type: Tug Model Bow Push Boat Ferry
 Passenger Vessel Supply Vessel Crewboat
 Fishing Vessel Other: _____

Electronics Length: _____ Width: _____ Draft: _____

Trolling Motors Speed (Knots) Ahead: Astern: _____

Instruments Rudder Speed (Hardover to Hardover) Steering: _____ SEC Flanking _____ SEC

Electrical Rudder Angle Max: Steering: _____ ° Flanking: _____ °

Lighting Propeller Size: _____ Kort Nozzles (Y/N): _____

Anchor & Dock Engine Make: _____ Model: _____ HP: _____ Qty.: _____

Safety Electric Power Available: _____ VAC _____ Phase _____ VDC

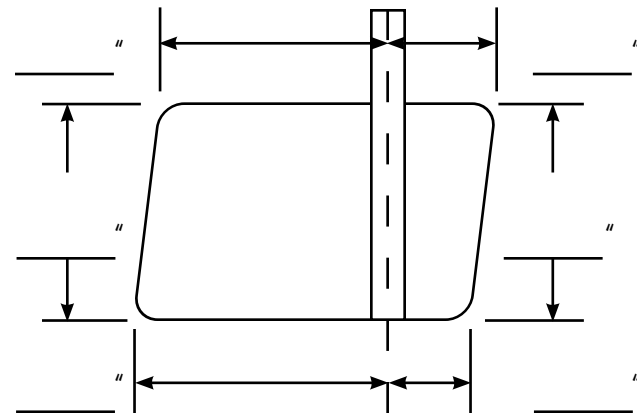
Steering, Controls

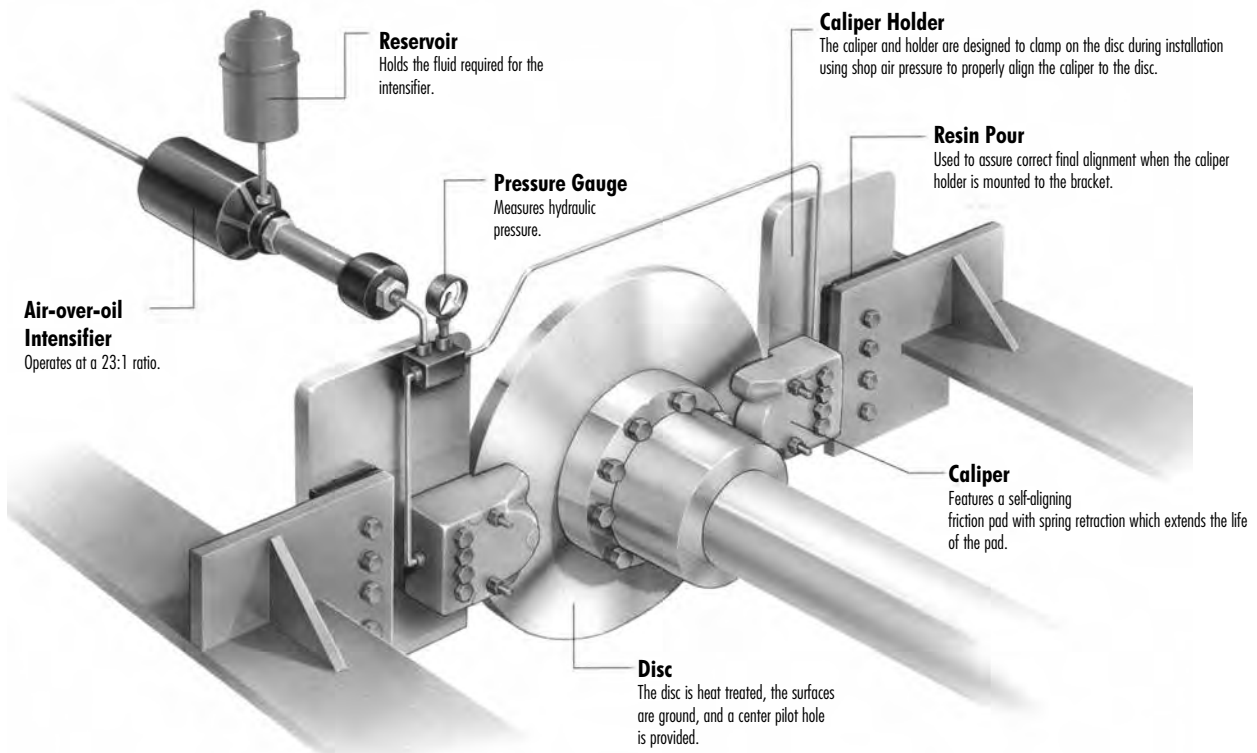
Steering Controls Desired:

Type and # of Stations - Fill in Quantities Below

	Station 1	Station 2	Station 3
Pumps <input type="checkbox"/>			
Fuel System <input type="checkbox"/>			
Seating & Pedestals <input type="checkbox"/>			
Trailing <input type="checkbox"/>			
Tops & Covers <input type="checkbox"/>			
Perform. <input type="checkbox"/>			
Propellers <input type="checkbox"/>			
Engine & Care <input type="checkbox"/>			
Cleaning & Care <input type="checkbox"/>			
Paint & Paint Acc. <input type="checkbox"/>			
Fun & Flotation <input type="checkbox"/>			
Topside Acc. <input type="checkbox"/>			
Cockpit & Deck <input type="checkbox"/>			
Hardware, Fasteners <input type="checkbox"/>			
Camouflage <input type="checkbox"/>			
Misc. <input type="checkbox"/>			
Comm. <input type="checkbox"/>			

Steering Rudders: Qty: _____





Price On Request

- Mathers ShaftBrakes are designed to provide maximum drive train protection and faster, more precise maneuvering and control.
- Mathers ShaftBrakes are recommended for use with any marine propulsion system using engines over 500 horsepower with reduction ratios of 4:1 or greater.

Brake Model	Disc Size	Number of Calipers	Torque
SB30-06612	1-3/8" x 24" Diameter	1	110,000 lbs.
SB31-06613	1-3/8" x 24" Diameter	2	220,000 lbs.
SB32-07390	1-3/8" x 30" Diameter	1	145,000 lbs.
SB32-06614	1-3/8" x 30" Diameter	2	290,000 lbs.
SB33-06615	1-3/8" x 36" Diameter	2	355,000 lbs.
SB36-07638	1-3/8" x 42" Diameter	2	425,000 lbs.
SB34-07126	1-3/8" x 36" Diameter	3	530,000 lbs.
SB35-06616	1-3/8" x 36" Diameter	4	710,000 lbs.
SB36-06617	1-3/8" x 42" Diameter	4	850,000 lbs.
SB37-06618	1-3/8" x 48" Diameter	4	990,000 lbs.
SB38-07454	1-3/8" x 54" Diameter	4	1,200,000 lbs.
SB37-06619	1-3/8" x 48" Diameter	6	1,500,000 lbs.

CONSIDER THESE BENEFITS:

- Reduces vessel maneuvering time. A vessel's forward velocity will slow faster with a stopped propeller.
- Added life for reduction gears and clutches. ShaftBrakes stop the propeller shaft with every change of direction, automatically. ShaftBrakes absorb the load which would normally be transmitted to the engaging clutch, thus extending clutch life.
- When used with Mathers propulsion controls, will help prevent engine stall. Certain types of marine engines tend to stall during high speed maneuvers or emergency reversals. Mathers ShaftBrakes and Mathers Controls can prevent that from happening.
- Superior to drum type brakes. Both installation and servicing are easier and calipers can be relined for considerably less cost than can drum brake components. Also, calipers do not have boots, which are costly to replace on drum brakes.
- Mathers propeller ShaftBrakes use hydraulic actuated calipers which are self-adjusting and spring retracting to alleviate unnecessary pad wear.
- A complete ShaftBrake package consists of the disc, caliper holder(s), caliper(s), and control kit.

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

Electronics

Trolling
Motors

Instruments

Electrical

Lighting

Anchor
& Dock

Safety

Steering,
Controls

Pumps

Fuel
SystemSeating &
Pedestals

Trailing

Tops &
Covers

Perform.

Propellers

Engine
& CareCleaning
& CarePaint &
Paint Acc.Fun &
FlotationTopside
Acc.Cockpit
& DeckHardware,
Fasteners

Camouflage

Misc.

Comm.

5027-H | HYDRAULIC
APPLIED CALIPER DISC BRAKE

KEY BENEFITS

Bronze &
stainless steel
constructionEasily changed
brake padsWell matched to
Kobelc's standard
range of 2"x4"
ventilated discs*Putting you in control.*

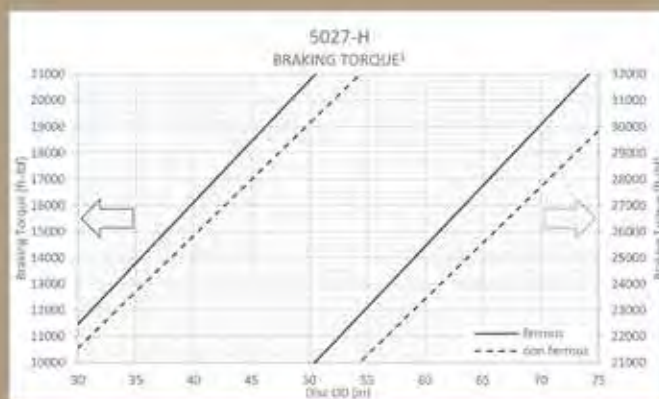
Constructed entirely of bronze and stainless steel, Kobelc's hydraulic applied disc brakes are built to last in the harshest, most corrosive conditions.

The brake features a shoe design which allows the brake pads to be easily and quickly changed while leaving the caliper in place.

Available with several options, these caliper disc brakes are well suited for service braking applications in the winches, pleasure craft and other light duty applications.

SPECIFICATIONS

Normal Force:	14,670 lbs	[65.3 KN]
Maximum Pressure:	1000 psi	[69 bar]
Port Size:	-4 ORB	
Actuator Volume:	3.9 in ³	[63 cc]
Temperature Range:	-40°F...+131°F	
	-40°C...+55°C	
Disc Thickness:	2 in	[50.8 mm]
Minimum Disc Diameter:	28 in	[711 mm]
Maximum Disc Diameter ² :	75 in	[1905 mm]
Pad Life:	4630 hp-hr	[3454 kw-hr]
Weight:	172 lbs	[78 kg]



¹ Values in this chart are theoretical and for reference only. They are based on properly bedded and burnished linings acting on a rotor at 20°C and manufactured to required specifications.

² Requires a minimum 5.12 in [130 mm] wide face.

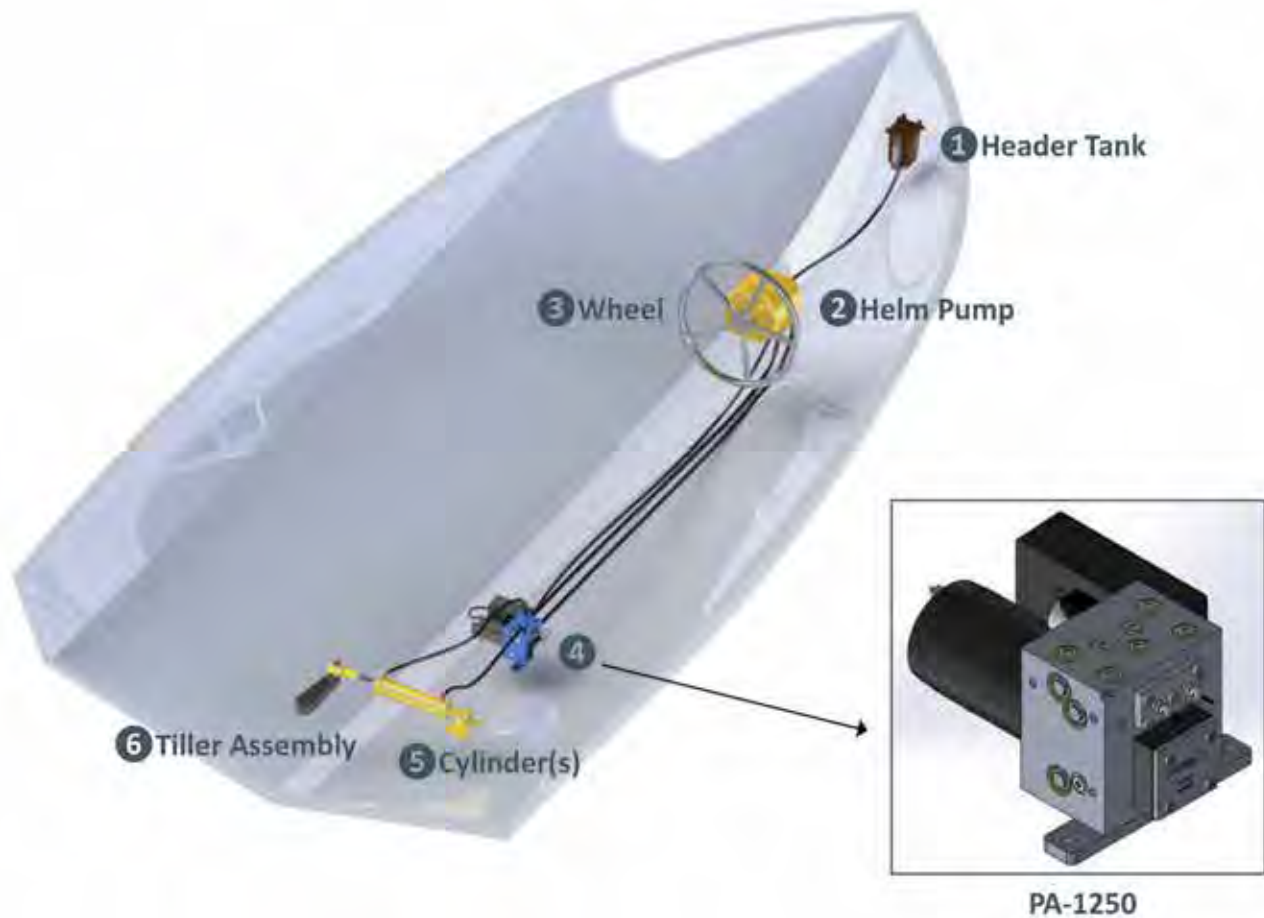
PA-1250 | ACCU-STEER POWER ASSIST STEERING (A Kobelt Product)

Key Features

- Designed for durability and reliability
- 12V or 24V options available
- Configurable to different pressure and flow requirements
- Automatically reverts to manual mode in the event of power loss

Key Benefits

- Fingertip steering to reduce operator fatigue
- Long lifecycle ensures lower cost of ownership
- Easy to install to upgrade an existing steering system (OEM or retrofit)
- Wiring harness included
- Added safety of automatically returning to manual mode in the event of a power loss
- Suitable for use with any autopilot



TYPICAL SYSTEM SUPPLY

Item	Component	Availability
1	Header Tank	Optional
2	Helm Pump	Required
3	Wheel	Optional
4	PA-1250	Required
5	Cylinder(s)	Required
6	Tiller Assembly	N/A on outboard installations

VARIOUS FLOW / PRESSURE CONFIGURATIONS AVAILABLE

Flow / Sec	Pressure
1.25 in ³ / 20.5 cm ³	1200 psi / 82.7 bar
1.88 in ³ / 30.8 cm ³	1000 psi / 68.9 bar
3.50 in ³ / 57.4 cm ³	700 psi / 48.3 bar

Other Flow/Pressure configurations are available upon request. Please contact Kobelt for details.

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

- Electronics
- Trolling Motors
- Instruments
- Electrical
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- Misc.
- Comm.

How to Measure Control Cables. Courtesy of Dometic Solutions



FIRST-TIME CONTROL CABLE INSTALLATIONS:

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 next whole foot and order that length cable(s).

Stern Drives and Inboards: Measure from control along unobstructed cable routing to shift and/or throttle connection. Round this dimension off to the next whole foot and order that length cable(s).

REPLACING AN EXISTING CABLE:

Measure the Existing Cable as Follows: Measure the cable from tip to tip in inches, and round up to next even foot. Order that length cable.

Dometic OMC Control Cables - 400 Series



- Drop-in replacement cables are engineered as replacements for original equipment cables. Cables use the existing connection components.
- Stainless steel and brass fittings.
- CC170 (400 Type) Pre-1979 OMC/Johnson/Evinrude with BRP/OMC Controls.

STANDARD REPLACEMENT CONTROL CABLES

- Suitable for most applications with short, simple cable routings.
- Uses stainless steel Lubri-Core core wire for smooth operation and long life (8" minimum bend radius).

Order No.	Length	List Price	Order No.	Length	List Price
648088	7'	\$52.79	648153	14'	\$57.89
648090	8'	\$52.19	648165	15'	\$58.89
648103	9'	\$53.09	648177	16'	\$59.79
648115	10'	\$53.99	648189	17'	\$60.69
648127	11'	\$55.39	648191	18'	\$61.69
648139	12'	\$55.99	M767-0900	19'	\$65.99
648141	13'	\$56.99	M767-0910	20'	\$67.99

Dometic OMC/Volvo Control Cables



- Drop-in replacement cables are engineered as replacements for original equipment cables. Cables use the existing connection components.
- Stainless steel and brass fittings.
- CCX214 (Volvo/OMC Cable) Volvo engines using BRP/OMC Side Mount Controls.

XTREME REPLACEMENT CONTROL CABLES

- Can be used in any boat.
- They are by far the best choice for long runs, twin stations or other difficult routings with multiple cable bends.
- Have a heavy jacket and the Xtreme splined, coated core element for maximum smoothness with minimal lost motion (4" minimum bend radius).

Order No.	Length	List Price	Order No.	Length	List Price
8020431	10'	\$79.09	8020436	15'	\$85.99
8020432	11'	\$80.59	8020437	16'	\$87.29
8020433	12'	\$81.99	8020438	17'	\$89.19
8020434	13'	\$83.39	8020439	18'	\$90.59
8020435	14'	\$84.69	8020440	20'	\$93.09

Dometic OMC Control Cables - 479 Series



- Drop-in replacement cables are engineered as replacements for original equipment cables. Cables use the existing connection components.
- Stainless steel and brass fittings.
- CC205 (479 Type) (1979 - Date) BRP/OMC/Johnson/Evinrude/Gale with BRP/OMC Controls.

STANDARD REPLACEMENT CONTROL CABLES

- Suitable for most applications with short, simple cable routings.
- Uses stainless steel Lubri-Core core wire for smooth operation and long life (8" minimum bend radius).

LIMITED QUANTITIES

Order No.	Length	List Price	Order No.	Length	List Price
648533	11'	\$51.99	648608	18'	\$57.99
648545	12'	\$51.99	648634	22'	\$81.99
648571	15'	\$55.99	648636	24'	\$85.99

XTREME REPLACEMENT CONTROL CABLES

- Can be used in any boat.
- They are by far the best choice for long runs, twin stations or other difficult routings with multiple cable bends.
- Have a heavy jacket and the Xtreme splined, coated core element for maximum smoothness with minimal lost motion (4" minimum bend radius).

Order No.	Length	List Price	Order No.	Length	List Price
495730	6'	\$54.69	4951620	15'	\$63.99
495742	7'	\$55.99	495475	16'	\$65.29
495444	8'	\$56.89	4951625	17'	\$66.59
495446	9'	\$57.79	495487	18'	\$67.79
495449	10'	\$57.69	495499	20'	\$70.29
4951610	11'	\$59.09	495502	22'	\$77.99
495451	12'	\$60.29	495506	26'	\$83.99
4951615	13'	\$61.49	495893	28'	\$87.99
495463	14'	\$62.79			

Uflex MACH14 Control Cables



- MACH 14 (for BRP).
- For BRP - Evinrude (OMC) engines manufactured from 1979 to date.
- High efficiency for smooth operation.
- High flexibility for reduced bend radius.
- Ideal for long complex cable routings.
- Stainless steel cables end fittings.
- High resistance blue outer jacket against abrasion, UV and chemicals.

Order No.	Length	List Price	Order No.	Length	List Price
8031310	8'	\$52.39	8031355	17'	\$64.19
8031315	9'	\$53.69	8031360	18'	\$65.49
8031320	10'	\$54.99	8031365	19'	\$66.79
8031325	11'	\$56.29	8031370	20'	\$68.09
8031330	12'	\$57.59	8031375	22'	\$70.79
8031335	13'	\$58.99	8031380	24'	\$73.39
8031340	14'	\$60.29	8031385	26'	\$75.99
8031345	15'	\$61.59	8031390	28'	\$78.69
8031350	16'	\$62.89	8031395	30'	\$81.29

Dometic Mercury/Mercruiser Control Cables - 600A Series



- Drop-in replacement cables are engineered as replacements for original equipment cables. Cables use the existing connection components.
- Stainless steel and brass fittings.
- CC179 - (600A Type) Mariner/Mercury/Mercruiser (1965 - Date); Force (1993 - Date) with Mercury controls. All Mariner engines with Mercury/Mariner controls (except pre-1993 40 HP and lower models). All 1993 - date Force (US Marine) with Force/US Marine/Mercury Controls.

STANDARD REPLACEMENT CONTROL CABLES

- Suitable for most applications with short, simple cable routings.
- Uses stainless steel Lubri-Core core wire for smooth operation and long life (8" minimum bend radius).

LIMITED QUANTITIES

Order No.	Length	List Price	Order No.	Length	List Price		
648723	14'	\$55.99	F0-9193000	648797	22'	\$75.99	F0-9135000
648735	15'	\$55.99	F0-9193000	648800	24'	\$79.99	F0-9955000
648785	20'	\$61.99	F0-9334000				

XTREME REPLACEMENT CONTROL CABLES

- Can be used in any boat.
- They are by far the best choice for long runs, twin stations or other difficult routings with multiple cable bends.
- Have a heavy jacket and the Xtreme splined, coated core element for maximum smoothness with minimal lost motion (4" minimum bend radius).

Order No.	Length	List Price	Order No.	Length	List Price		
495110	6'	\$54.29	F0-0083000	4951595	15'	\$64.29	F0-0054000
495122	7'	\$55.59	F0-1983000	495184	16'	\$65.49	F0-4854000
495152	8'	\$57.19	F0-3004000	4951600	17'	\$66.79	F0-5764000
495153	9'	\$58.09	F0-6604000	495196	18'	\$67.99	F0-9574000
495158	10'	\$59.99	F0-9504000	495209	20'	\$70.59	F0-1494000
4951585	11'	\$59.39	F0-7514000	495212	22'	\$77.19	F0-3045000
495160	12'	\$60.59	F0-1424000	495223	24'	\$79.79	F0-5855000
4951590	13'	\$61.79	F0-5234000	495235	26'	\$83.09	F0-6185000
495172	14'	\$63.09	F0-6144000	495247	30'	\$90.89	F0-2636000

Uflex Mercury Generation I Control Cables



- For Mercury, Mercruiser and Mariner over 50 HP.

MACH 5 - HIGH PERFORMANCE CONTROL CABLES

- High efficiency for smooth operation. High flexibility for reduced bend radius.
- Ideal for long complex cable routings.
- Maintenance free. Stainless steel cables end fittings.
- High resistance blue outer jacket against abrasion, UV and chemicals.

Order No.	Length	List Price	Order No.	Length	List Price		
8031400	8'	\$49.09	F0-6343000	8031445	17'	\$61.19	F0-3824000
8031405	9'	\$50.39	F0-7253000	8031450	18'	\$62.59	F0-1834000
8031410	10'	\$51.99	F0-9363000	8031455	19'	\$63.89	F0-2744000
8031415	11'	\$53.39	F0-7373000	8031460	20'	\$65.19	F0-3654000
8031420	12'	\$54.69	F0-8283000	8031465	22'	\$67.79	F0-5474000
8031425	13'	\$55.99	F0-9193000	8031470	24'	\$70.39	F0-7294000
8031430	14'	\$57.29	F0-0104000	8031475	26'	\$73.59	F0-1515000
8031435	15'	\$58.59	F0-1014000	8031480	28'	\$76.69	F0-8635000
8031440	16'	\$59.89	F0-2914000	8031485	30'	\$79.99	F0-9955000

C5 - STANDARD CONTROL CABLES

Order No.	Length	List Price	Order No.	Length	List Price		
3714232	22'	\$52.29	F0-0663000	3714233	24'	\$58.29	F0-0804000

Dometic Mercury/Mercruiser Generation II Control Cables



- Drop-in replacement cables are engineered as replacements for original equipment cables. Cables use the existing connection components.
- Stainless steel and brass fittings.
- CC189 (Gen II Type) Mariner/Mercury/Mercruiser and other engines using Mercury (2003 - Date) 4000 Series Controls.

STANDARD REPLACEMENT CONTROL CABLES

- Suitable for most applications with short, simple cable routings.
- Uses stainless steel Lubri-Core core wire for smooth operation and long life (8" minimum bend radius).

LIMITED QUANTITIES

Order No.	Length	List Price	Order No.	Length	List Price		
647612	12'	\$57.99	F0-9504000	647616	16'	\$61.99	F0-9334000
8020383	13'	\$59.99	F0-9914000	647618	18'	\$61.99	F0-9334000
647614	14'	\$59.99	F0-9914000				

XTREME REPLACEMENT CONTROL CABLES

- Can be used in any boat.
- They are by far the best choice for long runs, twin stations or other difficult routings with multiple cable bends.
- Have a heavy jacket and the Xtreme splined, coated core element for maximum smoothness with minimal lost motion (4" minimum bend radius).

Order No.	Length	List Price	Order No.	Length	List Price		
495250	6'	\$53.19	F0-3273000	495270	16'	\$66.09	F0-6264000
495252	7'	\$54.39	F0-7083000	495272	17'	\$67.39	F0-7174000
495254	8'	\$55.69	F0-8983000	495274	18'	\$68.69	F0-8084000
8020429	9'	\$56.99	F0-9893000	495276	19'	\$69.89	F0-2984000
495258	10'	\$58.29	F0-0804000	495278	20'	\$71.29	F0-0994000
495260	11'	\$59.69	F0-8714000	495282	22'	\$77.09	F0-6935000
495262	12'	\$60.99	F0-9624000	495286	24'	\$79.49	F0-4655000
495264	13'	\$62.29	F0-0634000	647626	26'	\$83.09	F0-6185000
495266	14'	\$63.59	F0-1544000	495294	28'	\$87.09	F0-6906000
495268	15'	\$64.79	F0-5354000	647630	30'	\$91.39	F0-7936000

Uflex MACH36 Mercury Generation II Control Cables



- For Gen II Mercury style.
- High efficiency for smooth operation.
- High flexibility for reduced bend radius.
- Ideal for long complex cable routings.
- Maintenance free.
- Stainless steel cables end fittings.
- High resistance blue outer jacket against abrasion, UV and chemicals.

NEW PRODUCT

Order No.	Description	List Price	Order No.	Description	List Price
3710055	Length 6'	\$50.39	F0-7253000		
3710057	Length 9'	\$55.79	F0-5093000		
3710061	Length 13'	\$61.09	F0-6724000		
3710062	Length 14'	\$61.09	F0-6724000		

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Mariner Control Cables - 630 Series



- Drop-in replacement cables are engineered as replacements for original equipment cables. Cables use the existing connection components.
- Stainless steel and brass fittings.
- CC210 (630 Type) Mariner (Pre-1993 40 HP and Less) with Mariner/Mercury Controls.

Dometic Universal 3300/33C Control Cables



- Cables can use the existing connection components.
- Stainless steel and brass fittings.

CCX633 - 3300 CABLE (PREMIUM) STAINLESS FITTINGS

- Premium 3300/33C cables have a heavy jacket and the Xtreme splined, coated core element for maximum smoothness with minimal lost motion (4" minimum bend radius).
- Cables have a 10-32 threaded terminal and a clamp-type fitting at each end. 3" nominal travel.

Order No.	Length	List Price	Order No.	Length	List Price
649093	4'	\$47.89	649124	24'	\$73.59
649094	5'	\$48.79	649125	25'	\$78.59
649096	6'	\$49.89	649126	26'	\$80.59
649098	7'	\$50.89	649136	28'	\$84.79
649101	8'	\$52.19	649138	30'	\$88.79
649103	9'	\$53.39	649141	32'	\$108.59
649105	10'	\$54.69	649145	34'	\$119.99
649106	11'	\$56.09	649149	36'	\$131.39
649109	12'	\$57.29	649150	38'	\$142.79
649110	13'	\$58.59	649154	40'	\$154.19
649112	14'	\$59.69	649157	42'	\$165.99
649113	15'	\$60.99	649162	44'	\$178.79
649116	16'	\$62.19	649166	46'	\$188.69
649117	17'	\$63.39	649169	48'	\$201.49
649118	18'	\$64.59	649173	50'	\$211.29
4951630	19'	\$65.79	649184	52'	\$222.29
649120	20'	\$67.09	649191	56'	\$240.69
649122	22'	\$71.09	649199	60'	\$260.29
649123	23'	\$72.29			

STANDARD REPLACEMENT CONTROL CABLES

- Suitable for most applications with short, simple cable routings.
- Uses stainless steel Lubri-Core core wire for smooth operation and long life (8" minimum bend radius).

Order No.	Length	List Price	Order No.	Length	List Price
650724	10'	\$66.89	8020408	15'	\$73.89
8020404	11'	\$68.39	650730	16'	\$74.99
650726	12'	\$69.69	8020410	17'	\$76.29
8020406	13'	\$71.19	650732	18'	\$77.79
650728	14'	\$72.49	650734	20'	\$80.89

Uflex MACHZero Control Cables



- MACHZero (3300 style).
- High efficiency for smooth operation.
- High flexibility for reduced bend radius.
- Ideal for long complex cable routings. Maintenance free.
- Stainless steel cables end fittings.
- High resistance blue outer jacket against abrasion, UV and chemicals.
- Stroke: 3.4". 10-32 thread.

Order No.	Length	List Price	Order No.	Length	List Price
927004	4'	\$37.99	8031115	21'	\$63.79
927016	5'	\$38.69	8031120	22'	\$65.89
927028	6'	\$39.49	8031130	24'	\$70.09
927030	7'	\$40.29	8031140	26'	\$74.29
8031050	8'	\$37.29	8031150	28'	\$78.39
8031055	9'	\$39.39	8031160	30'	\$82.59
8031060	10'	\$41.39	8031165	32'	\$103.09
8031065	11'	\$43.49	8031170	34'	\$108.79
8031070	12'	\$44.89	8031175	36'	\$114.49
8031075	13'	\$47.49	8031180	38'	\$120.09
8031080	14'	\$49.19	8031185	40'	\$131.79
8031085	15'	\$51.29	8031187	42'	\$151.09
8031090	16'	\$53.39	727282	44'	\$144.29
8031095	17'	\$55.49	727303	50'	\$162.19
8031100	18'	\$57.59	727315	54'	\$196.19
8031105	19'	\$59.99	727336	60'	\$228.49
8031110	20'	\$61.69			

Uflex C8 Standard Control Cables



- High efficiency for smooth operation.
- High flexibility for reduced bend radius.
- Ideal for long complex cable routings.
- Maintenance free.
- Stainless steel cables end fittings.
- Stroke: 3.4". 10-32 thread (like C8 & 3300)

Order No.	Length	List Price	Order No.	Length	List Price
8031200	4'	\$35.19	8031255	15'	\$42.89
8031205	5'	\$36.49	8031260	16'	\$43.79
8031210	6'	\$35.19	8031265	17'	\$44.59
8031215	7'	\$36.09	8031270	18'	\$45.39
8031220	8'	\$36.79	8031275	19'	\$46.29
8031225	9'	\$37.79	8031280	20'	\$47.19
8031230	10'	\$38.49	8031285	22'	\$48.69
8031235	11'	\$39.49	8031290	24'	\$50.29
8031240	12'	\$40.29	8031295	26'	\$52.19
8031245	13'	\$41.09	8031300	28'	\$53.89
8031250	14'	\$42.09	8031305	30'	\$58.19

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Universal XTREME 4300/43 Control Cables



- Cables have stainless steel conduit fittings.
- 5" minimum bend radius.

CCX433 - 4300 CABLE (PREMIUM)

- Cables have a 1/4-28 threaded terminal and a clamp-type fitting at each end. 3" nominal travel.

Order No.	Length	List Price		Order No.	Length	List Price	
648848	6'	\$99.59	F0-1796000	648975	32'	\$159.09	F0-6311100
648850	8'	\$104.09	F0-6827000	648989	34'	\$163.69	F0-8541100
648862	10'	\$109.79	F0-5867000	648999	36'	\$168.09	F0-6671100
648874	12'	\$113.49	F0-4497000	649004	38'	\$172.69	F0-8802100
648888	14'	\$117.99	F0-9528000	649016	40'	\$177.19	F0-3042100
648898	16'	\$122.59	F0-1858000	649029	42'	\$181.69	F0-8172100
648901	18'	\$127.09	F0-6988000	649030	44'	\$186.19	F0-3303100
648913	20'	\$131.59	F0-1129000	649043	46'	\$191.69	F0-8143100
648926	22'	\$137.79	F0-5469000	649054	48'	\$197.19	F0-3083100
648937	24'	\$140.89	F0-2689000	649067	50'	\$200.89	F0-2604100
648948	26'	\$145.39	F0-7710100	649078	52'	\$211.99	F0-9384100
648951	28'	\$150.49	F0-4350100	649081	56'	\$230.69	F0-8416100
648962	30'	\$154.49	F0-4180100	649092	60'	\$250.19	F0-3157100

Uflex C2 Standard Control Cables



- For use with inboard, sterndrive and outboard engines with appropriate accessories.
- Stroke: 3.4".
- 10-32 UNF.

Order No.	Mfg. No. / Description	List Price	
3714204	(C2X14) Length 14'	\$42.99	60-0882000

LIMITED QUANTITIES

Uflex C4 Standard Control Cables



- For use: BRP/Evinrude Pre-1979 engine applications.
- Stroke: 3.1".

Order No.	Mfg. No. / Description	List Price	
3718153	(C4X13) Length 13'	\$46.99	60-8413000

LIMITED QUANTITIES

Uflex C22 Standard Control Cables



- C22 Universal Engine Control Cable (4300 style).
- Stainless steel clamp fittings.
- Recommended for heavy duty applications.
- Stroke: 3.1".
- 1/4-28 thread.

Order No.	Length	List Price		Order No.	Length	List Price	
8020112	12'	\$101.39	F0-7907000	8020132	32'	\$134.69	F0-8249000
8020114	14'	\$105.49	F0-4837000	8020138	38'	\$159.89	F0-2911100
8020116	16'	\$109.69	F0-8767000	8020140	40'	\$166.29	F0-0461100
8020120	20'	\$120.89	F0-2648000	8020142	42'	\$171.89	F0-2302100
8020122	22'	\$121.99	F0-9358000	8020144	44'	\$176.39	F0-7432100
8020124	24'	\$125.99	F0-9188000	8020156	56'	\$207.29	F0-0154100
8020126	26'	\$130.09	F0-6019000	8020160	60'	\$226.69	F0-8685100
8020128	28'	\$136.89	F0-2859000				

Dometic 33LV Vernier Control Cables



- Great for throttles or other applications where precise control is desired.
- Push the button for fast easy setting of approximate position, then turn the knob for micro adjustment.
- Positive, adjustable brake maintains settings regardless of vibration or governor back pressure.
- HDPE outer casing for durability and best resistance to UV and chemicals.
- Cable only (Fig. 307141-000), order head below (Fig. 307941-003).

Order No.	Mfg. No. / Description	List Price	
494006	(CC34505) Length 5'	\$78.49	F0-4945000
494030	(CC34510) Length 10'	\$88.09	F0-6616000
494056	(CC34520) Length 20'	\$123.79	F0-5668000

ORDER ONE HEAD FOR EACH CABLE ORDERED FOR NEW APPLICATION

Order No.	Mfg. No. / Description	List Price	
493992	(317310) Head Only	\$77.69	F0-8345000

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailer

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

Hardware, Fasteners

Camouflage

Misc.

Comm.

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls**
- Pumps
- Fuel System
- Seating & Pedestals
- Trailering
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Cable Fittings for 33C Series



Order No.	Mfg. No. / Description	List Price	
491150	(032010) Cable Clamp (2 Holes)	\$5.29	FO-0730000
494067	(047641) Stop Pivot, 1/4"	\$27.99	FO-9591000
494081	(037664) Conduit Clamp	\$8.39	FO-7850000
491148	(CA28020P) Cable Clamp and Shim Kit	\$11.39	FO-7970000
494079	(037693) Stop Collar	\$26.19	FO-3381000

Dometic Conduit Fitting Kit



- Use these to mount utility cables to mount in either bulkhead or clamp type applications.

Order No.	Mfg. No. / Description	List Price	
490755	(300673) Bulkhead Adapter Kit	\$51.59	FO-1163000
490778	(302485) Clamp Adapter Kit	\$40.49	ZO-0962000
494079	(037693) Stop Collar	\$26.19	FO-3381000

Dometic Engine Connection Kits



- These kits provide control cable connection hardware, either for cable to engine/transmission or for cable to control unit.

ENGINE-SPECIFIC CONNECTION KIT FOR OEM CABLES

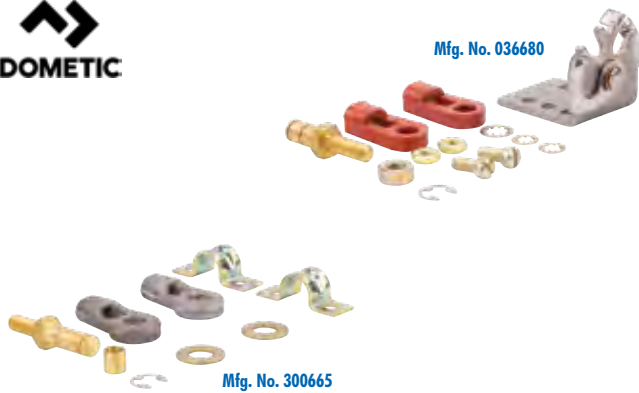
- For 1973-1978 OMC OEM ("400" type) cables with bare wire ends.
- Note: Included clip is not used on sterndrives.

Order No.	Mfg. No. / Description	List Price	
649220	(CA27208P) E/J O/B Kit (35 HP and Less)	\$34.39	FO-7042000
649232	(CA27247P) E/J O/B Kit (Over 35 HP), OMC Sterndrive (All)	\$34.39	FO-7042000

ENGINE-SPECIFIC CONNECTION KITS FOR 3300/33C CABLES

Order No.	Mfg. No. / Description	List Price	
649244	(CA27320P) E/J O/B Kit (1979-Date), OMC Sterndrive (All)	\$26.29	FO-0481000
649256	(CA27321P) E/J O/B Kit (Pre 1979)	\$35.49	FO-4842000
491720	(CA27319P) Mercury O/B Kit (1965-Date), Mercury Sterndrive (All)	\$31.19	FO-3812000
8020349	(CA27373P) Mercury Inboard Kit (All)	\$32.09	FO-6422000
491718	(CA38383P) Yamaha Outboard Kit	\$44.99	ZO-4292000

Dometic Pre-Engineered Clutch & Throttle Kits - By Transmission



Mfg. No. 036680

Mfg. No. 300665

	For Dual Station 3300/ 33C Cables	For Dual Station 4300/ 43C Cables	To Convert from 3300/ 33C Dual Station to 4300/ 43C Dual Station, Add:
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BORG-WARNER

70, 71 and 72 Inline with Red Gear	301474	301474	300665
71C & 72C Drop Center	-	-	300665

CAPITAL

12400, 2, 3 and 4 HD and HE	036680	036680	040773
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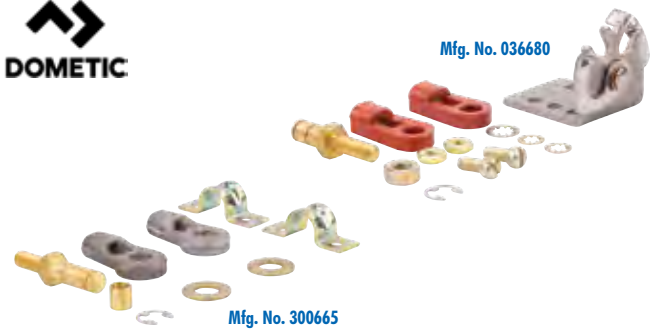
PARAGON

HF-7	036680	036680	040773
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TWIN DISC

MG 508, 509, 510, 510A, 512	042577	-	300665
514C, 514CHP, 518, 521, 527	042577	-	300665
530 and 540	042577	-	300665
MG502, 506 and 507	-	-	300665

Dometic Pre-Engineered Clutch & Throttle Kits - By Engine Application



Mfg. No. 036680

Mfg. No. 300665

For Single Station 3300/
33C CablesFor Dual Station 4300/
43C CablesTo Convert from 3300/
33C Dual Station to 4300/
43C Dual Station, Add:

CATERPILLAR

334, 3304 and 3306	036680	036680	040773
343, 3406 and 3408	036680	036680	040773

CUMMINS

All with MVSGOV	036680	036680	040773
V, VT, KT, KTA 1975-Up	300580	300580	300665

GENERAL MOTORS

3, 4 & 6-71 with Var. Speed Gov.	-	-	300665
6, 8 & 12 V-71, 6 & 8 V-92 w/Var. Speed Gov.	-	-	300665
2, 3 and 4-53 with Left and Right Hand Gov.	036680	036680	040773
GV-53 Rear & Front Entry	036680	036680	040773
6 and 8V-71 Front Entry Shutdown Kit	036680	036680	040773

UNIVERSAL

Atomic 4	036680	036680	040773
Atomic 1 and 2 63C Clutch and 33C Throttle	036680	036680	040773

THESE CONNECTION KITS ARE SPECIAL ORDER ONLY!

Dometic Outboard and I/O Cable Connection Kits



Mfg. No. 302123

	Kit Number	Cable
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CHRYSLER

1975 and Later	300465	33C (Two Cables)
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EVINRUDE/JOHNSON

55-235 HP, 1978 to date	491706 (301729)	33C (Two Cables)
25 thru 40 HP, Up thru 1985	041652	Type "O" (Two Cables)
	035640	33C (Two Cables)
50 HP & Over, 1973 & Later	068086	Type "O" (Two Cables)
9.9 & 15 HP, 1974 & Later	301543, plus OMC kit also required	33C (Two Cables)

MERCURY

40-300 HP	301901	33C (Two Cables)
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MERCUISER I/O AND OMC STERNDRIIVE

Mercruiser I/O	302123	33C (Two Cables)
OMC Sterndrive	300557	33C (Two Cables)

Dometic Cable Adapter Kit



- Use with 33C Cable.
- For Johnson/Evinrude.

Order No. Mfg. No. / Description
491706 (301729)List Price
\$59.99 F0-9914000

Dometic Terminal Eye



- Terminal Eye used in the Mercury control adapter kit 301074 & OMC control adapter kit 304939.

Order No. Mfg. No. / Description
490669 (301072)List Price
\$12.29 F0-0680000

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

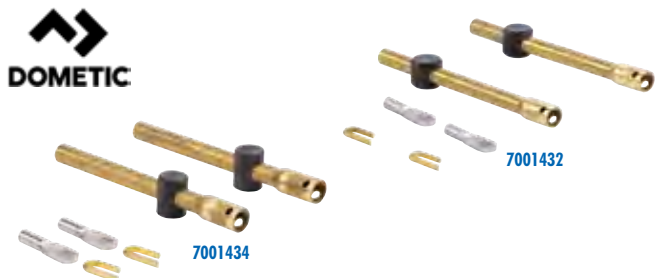
Hardware, Fasteners

Camouflage

Misc.

Comm.

Dometic OEM Control-Specific Connection Kits for 3300/33C Cables



MERC/MARINER CONTROL ADAPTER - 3300/33C CABLE

Order No.	Mfg. No. / Description	List Price	
7001432	(301074)	\$93.89	FO-2756000

OMC/JOHNSON/EVINRUDE CONTROL ADAPTER - 3300/33C CABLE

Order No.	Mfg. No. / Description	List Price	
7001434	(304939)	\$145.09	FO-6510100

Dometic Control Cable Fittings and Hardware

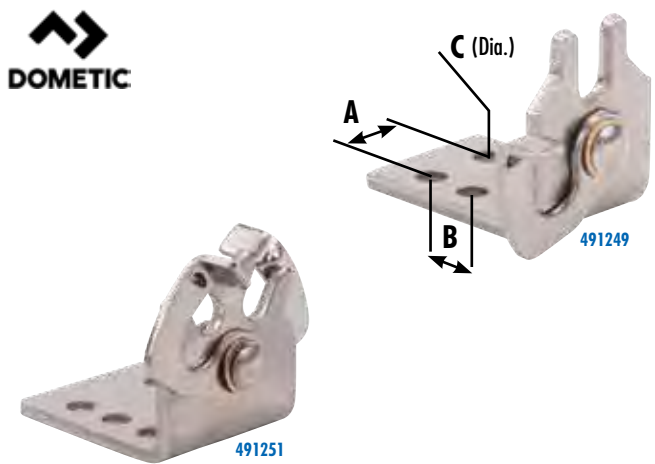
Dometic Ball Joint Kits - Quick-Release Type



- Complete with nut and lockwasher.
- Has external spring over ball receptor.

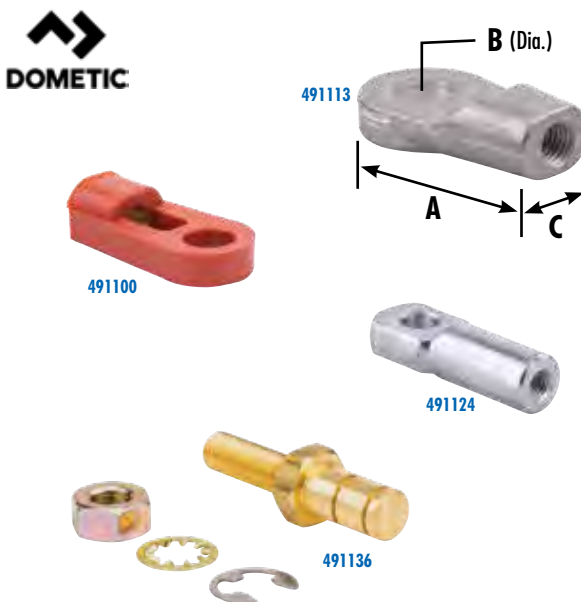
DMI #	MFG #	Series	A	B	C	List Price	
490678	(031126)	33C	31/32"	9/16"	1/4"-28	\$16.49	FO-4511000
490665	(031799-001)	33C	29/32"	7/16"	10-32	\$16.89	FO-2811000
490688	(035242)	33C	1-1/8"	7/8"	5/16"-24	\$54.29	FO-0083000
490729	(029104)	4300	31/32"	9/16"	1/4"-28	\$29.39	FO-7502000
490716	(032267)	4300	31/32"	7/8"	5/16"-24	\$26.59	FO-1681000
490751	(029108)	6400	1-1/8"	7/8"	5/16"-24	\$46.49	FO-4523000

Dometic Cable Hook Clips



DMI #	MFG #	Description	Series	A	B	C	List Price	
491249	(036174)	Single	33C	1/2"	3/8"	13/64"	\$16.49	FO-4511000
491251	(035531)	Dual	33C	3/4"	3/8"	13/64"	\$45.29	FO-0713000

Dometic Terminal Eyes



DMI #	MFG #	Description	Series	A	B	C	List Price	
491100	(300646)	Red Nylon	33C	1"	5/16"	1/2"	\$5.39	FO-7730000
491113	(037639)	Aluminum	4300	1"	5/16"	1/2"	\$12.69	FO-8880000
491124	(041134)		4300		5/16"		\$20.59	FO-1441000

TERMINAL PIN KIT FOR 6400 SERIES

- Includes: Eye terminal pin (300965), ring, nut and washer.

Order No.	Mfg. No. / Description	List Price	
491136	(301456)	\$25.79	FO-5081000

- Electronics
- Trolling Motors
- Instruments
- Electrical
- Lighting
- Anchor & Dock
- Safety
- Steering, Controls
- Pumps
- Fuel System
- Seating & Pedestals
- Trailing
- Tops & Covers
- Perform.
- Propellers
- Engine & Care
- Cleaning & Care
- Paint & Paint Acc.
- Fun & Flotation
- Topside Acc.
- Cockpit & Deck
- Hardware, Fasteners
- Camouflage
- Misc.
- Comm.

Dometic Control Cable Fittings and Hardware

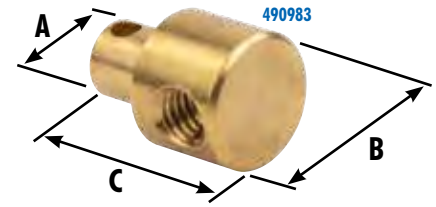
Dometic Pivots



491011



490994



490983



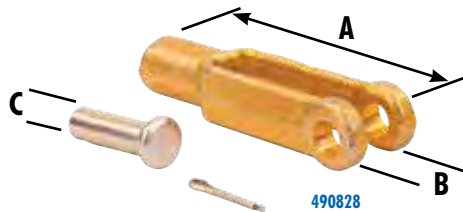
491047



491036

DMI #	MFG #	Series	A	B	C	List Price	
490970	(045583)	33C	3/16"	7/16"	11/16"	\$12.99	Z0-4480000
490983	(031029)	33C	1/4"	7/16"	5/8"	\$11.79	F0-5280000
490994	(031539)	33C	1/4"	7/16"	23/32"	\$14.19	F0-3990000
491011	(039890)	33C	1/4"	7/16"	15/16"	\$45.39	F0-7713000
491047	(031537)	4300	1/4"	1/2"	7/8"	\$30.79	F0-5512000
491036	(039110)	4300	1/4"	7/16"	3/4"	\$13.09	F0-6190000

Dometic Clevis Kits



490828



490831



490855



490867



490879



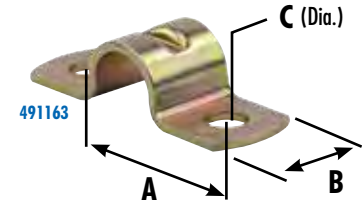
490919

DMI #	MFG #	Series	A	B	C	List Price	
490828	(031125)	33C	2"	9/32"	1/4"	\$24.79	F0-5371000
490831	(033395)	33C			5/16"	\$22.19	F0-3551000
490855	(029025)	4300	2"	9/32"	1/4"	\$22.09	F0-6451000
490867	(042212)	4300			5/16"	\$24.39	F0-7071000
490879	(045985)	4300			3/8"	\$39.99	F0-9972000
490919	(029132-001)	6400	2-1/4"	11/32"	5/16"	\$22.19	F0-3551000
490932	(042034)	6400	2-1/2"	7/16"	3/8"	\$39.19	F0-3472000

Dometic Cable Clamps and Shims



491150



491163



491225



491175



491237



491201



491214

CABLE CLAMP

DMI #	MFG #	Description	Series	A	B	C	List Price	
491163	(031509)	2 Holes	33C	1"	1/2"	12/64"	\$4.39	F0-7030000
491150	(032010)	2 Holes	33C	7/8"	1/2"	3/16"	\$5.29	F0-0730000
491175	(031532)	2 Holes	4300	1"	1/2"	7/32"	\$3.29	F0-0320000
491225	(036733)	2 Holes	6400				\$4.19	F0-3920000

SHIM FOR 491150 (032010)

DMI #	MFG #	Description	Series	A	B	C	List Price	
491201	(035777)	2 Holes					\$24.99	Z0-4261000

SHIM FOR 491163 (031509) AND 491175 (031532)

DMI #	MFG #	Description	Series	A	B	C	List Price	
491214	(031538)	2 Holes		1"	1/2"	13/64"	\$2.99	F0-9020000

SHIM FOR 491225 (036733)

DMI #	MFG #	Description	Series	A	B	C	List Price	
491237	(037884)	2 Holes	6400				\$5.89	F0-2140000

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailering

Tops & Covers

Perform.

Propellers

Engine & Care

Cleaning & Care

Paint & Paint Acc.

Fun & Flotation

Topside Acc.

Cockpit & Deck

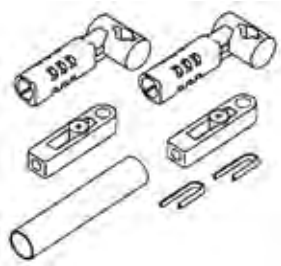
Hardware, Fasteners

Camouflage

Misc.

Comm.

Uflex Engine Control Accessories



- Adapts C2, C8, MACHZero and all 33C style cables for use with Mercury engines.

Order No.	Description	List Price	
8030000	(K56)	\$28.79	F0-5102000

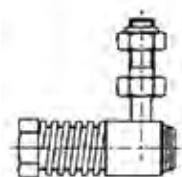
Uflex Cable End Fitting



- Fits C2, C8, MACHZero and all 33C style cables.

Order No.	Description	List Price	
2006865	(L12)	\$12.89	F0-2090000

Uflex Ball Joint



FITS C2, C8, MACHZERO AND ALL 33C STYLE CABLES

- 10-32 UNF.

Order No.	Description	List Price	
2006870	(L25)	\$23.99	F0-9761000

FITS C22 AND 4300 SERIES CABLES

- 1/4" x 28 threaded.

Order No.	Description	List Price	
2006875	(L26)	\$23.99	F0-9761000

Control Box Counter Lever



- OMC 390610, 397272.

Order No.	Description	List Price	
2100024	(EUJ)	\$104.49	F0-4137000

Electronics

Trolling Motors

Instruments

Electrical

Lighting

Anchor & Dock

Safety

Steering, Controls

Pumps

Fuel System

Seating & Pedestals

Trailer

Tops & Covers

Perform.

Propellers

Engine & Care

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Hardware, Fasteners

Camouflage

Misc.

Comm.