



Welcome

You have selected one of the finest marine power packages available. It incorporates numerous design features to ensure operating ease and durability. With proper care and maintenance, you will enjoy using this product for many boating seasons. To ensure maximum performance and carefree use, we ask that you thoroughly read this manual.

The Operation and Maintenance Manual contains specific instructions for using and maintaining your product. Keep this manual with the product for ready reference whenever you are on the water.

Thank you for purchasing one of our products. We sincerely hope your boating will be pleasant.

Mercury Marine, Fond du Lac, Wisconsin, U.S.A.

Name / function:


Christopher D. Drees, President,
Mercury Marine

Read This Manual Thoroughly

IMPORTANT: If you do not understand any portion of this manual, contact your dealer. Your dealer can also provide a demonstration of actual starting and operating procedures.

Notice

Throughout this publication and on your power package, safety alerts labeled WARNING and CAUTION (accompanied

by the symbol ) are used to alert you to special instructions concerning a particular service or operation that may be hazardous if performed incorrectly or carelessly. Observe these alerts carefully.

These safety alerts alone cannot eliminate the hazards that they signal. Strict compliance to these special instructions when performing the service, plus common sense operation, are major accident prevention measures.

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Additional alerts provide information that requires special attention:

NOTICE

Indicates a situation which, if not avoided, could result in engine or major component failure.

IMPORTANT: Identifies information essential to the successful completion of the task.

NOTE: Indicates information that helps in the understanding of a particular step or action.

California Proposition 65



WARNING: This product can expose you to chemicals including gasoline engine exhaust, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

IMPORTANT: The operator (driver) is responsible for the correct and safe operation of the boat, the equipment aboard, and the safety of all occupants aboard. We strongly recommend that the operator read this Operation and Maintenance Manual and thoroughly understand the operational instructions for the power package and all related accessories before the boat is used.

The serial numbers are the manufacturer's keys to numerous engineering details that apply to your Mercury Marine power package. When contacting Mercury Marine about service, **always specify model and serial numbers.**

Descriptions and specifications contained herein were in effect at the time this was approved for printing. Mercury Marine, whose policies are based on continuous improvement, reserves the right to discontinue models at any time or to change specifications or designs without notice and without incurring obligation.

Warranty Message

The product you have purchased comes with a **Mercury Marine Limited Warranty**. The terms of the warranty are set forth in the Warranty Manual, which can be accessed any time on the Mercury Marine website, at <http://www.mercurymarine.com/warranty-manual>. The Warranty Manual contains a description of what is covered, what is not covered, the duration of coverage, how to best obtain warranty coverage, **important disclaimers, limitations, and waivers**, and other related information. Please review this important information.

Mercury Marine products are designed and manufactured to comply with our own high quality standards, applicable industry standards and regulations, and certain emissions regulations. At Mercury Marine every engine is operated and tested before it is boxed for shipment to make sure that the product is ready for use. In addition, certain Mercury Marine products are tested in a controlled and monitored environment, for up to 10 hours of engine run time, in order to verify and make a record of compliance with applicable standards and regulations. All Mercury Marine product, sold as new, receives the applicable limited warranty coverage, whether the engine participated in one of the test programs described above or not.

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Alpha, Axius, Bravo One, Bravo Two, Bravo Three, Circle M with Waves Logo, GO BOLDLY, K-planes, Mariner, MerCathode, MerCruiser, Mercury, Mercury with Waves Logo, Mercury Marine, Mercury Precision Parts, Mercury Propellers, Mercury Racing, MotorGuide, OptiMax, Pro XS, Quicksilver, SeaCore, Skyhook, SmartCraft, Sport-Jet, Verado, VesselView, Zero Effort, Zeus, #1 On the Water and We're Driven to Win are registered trademarks of Brunswick Corporation. Mercury Product Protection is a registered service mark of Brunswick Corporation. All other marks are the property of their respective owners.

Identification Records

Please record the following applicable information:

MerCruiser		
Engine Model and Horsepower		Engine Serial Number
Transom Assembly Serial Number (Sterndrive)	Gear Ratio	Sterndrive Unit Serial Number
Transmission Model (Inboard)	Gear Ratio	Transmission Serial Number
Propeller Number	Pitch	Diameter
Watercraft Identification Number (WIN) or Hull Identification Number (HIN)		Purchase Date
Boat Manufacturer	Boat Model	Length
Exhaust Gas Emissions Certification Number (Europe Only)		

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Section 1 - Bravo Four S VesselView Options Overview

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VesselView with Smart Tow Overview

VesselView with Smart Tow features allow the boat operator to control various engine and boat functions for water sport activities with just a few icon taps. This overview will not cover all of the functions of the VesselView with Smart Tow but will highlight functions which are related to the Bravo Four S Smart Tow application.

Overview



- a - CZone–ballast control tab
- b - Vessel Control–Smart Tow tab
- c - Mercury–set-up and engine/drive monitoring tab (refer to NOTE)

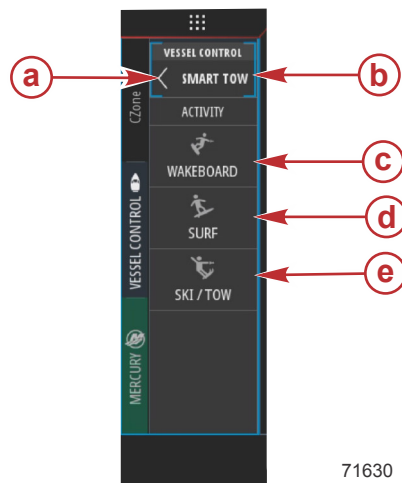
NOTE: This document will not cover the set-up and engine/drive monitoring.

Vessel Control Smart Tow Options

VesselView with Smart Tow control initially presents to the operator three options to choose from: Wakeboard, Surf, and Ski/Tow. These options provide the operator with ready-made selection points from which to enable the Smart Tow launch/cruise activity. These screens also provide convenient access for controlling vessel options for tow sports and wake surfing.

NOTE: Surf and wakeboard selections (c and d in the following illustration) will not be selectable (grayed-out) if your boat is not equipped with the Mercury Marine Integrated OEM installed Lenco® auto retracting surf tabs or CZone ballast tanks.

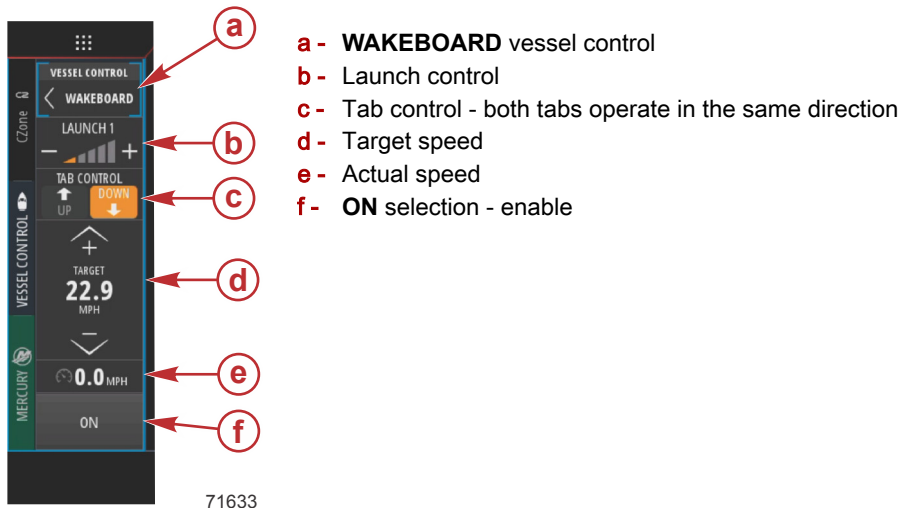
1. Select **VESSEL CONTROL, SMART TOW**. You can select any of the listed activities with a single tap. To return to the previous view, use the less than caret (<) at the top of the panel.



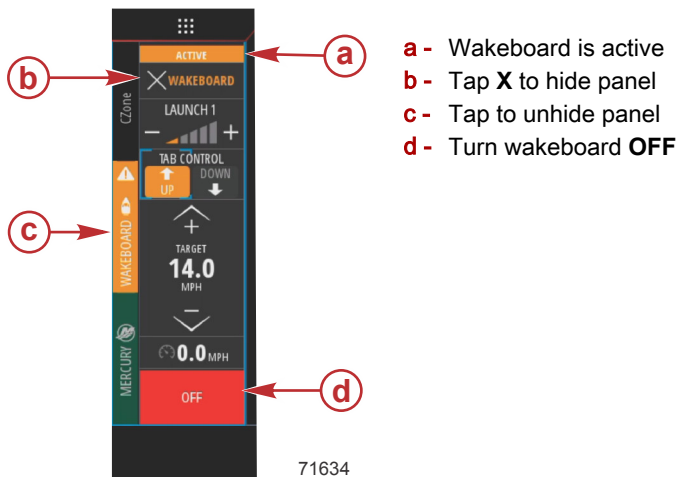
- a - Return to previous view
- b - **VESSEL CONTROL–SMART TOW**
- c - **WAKEBOARD** activity
- d - **SURF** activity
- e - **SKI/TOW** activity

2. When **WAKEBOARD** is selected, the panel will change to show the controls for this activity. The display shows the last use settings.
 - There are five launch profiles. Tap the + or – to select the desired profile.
 - Tap the up or down symbol in **TAB CONTROL** to move the tab to full extension or full retract.
 - **TARGET SPEED** is default set to the last use launch number profile target speed. Tap the + or – to change the target speed.
 - The actual speed of the boat is displayed below the target speed.
 - The wakeboard activity can be enabled at the bottom of the panel.

NOTE: When **ON** is displayed, the activity is not enabled. To enable the activity, tap **ON**. When the word **OFF** is displayed, the activity is enabled. After the activity is enabled, to launch the vessel using the selected launch profile, tab position, and target speed, rapidly advance the throttle handle from forward in gear idle to forward wide-open throttle. The engine will follow the launch profile acceleration curve. For a more aggressive launch, select a higher value on **LAUNCH**.

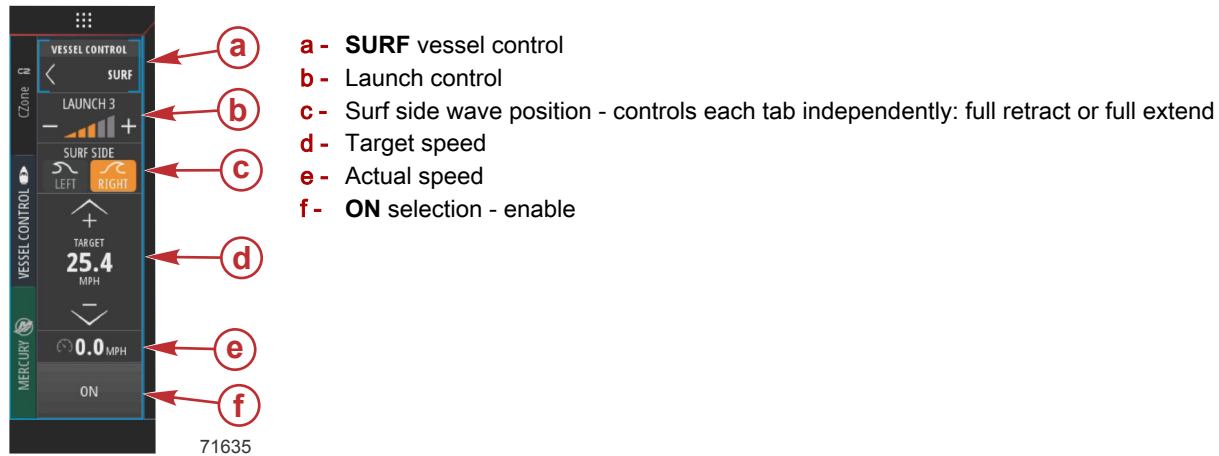


3. When the activity is enabled, the display will change color indicating **WAKEBOARD** is active. The launch profile, tab control, and target speed can be changed while wakeboard is active. To hide the panel, tap the **X** at the top of the panel. To unhide the panel, tap the **WAKEBOARD** option displayed left of center. The wakeboard activity can be turned **OFF** by tapping the selection at the bottom of the panel.

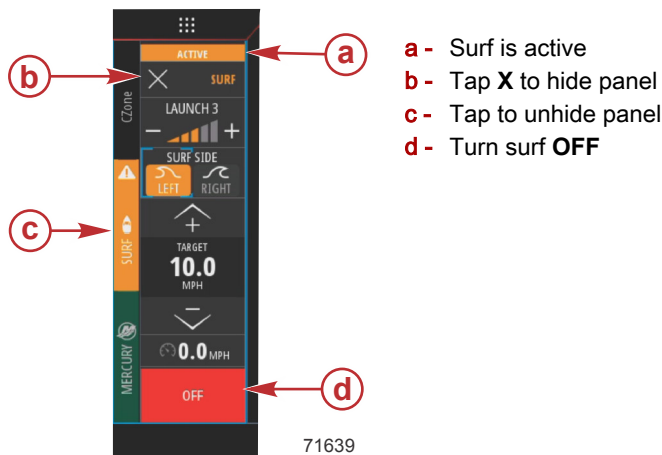


4. When **SURF** is selected, the panel will change to show the controls for this activity. The display shows the last use settings.
- There are five launch profiles. Tap the **+** or **-** to select the desired profile.
 - Tap the left or right **SURF SIDE** icon for the desired wave position.
 - **TARGET SPEED** is default set to the last use launch number profile target speed. Tap the **+** or **-** to change the target speed.
 - The actual speed of the boat is displayed below the target speed.
 - The surf activity can be enabled by tapping the selection at the bottom of the panel.

NOTE: When **ON** is displayed, the activity is not enabled. To enable the activity, tap **ON**. When the word **OFF** is displayed, the activity is enabled. After the activity is enabled, to launch the vessel using the selected launch profile, wave position and target speed, rapidly advance the throttle handle from forward in gear idle to forward wide-open throttle. The engine will follow the launch profile acceleration curve. For a more aggressive launch, select a higher value on **LAUNCH**.

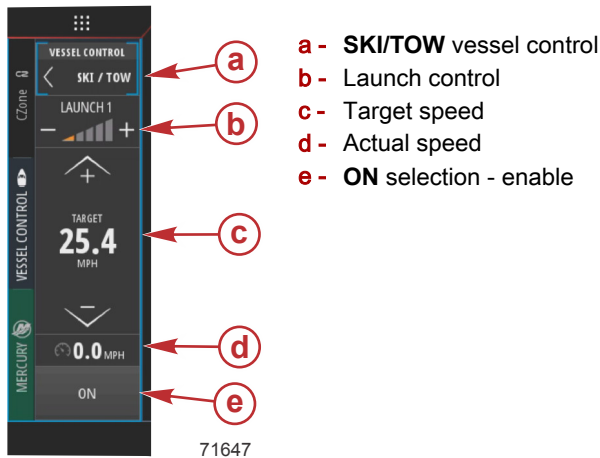


5. When the activity is enabled, the display will change color indicating **SURF** is active. The launch profile, surf side wave position, and target speed can be changed while surf is active. To hide the panel, tap the **X** at the top of the panel. To unhide the panel, tap the **SURF** option displayed left of center. The surf activity can be turned **OFF** by tapping the selection at the bottom of the panel.

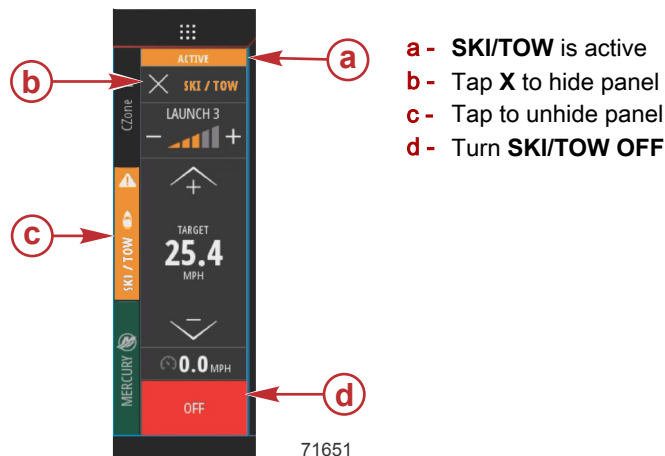


6. When **SKI/TOW** is selected, the panel will change to show the controls for this activity. The display shows the last use settings.
- There are five launch profiles. Tap the **+** or **-** to select the desired profile.
 - **TARGET SPEED** is default set to the last use launch number profile target speed. Tap the **+** or **-** to change the target speed.
 - The actual speed of the boat is displayed below the target speed.
 - The **SKI/TOW** activity can be enabled by tapping the selection at the bottom of the panel.

NOTE: When **ON** is displayed, the activity is not enabled. To enable the activity, tap **ON**. When the word **OFF** is displayed, the activity is enabled. After the activity is enabled, to launch the vessel using the selected launch profile and target speed, rapidly advance the throttle handle from forward in gear idle to forward wide-open throttle. The engine will follow the launch profile acceleration curve. For a more aggressive launch, select a higher value on **LAUNCH**.



7. When the activity is enabled, the display will change color indicating **SKI/TOW** is active. The launch profile and target speed can be changed while **SKI/TOW** is active. To hide the panel, tap the **X** at the top of the panel. To unhide the panel, tap the **SKI/TOW** option displayed left of center. The **SKI/TOW** activity can be turned **OFF** by tapping the selection at the bottom of the panel.



CZone

The CZone tab selection offers ballast control for use in conjunction with, or separate from the other Smart Tow features. The three ballast tanks can be filled to augment the height, length, and position of the wave or wake. To fill or drain the ballast tanks, tap the desired option. A blue bar will appear next to the active tank operation. The fill and drain process is default set to a pre-determined time to sufficiently fill or drain the tank. This pre-determined time cannot be changed. To interrupt the fill or drain process, tap the active selection. Select the **CLOSE** option at the top of the panel to exit CZone.

Section 1 - Bravo Four S VesselView Options Overview

NOTE: When the fill or drain process is interrupted, the tank may be partially filled. If you tap the fill tank option, the tank may overflow, dumping the excess water through the overflow vent outside the boat until you interrupt the process or, allow the pre-determined time to elapse. If you tap the empty tank option on a partially filled tank, the pump may continue to run when the tank is empty until you interrupt the process or allow the pre-determined time to elapse.



- a** - Tap to close the panel
- b** - Eight ballast tank options: 4 fill, 4 drain, (scroll down to view center ballast fill option)
- c** - Active ballast tank selection

- Ballast Tank Etiquette
 - The ballast system can harbor invasive aquatic species. Practice proper etiquette by following these simple actions: drain the ballast system every time the boat is removed from the water, allow the ballast system to dry before utilizing a different body of water.

Section 2 - Customer Assistance Information

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Owner Service Assistance

Local Repair Service

If you need service for your Mercury MerCruiser-powered boat, take it to your authorized dealer. Only authorized dealers specialize in Mercury MerCruiser products and have factory-trained mechanics, special tools and equipment, and genuine Quicksilver parts and accessories to properly service your engine.

NOTE: *Quicksilver parts and accessories are engineered and built by Mercury Marine specifically for Mercury MerCruiser sterndrives and inboards.*

Service Away From Home

If you are away from your local dealer and the need arises for service, contact the nearest authorized dealer. If, for any reason, you cannot obtain service, contact the nearest regional service center. Outside the United States and Canada, contact the nearest Marine Power International service center.

Stolen Power Package

If your power package is stolen, immediately inform the local authorities and Mercury Marine of the model and serial numbers and to whom the recovery is to be reported. This information is maintained in a database at Mercury Marine to aid authorities and dealers in the recovery of stolen power packages.

Attention Required After Submersion

1. Before recovery, contact an authorized Mercury MerCruiser dealer.
2. After recovery, immediate service by an authorized Mercury MerCruiser dealer is required to reduce the possibility of serious engine damage.

Replacement Service Parts

WARNING

Avoid fire or explosion hazard. Electrical, ignition, and fuel system components on Mercury Marine products comply with federal and international standards to minimize risk of fire or explosion. Do not use replacement electrical or fuel system components that do not comply with these standards. When servicing the electrical and fuel systems, properly install and tighten all components.

Marine engines are expected to operate at or near full throttle for most of their life. They are also expected to operate in both fresh and saltwater environments. These conditions require numerous special parts. Exercise care when replacing marine engine parts because specifications are different from those of the standard automotive engine. For example, one of the most important special replacement parts is the cylinder head gasket. Marine engines cannot use steel-type automotive head gaskets because saltwater is highly corrosive. A marine engine head gasket uses special materials to resist corrosion.

Because marine engines must be capable of running at or near maximum RPM much of the time, they also have special valve springs, valve lifters, pistons, bearings, camshafts, and other heavy-duty moving parts.

Mercury MerCruiser marine engines have other special modifications to provide long life and dependable performance.

Parts and Accessories Inquiries

Direct any inquiries concerning Quicksilver replacement parts and accessories to your local authorized dealer. The dealer has the necessary information to order parts and accessories for you. Only authorized dealers can purchase genuine Quicksilver parts and accessories from the factory. Mercury Marine does not sell to unauthorized dealers or retail customers. When inquiring about parts and accessories, the dealer requires the **engine model** and **serial numbers** to order the correct parts.

Resolving a Problem

Satisfaction with your Mercury MerCruiser product is important to your dealer and to us. If you ever have a problem, question, or concern about your power package, contact your dealer or any authorized Mercury MerCruiser dealership. If you need additional assistance:

1. Talk with the dealership's sales manager or service manager. Contact the owner of the dealership if the sales manager and service manager have been unable to resolve the problem.
2. If your question, concern, or problem cannot be resolved by your dealership, please contact a Mercury Marine Service Office for assistance. Mercury Marine will work with you and your dealership to resolve all problems.

The following information will be needed by Customer Service:

- Your name and address
- Your daytime telephone number
- The model and serial numbers for your power package
- The name and address of your dealership

- The nature of the problem

Contact Information for Mercury Marine Customer Service

For assistance, call, fax, or write. Please include your daytime telephone number with mail and fax correspondence.

United States, Canada		
Telephone	English +1 920 929 5040 Français +1 905 636 4751	Mercury Marine W6250 Pioneer Road P.O. Box 1939 Fond du Lac, WI 54936-1939
Fax	English +1 920 929 5893 Français +1 905 636 1704	
Website	www.mercurymarine.com	

Australia, Pacific		
Telephone	+61 3 9791 5822	Brunswick Asia Pacific Group 41-71 Bessemer Drive Dandenong South, Victoria 3175 Australia
Fax	+61 3 9706 7228	

Europe, Middle East, Africa		
Telephone	+32 87 32 32 11	Brunswick Marine Europe Parc Industriel de Petit-Rechain B-4800 Verviers, Belgium
Fax	+32 87 31 19 65	

Mexico, Central America, South America, Caribbean		
Telephone	+1 954 744 3500	Mercury Marine 11650 Interchange Circle North Miramar, FL 33025 U.S.A.
Fax	+1 954 744 3535	

Asia, Singapore, Japan		
Telephone	+65 68058100	Mercury Marine Singapore Pte Ltd 11 Changi South Street 3, #01-02 Singapore, 486122
Fax	+65 68058138	

Customer Service Literature

English Language

English language publications are available from:

Mercury Marine

Attn: Publications Department

W6250 Pioneer Road

P.O. Box 1939

Fond du Lac, WI 54936-1939

Outside the United States and Canada, contact the nearest Mercury Marine or Marine Power International Service Center for further information.

When ordering be sure to:

- List your product, model, year, and serial numbers.
- Check the literature and quantities you want.
- Enclose the full remittance in check or money order (NO COD).

Other Languages

To obtain an Operation and Maintenance Manual in another language, contact the nearest Mercury Marine or Marine Power International Service Center for information. A list of part numbers for other languages is provided with your power package.

Ordering Literature

Before ordering literature, have the following information about your power package available:

Section 2 - Customer Assistance Information

Model		Serial Number	
Horsepower		Year	

United States and Canada

For additional literature for your Mercury Marine power package, contact your nearest Mercury Marine dealer or contact:

Mercury Marine		
Telephone	Fax	Mail
(920) 929-5110	(920) 929-4894	Mercury Marine Attn: Publications Department P.O. Box 1939 Fond du Lac, WI 54936-1939

Outside the United States and Canada

Contact your nearest Mercury Marine authorized service center to order additional literature that is available for your particular power package.

Submit the following order form with payment to:	Mercury Marine Attn: Publications Department W6250 Pioneer Road P.O. Box 1939 Fond du Lac, WI 54936-1939
Ship To: (Copy this form and print or type—This is your shipping label)	
Name	
Address	
City, State, Province	
ZIP or postal code	
Country	

Quantity	Item	Stock Number	Price	Total
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			Total Due	.