Welcome Aboard!

Proper care and maintenance is an important part in keeping your Mercury Product operating at peak efficiency for maximum performance and economy. The enclosed Owner's Registration Card is your key to trouble-free family fun. Refer to your Operation and Maintenance Manual for full details of your warranty coverage.

Details of your nearest dealer can be found on www.marinepower.com where country maps and full contact information are displayed.


Declaration of Conformity

This outboard motor’s serial number plate contains in the lower corner left hand corner either the CE mark alone or the CE mark accompanied by a notified body number. This outboard motor manufactured by Mercury Marine, Fond du Lac, WI, USA or Marine Power Europe Inc. Park Industriel, de Petit-Rechain, Belgium complies with the requirements of the following directives by meeting the associated standards, as amended:

If the CE mark is accompanied by a notified body number, the following Recreational Craft Directive applies:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Owner's manual (A.2.5)</td>
<td>ISO 10240</td>
</tr>
<tr>
<td>Handling characteristics (A.4)</td>
<td>ISO 8665</td>
</tr>
<tr>
<td>Outboard engine starting (A.5.1.4)</td>
<td>ISO 11547</td>
</tr>
<tr>
<td>Fuel tanks (A.5.2.2)</td>
<td>ISO 13591; ISO 8469</td>
</tr>
<tr>
<td>General steering system</td>
<td>ABYC P-17</td>
</tr>
<tr>
<td>Exhaust emission requirements (B.2)</td>
<td>ISO 8178</td>
</tr>
<tr>
<td>Owner's manual (B.4)</td>
<td>ISO 8665</td>
</tr>
<tr>
<td>Noise emission levels (C.1)</td>
<td>ISO 14509</td>
</tr>
</tbody>
</table>

The notified body responsible for surveillance of the quality system under Full Quality Assurance Module H of Directive 2003/44/EC is:

Det Norske Veritas
Norway
Notified Body Number: 0575

If the CE mark is not accompanied by a notified body number, the following Recreational Craft Directive language applies:

<table>
<thead>
<tr>
<th>Recreational Craft Directive:</th>
<th>94/25/EC</th>
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</thead>
<tbody>
<tr>
<td>Owner's manual (A.2.5)</td>
<td>ISO 10240</td>
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<tr>
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<td>Fuel tanks (A.5.2.2)</td>
<td>ISO 13591; ISO 8469</td>
</tr>
</tbody>
</table>
### General steering system

<table>
<thead>
<tr>
<th>ABYC P-17</th>
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</table>

The following applies to all product covered by this manual:

#### Safety of Machinery Directive 98/37/EC

<table>
<thead>
<tr>
<th>Principles of safety integration (1.1.2)</th>
<th>EN 292-1; EN 292-2; EN 1050</th>
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<tr>
<td>Noise (1.5.8)</td>
<td>ICOMIA 39/94</td>
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<tr>
<td>Vibration</td>
<td>ICOMIA 38/94</td>
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#### Electromagnetic Compatibility Directive 89/336/EC

<table>
<thead>
<tr>
<th>Generic emission standard</th>
<th>EN 61000-6-3</th>
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<tr>
<td>Generic immunity standard</td>
<td>EN 61000-6-1</td>
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<tr>
<td>Vehicles, boats and internal combustion engine driven devices - radio disturbance characteristics</td>
<td>SAE J551 (CISPR 12)</td>
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<tr>
<td>Electrostatic discharge testing</td>
<td>EN 61000-6-2; EN 61000-4-2; EN 61000-4-3</td>
</tr>
</tbody>
</table>

This declaration is issued under the sole responsibility of Mercury Marine and Marine Power Europe.

Patrick C. Mackey  
President, Mercury Marine, Fond du Lac, WI USA  
European Regulations Contact:  
Regulations and Product Safety Department, Mercury Marine,  
Fond du Lac, WI USA
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WARRANTY INFORMATION

Transfer Of Warranty
The limited warranty is transferable to a subsequent purchaser, but only for the remainder of the unused portion of the limited warranty. This will not apply to products used for commercial applications.

To transfer the warranty to the subsequent owner, send or fax a copy of the bill of sale or purchase agreement, new owner’s name, address and engine serial number to Mercury Marine’s warranty registration department. In the United States and Canada, mail to:

Mercury Marine
Attn: Warranty Registration Department
W6250 W. Pioneer Road
P.O. Box 1939
Fond du Lac, WI 54936-1939
920-929-5054
Fax 920-929-5893

Upon processing the transfer of warranty, Mercury Marine will send registration verification to the new owner of the product by mail.

There is no charge for this service.

For products purchased outside the United States and Canada, contact the distributor in your country, or the Marine Power Service Center closest to you.

Warranty Registration United States And Canada

1. You may change your address at any time, including at time of warranty claim, by calling Mercury Marine or sending a letter or fax with your name, old address, new address, and engine serial number to Mercury Marine’s warranty registration department. Your dealer can also process this change of information.

   Mercury Marine
   Attn: Warranty Registration Department
   W6250 W. Pioneer Road
   P.O. Box 1939
   Fond du Lac, WI 54936-1939
   920-929-5054
   Fax 920-929-5893

   NOTE: Registration lists must be maintained by Mercury Marine and any dealer on marine products sold in the United States, should a safety recall notification under the Federal Safety Act be required.

2. To be eligible for warranty coverage, the product must be registered with Mercury Marine. At the time of sale, the dealer should complete the warranty registration and immediately submit it to Mercury Marine via MercNET, E-mail, or mail. Upon receipt of this warranty registration, Mercury Marine will record the registration.

3. Upon processing the warranty registration, Mercury Marine will send registration verification by mail to the purchaser of the product. If this registration verification is not received within 30 days, please contact your selling dealer immediately. Warranty coverage is not effective until your product is registered with Mercury Marine.

Warranty Registration Outside The United States And Canada

1. It is important that your selling dealer fills out the Warranty Registration Card completely and mails it to the distributor or Marine Power Service Center responsible for administering the warranty registration/claim program for your area.

2. The Warranty Registration Card identifies your name and address, product model and serial numbers, date of sale, type of use and the selling distributor's/dealer's code number, name and address. The distributor/dealer also certifies that you are the original purchaser and user of the product.

3. A copy of the Warranty Registration Card, designated as the Purchaser's Copy, MUST be given to you immediately after the card has been completely filled out by the selling distributor/dealer. This card represents your factory registration identification, and should be retained by you for future use when required. Should you ever require warranty service on this product, your dealer may ask you for the Warranty Registration Card to verify date of purchase and to use the information on the card to prepare the warranty claim forms.
WARRANTY INFORMATION

4. In some countries, the Marine Power Service Center will issue you a permanent (plastic) Warranty Registration Card within 30 days after receiving the Factory Copy of the Warranty Registration Card from your distributor/dealer. If you receive a plastic Warranty Registration Card, you may discard the Purchaser's Copy that you received from the distributor/dealer when you purchased the product. Ask your distributor/dealer if this plastic card program applies to you.

IMPORTANT: Registration lists must be maintained by the factory and dealer in some countries by law. It is our desire to have ALL products registered at the factory should it ever be necessary to contact you. Make sure your dealer/distributor fills out the warranty registration card immediately and sends the factory copy to the Marine Power International Service Center for your area.

5. For further information concerning the Warranty Registration Card and its relationship to Warranty Claim processing, refer to the International Warranty.

FourStroke Outboard Limited Warranty United States, Canada and Europe

Outside the United States, Canada and Europe - check with local distributor.

WHAT IS COVERED: Mercury Marine warrants its new products to be free of defects in material and workmanship during the period described below.

DURATION OF COVERAGE: This Limited Warranty provides coverage for two (2) years from the date the product is first sold to a recreational use retail purchaser, or the date on which the product is first put into service, whichever occurs first. Commercial users of these products receive warranty coverage of one (1) year from the date of first retail sale, or one (1) year from the date in which the product was first put into service, whichever occurs first. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes. The repair or replacement of parts, or the performance of service under this warranty, does not extend the life of this warranty beyond its original expiration date. Unexpired warranty coverage can be transferred from one recreational use customer to a subsequent recreational use customer upon proper re-registration of the product. Unexpired warranty coverage cannot be transferred either to or from a commercial use customer.

CONDITIONS THAT MUST BE MET IN ORDER TO OBTAIN WARRANTY COVERAGE: Warranty coverage is available only to retail customers that purchase from a Dealer authorized by Mercury Marine to distribute the product in the country in which the sale occurred, and then only after the Mercury Marine specified pre-delivery inspection process is completed and documented. Warranty coverage becomes available upon proper registration of the product by the authorized dealer. Routine maintenance outlined in the Operation and Maintenance Manual must be timely performed in order to maintain warranty coverage. Mercury Marine reserves the right to make future warranty coverage contingent on proof of proper maintenance.

WHAT MERCURY WILL DO: Mercury’s sole and exclusive obligation under this warranty is limited to, at our option, repairing a defective part, replacing such part or parts with new or Mercury Marine certified remanufactured parts, or refunding the purchase price of the Mercury product. Mercury reserves the right to improve or modify products from time to time without assuming an obligation to modify products previously manufactured.

HOW TO OBTAIN WARRANTY COVERAGE: The customer must provide Mercury with a reasonable opportunity to repair, and reasonable access to the product for warranty service. Warranty claims shall be made by delivering the product for inspection to a Mercury dealer authorized to service the product. If purchaser cannot deliver the product to such a dealer, written notice must be given to Mercury. We will then arrange for the inspection and any covered repair. Purchaser in that case shall pay for all related transportation charges and/or travel time. If the service provided is not covered by this warranty, purchaser shall pay for all related labor and material, and any other expenses associated with that service. Purchaser shall not, unless requested by Mercury, ship the product or parts of the product directly to Mercury. Proof of registered ownership must be presented to the dealer at the time warranty service is requested in order to obtain coverage.
WHAT IS NOT COVERED: This limited warranty does not cover routine maintenance items, tune ups, adjustments, normal wear and tear, damage caused by abuse, abnormal use, use of a propeller or gear ratio that does not allow the engine to run in its recommended wide open throttle RPM range (see the Operation and Maintenance Manual), operation of the product in a manner inconsistent with the recommended operation/duty cycle section of the Operation and Maintenance Manual, neglect, accident, submersion, improper installation (proper installation specifications and techniques are set forth in the installation instructions for the product), improper service, use of an accessory or part not manufactured or sold by us, jet pump impellers and liners, operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operation and Maintenance Manual), alteration or removal of parts, or water entering the engine through the fuel intake, air intake or exhaust system, or damage to the product from insufficient cooling water caused by blockage of the cooling system by a foreign body, running the engine out of water, mounting the engine too high on the transom, or running the boat with the engine trimmed out too far. Use of the product for racing or other competitive activity, or operating with a racing type lower unit, at any point, even by a prior owner of the product, voids the warranty.

Expenses related to haul out, launch, towing, storage, telephone, rental, inconvenience, slip fees, insurance coverage, loan payments, loss of time, loss of income, or any other type of incidental or consequential damages are not covered by this warranty. Also, expenses associated with the removal and/or replacement of boat partitions or material caused by boat design for access to the product are not covered by this warranty.

No individual or entity, including Mercury Marine authorized dealers, has been given authority by Mercury Marine to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against Mercury Marine.

For additional information regarding events and circumstances covered by this warranty, and those that are not, see the Warranty Coverage section of the Operation and Maintenance Manual, incorporated by reference into this warranty.

DISCLAIMERS AND LIMITATIONS:

THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/COUNTRIES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH VARY FROM STATE TO STATE AND COUNTRY TO COUNTRY.

FourStroke Outboard Limited Warranty (Confederation of Independent States, Middle-East, and Africa)

WHAT IS COVERED: Mercury Marine warrants its new Outboard and Jet Products to be free of defects in material and workmanship during the period described below.

DURATION OF COVERAGE: This Limited Warranty provides coverage for one (1) year from the date the product is first sold to a recreational use retail purchaser, or the date on which the product is first put into service, whichever occurs first. Commercial users of these products receive warranty coverage of one (1) years from the date of first retail sale, or one (1) year from the date on which the product was first put into service, whichever occurs first. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes. The repair or replacement of parts, or the performance of service under this warranty, does not extend the life of this warranty beyond its original expiration date. Unexpired warranty coverage can be transferred from one recreational use customer to a subsequent recreational use customer upon proper re-registration of the product. Unexpired warranty coverage cannot be transferred either to or from a commercial use customer.
WARRANTY INFORMATION

CONDITIONS THAT MUST BE MET IN ORDER TO OBTAIN WARRANTY COVERAGE: Warranty coverage is available only to retail customers that purchase from a Dealer authorized by Mercury Marine to distribute the product in the country in which the sale occurred, and then only after the Mercury Marine specified pre–delivery inspection process is completed and documented. Warranty coverage becomes available upon proper registration of the product by the authorized dealer. Routine maintenance outlined in the Operation and Maintenance Manual must be timely performed in order to maintain warranty coverage. Mercury Marine reserves the right to make warranty coverage contingent on proof of proper maintenance.

WHAT MERCURY WILL DO: Mercury’s sole and exclusive obligation under this warranty is limited to, at our option, repairing a defective part, replacing such part or parts with new or Mercury Marine certified re–manufactured parts, or refunding the purchase price of the Mercury product. Mercury reserves the right to improve or modify products from time to time without assuming an obligation to modify products previously manufactured.

HOW TO OBTAIN WARRANTY COVERAGE: The customer must provide Mercury with a reasonable opportunity to repair, and reasonable access to the product for warranty service. Warranty claims shall be made by delivering the product for inspection to a Mercury dealer authorized to service the product. If purchaser cannot deliver the product to such a dealer, written notice must be given to Mercury. We will then arrange for the inspection and any covered repair. Purchaser in that case shall pay for all related transportation charges and/or travel time. If the service provided is not covered by this warranty, purchaser shall pay for all related labor and material, and any other expenses associated with that service. Purchaser shall not, unless requested by Mercury, ship the product or parts of the product directly to Mercury. Proof of registered ownership must be presented to the dealer at the time warranty service is requested in order to obtain coverage.

WHAT IS NOT COVERED: This limited warranty does not cover routine maintenance items, tune ups, adjustments, normal wear and tear, damage caused by abuse, abnormal use, use of a propeller or gear ratio that does not allow the engine to run in its recommended wide open throttle RPM range (see the Operation and Maintenance Manual), operation of the product in a manner inconsistent with the recommended operation/duty cycle section of the Operation and Maintenance Manual, neglect, accident, submersion, improper installation (proper installation specifications and techniques are set forth in the installation instructions for the product), improper service, use of an accessory or part not manufactured or sold by us, jet pump impellers and liners, operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operation and Maintenance Manual), alteration or removal of parts, or water entering the engine through the fuel intake, air intake or exhaust system, or damage to the product from insufficient cooling water caused by blockage of the cooling system by foreign body, running the engine out of water, mounting the engine too high on the transom, or running the boat with the engine trimmed out too far.

Use of the product for racing or other competitive activity, or operating with a racing type lower unit, at any point, even by a prior owner of the product, voids the warranty.

Expenses related to haul out, launch, towing, storage, telephone, rental, inconvenience, slip fees, insurance coverage, loan payments, loss of time, loss of income, or any other type of incidental or consequential damages are not covered by this warranty. Also, expenses associated with the removal and/or replacement of boat partitions or material caused by boat design for access to the product are not covered by this warranty.

No individual or entity, including Mercury Marine authorized dealers, has been given authority by Mercury Marine to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against Mercury Marine.

For additional information regarding events and circumstances covered by this warranty, and those that are not, see the Warranty Coverage section of the Operation and Maintenance Manual, incorporated by reference into this warranty.
WARRANTY INFORMATION

DISCLAIMERS AND LIMITATIONS:

THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/COUNTRIES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH VARY FROM STATE TO STATE AND COUNTRY TO COUNTRY.

3 Year Limited Warranty Against Corrosion

WHAT IS COVERED: Mercury Marine warrants that each new Mercury, Mariner, Mercury Racing, Sport Jet, M² Jet Drive, Tracker by Mercury Marine Outboard, Mercury MerCruiser Inboard or Sterndrive Engine (Product) will not be rendered inoperative as a direct result of corrosion for the period of time described below.

DURATION OF COVERAGE: This limited corrosion warranty provides coverage for three (3) years from either the date the product is first sold, or the date on which the product is first put into service, whichever occurs first. The repair or replacement of parts, or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date. Unexpired warranty coverage can be transferred to subsequent (non-commercial use) purchaser upon proper re-registration of the product.

CONDITIONS THAT MUST BE MET IN ORDER TO OBTAIN WARRANTY COVERAGE: Warranty coverage is available only to retail customers that purchase from a Dealer authorized by Mercury Marine to distribute the product in the country in which the sale occurred, and then only after the Mercury Marine specified pre-delivery inspection process is completed and documented. Warranty coverage becomes available upon proper registration of the product by the authorized dealer. Corrosion prevention devices specified in the Operation and Maintenance Manual must be in use on the boat, and routine maintenance outlined in the Operation and Maintenance Manual must be timely performed (including without limitation the replacement of sacrificial anodes, use of specified lubricants, and touch-up of nicks and scratches) in order to maintain warranty coverage. Mercury Marine reserves the right to make warranty coverage contingent upon proof of proper maintenance.

WHAT MERCURY WILL DO: Mercury's sole and exclusive obligation under this warranty is limited to, at our option, repairing a corroded part, replacing such part or parts with new or Mercury Marine certified re-manufactured parts, or refunding the purchase price of the Mercury product. Mercury reserves the right to improve or modify products from time to time without assuming an obligation to modify products previously manufactured.

HOW TO OBTAIN WARRANTY COVERAGE: The customer must provide Mercury with a reasonable opportunity to repair, and reasonable access to the product for warranty service. Warranty claims shall be made by delivering the product for inspection to a Mercury dealer authorized to service the product. If purchaser cannot deliver the product to such a dealer, written notice must be given to Mercury. We will then arrange for the inspection and any covered repair. Purchaser in that case shall pay for all related transportation charges and/or travel time. If the service provided is not covered by this warranty, purchaser shall pay for all related labor and material, and any other expenses associated with that service. Purchaser shall not, unless requested by Mercury, ship the product or parts of the product directly to Mercury. Proof of registered ownership must be presented to the dealer at the time warranty service is requested in order to obtain coverage.
WARRANTY INFORMATION

WHAT IS NOT COVERED: This limited warranty does not cover electrical system corrosion; corrosion resulting from damage, corrosion which causes purely cosmetic damage, abuse or improper service; corrosion to accessories, instruments, steering systems; corrosion to factory installed jet drive unit; damage due to marine growth; product sold with less than a one year limited Product warranty; replacement parts (parts purchased by customer); products used in a commercial application. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

Corrosion damage caused by stray electrical currents (on-shore power connections, nearby boats, submerged metal) is not covered by this corrosion warranty and should be protected against by the use of a corrosion protection system, such as the Mercury Precision Parts or Quicksilver MerCathode system and/or Galvanic Isolator. Corrosion damage caused by improper application of copper base anti-fouling paints is also not covered by this limited warranty. If anti-fouling protection is required, Tri-Butyl-Tin-Adipate (TBTA) base anti-fouling paints are recommended on Outboard and MerCruiser boating applications. In areas where TBTA base paints are prohibited by law, copper base paints can be used on the hull and transom. Do not apply paint to the outboard or MerCruiser product. In addition, care must be taken to avoid an electrical interconnection between the warranted product and the paint. For MerCruiser product, an unpainted gap of at least 38 mm (1.5 in.) should be left around the transom assembly. Refer to the Operation and Maintenance Manual for additional details.

For additional information regarding events and circumstances covered by this warranty, and those that are not, see the Warranty Coverage section of the Operation and Maintenance Manual, incorporated by reference into this warranty.

DISCLAIMERS AND LIMITATIONS:

THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/COUNTRIES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH VARY FROM STATE TO STATE AND COUNTRY TO COUNTRY.

Warranty Coverage And Exclusions

The purpose of this section is to help eliminate some of the more common misunderstandings regarding warranty coverage. The following information explains some of the types of services that are not covered by warranty. The provisions set forth following have been incorporated by reference into the Three Year Limited Warranty Against Corrosion Failure, the International Limited Outboard Warranty, and the United States and Canada Limited Outboard Warranty.

Keep in mind that warranty covers repairs that are needed within the warranty period because of defects in material and workmanship. Installation errors, accidents, normal wear, and a variety of other causes that affect the product are not covered.

Warranty is limited to defects in material or workmanship, but only when the consumer sale is made in the country to which distribution is authorized by us.

Should you have any questions concerning warranty coverage, contact your authorized dealer. They will be pleased to answer any questions that you may have.

GENERAL EXCLUSIONS FROM WARRANTY

1. Minor adjustments and tune-ups, including checking, cleaning or adjusting spark plugs, ignition components, carburetor settings, filters, belts, controls, and checking lubrication made in connection with normal services.
WARRANTY INFORMATION

2. Factory installed jet drive units - Specific parts excluded from the warranty are: The jet drive impeller and jet drive liner damaged by impact or wear, and water damaged drive shaft bearings as a result of improper maintenance.

3. Damage caused by neglect, lack of maintenance, accident, abnormal operation or improper installation or service.

4. Haul out, launch, towing charges, removal and/or replacement of boat partitions or material because of boat design for necessary access to the product, all related transportation charges and/or travel time, etc. Reasonable access must be provided to the product for warranty service. Customer must deliver product to an authorized dealer.

5. Additional service work requested by customer other than that necessary to satisfy the warranty obligation.

6. Labor performed by other than an authorized dealer may be covered only under following circumstances: When performed on emergency basis (providing there are no authorized dealers in the area who can perform the work required or have no facilities to haul out, etc., and prior factory approval has been given to have the work performed at this facility).

7. All incidental and/or consequential damages (storage charges, telephone or rental charges of any type, inconvenience or loss of time or income) are the owner’s responsibility.

8. Use of other than Mercury Precision or Quicksilver parts when making warranty repairs.

9. Oils, lubricants or fluids changed as a matter of normal maintenance is customer's responsibility unless loss or contamination of same is caused by product failure that would be eligible for warranty consideration.

10. Participating in or preparing for racing or other competitive activity or operating with a racing type lower unit.

11. Engine noise does not necessarily indicate a serious engine problem. If diagnosis indicates a serious internal engine condition which could result in a failure, condition responsible for noise should be corrected under the warranty.

12. Lower unit and/or propeller damage caused by striking a submerged object is considered a marine hazard.

13. Water entering engine through the fuel intake, air intake or exhaust system or submersion.

14. Failure of any parts caused by lack of cooling water, which results from starting motor out of water, foreign material blocking inlet holes, motor being mounted too high or trimmed too far out.

15. Use of fuels and lubricants which are not suitable for use with or on the product. Refer to the Maintenance section.

16. Our limited warranty does not apply to any damage to our products caused by the installation or use of parts and accessories which are not manufactured or sold by us. Failures which are not related to the use of those parts or accessories are covered under warranty if they otherwise meet the terms of the limited warranty for that product.
Boater's Responsibilities

The operator (driver) is responsible for the correct and safe operation of the boat and safety of its occupants and general public. It is strongly recommended that each operator (driver) read and understand this entire manual before operating the outboard.

Be sure at least one additional person on board is instructed in the basics of starting and operating the outboard and boat handling in case the driver is unable to operate the boat.

Before Operating Your Outboard

Read this manual carefully. Learn how to operate your outboard properly. If you have any questions, contact your dealer.

Safety and operating information that is practiced, along with using good common sense, can help prevent personal injury and product damage.

This manual as well as safety labels posted on the outboard use the following safety alerts to draw your attention to special safety instructions that should be followed.

![DANGER]

**DANGER** - indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

![WARNING]

**WARNING** - indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

![CAUTION]

**CAUTION** - indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage. It may also be used to alert against unsafe practices.

Boat Horsepower Capacity

![WARNING]

**WARNING**

Using an outboard that exceeds the maximum horsepower limit of a boat can: 1) cause loss of boat control 2) place too much weight at the transom altering the designed flotation characteristics of the boat or 3) cause the boat to break apart particularly around the transom area. Overpowering a boat can result in serious injury, death or boat damage.

Do not overpower or overload your boat. Most boats will carry a required capacity plate indicating the maximum acceptable power and load as determined by the manufacturer following certain federal guidelines. If in doubt, contact your dealer or the boat manufacturer.
High-Speed And High-Performance Boat Operation

If your outboard is to be used on a high speed or high performance boat with which you are unfamiliar, we recommend that you never operate it at its high speed capability without first requesting an initial orientation and familiarization demonstration ride with your dealer or an operator experienced with your boat/outboard combination. For additional information, obtain a copy of our Hi-Performance Boat Operation booklet from your dealer, distributor, or Mercury Marine.

Outboard Remote Control Models

The remote control connected to your outboard must be equipped with a start in neutral only protection device. This prevents the engine from starting when the shift is actuated in any position other than neutral.

⚠️ WARNING

Avoid serious injury or death from a sudden unexpected acceleration when starting your engine. The design of this outboard requires that the remote control used with it must have a built in start in neutral only protection device.

Remote Steering Notice

The steering link rod that connects the steering cable to the engine must be fastened utilizing self-locking nuts. These self-locking nuts must never be replaced with common nuts (non-locking) as they will work loose and vibrate off, freeing the link rod to disengage.
WARNING
Disengagement of a steering link rod can result in the boat taking a full, sudden, sharp turn. This potentially violent action can cause occupants to be thrown overboard exposing them to serious injury or death.

Lanyard Stop Switch
The purpose of a lanyard stop switch is to turn off the engine when the operator moves far enough away from the operator’s position (as in accidental ejection from the operator’s position) to activate the switch. Tiller handle outboards and some remote control units are equipped with a lanyard stop switch. A lanyard stop switch can be installed as an accessory - generally on the dashboard or side adjacent to the operator’s position.

The lanyard is a cord usually between 122 and 152 cm (4 and 5 feet) in length when stretched out, with an element on one end made to be inserted into the switch and a snap on the other end for attaching to the operator. The lanyard is coiled to make its at-rest condition as short as possible to minimize the likelihood of lanyard entanglement with nearby objects. Its stretched-out length is made to minimize the likelihood of accidental activation should the operator choose to move around in an area close to the normal operator’s position. If it is desired to have a shorter lanyard, wrap the lanyard around the operator’s wrist or leg, or tie a knot in the lanyard.

Read the following Safety Information before proceeding.
Important Safety Information: The purpose of a lanyard stop switch is to stop the engine when the operator moves far enough away from the operator’s position to activate the switch. This would occur if the operator accidentally falls overboard or moves within the boat a sufficient distance from the operator’s position. Falling overboard and accidental ejections are more likely to occur in certain types of boats such as low sided inflatables, bass boats, high performance boats, and light, sensitive handling fishing boats operated by a hand tiller. Falling overboard and accidental ejections are also likely to occur as a result of poor operating practices such as sitting on the back of the seat or gunwale at planing speeds, standing at planing speeds, sitting on elevated fishing boat decks, operating at planing speeds in shallow or obstacle infested waters, releasing your grip on a steering wheel or tiller handle that is pulling in one direction, drinking alcohol or consuming drugs, or daring high speed boat maneuvers.

While activation of the lanyard stop switch will stop the engine immediately, a boat will continue to coast for some distance depending upon the velocity and degree of any turn at shut down. However, the boat will not complete a full circle. While the boat is coasting, it can cause injury to anyone in the boat's path as seriously as the boat would when under power.

We strongly recommend that other occupants be instructed on proper starting and operating procedures should they be required to operate the engine in an emergency (e.g. if the operator is accidentally ejected).

⚠️ WARNING

Should the operator fall out of the boat, the possibility of serious injury or death from being run over by the boat can be greatly reduced by stopping the engine immediately. Always properly connect both ends of the stop switch lanyard to the stop switch and the operator.

⚠️ WARNING

Avoid serious injury or death from deceleration forces resulting from accidental or unintended stop switch activation. The boat operator should never leave the operator’s station without first disconnecting the stop switch lanyard from the operator.

Accidental or unintended activation of the switch during normal operation is also a possibility. This could cause any, or all, of the following potentially hazardous situations:

- Occupants could be thrown forward due to unexpected loss of forward motion - a particular concern for passengers in the front of the boat who could be ejected over the bow and possibly struck by the gearcase or propeller.
- Loss of power and directional control in heavy seas, strong current or high winds.
- Loss of control when docking.

Protecting People In The Water

WHILE YOU ARE CRUISING

It is very difficult for a person standing or floating in the water to take quick action to avoid a boat heading in his/her direction, even at slow speed.

Always slow down and exercise extreme caution any time you are boating in an area where there might be people in the water.
GENERAL INFORMATION

Whenever a boat is moving (coasting) and the outboard gear shift is in neutral position, there is sufficient force by the water on the propeller to cause the propeller to rotate. This neutral propeller rotation can cause serious injury.

WHILE BOAT IS STATIONARY

**WARNING**

Stop your engine immediately whenever anyone in the water is near your boat. Serious injury to the person in the water is likely if contacted by a rotating propeller, a moving boat, a moving gearcase, or any solid device rigidly attached to a moving boat or gearcase.

Shift outboard into neutral and shut off the engine before allowing people to swim or be in the water near your boat.

Passenger Safety Message - Pontoon Boats And Deck Boats

Whenever the boat is in motion, observe the location of all passengers. Do not allow any passengers to stand or use seats other than those designated for traveling faster than idle speed. A sudden reduction in boat speed, such as plunging into a large wave or wake, a sudden throttle reduction, or a sharp change of boat direction, could throw them over the front of the boat. Falling over the front of the boat between the two pontoons will position them to be run over by the outboard.

**BOATS HAVING AN OPEN FRONT DECK**

No one should ever be on the deck in front of the fence while the boat is in motion. Keep all passengers behind the front fence or enclosure.

Persons on the front deck could easily be thrown overboard or persons dangling their feet over the front edge could get their legs caught by a wave and pulled into the water.

**WARNING**

Avoid serious injury or death from falling over the front end of a pontoon or deck boat and being run over. Stay back from the front end of the deck and remain seated while the boat is in motion.

**BOATS WITH FRONT MOUNTED, RAISED PEDESTAL FISHING SEATS**

Elevated fishing seats are not intended for use when the boat is traveling faster than idle or trolling speed. Sit only in seats designated for traveling at faster speeds.

Any unexpected, sudden reduction in boat speed could result in the elevated passenger falling over the front of the boat.
Wave And Wake Jumping

Operating recreational boats over waves and wake is a natural part of boating. However, when this activity is done with sufficient speed to force the boat hull partially or completely out of the water, certain hazards arise, particularly when the boat re-enters the water.

The primary concern is the boat changing direction while in the midst of the jump. In such case the landing may cause the boat to veer violently in a new direction. Such a sharp change in direction can cause occupants to be thrown out of their seats, or out of the boat.

**WARNING**

Avoid serious injury or death from being thrown within or out of a boat when it lands after jumping a wave or wake. Avoid wave or wake jumping whenever possible. Instruct all occupants that if a wake or wave jump occurs, get low and hang on to a boat hand hold.

There is another less common hazardous result from allowing your boat to launch off a wave or wake. If the bow of your boat pitches down far enough while airborne, upon water contact it may penetrate under the water surface and submarine for an instant. This will bring the boat to a nearly instantaneous stop and can send the occupants flying forward. The boat may also steer sharply to one side.

Impact With Underwater Hazards

Reduce speed and proceed with caution whenever you drive a boat in shallow water areas, or in areas where you suspect underwater obstacles may exist which could be struck by the outboard or the boat bottom. The most important thing you can do to help reduce injury or impact damage from striking a floating or underwater object is to control the boat speed. Under these conditions, boat speed should be kept to a minimum planing speed of 24 to 40 km/h (15 to 25 MPH).
To avoid serious injury or death from all or part of an outboard coming into the boat after striking a floating or underwater obstacle maintain a top speed no greater than minimum planing speed.

Striking a floating or underwater object could result in an infinite number of situations. Some of these situations could result in the following:

- Part of the outboard or the entire outboard could break loose and fly into the boat.
- The boat could move suddenly in a new direction. Such a sharp change in direction can cause occupants to be thrown out of their seats or out of the boat.
- A rapid reduction in speed. This will cause occupants to be thrown forward, or even out of the boat.
- Impact damage to the outboard and/or boat.

Keep in mind, the most important thing you can do to help reduce injury or impact damage during an impact is control the boat speed. Boat speed should be kept to a minimum planing speed when driving in waters known to have underwater obstacles.

After striking a submerged object, stop the engine as soon as possible and inspect it for any broken or loose parts. If damage is present or suspected, the outboard should be taken to an authorized dealer for a thorough inspection and necessary repair.

The boat should also be checked for any hull fractures, transom fractures, or water leaks.

Operating a damaged outboard could cause additional damage to other parts of the outboard, or could affect control of the boat. If continued running is necessary, do so at greatly reduced speeds.

Avoid serious injury or death from loss of boat control. Continued boating with major impact damage can result in sudden outboard component failure with or without subsequent impacts. Have the outboard thoroughly inspected and any necessary repairs made.

Exhaust Emissions

BE ALERT TO CARBON MONOXIDE POISONING

Carbon monoxide is present in the exhaust fumes of all internal combustion engines. This includes the outboards, sterndrives and inboard engines that propel boats, as well as the generators that power various boat accessories. Carbon monoxide is a deadly gas that is odorless, colorless and tasteless.

Early symptoms of carbon monoxide poisoning which should not be confused with seasickness or intoxication, include headache, dizziness, drowsiness, and nausea.

Avoid the combination of a running engine and poor ventilation. Prolonged exposure to carbon monoxide in sufficient concentration can lead to unconsciousness, brain damage, or death.
GENERAL INFORMATION

GOOD VENTILATION
Ventilate passenger area, open side curtains, or forward hatches to remove fumes.

Example of desired air flow through the boat

POOR VENTILATION
Under certain running and/or wind conditions, permanently enclosed or canvas enclosed cabins or cockpits with insufficient ventilation may draw in carbon monoxide. Install one or more carbon monoxide detectors in your boat.

Although the occurrence is rare, on a very calm day, swimmers and passengers in an enclosed area of a stationary boat that contains or is near a running engine may be exposed to a hazardous level of carbon monoxide.

WHILE BOAT IS STATIONARY

a - Running the engine when the boat is moored in a confined space
b - Mooring close to another boat that has its engine running

WHILE BOAT IS MOVING

a - Running the boat with the trim angle of the bow too high
b - Running the boat with no forward hatches open

Selecting Accessories For Your Outboard
Genuine Mercury Precision or Quicksilver Accessories have been specifically designed and tested for your outboard. These accessories are available from Mercury Marine dealers.
GENERAL INFORMATION

WARNING

Check with your dealer before installation of accessories. The misuse of acceptable accessories or the use of unacceptable accessories can result in serious injury, death, or product failure.

Some accessories not manufactured or sold by Mercury Marine are not designed to be safely used with your outboard or outboard operating system. Acquire and read the installation, operation, and maintenance manuals for all your selected accessories.

Safe Boating Suggestions

In order to safely enjoy the waterways, familiarize yourself with local and other governmental boating regulations and restrictions, and consider the following suggestions.

Use flotation devices. Have an approved personal flotation device of suitable size for each person aboard (it is the law) and have it readily accessible.

Do not overload your boat. Most boats are rated and certified for maximum load (weight) capacities (refer to your boat capacity plate). If in doubt, contact your dealer or the boats manufacturer.

Perform safety checks and required maintenance. Follow a regular schedule and ensure that all repairs are properly made.

Know and obey all nautical rules and laws of the waterways. Boat operators should complete a boating safety course. Courses are offered in the U.S.A. by 1) The U.S. Coast Guard Auxiliary, 2) The Power Squadron, 3) The Red Cross and 4) your state boating law enforcement agency. Inquiries may be made to the Boating Hotline, 1-800-368-5647 or the Boat U.S. Foundation information number 1-800-336-BOAT.

Make sure everyone in the boat is properly seated. Do not allow anyone to sit or ride on any part of the boat that was not intended for such use. This includes the back of seats, gunwales, transom, bow, decks, raised fishing seats, any rotating fishing seat; or anywhere that an unexpected acceleration, sudden stopping, unexpected loss of boat control, or sudden boat movement could cause a person to be thrown overboard or into the boat.

Never be under the influence of alcohol or drugs while boating (it is the law). Alcohol or drug use impairs your judgment and greatly reduces your ability to react quickly.

Prepare other boat operators. Instruct at least one other person on board in the basics of starting and operating the outboard, and boat handling, in case the driver becomes disabled or falls overboard.

Passenger boarding. Stop the engine whenever passengers are boarding, unloading, or are near the back (stern) of the boat. Just shifting the outboard into neutral is not sufficient.

Be alert. The operator of the boat is responsible by law to maintain a proper lookout by sight and hearing. The operator must have an unobstructed view particularly to the front. No passengers, load, or fishing seats should block the operators view when operating the boat above idle speed.

Never drive your boat directly behind a water skier in case the skier falls. As an example, your boat traveling at 40 km/h (25 MPH) will overtake a fallen skier 61 m (200 ft.) in front of you in 5 seconds.

Watch fallen skiers. When using your boat for water skiing or similar activities, always keep a fallen or down skier on the operator's side of the boat while returning to assist the skier. The operator should always have the down skier in sight and never back up to the skier or anyone in the water.

Report accidents. Boat operators are required by law to file a Boating Accident Report with their state boating law enforcement agency when their boat is involved in certain boating accidents. A boating accident must be reported if 1) there is loss of life or probable loss of life, 2) there is personal injury requiring medical treatment beyond first aid, 3) there is damage to boats or other property where the damage value exceeds $500.00 or 4) there is complete loss of the boat. Seek further assistance from local law enforcement.

Recording Serial Number

It is important to record this number for future reference. The serial number is located on the outboard as shown.
### GENERAL INFORMATION

- **Serial number**: a
- **Model year**: b
- **Model designation**: c
- **Year manufactured**: d
- **Certified Europe Insignia (as applicable)**: e

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### 200/225 4-Stroke Specifications - International

<table>
<thead>
<tr>
<th>Models</th>
<th>225</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horsepower</td>
<td>225</td>
</tr>
<tr>
<td>Kilowatts</td>
<td>168</td>
</tr>
<tr>
<td>Full Throttle RPM range</td>
<td>5000-6000</td>
</tr>
<tr>
<td>Idle RPM in Neutral Engine Warm&lt;sup&gt;1&lt;/sup&gt;</td>
<td>650-750</td>
</tr>
<tr>
<td>Number of Cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Piston Displacement</td>
<td>3,352 cc (204.54 cu. in.)</td>
</tr>
<tr>
<td>Cylinder Bore</td>
<td>94.0 mm (3.70 in)</td>
</tr>
<tr>
<td>Stroke</td>
<td>80.5 mm (3.17 in.)</td>
</tr>
<tr>
<td>Valve Clearance (cold)</td>
<td></td>
</tr>
<tr>
<td>Intake Valve</td>
<td>0.17 - 0.23 mm (0.007 - 0.009 in.)</td>
</tr>
<tr>
<td>Exhaust Valve</td>
<td>0.31 - 0.37 (0.012 - 0.015 in.)</td>
</tr>
<tr>
<td>Recommended Spark Plug</td>
<td>NGK LFR5A-11</td>
</tr>
<tr>
<td>Spark Plug Gap</td>
<td>1.1 mm (0.043 in.)</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>2.00:1</td>
</tr>
<tr>
<td>Recommended Fuel</td>
<td>Refer to Fuel &amp; Oil</td>
</tr>
<tr>
<td>Recommended Oil</td>
<td>Refer to Fuel &amp; Oil</td>
</tr>
<tr>
<td>Gearcase Lubricant Capacity</td>
<td>1.15 l (39.0 fl. oz.)</td>
</tr>
<tr>
<td>Engine Oil Capacity</td>
<td></td>
</tr>
<tr>
<td>Without Oil Filter Replacement</td>
<td>5.8 l (6.1 qt)</td>
</tr>
<tr>
<td>With Oil Filter Replacement</td>
<td>6.0 l (6.3 qt)</td>
</tr>
</tbody>
</table>

<sup>1</sup> With engine fully warmed up
## GENERAL INFORMATION

<table>
<thead>
<tr>
<th>Models</th>
<th>225</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Rating</td>
<td></td>
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<tr>
<td>Operation Above 0°C (32°F)</td>
<td>465 MCA (Marine Cranking Amps) or 350 CCA (Cold Cranking Amps)</td>
</tr>
<tr>
<td>Operation Below 0°C (32°F)</td>
<td>1000 MCA (Marine Cranking Amps) or 750 CCA (Cold Cranking Amps)</td>
</tr>
<tr>
<td>Ampere Hour (AH)</td>
<td>70-100</td>
</tr>
<tr>
<td>Sound at Drivers Ear (ICOMIA 39-94)</td>
<td>81 dBA</td>
</tr>
</tbody>
</table>

### Component Identification

- **a** - Top cowl
- **b** - Bottom cowl
- **c** - Engine flush
- **d** - Driveshaft housing
- **e** - Anti-ventilation plate
- **f** - Trim tab
- **g** - Water pump indicator hole
- **h** - Auxiliary tilt switch
- **i** - Transom brackets
- **j** - Gearcase
- **k** - Cooling water intake holes

![Component Identification Diagram]

Note: The diagram shows the identification of different components on a boat motor, with each part labeled accordingly.
INSTALLATION

Installing Outboard

⚠️ WARNING

Before operation, the outboard must be correctly installed with the required mounting hardware as shown. Failure to correctly fasten outboard could result in outboard ejecting off boat transom causing serious injury, death, or property damage.

We strongly recommend that your dealer install your outboard and related accessories to ensure proper installation and good performance. If you install the outboard yourself, follow instructions in the Outboard Installation Manual which is provided with the outboard.

The outboard must be secured to the transom with the four 12.7 mm (1/2 in.) diameter mounting bolts and locknuts provided. Install two bolts through the upper set of holes and two bolts through the lower set of holes.

MAXIMUM OUTBOARD MOUNTING HEIGHT

The mounting height of the outboard must not exceed 63.5 cm (25 in.) for XL models and 76.2 cm (30 in.) for XXL models. Mounting the outboard higher may cause damage to the gearcase components.

Propeller Selection

For best all around performance from your outboard/boat combination, select a propeller that allows the engine to operate in the upper half of the recommended full throttle RPM range with the boat normally loaded (refer to General Information - Specifications). This RPM range allows for better acceleration while maintaining maximum boat speed.
If changing conditions cause the RPM to drop below the recommended range, such as warmer, more humid weather, operation at higher elevations, increased boat load, or a dirty boat bottom/gearcase, a propeller change or cleaning may be required to maintain performance and ensure the outboards durability.

Check full-throttle RPM, using an accurate tachometer, with the engine trimmed out to a balanced-steering condition (steering effort equal in both directions) without causing the propeller to break loose.
TRANSPORTING

Trailering Boat/Outboard

Trailer your boat with the outboard tilted down in a vertical operating position. If additional ground clearance is required, the outboard should be tilted up using an accessory outboard support device. Refer to your local dealer for recommendations. Additional clearance may be required for railroad crossings, driveways and trailer bouncing.

IMPORTANT: Do not rely on the power trim/tilt system or tilt support lever to maintain proper ground clearance for trailering. The outboard tilt support lever is not intended to support the outboard for trailering.

Shift the outboard to forward gear. This prevents the propeller from spinning freely.
Fuel Recommendations

IMPORTANT: Use of improper gasoline can damage your engine. Engine damage resulting from the use of improper gasoline is considered misuse of the engine, and damage caused thereby will not be covered under the limited warranty.

FUEL RATINGS

Mercury Marine engines will operate satisfactorily when using a major brand of unleaded gasoline meeting the following specifications:

USA and Canada - having a posted pump Octane Rating of 87 (R+M)/2 minimum. Premium gasoline [92 (R+M)/2 Octane] is also acceptable. Do NOT use leaded gasoline.

Outside USA and Canada - having a posted pump Octane Rating of 90 RON minimum. Premium gasoline (98 RON) is also acceptable. If unleaded gasoline is not available, use a major brand of leaded gasoline.

USING REFORMULATED (OXYGENATED) GASOLINES (USA ONLY)

This type of gasoline is required in certain areas of the USA. The 2 types of oxygenates used in these fuels are Alcohol (Ethanol) or Ether (MTBE or ETBE). If Ethanol is the oxygenate that is used in the gasoline in your area, refer to Gasolines Containing Alcohol. These Reformulated Gasolines are acceptable for use in your Mercury Marine engine.

GASOLINES CONTAINING ALCOHOL

If the gasoline in your area contains either methanol (methyl alcohol) or ethanol (ethyl alcohol), you should be aware of certain adverse effects that can occur. These adverse effects are more severe with methanol. Increasing the percentage of alcohol in the fuel can also worsen these adverse effects.

Some of these adverse effects are caused because the alcohol in the gasoline can absorb moisture from the air, resulting in a separation of the water/alcohol from the gasoline in the fuel tank.

The fuel system components on your Mercury Marine engine will withstand up to 10% alcohol content in the gasoline. We do not know what percentage your boat's fuel system will withstand. Contact your boat manufacturer for specific recommendations on the boat's fuel system components (fuel tanks, fuel lines, and fittings). Be aware that gasolines containing alcohol may cause increased:

• Corrosion of metal parts
• Deterioration of rubber or plastic parts
• Fuel permeation through rubber fuel lines
• Starting and operating difficulties

WARNING

FIRE AND EXPLOSION HAZARD: Fuel leakage from any part of the fuel system can be a fire and explosion hazard which can cause serious bodily injury or death. Careful periodic inspection of entire fuel system is mandatory, particularly after storage. All fuel components should be inspected for leakage, softening, hardening, swelling or corrosion. Any sign of leakage or deterioration requires replacement before further engine operation.

Because of possible adverse effects of alcohol in gasoline, it is recommended that only alcohol-free gasoline be used where possible. If only fuel containing alcohol is available, or if the presence of alcohol is unknown, increased inspection frequency for leaks and abnormalities is required.

IMPORTANT: When operating a Mercury Marine engine on gasoline containing alcohol, storage of gasoline in the fuel tank for long periods should be avoided. Long periods of storage, common to boats, create unique problems. In cars, alcohol-blend fuels normally are consumed before they can absorb enough moisture to cause trouble, but boats often sit idle long enough for phase separation to take place. In addition, internal corrosion may take place during storage if alcohol has washed protective oil films from internal components.
FUEL AND OIL

Filling Fuel Tank

⚠️ WARNING
Avoid serious injury or death from a gasoline fire or explosion. Always stop the engine and do not smoke or allow open flames or sparks in the area while filling fuel tanks.

Fill fuel tanks outdoors away from heat, sparks, and open flames.
Remove portable fuel tanks from boat to refill them.
Always stop engine before refilling tanks.
Do not completely fill the fuel tanks. Leave approximately 10% of the tank volume unfilled. Fuel will expand in volume as its temperature rises and can leak under pressure if the tank is completely filled.

PORTABLE FUEL TANK PLACEMENT IN THE BOAT
Place the fuel tank in the boat so the vent is higher than the fuel level under normal boat operating conditions.

Engine Oil Recommendations

We recommend the use of Mercury or Quicksilver NMMA FC-W certified synthetic blend 25W-40 4-Stroke Outboard Oil for general, all-temperature use. If SAE 10W-30 oil is preferred, use Mercury or Quicksilver NMMA FC-W certified 10W-30 4-Stroke Outboard Oil. If the recommended Mercury or Quicksilver NMMA FC-W certified outboard oils are not available, a major brand of NMMA FC-W certified 4-stroke outboard oil of similar viscosity may be used.

When operating in temperatures above 4 °C (40° F), we encourage the use of NMMA FC-W certified synthetic blend 25W-40 4-Stroke Outboard Oil.

IMPORTANT: The use of non detergent oils, multi-viscosity oils (other than Mercury or Quicksilver NMMA FC-W certified oil or a major brand NMMA FC-W certified oil), synthetic oils, low quality or oils that contain solid additives are not recommended.
Recommended SAE Viscosity for Engine Oil

- NMMA FC-W certified 10W-30 outboard oil may be used at temperatures below 4 °C (40 °F)
- NMMA FC-W certified synthetic blend 25W-40 outboard oil may be used in all temperatures.

Checking And Adding Engine Oil

IMPORTANT: Do not overfill. Be sure that the outboard is upright (not tilted) when checking oil.

1. Turn the engine off. Have the outboard in a level operating position. Remove the top cowl.
2. Pull out the dipstick. Wipe it with a clean rag or towel and push it back in all the way.
3. Pull the dipstick back out again and observe the oil level. Oil must be between full mark and add mark. If the oil level is low, remove the oil filler cap and fill to (but not over) the upper oil level.

IMPORTANT: Inspect oil for signs of contamination. Oil contaminated with water will have a milky color to it; oil contaminated with fuel will have a strong fuel smell. If contaminated oil is noticed, have the engine checked by your dealer.

4. Push the dipstick back in all the way. Reinstall the oil fill cap hand tight.
FUEL AND OIL

- **a** - Full mark
- **b** - Add mark
- **c** - Dipstick
- **d** - Oil filler cap
FEATURES AND CONTROLS

Remote Control Features
Your boat may be equipped with one of the Mercury Precision or Quicksilver remote controls shown. If not, consult your dealer for a description of the functions and operations of the remote control.

![Remote Control Features Diagram]

- **a** - Control handle - forward, neutral, reverse.
- **b** - Neutral release lever
- **c** - Trim/tilt switch (if equipped). - Refer to Features & Controls - Power Trim and Tilt.
- **d** - Lanyard stop switch - Refer to General Information - Lanyard Stop Switch.
- **e** - Lanyard - Refer to General Information - Lanyard Stop Switch.
- **f** - Throttle friction adjustment - Console controls require cover removal for adjustment.
- **g** - Ignition key switch - "OFF," "ON," START.
- **h** - Fast idle lever - Refer to Operation - Starting the Engine.
- **i** - Throttle only button - Refer to Operation - Starting the Engine.

Warning System
The outboard warning system incorporates a warning horn inside the boat. The warning horn may be located inside the remote control or connected to the ignition key switch.

![Warning System Diagram]

- **a** - Horn inside remote control
- **b** - Horn connected to ignition key switch

**WARNING SYSTEM OPERATION**
If the engine overheats or the oil pressure drops too low, the warning system will be activated. The warning horn will sound continuously and engine speed will be limited to 2000 RPM.
FEATURES AND CONTROLS

WARNING SYSTEM ACTIVATED
If the warning system is activated, immediately reduce engine speed to idle. Shift outboard into neutral and visually check for a steady flow of water discharging from the water pump indicator hole. If no water is flowing out, the water pump is not working and the engine is overheating. See Engine Overheat, following.

If the water is discharging from the water pump indicator hole, stop the engine and check the oil level. A low oil pressure problem may exist. See Low Oil Pressure.

ENGINE OVERHEAT
If the engine overheats, immediately reduce throttle speed to idle. Shift outboard into neutral and check for a steady stream of water coming out of the water pump indicator hole.

If no water is coming out of the water pump indicator hole or flow is intermittent, stop engine and check the cooling water intake holes for obstruction. If no obstruction is found, there may be a blockage in the cooling system or a water pump problem. Have the outboard checked by your dealer. Operating the engine while overheated will cause engine damage.

NOTE: Should overheating occur and you are stranded, stop the engine and allow it to cool down. This will usually allow some additional low speed (idle) running time before the engine starts to overheat again. Operating an overheated engine will cause engine damage.

If a steady flow of water is coming out of the water pump indicator hole and the engine continues to overheat, consult your dealer. Operating an overheated engine will cause engine damage.

LOW OIL
The warning system will be activated if the oil pressure drops too low. First, stop the engine and check the oil level. Add oil if necessary. If the oil is at the recommended level and the warning horn continues to sound, consult your dealer. Engine speed will be limited to 2000 RPM, however you should not continue to run engine.

Power Trim and Tilt
Your outboard has a trim/tilt control called power trim. This enables the operator to easily adjust the position of the outboard by pressing the trim switch. Moving the outboard in closer to the boat transom is called trimming in or down. Moving the outboard further away from the boat transom is called trimming out or up. The term trim generally refers to the adjustment of the outboard within the first 20° range of travel. This is the range used while operating your boat on plane. The term tilt is generally used when referring to adjusting the outboard further up out of the water. With the engine turned off, the outboard can be tilted out of the water. At low idle speed, the outboard can also be tilted up past the trim range to permit, for example, shallow water operation.
FEATURES AND CONTROLS

POWER TRIM OPERATION

With most boats, operating around the middle of the trim range will give satisfactory results. Trimming your outboard all the way in or out may improve performance, but cause some potential control hazards.

**WARNING**

Avoid possible serious injury or death. When the outboard is trimmed in or out beyond a neutral steering condition, a pull on the steering wheel in either direction may result. Failure to keep a continuous firm grip on the steering wheel when this condition exists can result in loss of boat control as the outboard can turn freely. The boat can now spin out or go into a very tight maximum turn which, if unexpected, can result in occupants being thrown within the boat or out of the boat.

Consider the following lists carefully.

1. **Trimming In or Down Can:**
   - Lower the bow.
   - Result in quicker planing off, especially with a heavy load or a stern heavy boat.
   - Generally improve the ride in choppy water.
   - Increase steering torque or pull to the right (with the normal right hand rotation propeller).
   - In excess can lower the bow of some boats to a point where they begin to plow with their bow in the water while on plane. This can result in an unexpected turn in either direction (called bow steering or over-steering) if any turn is attempted, or if a significant wave is encountered.

   **WARNING**

   Avoid possible serious injury or death. Adjust outboard to an intermediate trim position as soon as boat is on plane to avoid possible ejection due to boat spin out. Do not attempt to turn boat when on plane if outboard is trimmed extremely in or down and there is a pull on the steering wheel.

   - In rare circumstances, the owner may decide to limit the trim in. This can be accomplished by purchasing a stainless steel tilt pin from your dealer and inserting it in whatever adjustment hole in the transom brackets is desired. The non-stainless steel shipping bolt should not be used in this application other than on a temporary basis.

2. **Trimming Out or Up can:**
   - Lift the bow higher out of the water.
   - Generally increase top speed.
FEATURES AND CONTROLS

• Increase clearance over submerged objects or a shallow bottom.
• Increase steering torque or pull to the left at a normal installation height (with the normal right hand rotation propeller).
• In excess can cause boat porpoising (bouncing) or propeller ventilation.
• Cause engine overheating if any cooling water intake holes are above the water line.

TILTING OPERATION

To tilt outboard, shut off the engine and press the trim/tilt switch or auxiliary tilt switch to the up position. The outboard will tilt up until the switch is released or it reaches its maximum tilt position.

1. Engage the tilt support lever.
2. Lower outboard to rest on the tilt support lever.
3. Disengage the tilt support lever, by raising the outboard off the support lever and rotating the lever down. Lower the outboard.

MANUAL TILTING

If the outboard cannot be tilted using the power trim/tilt switch, the outboard can be manually tilted.

1. Turn out the manual tilt release valve 3 turns counterclockwise. This allows manual tilting of the outboard. Tilt the outboard to the desired position and tighten the manual tilt release valve.

**NOTE:** The manual tilt release valve must be tightened before operating the outboard to prevent the outboard from tilting up during reverse operation.

AUXILIARY TILT SWITCH

This switch can be used to tilt the outboard up or down using the power trim system.
FEATURES AND CONTROLS

SHALLOW WATER OPERATION
When operating your boat in shallow water, you can tilt the outboard beyond the maximum trim range to prevent hitting bottom.

1. Reduce engine speed below 2000 RPM.
2. Tilt outboard up. Make sure all the water intake holes stay submerged at all times.
3. Operate the engine at slow speed only. If engine speed exceeds 2000 RPM, the outboard will automatically return down to the maximum trim range.

Trim Tab Adjustment
Propeller steering torque will cause the boat to pull in one direction. This steering torque is a normal result from the outboard not trimmed so the propeller shaft is parallel to the water surface. The trim tab can help compensate for this steering torque in many cases and can be adjusted within limits to reduce any unequal steering effort.

NOTE: Trim tab adjustment will have little effect reducing steering torque if the outboard is installed with the anti-ventilation plate approximately 50 mm (2 inches) or more above the boat bottom.

Operate your boat at normal cruising speed, trimmed to the desired position. Turn your boat left and right and note the direction the boat turns more easily.

If adjustment is necessary, loosen trim tab bolt and make small adjustments at a time. If the boat turns more easily to the left, move the trailing edge of trim tab to the left. If the boat turns more easily to the right, move the trailing edge of trim tab to the right. Retighten bolt and retest.
Pre-Starting Check List

- Operator knows safe navigation, boating, and operating procedures.
- An approved personal flotation device of suitable size for each person aboard and readily accessible (it is the law).
- A ring type life buoy or buoyant cushion designed to be thrown to a person in the water.
- Know your boat's maximum load capacity. Look at the boat's capacity plate.
- Fuel supply OK.
- Arrange passengers and load in the boat so the weight is distributed evenly and everyone is seated in a proper seat.
- Tell someone where you are going and when you expect to return.
- It is illegal to operate a boat while under the influence of alcohol or drugs.
- Know the waters and area you will be boating; tides, currents, sand bars, rocks, and other hazards.
- Make inspection checks listed in Maintenance - Inspection and Maintenance Schedule.

Operating In Freezing Temperatures

When using your outboard or having your outboard moored in freezing or near freezing temperatures, keep the outboard tilted down at all times so the gearcase is submerged. This prevents trapped water in gearcase from freezing and causing possible damage to the water pump and other components. If there is a chance of ice forming on the water, the outboard should be removed and drained completely of water. If ice should form at the water level inside the outboard driveshaft housing, it will block water flow to the engine causing possible damage.

Operating In Salt Water Or Polluted Water

We recommend that you flush the internal water passages of your outboard with fresh water after each use in salt or polluted water. This will prevent a buildup of deposits from clogging the water passages. Refer to Maintenance - Flushing The Cooling System.

If you keep your boat moored in the water, always tilt the outboard so the gearcase is completely out of water (except in freezing temperatures) when not in use.

Wash the outboard exterior and flush out the exhaust outlet of the propeller and gearcase with fresh water after each use. Each month, spray Mercury Precision or Quicksilver Corrosion Guard on external metal surfaces. Do not spray on corrosion control anodes as this will reduce the effectiveness of the anodes.

Engine Break-in Procedure

⚠️ CAUTION

Severe damage to the engine can result by not complying with the Engine Break-in Procedure.

1. For the first hour of operation, run the engine at varied throttle settings up to 3500 RPM or at approximately half throttle.
2. For the second hour of operation, run the engine at varied throttle settings up to 4500 RPM or at three-quarter throttle, and during this period of time, run it at full throttle for approximately one minute every ten minutes.
3. For the next eight hours of operation, avoid continuous operation at full throttle for more than five minutes at a time.

Starting The Engine

Before starting, read the Pre-Starting Check List, Special Operating Instructions, and Engine Break-in Procedure in the Operation Section.
Never start or operate your outboard (even momentarily) without water circulating through all the cooling water intake holes in the gearcase to prevent damage to the water pump (running dry) or overheating of the engine.

1. Make sure the cooling water intake is submerged.

2. Check the engine oil level.

3. Open fuel tank vent on manual venting type tanks.

4. Squeeze the fuel line primer bulb several times until it feels firm.

5. Set the lanyard stop switch to the "RUN" position. Refer to General Information - Lanyard Stop Switch.

**NOTE:** The engine will not start unless the lanyard is set to the "RUN" position.
6. Shift outboard to neutral (N) position.

7. Do not advance the neutral fast idle speed feature on the remote control. The enrichener system will automatically increase engine speed for starting and warm-up.

**NOTE:** Allow the ignition key to return to the "ON" position after engine starts.

8. Turn ignition key to the "START" position. If engine fails to start in ten seconds, return key to "ON" position, wait 30 seconds and try again.

**IMPORTANT:** If no water is coming out of the water pump indicator hole, stop engine and check cooling water intake for obstruction. No obstruction may indicate a water pump failure or blockage in the cooling system. These conditions will cause the engine to overheat. Have the outboard checked by your dealer. Operating the engine while overheated may cause serious engine damage.

9. After engine starts, check for a steady stream of water flowing out of the water pump indicator hole.
WARMING UP ENGINE
Before beginning operation, allow the engine to warm up at idling speed for 3 minutes.

Gear Shifting
IMPORTANT: Observe the following:
• Never shift outboard into gear unless engine speed is at idle.
• Do not shift outboard into reverse when the engine is not running.
• Your outboard has three gear shift positions to provide operation. Forward (F), Neutral (N) and Reverse (R).
• When shifting, always stop at neutral position and allow the engine speed to return to idle.
• Always shift outboard into gear with a quick motion.
• After shifting outboard into gear, advance the lever further to increase speed.

Stopping The Engine
Reduce engine speed and shift outboard to neutral position. Turn ignition key to “OFF” position.
MAINTENANCE

Outboard Care
To keep your outboard in the best operating condition, it is important that your outboard receive the periodic inspections and maintenance listed in the Inspection and Maintenance Schedule. We urge you to keep it maintained properly to ensure the safety of you and your passengers, and retain its dependability.

⚠️ WARNING
Neglected inspection and maintenance service of your outboard or attempting to perform maintenance or repair on your outboard if you are not familiar with the correct service and safety procedures could cause personal injury, death, or product failure.

Record maintenance performed in the Maintenance Log at the back of this book. Save all maintenance work orders and receipts.

SELECTING REPLACEMENT PARTS FOR YOUR OUTBOARD
We recommend using original Mercury Precision or Quicksilver replacement parts and Genuine Lubricants.

⚠️ WARNING
Using a replacement part that is inferior to the original part could result in personal injury, death, or product failure.

EPA Emissions
EMISSION CERTIFICATION LABEL
An emission certification label, showing emission levels and engine specifications directly related to emissions, is placed on the engine at time of manufacture.

<table>
<thead>
<tr>
<th>EMISSION CONTROL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>THIS ENGINE CONFORMS TO CALIFORNIA AND U.S. EPA EMISSION REGULATIONS FOR SPARK IGNITION MARINE ENGINES</td>
</tr>
<tr>
<td>REFER TO OWNERS MANUAL FOR REQUIRED MAINTENANCE, SPECIFICATIONS AND ADJUSTMENTS</td>
</tr>
<tr>
<td>IDLE SPEED (in gear): [ ] FAMILY: [ ]</td>
</tr>
<tr>
<td>— hp [ ] cc [ ] FRI: [ ] kW h</td>
</tr>
<tr>
<td>TIMING (IN DEGREES): [ ]</td>
</tr>
<tr>
<td>SPARK PLUG: [ ] GAP: [ ]</td>
</tr>
<tr>
<td>COLD VALVE CLEARANCE (mm) INTAKE: [ ] EX-AUST: [ ]</td>
</tr>
</tbody>
</table>

a - Idle speed  f - Family number
b - Engine horsepower  g - Maximum emission output for the engine family
c - Piston displacement  h - Timing specification
d - Date of manufacture  i - Recommended spark plug and gap
e - Valve clearance (if applicable)

OWNER RESPONSIBILITY
The owner/operator is required to have routine engine maintenance performed to maintain emission levels within prescribed certification standards.
MAINTENANCE

The owner/operator is not to modify the engine in any manner that would alter the horsepower or allow emissions levels to exceed their predetermined factory specifications.

Inspection And Maintenance Schedule

BEFORE EACH USE

• Check engine oil level. See Fuel & Oil - Checking and Adding Engine Oil.
• Check that lanyard stop switch stops the engine.
• Visually inspect the fuel system for deterioration or leaks.
• Check outboard for tightness on transom.
• Check steering system for binding or loose components.
• Visually check steering link rod fasteners for proper tightness. See Steering Link Rod Fasteners.
• Check propeller blades for damage.

AFTER EACH USE

• Flush out the outboard cooling system if operating in salt or polluted water. See Flushing the Cooling System.
• Wash off all salt deposits and flush out the exhaust outlet of the propeller and gearcase with fresh water if operating in salt water.

EVERY 100 HOURS OF USE OR ONCE YEARLY, WHICHEVER OCCURS FIRST

• Lubricate all lubrication points. Lubricate more frequently when used in salt water. See Lubrication Points.
• Change engine oil and replace the oil filter. The oil should be changed more often when the engine is operated under adverse conditions such as extended trolling. See Changing Engine Oil.
• Replace spark plugs at first 100 hours or first year. After that, inspect spark plugs every 100 hours or once yearly. Replace spark plugs as needed. See Spark Plug Inspection and Replacement.
• Inspect thermostat visually for corrosion and broken spring. Make sure thermostat closes completely at room temperature. ¹
• Check engine fuel filter for contaminants. See Fuel System.
• Check engine timing setup. ¹
• Check corrosion control anodes. Check more frequently when used in salt water. See Corrosion Control Anodes.
• Drain and replace gearcase lubricant. See Gearcase Lubrication.
• Lubricate splines on the driveshaft. ¹
• Check power trim fluid. See Checking Power Trim Fluid.
• Inspect battery. See Battery Inspection.
• Check control cable adjustments. ¹
• Accessory drive belt inspection. See Accessory Drive Belt Inspection.
• Check tightness of bolts, nuts, and other fasteners.
• Check flywheel nut tightness. ¹
• Check idle speed. ¹
• Check control cable adjustment. ¹
• Check cowl seals to make sure seals are intact and not damaged.
• Check internal cowl sound reduction foam (if equipped) to make sure foam is intact and not damaged.

¹ These items should be serviced by an authorized dealer.
MAINTENANCE

- Check that the intake silencer (if equipped) is in place.
- Check that the idle relief muffler (if equipped) is in place.
- Check for loose hose clamps and rubber boots (if equipped) on the air intake assembly.

EVERY 300 HOURS OF USE OR THREE YEARS
- Replace water pump impeller (more often if overheating occurs or reduced water pressure is noted).

EVERY 400 HOURS OR FOUR YEARS
- Check oil pump.
- Check/replace timing chain tensioner.
- Check and adjust valve clearance, if necessary.

EVERY 1000 HOURS OR FIVE YEARS
- Replace accessory drive belt.

BEFORE PERIODS OF STORAGE
- Refer to Storage procedure. See Storage section.

Flushing The Cooling System
Flush the internal water passages of the outboard with fresh water after each use in salt, polluted, or muddy water. This will help prevent a buildup of deposits from clogging the internal water passages.

NOTE: You can have the outboard tilted or in the vertical operating position during flushing.

1. With the engine turned off, place the outboard in either the operating position (vertical) or in a tilted position.
2. Disconnect the flush connector from fitting on the bottom cowl.
3. Thread a water hose into the flush fitting.
4. Turn on the water tap (1/2 maximum) and let the water flush through the cooling system for about 15 minutes.

5. When flushing is complete, turn off water and disconnect the water hose. Reinstall the flushing connector to the fitting on the bottom cowl. Tighten the connector securely.

Top Cowl Removal And Installation

REMOVAL
1. Pull up the front and side cowl lock latches.

2. Lift off the top cowl.

INSTALLATION
1. Lower top cowl into position over engine. Make sure it fits properly in the rubber seal.
2. Lock cowl by moving the cowl lock latches downward.

Cleaning Care for Top Cowl

IMPORTANT: Dry wiping (wiping the plastic surface when it is dry) will result in minor surface scratches. Always wet the surface before cleaning. Follow cleaning and waxing procedure.

CLEANING AND WAXING PROCEDURE
1. Before washing, rinse the top cowl with clean water to remove dirt and dust that may scratch the surface.
2. Wash the top cowl with clean water and a mild non-abrasive soap. Use a soft clean cloth when washing.
3. Dry thoroughly with a soft clean cloth.
4. Wax the surface using a non-abrasive automotive polish (polish designed for clear coat finishes). Remove the applied wax by hand using a clean soft cloth.

Fuel System

⚠️ WARNING

Avoid serious injury or death from gasoline fire or explosion. Carefully follow all fuel system service instructions. Always stop the engine and do not smoke or allow open flames or sparks in the area while servicing any part of the fuel system.
Before servicing any part of the fuel system, stop engine and disconnect the battery. Drain the fuel system completely. Use an approved container to collect and store fuel. Wipe up any spillage immediately. Material used to contain spillage must be disposed of in an approved receptacle. Any fuel system service must be performed in a well ventilated area. Inspect any completed service work for sign of fuel leakage.

**FUEL LINE INSPECTION**

Visually inspect the fuel line and primer bulb for cracks, swelling, leaks, hardness, or other signs of deterioration or damage. If any of these conditions are found, the fuel line or primer bulb must be replaced.

**ENGINE FUEL FILTER**

Inspect the sight bowl for water accumulation. If any water is in the fuel, the red ring in the sight bowl will float. If water is present, remove sight bowl and drain the water. Also inspect the filter element for sediment. Clean filter as follows.

**CLEANING FUEL FILTER**

1. Read **Fuel System** servicing information and warning proceeding.
2. Remove the two bolts that secure the fuel filter bracket in place.
3. Remove bolt and ring nut lock.
4. Remove fuel filter from the bracket.
5. Disassemble fuel filter as shown.
6. Pull out the filter element. Wash it with cleaning solvent and allow it to dry.
7. Push the filter element into the cover.
8. Place the O-ring seal into its proper position on the sight bowl and reinstall sight bowl with ring nut. Tighten ring nut securely.
9. Reinstall fuel filter to the bracket. Align slot on the ring nut lock with one of the tabs on the ring nut. Tighten bolts.

IMPORTANT: Visually inspect for fuel leakage from the filter by squeezing the primer bulb until firm, forcing fuel into the filter.
10. Reinstall bracket to the engine.

**Steering Link Rod Fasteners**

IMPORTANT: The steering link rod that connects the steering cable to the engine must be fastened using special washer head bolt ("e" - Part Number 10-856680) and self-locking nylon insert locknuts ("d" - Part number & "b" - Part Number 11-826710 13). These locknuts must never be replaced with common nuts (non-locking) as they will work loose and vibrate off freeing the link rod to disengage.

**WARNING**

Disengagement of a steering link rod can result in the boat taking a full, sudden, sharp turn. This potentially violent action can cause occupants to be thrown overboard exposing them to serious injury or death.
Assemble steering link rod to steering cable with two flat washers and self-locking nylon insert locknut. Tighten locknut until it seats, then back nut off 1/4 turn.

Assemble steering link rod to rear hole on steering arm with special washer head bolt, flat washer and nylon insert locknut. First torque the special washer head bolt, then torque the nylon insert locknut to specifications.

<table>
<thead>
<tr>
<th>Description</th>
<th>Nm</th>
<th>lb. in.</th>
<th>lb. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special washer head bolt</td>
<td>27</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Nylon insert locknut &quot;b&quot;</td>
<td>27</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Nylon insert locknut &quot;d'</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Corrosion Control Anode**

Your outboard has corrosion control anodes at different locations. An anode helps protect the outboard against galvanic corrosion by sacrificing its metal to be slowly corroded instead of the outboard metals. Each anode requires periodic inspection, especially in salt water which will accelerate the erosion. To maintain this corrosion protection, always replace the anode before it is completely eroded. Never paint or apply a protective coating on the anode as this will reduce effectiveness of the anode.

One of the anodes is the trim tab installed on the gearcase. Another anode is installed on the bottom of the transom bracket assembly.

<table>
<thead>
<tr>
<th>a - Trim tab anode</th>
<th>b - Transom bracket anode</th>
</tr>
</thead>
</table>
Four anodes are installed in the engine. Remove anodes at locations shown. Install each anode with rubber seal and cover. Torque the anode bolt, than cover retaining bolts to specifications.

<table>
<thead>
<tr>
<th>Description</th>
<th>Nm</th>
<th>lb. in.</th>
<th>lb. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode bolt</td>
<td>8</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Anode retaining bolts</td>
<td>17</td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

Propeller Replacement

**WARNING**

If the propeller shaft is rotated while the engine is in gear, there is the possibility that the engine will crank over and start. To prevent this type of accidental engine starting and possible serious injury caused from being struck by a rotating propeller, always shift outboard to neutral position and remove spark plug leads when you are servicing the propeller.

1. Shift outboard to neutral (N) position.
2. Remove spark plug leads to prevent engine from starting.
3. Straighten the cotter pin and pull it out using a pair of pliers.

4. Place a block of wood between gearcase and propeller to hold propeller and remove propeller nut.

5. Pull propeller straight off shaft. If propeller is seized to the shaft and cannot be removed, have the propeller removed by an authorized dealer.

6. Coat the propeller shaft with Quicksilver or Mercury Precision Lubricants Anti-Corrosion Grease or 2-4-C with Teflon.
MAINTENANCE

<table>
<thead>
<tr>
<th>Tube Ref No.</th>
<th>Description</th>
<th>Where Used</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>94</td>
<td>Anti-Corrosion Grease</td>
<td>Propeller shaft</td>
<td>92-802867Q1</td>
</tr>
<tr>
<td>95</td>
<td>2-4-C with Teflon</td>
<td>Propeller shaft</td>
<td>92-802859Q1</td>
</tr>
</tbody>
</table>

IMPORTANT: To prevent the propeller hub from corroding and seizing to the propeller shaft (especially in saltwater), always apply a coat of the recommended lubricant to the entire propeller shaft at the recommended maintenance intervals and also each time the propeller is removed.

7. Flo-Torq II Drive Hub Propellers - Install forward thrust hub, replaceable drive sleeve, propeller, thrust hub, washer and propeller nut onto the shaft.

![Diagram](ob01028)

- a - Cotter pin
- b - Propeller nut
- c - Washer
- d - Thrust hub
- e - Propeller
- f - Replaceable drive sleeve
- g - Forward thrust hub

8. Place a block of wood between gearcase and propeller and torque propeller nut to specifications.

![Diagram](ob01030)

<table>
<thead>
<tr>
<th>Description</th>
<th>Nm</th>
<th>lb. in.</th>
<th>lb. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propeller nut</td>
<td>54</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: If the propeller nut does not align with the propeller shaft after tightening to the specified torque, then tighten the nut further to align it with the hole.

9. Align the propeller nut with the propeller shaft hole. Insert a new cotter pin in the hole and bend the cotter pin ends.
Spark Plug Inspection and Replacement

**WARNING**

Avoid serious injury or death from fire or explosion caused by damaged spark plug boots. Damaged spark plug boots can emit sparks. Sparks can ignite fuel vapors under the engine cowl. To avoid damaging spark plug boots, do not use any sharp object or metal tool such as pliers, screwdriver, etc. to remove spark plug boots.

1. Remove the spark plug leads. Twist the rubber boots slightly and pull off.

2. Remove the spark plugs to inspect. Replace spark plug if electrode is worn or the insulator is rough, cracked, broken, blistered or fouled.

3. Set the spark plug gap to specifications.

<table>
<thead>
<tr>
<th>Spark Plug Gap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spark Plug</td>
</tr>
</tbody>
</table>

4. Before installing spark plugs, clean off any dirt on the spark plug seats. Install plugs finger tight, and then tighten 1/4 turn or torque to specifications.

<table>
<thead>
<tr>
<th>Description</th>
<th>Nm</th>
<th>lb. in.</th>
<th>lb. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spark plug</td>
<td>25</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>
Fuse Replacement

The electrical wiring circuits on the outboard are protected from overload by fuses in the wiring. If a fuse is blown, try to locate and correct the cause of the overload. If the cause is not found, the fuse may blow again.

1. Remove the plastic cover and open the fuse holder. Look at the silver colored band inside the fuse. If band is broken, replace the fuse. Replace fuse with a new fuse with the same amperage rating.

Timing Belt Inspection

Inspect the timing belt and have it replaced by an authorized dealer if any of the following conditions are found.

1. Cracks in the back of the belt or in the base of the belt teeth.
2. Excessive wear at the roots of the cogs.
3. Rubber portion swollen by oil.
4. Belt surfaces roughened.
5. Signs of wear on edges or outer surfaces of belt.
Battery Inspection

The battery should be inspected at periodic intervals to ensure proper engine starting capability.

IMPORTANT: Read the safety and maintenance instructions which accompany your battery.

1. Turn off the engine before servicing the battery.
2. Add water as necessary to keep the battery full.
3. Make sure the battery is secure against movement.
4. Battery cable terminals should be clean, tight, and correctly installed. Positive to positive and negative to negative.
5. Make sure the battery is equipped with a non-conductive shield to prevent accidental shorting of battery terminals.

Lubrication Points

1. Lubricate the following with Quicksilver or Mercury Precision Lubricants Anti-Corrosion Grease or 2-4-C with Teflon.

<table>
<thead>
<tr>
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<th>Description</th>
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<td>92-802867Q1</td>
</tr>
<tr>
<td>95</td>
<td>2-4-C with Teflon</td>
<td>Propeller shaft</td>
<td>92-802859Q1</td>
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</table>

- Propeller Shaft - Refer to Propeller Replacement for removal and installation of the propeller. Coat the entire propeller shaft with lubricant to prevent the propeller hub from corroding and seizing to the shaft.

2. Lubricate the following with Quicksilver or Mercury Precision Lubricants 2-4-C with Teflon or Special Lubricant 101.
## MAINTENANCE

<table>
<thead>
<tr>
<th>Tube Ref No.</th>
<th>Description</th>
<th>Where Used</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Special Lubricant 101</td>
<td>Gearcase bearing carrier, swivel bracket, tilt support lever, tilt tube, cowl lock latches, shift shaft, steering cable grease fitting</td>
<td>92-802865Q1</td>
</tr>
<tr>
<td>95</td>
<td>2-4-C with Teflon</td>
<td>Gearcase bearing carrier, swivel bracket, tilt support lever, tilt tube, cowl lock latches, shift shaft, steering cable grease fitting</td>
<td>92-802859Q1</td>
</tr>
</tbody>
</table>

- Gearcase Bearing Carrier - Lubricate through fitting.
- Swivel Bracket - Lubricate through fitting.
- Tilt Support Lever - Lubricate through fitting.
- Tilt Tube - Lubricate through fitting.
• Cowl Lock Latches.

• Shift Shaft - Lubricate through fitting.

**WARNING**

The end of the steering cable must be fully retracted into the outboard tilt tube before adding lubricant. Adding lubricant to steering cable when fully extended could cause steering cable to become hydraulically locked. A hydraulically locked steering cable will cause loss of steering control, possibly resulting in serious injury or death.

• Steering Cable Grease Fitting (If equipped) - Rotate steering wheel to fully retract the steering cable end into the outboard tilt tube. Lubricate through fitting.

- **Fitting**
- **Steering cable end**
MAINTENANCE

3. Lubricate the following with light weight oil.
   a. Steering Link Rod Pivot Points - Lubricate pivot points.

Checking Power Trim Fluid
1. Tilt outboard to the full up position and engage the tilt support lock.

2. Remove fill cap and check fluid level. The fluid level should be even with the bottom of the fill hole. Add Quicksilver or Mercury Precision Lubricants Power Trim & Steering Fluid. If not available, use automotive (ATF) automatic transmission fluid.

Changing Engine Oil
ENGINE OIL CAPACITY
1. Without oil filter replacement: 5.8 liters (6.1 quarts).
2. With oil filter replacement: 6.0 liters (6.3 quarts).

OIL CHANGING PROCEDURE
Pump Method
1. Place the outboard in a vertical position.
2. Remove dipstick and slide adaptor tube/pump down dipstick tube. Pump out the engine oil into an appropriate container.
MAINTENANCE

Drain Plug Method
1. Place the outboard in a vertical position.
2. Loosen seven screws and remove the starboard side cover.
3. Remove drain plug and drain engine oil into an appropriate container. Lubricate the seal on the drain plug with oil and reinstall.

![Diagram of outboard motor with labels a and b]

**a** - Side cover  **b** - Drain Plug

CHANGING OIL FILTER
1. Remove the oil filter cover.
2. Place a rag or towel below the oil filter to absorb any spilled oil.
3. Unscrew old filter by turning the filter to the left.

![Diagram of oil filter]

4. Clean the mounting base. Apply film of clean oil to filter gasket. Do not use grease. Screw new filter on until gasket contacts base, then tighten 3/4 to 1 turn.
5. Reinstall the oil filter cover.

**OIL FILLING**
1. Remove the oil fill cap and add oil to proper operating level.
2. Idle engine for five minutes and check for leaks. Stop engine and check oil level on the dipstick. Add oil if necessary.

**Gearcase Lubrication**
When adding or changing gearcase lubricant, visually check for the presence of water in the lubricant. If water is present, it may have settled to the bottom and will drain out prior to the lubricant, or it may be mixed with the lubricant, giving it a milky colored appearance. If water is noticed, have the gearcase checked by your dealer. Water in the lubricant may result in premature bearing failure or, in freezing temperatures, will turn to ice and damage the gearcase.

Examine the drained gearcase lubricant for metal particles. A small amount of metal particles indicates normal gear wear. An excessive amount of metal filings or larger particles (chips) may indicate abnormal gear wear and should be checked by an authorized dealer.

**DRAINING GEARCASE**
1. Tilt outboard so that the oil drain plug is at the lowest point.
2. Place drain pan below outboard.
3. Remove vent plug and fill/drain plug and drain lubricant.

**GEARCASE LUBRICANT CAPACITY**
Gearcase lubricant capacity is approximately 1.15 liters (39 fl. oz.).
MAINTENANCE

GEARCASE LUBRICANT RECOMMENDATION

Mercury or Quicksilver High Performance Gear Lubricant.

CHECKING LUBRICANT LEVEL AND REFILLING GEARCASE

1. Place outboard in a vertical operating position.
2. Remove vent plug.
3. Remove drain plug. Place lubricant tube into the fill hole and add lubricant until it appears at the vent hole.

![Diagram]

a - Vent hole
b - Vent plug
c - Drain plug

IMPORTANT: Replace sealing washers if damaged.

4. Stop adding lubricant. Install the vent plug and sealing washer before removing the lubricant tube.
5. Remove lubricant tube and reinstall cleaned fill/drain plug and sealing washer.

Submerged Outboard

A submerged outboard will require service within a few hours by an authorized dealer once the outboard is recovered from the water. This immediate attention by a servicing dealer is necessary once the engine is exposed to the atmosphere to minimize internal corrosion damage to the engine.
STORAGE

Storage Preparation
The major consideration in preparing your outboard for storage is to protect it from rust, corrosion, and damage caused by freezing of trapped water.
The following storage procedures should be followed to prepare your outboard for out of season storage or prolonged storage (two months or longer).

CAUTION
Never start or operate your outboard (even momentarily) without water circulating through all the cooling water intake holes in the gearcase to prevent damage to the water pump (running dry) or overheating of the engine.

FUEL SYSTEM
IMPORTANT: Gasoline containing alcohol (ethanol or methanol) can cause a formation of acid during storage and can damage the fuel system. If the gasoline being used contains alcohol, it is advisable to drain as much of the remaining gasoline as possible from the fuel tank, remote fuel line, and engine fuel system.
Fill the fuel tank and engine fuel system with treated (stabilized) fuel to help prevent formation of varnish and gum. Proceed with following instructions.

- **Portable Fuel Tank** - Pour the required amount of gasoline stabilizer (follow instructions on container) into fuel tank. Tip fuel tank back and forth to mix stabilizer with the fuel.
- **Permanently Installed Fuel Tank** - Pour the required amount of gasoline stabilizer (follow instructions on container) into a separate container and mix with approximately one quart (one liter) of gasoline. Pour this mixture into fuel tank.
- Place the outboard in water or connect flushing attachment for circulating cooling water. Run the engine for ten minutes to fill the engine fuel system.

<table>
<thead>
<tr>
<th>Flushing Device</th>
<th>91-44357Q 2</th>
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<tbody>
<tr>
<td></td>
<td>Attaches to the water intakes; provides a fresh water connection when flushing the cooling system or operating the engine.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Tube Ref No.</th>
<th>Description</th>
<th>Where Used</th>
<th>Part No.</th>
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</thead>
<tbody>
<tr>
<td>120</td>
<td>Corrosion Guard</td>
<td>External metal surfaces</td>
<td>92-802878Q5 5</td>
</tr>
</tbody>
</table>
STORAGE

Protecting Internal Engine Components

NOTE: Make sure the fuel system has been prepared for storage. Refer to Fuel System, preceding.

IMPORTANT: Refer to Maintenance - Spark Plug Inspection and Replacement for correct procedure for removing spark plug boots.

• Remove the spark plugs and inject a small amount of engine oil inside of each cylinder.
• Rotate the flywheel manually several times to distribute the oil in the cylinders. Reinstall spark plugs.
• Change the engine oil.

Gearcase

• Drain and refill the gearcase lubricant (refer to Maintenance - Gearcase Lubrication).

Positioning Outboard For Storage

Store outboard in an upright (vertical) position to allow water to drain out of outboard.

CAUTION

If outboard is stored tilted up in freezing temperature, trapped cooling water or rain water that may have entered the propeller exhaust outlet in the gearcase could freeze and cause damage to the outboard.

Battery Storage

• Follow the battery manufacturer’s instructions for storage and recharging.
• Remove the battery from the boat and check water level. Recharge if necessary.
• Store the battery in a cool, dry place.
• Periodically check the water level and recharge the battery during storage.
TROUBLESHOOTING

Starter Motor Will Not Crank The Engine (Electric Start Models)

POSSIBLE CAUSES
- Blown fuse in the starting circuit. Refer to Maintenance section.
- Outboard is not shifted to neutral position.
- Weak battery or battery connections are loose or corroded.
- Ignition key switch failure.
- Wiring or electrical connection faulty.
- Starter motor or starter solenoid failure.

Engine Will Not Start

POSSIBLE CAUSES
- Lanyard stop switch not in "RUN" position.
- Incorrect starting procedure. Refer to Operating.
- Old or contaminated gasoline.
- Fuel is not reaching the engine.
  - Fuel tank is empty.
  - Fuel tank vent not open or restricted.
  - Fuel line is disconnected or kinked.
  - Primer bulb not squeezed.
  - Primer bulb check valve is faulty.
  - Fuel filter is obstructed. Refer to Maintenance section.
  - Fuel pump failure.
  - Fuel tank filter obstructed.
- Ignition system component failure.
- Spark plugs fouled or defective. Refer to Maintenance section.

Engine Runs Erratically

POSSIBLE CAUSES
- Overheating - Warning horn not working.
- Low oil pressure. Check oil level.
- Spark plugs fouled or defective. Refer to Maintenance section.
- Incorrect setup and adjustments.
- Fuel is being restricted to the engine.
  a. Engine fuel filter is obstructed. Refer to Maintenance section.
  b. Fuel tank filter obstructed.
  c. Stuck anti-siphon valve located on permanently built-in type fuel tanks.
  d. Fuel line is kinked or pinched.
- Fuel pump failure.
- Ignition system component failure.

Performance Loss

POSSIBLE CAUSES
- Low oil pressure. Check oil level.
- Throttle not fully open.
- Damaged or improper size propeller.
TROUBLESHOOTING

• Incorrect engine timing, adjustments, or setup.
• Boat overloaded or load improperly distributed.
• Excessive water in bilge.
• Boat bottom is dirty or damaged.

Battery Will Not Hold Charge

POSSIBLE CAUSES

• Battery connections are loose or corroded.
• Low electrolyte level in battery.
• Worn out or inefficient battery.
• Excessive use of electrical accessories.
• Defective rectifier, alternator, or voltage regulator.
OWNER SERVICE ASSISTANCE

Local Repair Service
Always return your outboard to your local authorized dealer should the need for service arise. Only he has the factory trained mechanics, knowledge, special tools, equipment, and genuine parts and accessories to properly service your engine should the need occur. He knows your engine best.

Service Away From Home
If you are away from your local dealer and the need arises for service, contact the nearest authorized dealer. Refer to the Yellow Pages of the telephone directory. If, for any reason, you cannot obtain service, contact the nearest Mercury Marine Service Office.

Parts And Accessories Inquiries
All inquiries concerning genuine replacement parts and accessories should be directed to your local authorized dealer. The dealer has the necessary information to order parts and accessories for you. When inquiring on parts and accessories, the dealer requires the model and serial number to order the correct parts.

Service Assistance
Your satisfaction with your outboard product is very important to your dealer and to us. If you ever have a problem, question or concern about your outboard product, contact your dealer or any authorized Mercury Marine dealership. If additional assistance is required, take these steps.

1. Talk with the dealership’s sales manager or service manager. If this has already been done, then contact the owner of the dealership.
2. Should you have a question, concern, or problem that cannot be resolved by your dealership, please contact 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 the service office:
• Your name and address
• Daytime telephone number
• Model and serial number of your outboard
• The name and address of your dealership
• Nature of problem

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

<table>
<thead>
<tr>
<th>United States</th>
<th>Canada</th>
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<tbody>
<tr>
<td>Telephone (920) 929-5040</td>
<td>Mercury Marine Ltd.</td>
</tr>
<tr>
<td>Fax (920) 929-5893</td>
<td>2395 Meadowpine Blvd.</td>
</tr>
<tr>
<td>Website <a href="http://www.mercurymarine.com">www.mercurymarine.com</a></td>
<td>Mississauga, Ontario</td>
</tr>
<tr>
<td></td>
<td>L5N 7W6 Canada</td>
</tr>
</tbody>
</table>

United States:
- Telephone: (920) 929-5040
- Fax: (920) 929-5893
- Website: www.mercurymarine.com

Canada:
- Telephone: (905) 567-6372
- Fax: (905) 567-8515
### Owner Service Assistance

<table>
<thead>
<tr>
<th><strong>Australia, Pacific</strong></th>
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<tbody>
<tr>
<td><strong>Telephone</strong></td>
<td>(61) (3) 9791-5822</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>(61) (3) 9793-5880</td>
</tr>
<tr>
<td><strong>Mercury Marine Australia</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>132-140 Frankston Road</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>Dandenong, Victoria 3164</td>
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<tr>
<td><strong>Australia</strong></td>
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<th><strong>Europe, Middle East, Africa</strong></th>
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<tr>
<td><strong>Telephone</strong></td>
<td>(32) (87) 32 • 32 • 11</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>(32) (87) 31 • 19 • 65</td>
</tr>
<tr>
<td><strong>Marine Power - Europe, Inc.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Parc Industriel de Petit-Rechain</strong></td>
<td>B-4800 Verviers,</td>
</tr>
<tr>
<td><strong>Belgium</strong></td>
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<tbody>
<tr>
<td><strong>Telephone</strong></td>
<td>(954) 744-3500</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>(954) 744-3535</td>
</tr>
<tr>
<td><strong>Mercury Marine</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>11650 Interchange Circle North</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>Miramar, FL 33025 U.S.A.</td>
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<tbody>
<tr>
<td><strong>Telephone</strong></td>
<td>81-053-423-2500</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>81-053-423-2510</td>
</tr>
<tr>
<td><strong>Mercury Marine - Japan</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>Anshin-cho 283-1</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>Hamamatsu Shizuoka-ken, Japan 435-0005 Japan</td>
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<tr>
<td><strong>Telephone</strong></td>
<td>5466160</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>5467789</td>
</tr>
<tr>
<td><strong>Mercury Marine Singapore</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>72 Loyang Way</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>Singapore, 508762</td>
</tr>
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</table>