

Thank You

for your purchase of one of the finest outboards available. You have made a sound investment in boating pleasure. Your outboard has been manufactured by Mercury Marine, a world leader in marine technology and outboard manufacturing since 1939. These years of experience have been committed to the goal of producing the finest quality products. This led to Mercury Marine's reputation for strict quality control, excellence, durability, lasting performance and being the best at providing after the sale support.

Please read this manual carefully before operating your outboard. This manual has been prepared to assist you in the operation, safe use and care of your outboard.

All of us at Mercury Marine took pride in building your outboard and wish you many years of happy and safe boating.

Again, thank you for your confidence in Mercury Marine.

EPA Emissions Regulations

Outboards sold by Mercury Marine in the United States are certified to the United States Environmental Protection Agency as conforming to the requirements of the regulations for the control of air pollution from new outboard motors. This certification is contingent on certain adjustments being set to factory standards. For this reason, the factory procedure for servicing the product must be strictly followed and, wherever practicable, returned to the original intent of the design. **Maintenance, replacement, or repair of the emission control devices and systems may be performed by any marine engine repair establishment or individual.**

Engines are labeled with an Emission Control Information decal as permanent evidence of EPA certification.

WARNING

The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Warranty Message

The product you have purchased comes with a **limited warranty** from Mercury Marine, the terms of the warranty are set forth in the **Warranty Information** Section of this manual. The warranty statement contains a description of what is covered, what is not covered, the duration of coverage, how to best obtain warranty coverage, **important disclaimers and limitations of damages**, and other related information. Please review this important information.

The description and specifications contained herein were in effect at the time this manual was approved for printing. Mercury Marine, whose policy is one of continued improvement, reserves the right to discontinue models at any time, to change specifications, designs, methods, or procedures without notice and without incurring obligation.

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

Litho in U.S.A.

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Mercury, Mercury Marine, MerCruiser, Mercury MerCruiser, Mercury Racing, Mercury Precision Parts, Mercury Propellers, Mariner, Quicksilver, #1 On The Water, Alpha, Bravo, Pro Max, OptiMax, Sport-Jet, K-Planes, MerCathode, RideGuide, SmartCraft, Zero Effort, M with Waves logo, Mercury with Waves logo, and SmartCraft logo are all registered trademarks of Brunswick Corporation. Mercury Product Protection logo is a registered service mark of Brunswick Corporation.

Declaration of Conformity

If the outboard motor's serial number plate contains the CE mark in the lower left-hand corner, the following statement applies:

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 and standards, as amended:

Recreational Craft Directive: 94/25/EC

Owner's manual (A.2.5)	ISO 10240
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Handling characteristics (A.4)	ISO 8665
Outboard engine starting (A.5.1.4)	ISO 11547
Fuel tanks (A.5.2.2)	ISO 13591; ISO 8469
General steering system	ABYC P-17

Safety of Machinery Directive 98/37/EC

Principles of safety integration (1.1.2)	EN 292-1; EN 292-2; EN 1050
Noise (1.5.8)	ICOMIA 39/94
Vibration	ICOMIA 38/94

Electromagnetic Compatibility Directive 89/336/EC

Generic emission standard	EN 50081-1
Generic immunity standard	EN 50082-1
Vehicles, boats and internal combustion engine driven devices - radio disturbance characteristics	SAE J551 (CISPR 12)
Electrostatic discharge testing	EN 61000-6-2; EN 61000-4-2; EN 61000-4-3

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

Mercury Premier Service

Mercury evaluates the service performance of its dealers and assigns its highest rating of "Mercury Premier" to those demonstrating an exceptional commitment to service.

Earning a Mercury Premier Service rating means a dealer:

- Achieves a high 12 month service CSI (Customer Satisfaction Index) score for warranty service.
- Possesses all necessary service tools, test equipment, manuals and parts books.
- Employs at least one Certified or Master technician.
- Provides timely service for all Mercury Marine customers.
- Offers extended service hours and mobile service, when appropriate.
- Uses, displays and stocks adequate inventory of genuine Mercury Precision Parts.
- Offers a clean, neat shop with well organized tools and service literature.

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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 +1 920 929 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.

Transfer of Mercury Product Protection (Extended Service Coverage) Plan

The remaining coverage period of the Product Protection Plan is transferable to the subsequent purchaser of the engine within thirty (30) days from the date of sale. Contracts not transferred within thirty (30) days of the subsequent purchase will no longer be valid and the product will no longer be eligible for coverage under the terms of the contract.

To transfer the plan to the subsequent owner, contact Mercury Product Protection or authorized dealer to receive a Request for Transfer form. Submit to Mercury Product Protection a receipt/bill of sale, a completed Request of Transfer form, and a check payable to Mercury Marine in the amount of \$50.00 (per engine) to cover the transfer fee.

WARRANTY INFORMATION

Plan coverage is not transferable from one product to another product or for non-eligible applications.

The Certified Pre-Owned engine plans are not transferable.

For help or assistance, contact Mercury Product Protection Department at 1-888-427-5373 from 7:30 a.m. to 4:30 p.m. CST, Monday - Friday or email mpp_support@mercurymarine.com.

Warranty Registration United States And Canada

Outside United States and Canada - Check with your local distributor.

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.

WARRANTY INFORMATION

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.

Outboard Limited Warranty

Outside the United States and Canada - Check with your local distributor.

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 provided coverage for one (1) year 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 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. 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.

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 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 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.

WARRANTY INFORMATION

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, 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 but 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 the 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 DISCLAIMED, 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.

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. 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.

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 DISCLAIMED, 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.

WARRANTY INFORMATION

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.

GENERAL INFORMATION

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 onboard 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

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

WARNING

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

CAUTION

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

NOTICE

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

GENERAL INFORMATION

Boat Horsepower Capacity

WARNING

Exceeding the boat's maximum horsepower rating can cause serious injury or death. Overpowering the boat can affect boat control and flotation characteristics or break the transom. Do not install an engine that exceeds the boat's maximum power rating.

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.

U.S. COAST GUARD CAPACITY	
MAXIMUM HORSEPOWER	XXX
MAXIMUM PERSON CAPACITY (POUNDS)	XXX
MAXIMUM WEIGHT CAPACITY	XXX

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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.

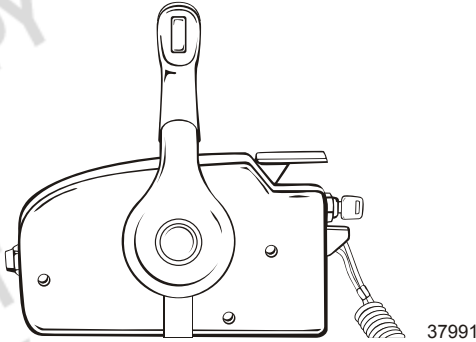
Outboard Remote Control Models

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.

GENERAL INFORMATION

⚠ WARNING

Starting the engine with the drive in gear can cause serious injury or death. Never operate a boat that does not have a neutral-safety-protection device.

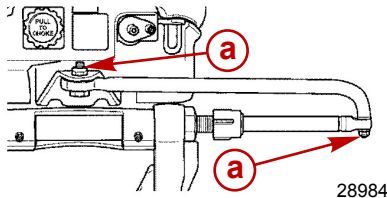


Remote Steering Notice

⚠ WARNING

Improper fasteners or improper installation procedures can result in loosening or disengagement of the steering link rod. This can cause a sudden, unexpected loss of boat control, resulting in serious injury or death due to occupants being thrown within or out of the boat. Always use required components and follow instructions and torque procedures.

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.



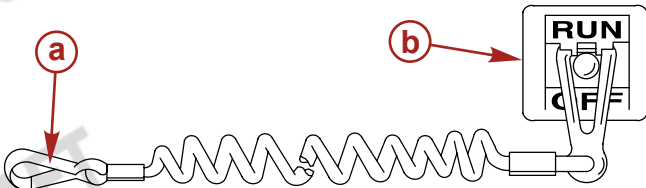
a - Self-locking nuts

GENERAL INFORMATION

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 122–152 cm (4–5 feet) in length when stretched out, with an element on one end made to be inserted into the switch and a lanyard cord 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.



a - Lanyard cord

b - Lanyard stop switch

GENERAL INFORMATION

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 shutdown. 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 (for example, if the operator is accidentally ejected).

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.

GENERAL INFORMATION

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.

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

A spinning propeller, a moving boat, or any solid device attached to the boat can cause serious injury or death to swimmers. Stop the engine immediately whenever anyone in the water is near your boat.

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

GENERAL INFORMATION

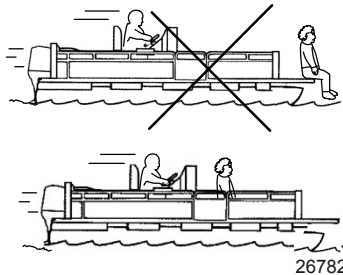
Passenger Safety Message - Pontoon Boats and Deck Boats

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

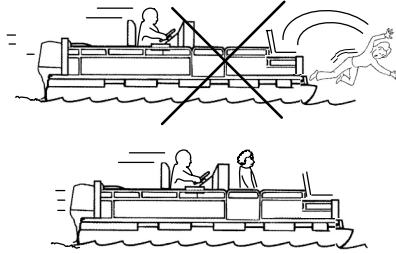
Sitting or standing in an area of the boat not designed for passengers at speeds above idle can cause serious injury or death. Stay back from the front end of deck boats or raised platforms and remain seated while the boat is in motion.

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.

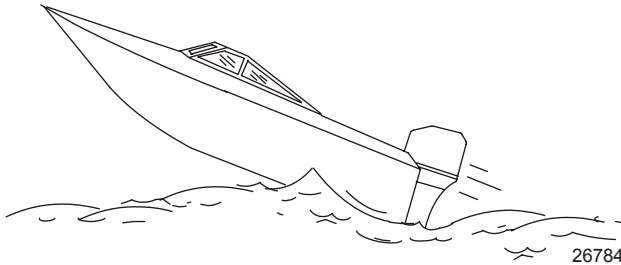
GENERAL INFORMATION

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 reenters 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

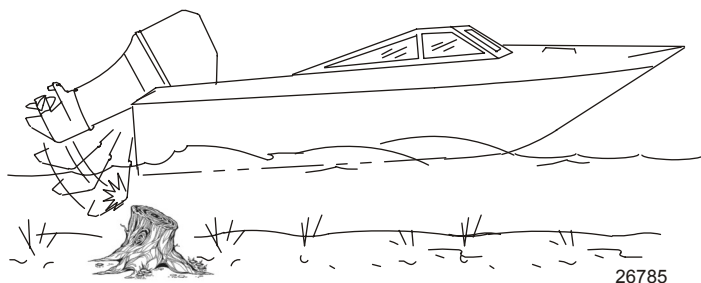
Wave or wake jumping can cause serious injury or death from occupants being thrown within or out of the boat. Avoid wave or wake jumping whenever possible.

GENERAL INFORMATION

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).**



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.

GENERAL INFORMATION

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.

WARNING

Operating a boat or engine with impact damage can result in product damage, serious injury, or death. If the vessel experiences any form of impact, have an authorized Mercury Marine dealer inspect and repair the vessel or power package.

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.

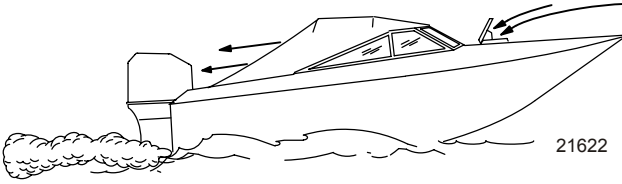
WARNING

Carbon monoxide poisoning can lead to unconsciousness, brain damage, or death. Keep the boat well ventilated while at rest or underway and avoid prolonged exposure to carbon monoxide.

GENERAL INFORMATION

GOOD VENTILATION

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



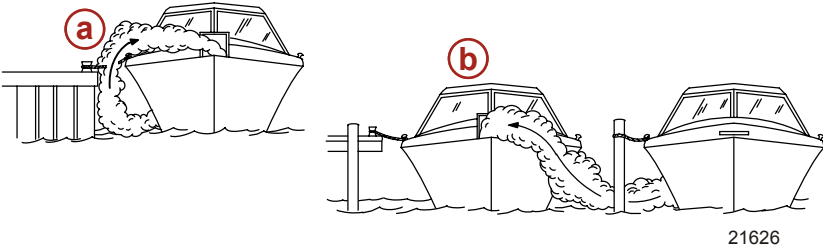
Example of desired air flow through the boat

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.

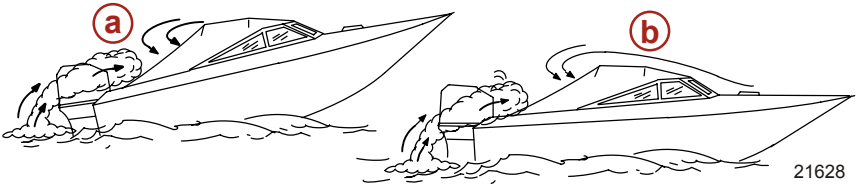
WHILE BOAT IS STATIONARY



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

GENERAL INFORMATION

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.

IMPORTANT: Check with your dealer before installing accessories. The misuse of approved accessories or the use of non-approved accessories can damage the product.

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 boat's manufacturer.

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

GENERAL INFORMATION

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 operator's 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 waterskiing 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.

GENERAL INFORMATION

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 the serial number and other important information for future reference.

Please record the serial number of the engine as indicated (on the lower engine cover and the cylinder block) in the space below. This number will come in handy in the event of theft and it can help you to quickly identify the product type.

Serial Number:
Model year:
Model designation:
Year manufactured:
Certified Europe Insignia (as applicable):

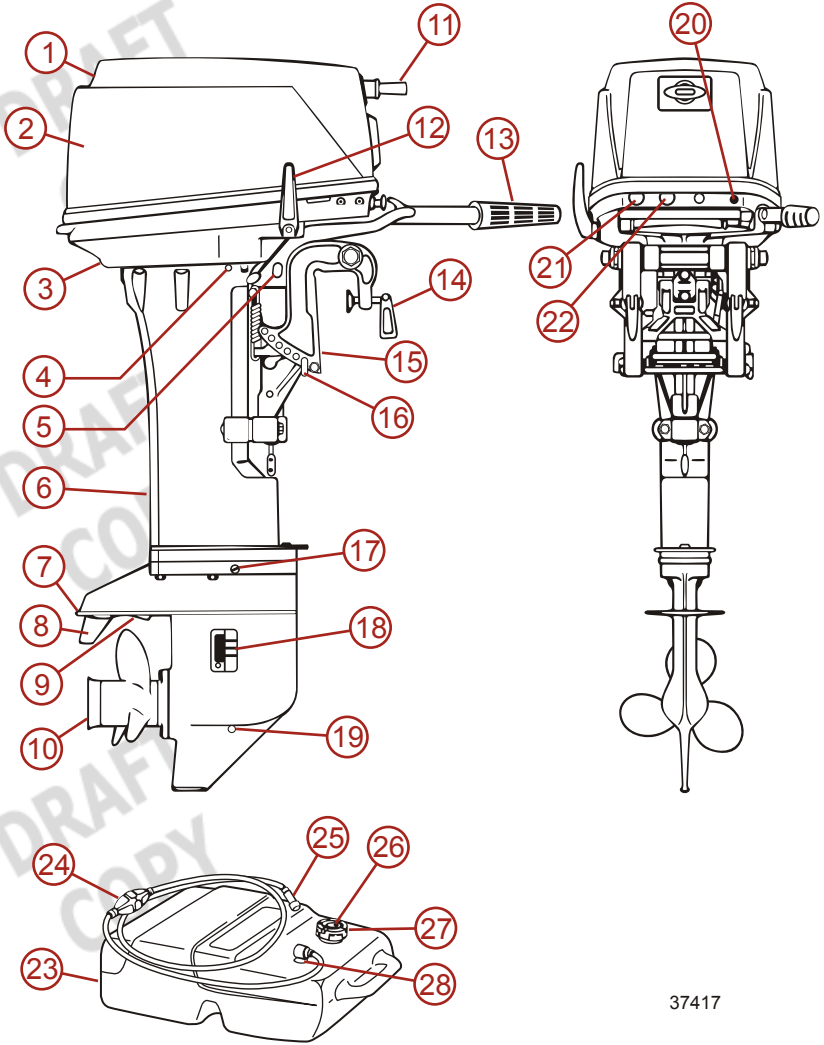
GENERAL INFORMATION

25/30 Specifications

Model	25M	30M	30EH	30E
Overall length	884 mm (34.8 in.)			600 mm (23.6 in.)
Overall width	412 mm (16.2 in.)			355 mm (14 in.)
Overall height	S: 1116 mm (44 in.) - L: 1243 mm (49 in.)			
Transom height	S: 435 mm (17.1 in.) - L: 562 mm (22.1 in.)			
Weights	51 kg (112 lb)		55 kg (124 lb)	54 kg (119 lb)
Max output PS/(KW)	25 (18.4)	30 (22.1)		
Full-throttle RPM	5,000 - 6,000	5,150 - 5,850		
Fuel consumption	13 ltr/hr			
Number of cylinders	2			
Piston displacement	430 cc (26.2 cu in.)			
Cylinder bore	68 mm (2.68 in.)			
Piston stroke	59 mm (2.32 in.)			
Exhaust system	Through hub exhaust			
Cooling system	Water cooled			
Starting system	Manual		Electric/Manual	
Battery rating	Minimum reserve capacity rating of 100 minutes and CCA of 350 amps			
Ignition	CD Ignition			
Spark plug	NGK B7HS - 10 or Champion L82C - NGK BPR7HS - 10			
Spark plug gap	1.0 mm (0.035 in.)			
Alternator	12 V, 18 W			
Fuel mixing ratio	50:1 - Regular Gasoline 50 : Oil 1 (Quicksilver TC - WII or TC - WIII 2 Cycle)			
Fuel tank capacities	25 L (6.6 gal.)			
Gear reduction ratio	1.92 : 1			
Gear oil	Quicksilver Gear Lube Premium Blend			
Gear oil volume	280 ml (9.5 fl.oz.)			

GENERAL INFORMATION

Components: 25/30M



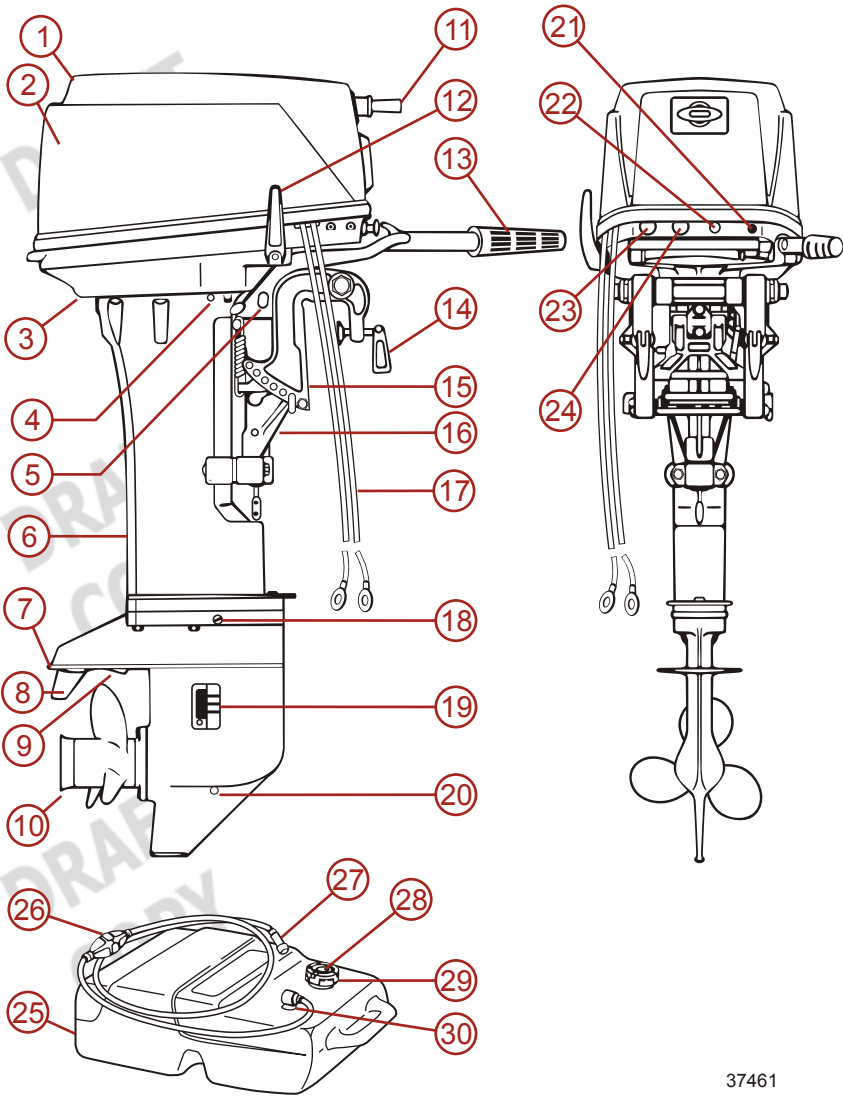
37417

MH models

GENERAL INFORMATION

- 1 - Tilt handle
- 2 - Upper cowl
- 3 - Water pump indicator hole
- 4 - Water plug
- 5 - Reverse Lock Lever
- 6 - Drive shaft housing
- 7 - Anti-ventilation plate
- 8 - Trim tab
- 9 - Secondary water intake
- 10 - Propeller
- 11 - Starter rope handle
- 12 - Shift lever
- 13 - Throttle grip
- 14 - Clamp screw
- 15 - Clamp bracket
- 16 - Trim position pin
- 17 - Upper oil plug
- 18 - Cooling water intake
- 19 - Lower oil plug
- 20 - Connector B
- 21 - Stop switch
- 22 - Choke knob
- 23 - Fuel tank
- 24 - Primer valve
- 25 - Fuel connector
- 26 - Fuel tank cap
- 27 - Air vent screw
- 28 - Fuel Pick Up Elbow

GENERAL INFORMATION



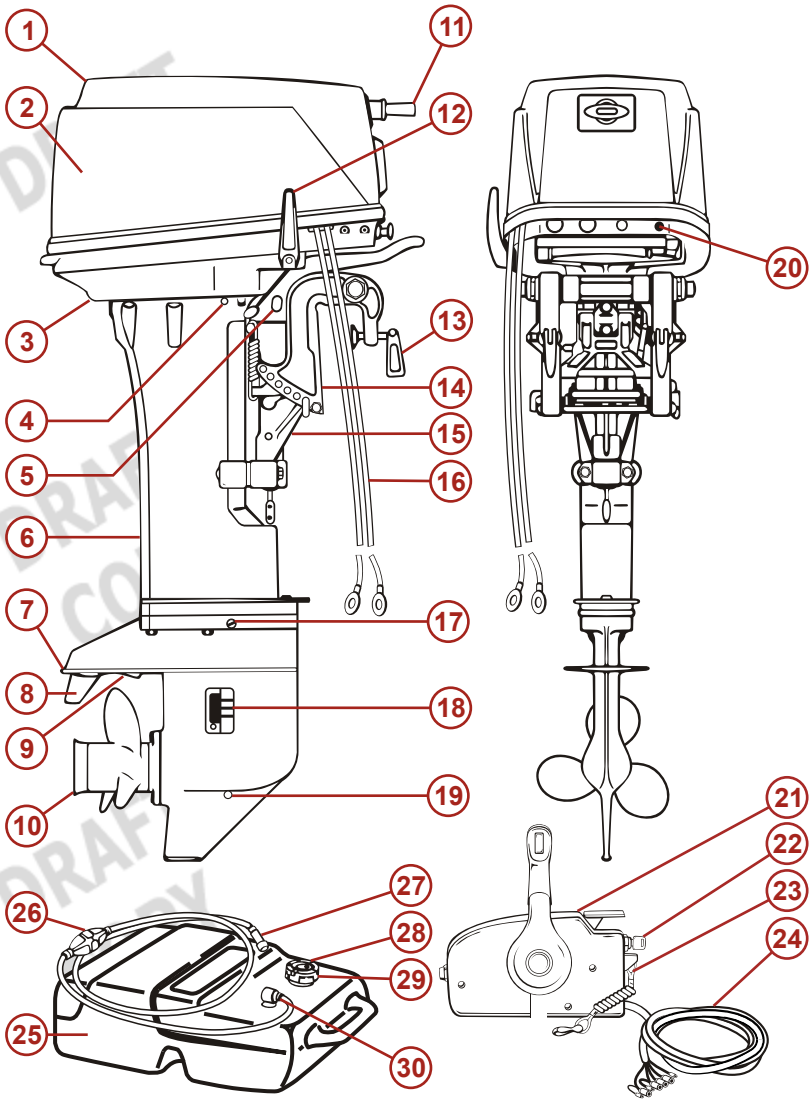
EH models

37461

GENERAL INFORMATION

- 1** - Tilt handle
- 2** - Upper cowl
- 3** - Water pump indicator hole
- 4** - Water plug
- 5** - Reverse Lock Lever
- 6** - Drive shaft housing
- 7** - Anti-ventilation plate
- 8** - Trim tab
- 9** - Secondary water intake
- 10** - Propeller
- 11** - Starter rope handle
- 12** - Shift lever
- 13** - Throttle grip
- 14** - Clamp screw
- 15** - Clamp bracket
- 16** - Trim position pin
- 17** - Battery cable
- 18** - Upper oil plug
- 19** - Cooling water intake
- 20** - Lower oil plug
- 21** - Connector B
- 22** - Main switch
- 23** - Stop switch
- 24** - Choke knob
- 25** - Fuel tank
- 26** - Primer valve
- 27** - Fuel connector
- 28** - Fuel tank cap
- 29** - Air vent screw
- 30** - Fuel Pick Up Elbow

GENERAL INFORMATION



E models

37463

GENERAL INFORMATION

- 1** - Tilt handle
- 2** - Upper cowl
- 3** - Water pump indicator hole
- 4** - Water plug
- 5** - Reverse Lock Lever
- 6** - Drive shaft housing
- 7** - Anti-ventilation plate
- 8** - Trim tab
- 9** - Secondary water intake
- 10** - Propeller
- 11** - Starter rope handle
- 12** - Shift lever
- 13** - Clamp screw
- 14** - Clamp bracket
- 15** - Trim position pin
- 16** - Battery cable
- 17** - Upper oil plug
- 18** - Cooling water intake
- 19** - Lower oil plug
- 20** - Connector B
- 21** - Remote control box
- 22** - Main switch
- 23** - Stop switch
- 24** - Cord assembly
- 25** - Fuel tank
- 26** - Primer valve
- 27** - Fuel connector
- 28** - Fuel tank cap
- 29** - Air vent screw
- 30** - Fuel Pick Up Elbow

INSTALLATION

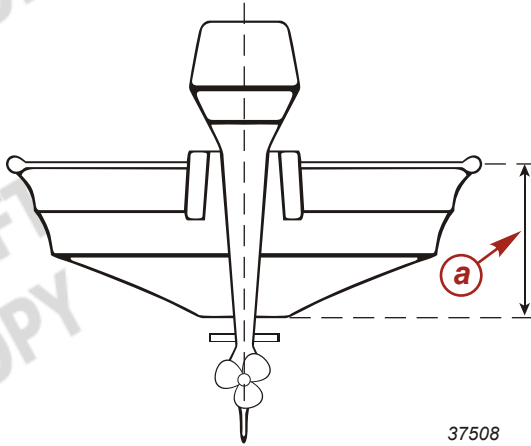
Installing Outboard

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 manual which is provided with the outboard.

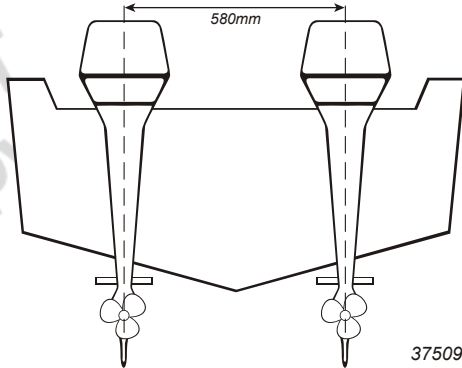
INSTALLATION

NOTE: Most boats are rated and certified in terms of their maximum horse power limit, and this is shown on the boat's certification plate. Do not equip your boat with an outboard that exceeds this limit. If in doubt, contact your dealer. Do not operate the engine until it has been securely mounted on the boat in accordance with the instructions below.

1. Position the outboard motor at the center of the stern.



2. Position the outboard engines about 580 mm (23 in.) apart.



3. Clearance between anti-ventilation plate of the motor and bottom of the boat must be 30 to 50 mm (1.2 to 2 in.). If the height difference exceeds 30 to 50 mm (1.2 to 2 in.) engine power performance is likely to be reduced as a result of increased water resistance to the gearcase assembly.

NOTE: Select an outboard motor that allows the clearance shown below.

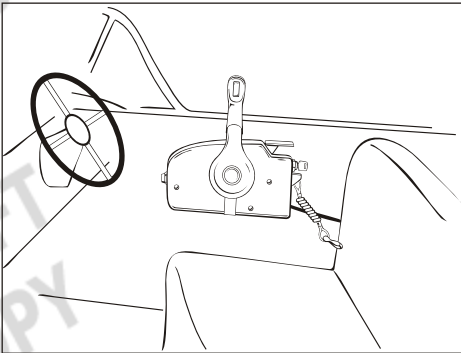
INSTALLATION

TRANSOM MATCHING

NOTE: Be sure that the Anti-ventilation plate of the outboard is below the water surface when running with wide-open throttle. In case the above condition cannot be met due to a bottom shape of your boat, please consult the dealer.

Installing the Remote Control Device (Right-Hand Steering)

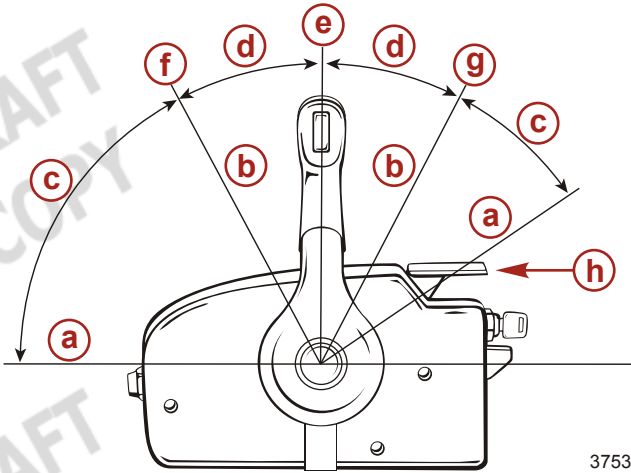
1. **Positioning the remote-control box:** Position the remote control box in a place that will not obstruct handling of the control levers and switches. Confirm that there is no obstacle in the passage of remote control cables.



37529

INSTALLATION

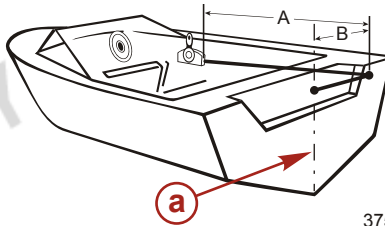
2. Remote control features



37531

- | | |
|----------------------------------|--------------------------------|
| a - Fully opened position | e - Neutral (N) |
| b - Fully closed position | f - Forward (F) |
| c - Throttle | g - Reverse (R) |
| d - Shift | h - Throttle only lever |

3. **Determining remote control cable length:** A guideline for determining the proper length for a remote control cable is dimensions A plus B plus 300 mm (1 foot).



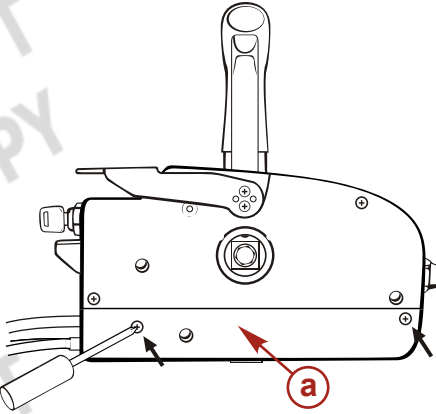
37530

- a** - Center of stern

NOTE: The minimum bend radius for a remote control cable is typically 203 mm (8 in.). Avoid making sharp bends.

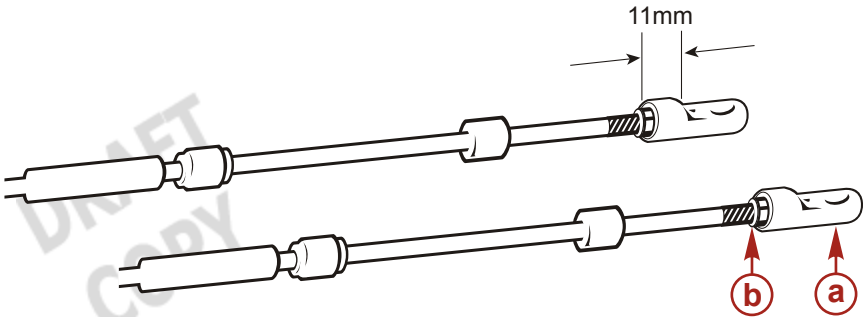
INSTALLATION

4. **Connecting remote control cable to the remote control box:** Remove the back panel by loosening two screws.



a - Back panel

5. Thread the remote control cables through the terminal eyes at a distance of more than 11 mm (0.43 in.). Securely lock the terminal eyes with the nut lock.

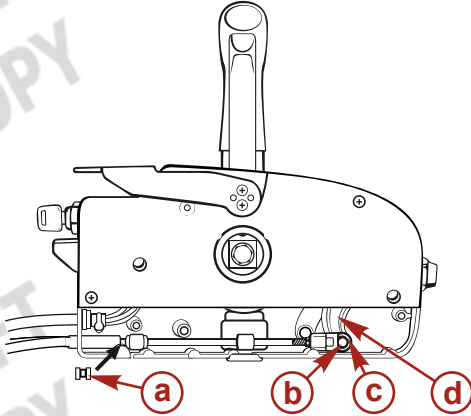


a - Terminal eyes

b - Nut lock

INSTALLATION

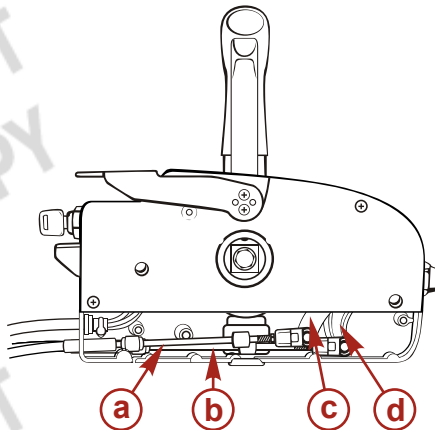
6. Press the neck of the shift remote control cable down into the clamp on the housing of the remote control box. Connect the terminal eye to the shift arm with the pin and E-ring. Insert a grommet, supplied with the remote control box, into the clamp.



37527

- a** - Grommet
- b** - Shift arm pin
- c** - E-ring
- d** - Shift arm

7. Connect the throttle remote control cable to the throttle arm in a manner similar to the shift remote control cable.

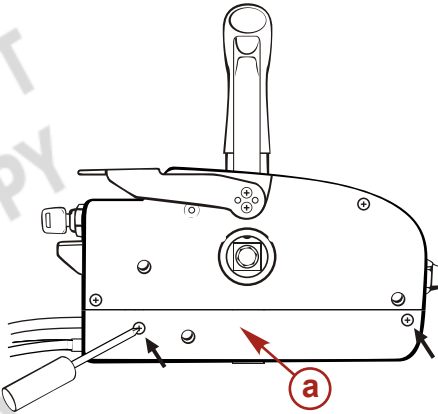


37526

- a** - Throttle cable
- b** - Shift cable
- c** - Throttle arm
- d** - Shift arm

INSTALLATION

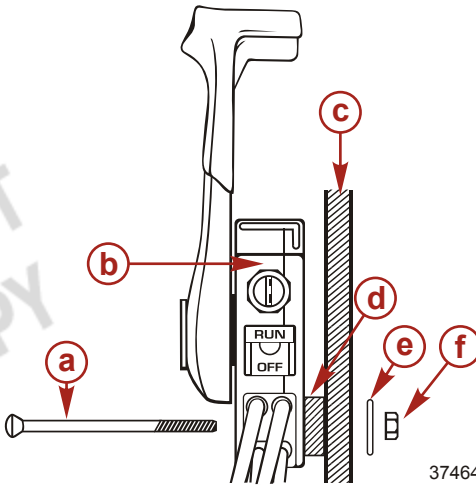
8. Install the back panel.



37528

a - Back panel

9. Install the remote control box with three screws, spacers and nuts.



37464

a - Screw

b - Remote control box

c - Hull

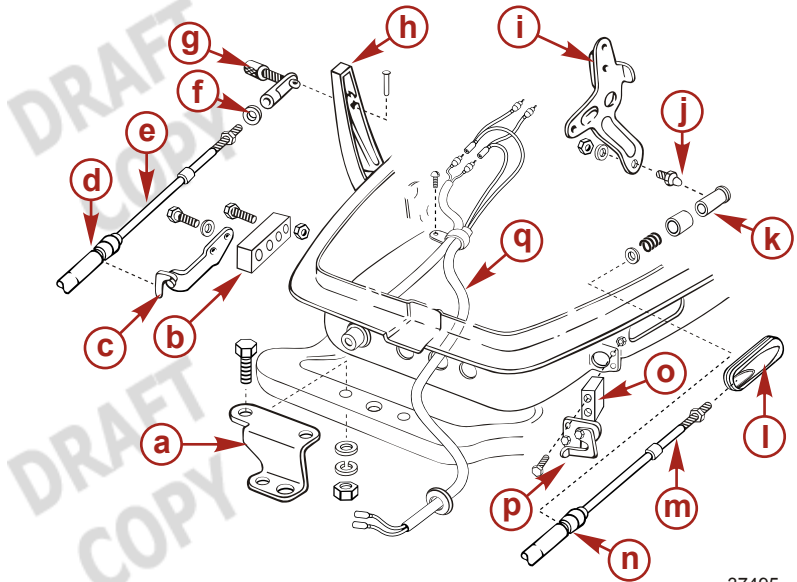
d - Spacer

e - Washer

f - Nut

INSTALLATION

10. Connect the remote control cable to the engine and attach the cord assembly as shown below.



37495

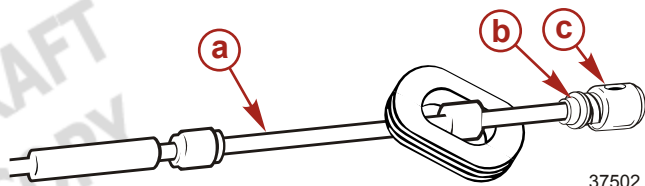
- a** - Steering hook plate
- b** - Spacer
- c** - Clip
- d** - Neck of remote control cable
- e** - Shift remote control cable
- f** - Washer
- g** - Sleeve guide B: Fix remote control cable to shift lever
- h** - Shift lever

- i** - Advance arm
- j** - Ball joint
- k** - Holder cap: Connect remote control cable to ball joint
- l** - Remove grommet from lower motor cover
- m** - Throttle remote control cable
- n** - Neck of remote control cable
- o** - Spacer
- p** - clip

11. Attach a holder cap and a sleeve guide B

INSTALLATION

12. **Throttle side:** Slide a grommet onto an end of the cable, put a holder cap on it, and lock it with a nut, as shown.

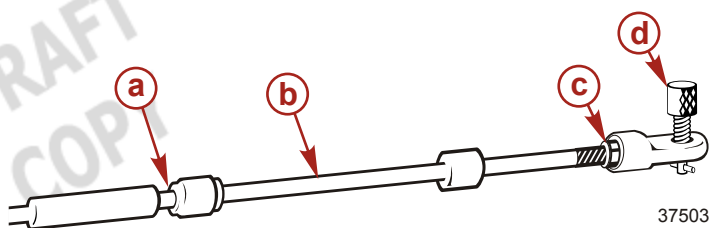


a - Throttle cable

c - Holder cap

b - Nut

13. **Shift side:** Attach the sleeve guide B to the shift remote control cable, and lock it with a nut.



a - Neck of remote control cable

c - Nut

b - Shift remote control cable

d - Sleeve guide B

14. **Connect the remote control cable to the engine.**

15. **Throttle side:** Insert the throttle remote control cable into a hole of the advancer arm at the lower motor cover, attach the ball joint to the holder cap at the tip of the remote control cable, and fasten the remote control cable with a clip. Attach a grommet to the lower motor cover.

NOTE: Place the control lever in Neutral (N), and the idling lever in the Fully Closed position.

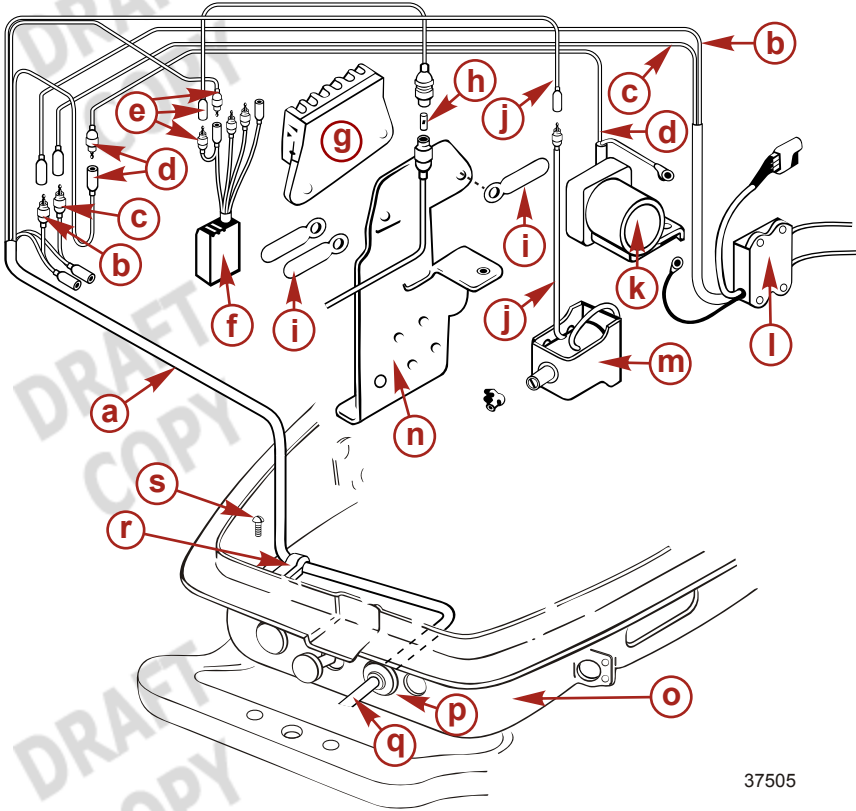
16. **Shift side:** Insert the lock pin at the sleeve guide B into the shift lever attaching hole and turn it 90° to lock it, then fasten the remote control cable with a clip.

INSTALLATION

NOTE: Confirm the motion of the control lever: Turn the control lever to Forward (F) or Reverse (R) at 32° where the lever is latched. The shift lever will be moved to the shift-in position, and the throttle is fully opened when shifted further. Confirm the throttle lever is Fully Closed when the control lever is shifted to Neutral (N). If the throttle is completely closed, position the holder cap on the engine, and attach it.

INSTALLATION

17. **Attach the cord assembly:** Connect the cord assembly from the remote control box to respective terminals through the lower motor cover as illustrated. Fasten the cord assembly with clamps.

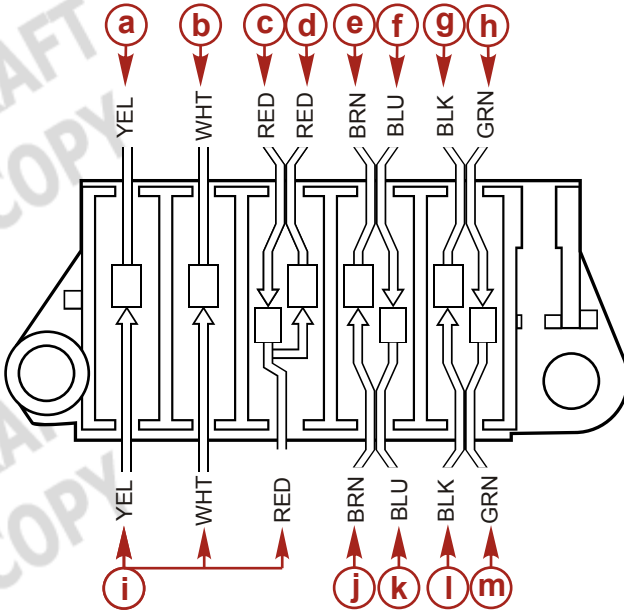


37505

- | | |
|----------------------------|-------------------------------------|
| a - Cord assembly | k - Starter solenoid |
| b - Black terminal | l - CD Unit |
| c - Brown terminal | m - Choke solenoid |
| d - Green terminal | n - Starter solenoid bracket |
| e - Red terminal | o - Lower motor cover |
| f - Rectifier | p - Grommet |
| g - Terminal holder | q - To remote control box |
| h - Fuse | r - Clamp |
| i - Clamps | s - Screw |
| j - Blue terminal | |

INSTALLATION

18. Connect the cables to their respective terminals at the cable terminal holder.



37500

- | | |
|-----------------------------|--------------------------------|
| a - Magnet lead wire | h - Starter solenoid |
| b - Magnet lead wire | i - Rectifier lead wire |
| c - Cord assembly | j - Stop switch |
| d - Fuse wire | k - Choke solenoid |
| e - CD unit | l - Stop switch |
| f - Cord assembly | m - Cord assembly |
| g - CD unit | |

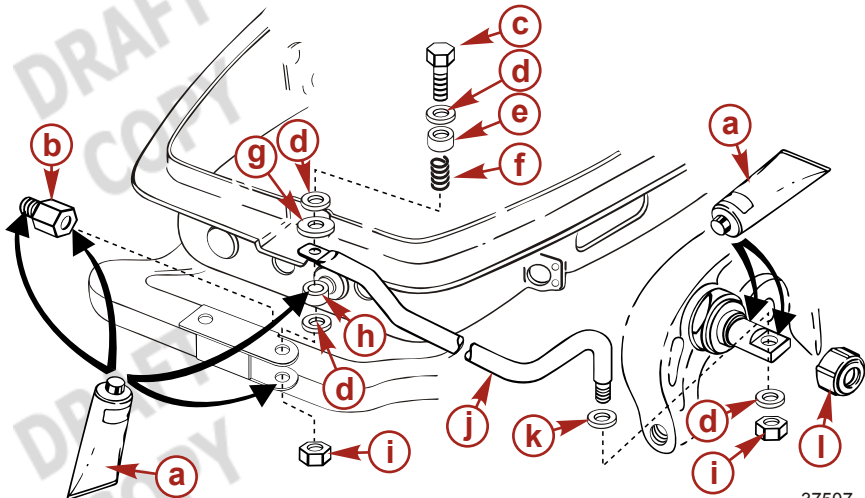
Attaching the Steering Link Rod

WARNING

Improper fasteners or improper installation procedures can result in loosening or disengagement of the steering link rod. This can cause a sudden, unexpected loss of boat control, resulting in serious injury or death due to occupants being thrown within or out of the boat. Always use required components and follow instructions and torque procedures.

INSTALLATION

The steering link rod parts are available and assembled as illustrated below. Spacers may or may not be required depending on cable brands.



- a** - Grease
- b** - Spacer (option)
- c** - Bolt
- d** - Washer B
- e** - Cushion rubber
- f** - Spring
- g** - Spacer
- h** - Collar
- i** - Nut lock
- j** - Rod
- k** - Washer A
- l** - Seal ring

Battery Installation

MOUNTING BATTERY

Follow the battery manufacturer's instructions carefully. Mount battery securely to the hull in a place free from splashing water.

NOTE: *Electric starting outboards must have the battery cables connected to a battery whenever the engine is running, even if started manually, as damage to the charging system could result.*

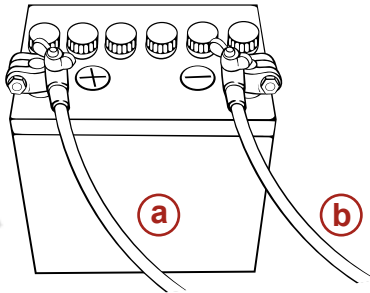
BATTERY CONNECTIONS

Connect a red cable to the positive (+) terminal first and a black cable to the negative (-) terminal of the battery. Put a red cap on the positive terminal. When disconnecting battery cables, be sure to disconnect the black cable first, and then the red cable.

INSTALLATION

Required battery rating: 12V battery with a recommended capacity of 70 AH or over.

- Battery cables must be long enough to allow free steering.
- Battery cables must be arranged and protected from damage during steering.
- With poor cable connections, the starter will fail to start.
- Battery cable terminals should be clean, tight, and correctly installed. Positive to positive and negative to negative.
- Battery must be fully charged before running the motor.



37712

a - Red cable

b - Black cable

IMPORTANT: Please follow the instructions below.

- Hydrogen gas is generated when charging a battery. Keep the battery in a well-ventilated area during charging. Remove the battery from the boat; this will protect your hull and interior from damage. Electric sparks, cigarette smoking, and other sources of fire must be avoided in the charging area to prevent explosion of the battery.
- The battery fluid (electrolyte) contains sulfuric acid. If electrolyte is spilled on the skin or clothes, wash with plenty of water and consult a medical doctor. Always use safety glasses and rubber gloves when handling the battery.

INSTALLATION

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.

The propeller supplied with your outboard provides the best overall performance under average operating conditions.

Alternative propellers are available for specific boating requirements. See your outboard dealer.

AVAILABLE PROPELLERS

Light-duty boat			–	Heavy-duty boat		
Mark	14 (E)	13 (D)	11 (C)	10 (B)	9 (A)	8 (F)
Dimensions (blade x diameter x pitch) mm	3 x 252 x 360	3 x 252 x 332	3 x 250 x 288	3 x 250 x 260	3 x 249 x 236	3 x 260 x 210

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 outboard's 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

Trailing Boat/Outboard

The boat should be trailed with the outboard tilted down in a vertical operating position.

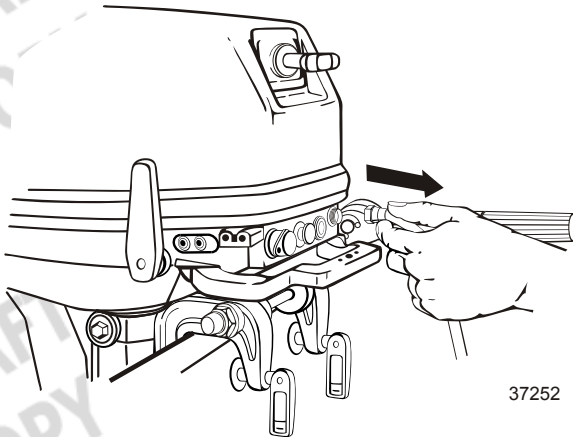
IMPORTANT: The tilt lock and shallow water drive feature (tiller handle models) on the outboard are not intended to support the outboard in the tilted position when trailering.

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.

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

Removing the Motor

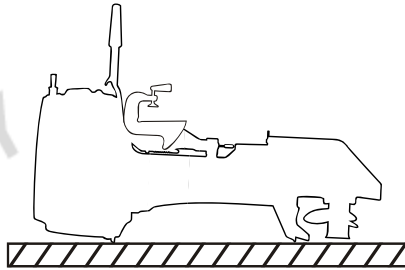
1. Stop the engine.
2. Disconnect the fuel connector from the motor.



3. Remove the motor from the hull and completely drain the water from the outboard. Be sure to keep the engine higher than the propeller whenever you carry the motor.

TRANSPORTING

4. Rest the motor on the ground with the clamp screw handles facing upward.



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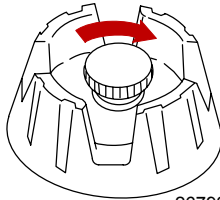
Transporting Portable Fuel Tanks

⚠ WARNING

Avoid serious injury or death from a gasoline fire or explosion. Follow the transporting instructions supplied with the portable fuel tank. Transport the fuel tank in a well ventilated area away from open flame or sparks.

MANUAL VENTING TYPE FUEL TANK

Close fuel tank air vent when transporting tank. This will prevent escape of fuel or vapors from tank.



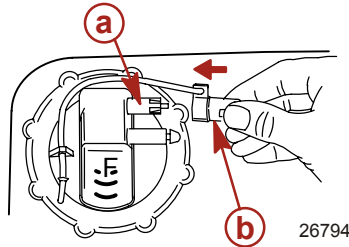
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AUTO-VENTING TYPE FUEL TANK

1. Disconnect the remote fuel line from tank. This will close the air vent and prevent escape of fuel or vapors from tank.

TRANSPORTING

2. Install tether cap over the fuel line connector stem. This will protect the connector stem from being accidentally pushed-in, thus, allowing fuel or vapor to escape.



a - Connector stem

b - Tether cap

FUEL & OIL

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.

FUEL & OIL

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

Fuel leakage is a fire or explosion hazard, which can cause serious injury or death. Periodically inspect all fuel system components for leaks, softening, hardening, swelling, or corrosion, particularly after storage. 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.

Oil Recommendation

Recommended Oil	Mercury or Quicksilver Premium 2-Cycle TC-W3 Outboard Oil
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FUEL & OIL

IMPORTANT: Oil must be NMMA certified TC-W3 2-Cycle oil.

Mercury or Quicksilver Premium TC-W3 2-Cycle oil is recommended for this engine. For added protection and lubrication, Mercury or Quicksilver Premium Plus TC-W3 2-Cycle oil is recommended. If Mercury or Quicksilver outboard oil is not available, substitute another brand of 2-cycle outboard oil that is NMMA Certified TC-W3. Severe engine damage may result from use of an inferior oil.

Mixing Fuel and Oil

Use a 25:1 (4%) gasoline/oil mixture in the first tank of fuel.

After the break-in fuel mixture is used up, use a 50:1 (2%) gasoline/oil mixture. Refer to the table (following) for mixing ratios.

GASOLINE/OIL MIXING RATIO CHART

GASOLINE/OIL MIXING RATIO CHART			
Gas/Oil Ratio	3.8 liters (1 gal.) gas	11.5 liters (3 gal.) gas	23 liters (6 gal.) gas
25:1 (4%)	148 ml (5 fl. oz.) oil	473 ml (16 fl. oz.) oil	946 ml (32 fl. oz.) oil
50:1 (2%)	89 ml (3 fl. oz.) oil	237 ml (8 fl. oz.) oil	473 ml (16 fl. oz.) oil

MIXING PROCEDURE

Pour the full amount of oil along with approximately one gallon of gasoline into an approved container. Shake the two together until they are thoroughly mixed. Add the remainder of gasoline and shake container to ensure mixing.

Filling Fuel Tank

WARNING

Avoid serious injury or death from a gasoline fire or explosion. Use caution when filling fuel tanks. 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. Always stop engine before refilling tanks.

FUEL & OIL

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.

FILLING PERMANENTLY INSTALLED TANKS

Slowly pour the correct amount of oil along with gasoline as the tank is being filled.

FILLING PORTABLE FUEL TANKS

Remove the portable fuel tanks from the boat to refill them.

Pour the full amount of oil, along with one gallon of gasoline into the fuel tank. Mix thoroughly, then pour the remainder of the gasoline into the tank.

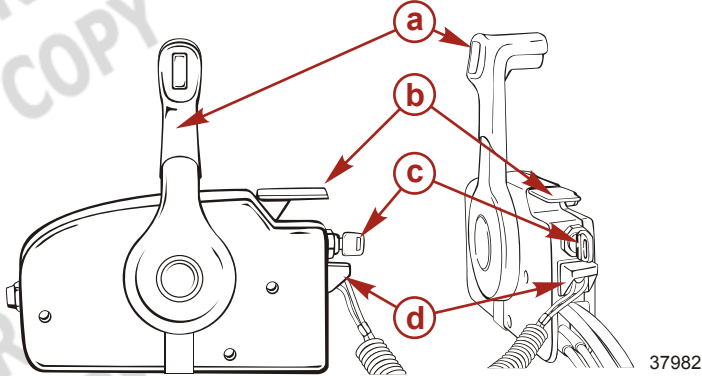
PORTABLE FUEL TANK PLACEMENT IN THE BOAT

Place the fuel tank in the boat so the vent is higher than the fuel level under normal boat operating conditions.

FEATURES & CONTROLS

Remote Control Features

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

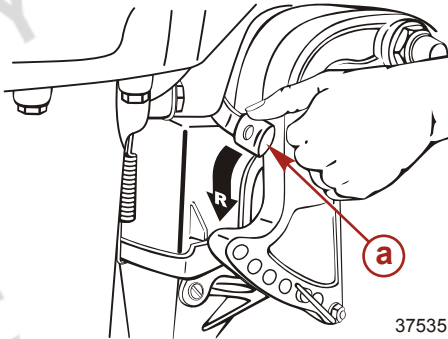


- a** - Remote control handle - Forward (F), Neutral (N), Reverse (R)
- b** - Throttle only lever
- c** - Ignition key switch
- d** - Lanyard stop switch

Tilting Outboard

TILT UP

Turn the reverse lock lever to release side and tilt up the engine; the engine is set automatically.

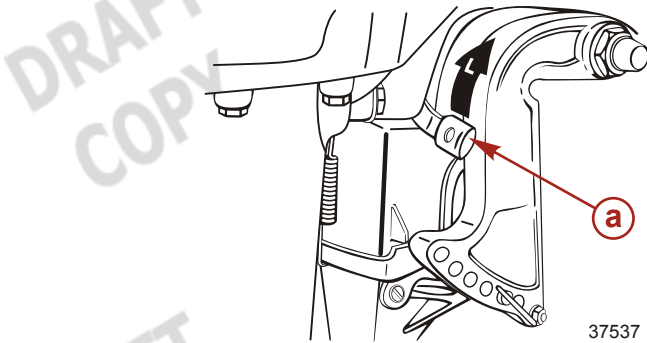


- a** - Reverse lock lever

FEATURES & CONTROLS

TILT DOWN

Turn the reverse lock lever to lock side, lift up the engine slightly, and put it down. Reverse lock is done automatically.



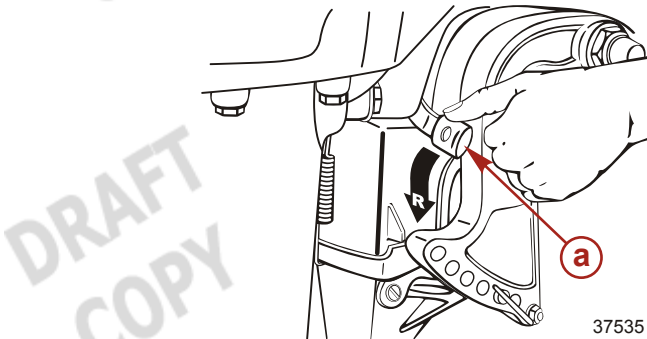
a - Reverse lock lever

Shallow Water Operation

The outboard is equipped with a shallow water tilt feature that allows you to tilt the outboard to a higher tilt angle to prevent hitting bottom.

SHALLOW WATER RUNNING POSITION

Turn the reverse lock lever to release side, and tilt up the engine to set the engine to shallow water running position.

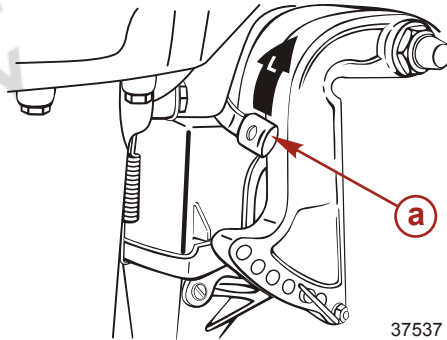


a - Reverse lock lever

FEATURES & CONTROLS

TILT DOWN FROM SHALLOW WATER RUNNING POSITION

Turn the reverse lock lever to lock side, lift up the engine slightly, and put it down. Reverse lock is done automatically.



a - Reverse lock lever

IMPORTANT: While in shallow water drive position, do not operate the outboard in reverse. Operate the outboard at slow speed and keep the cooling water intake submerged.

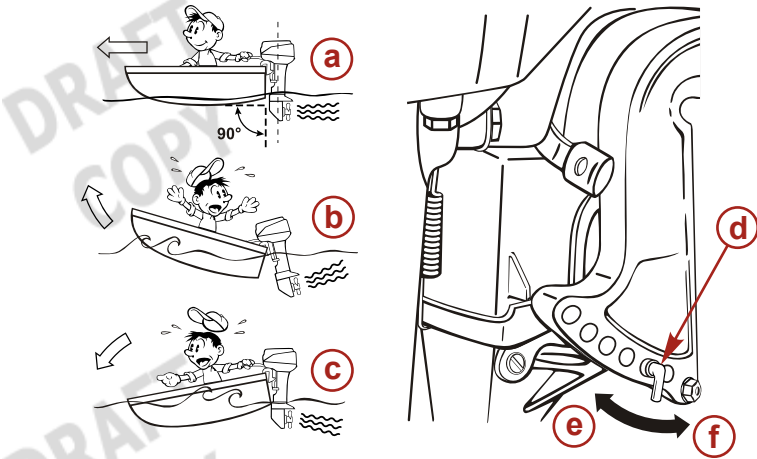
Trim Adjustment

Trim of the motor can be adjusted to suit the transom angle and loading conditions of your boat. Be sure to maintain the anti-ventilation plate parallel to the water level during cruising.

- **Correct trim:** Maintain the trim position pin perpendicular to the water level to keep your boat level during cruising.
- **Trim down:** If the bow rises too high, causing unstable cruising, trim the trim position pin down.

FEATURES & CONTROLS

- **Trim up:** If the bow falls into the water level when cruising, trim the trim position pin up.



- a** - Correct trim
- b** - Trim down
- c** - Trim up

- d** - Trim position pin
- e** - Up
- f** - Down

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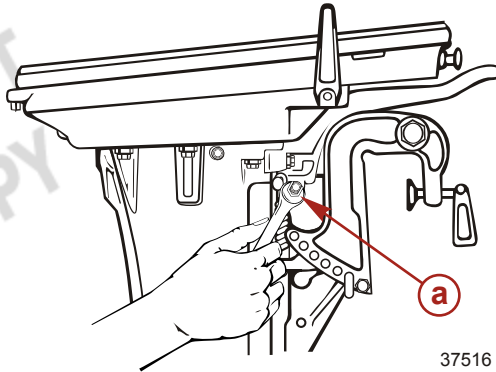
Steering Friction Adjustment

Steering friction can be adjusted according to your preference with the steering co-pilot.

- Turn clockwise: More friction

FEATURES & CONTROLS

- Turn counterclockwise: Less friction



a - Steering co-pilot

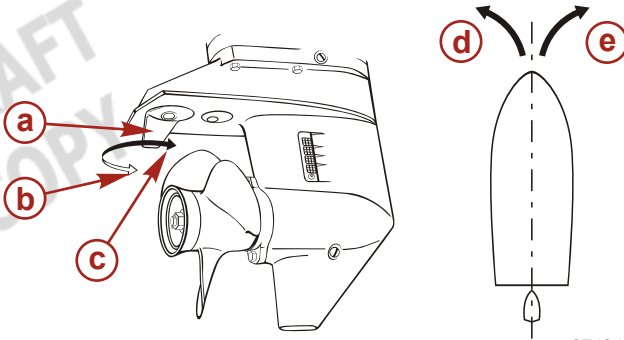
Trim Tab Adjustment

Propeller steering torque will cause your boat to pull in one direction. This steering torque is a normal thing that results from your outboard not being 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. The trim tab is located under the anti-ventilation plate.

- If the boat steers toward the right, set the trim tab in the direction of (c).

FEATURES & CONTROLS

- If the boat steers toward the left, set the trim tab in the direction of (b).



a - Trim tab

b - Steers toward the left,
set the trim tab in the
direction of B

c - Steers toward the
right, set the trim tab in
the direction of C

d - Turning left

e - Turning right

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 in.) or more above the boat bottom.

OPERATION

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 boats' maximum load capacity. Look at the boat 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 Saltwater 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**.

OPERATION

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.

Operating at High Elevations

IMPORTANT: To prevent serious damage to the engine caused by a lean fuel mixture, do not operate your outboard (if the jets were changed for high elevation) at a lower elevation unless the jets are changed again to correspond to the new elevation.

Operating your outboard at an elevation higher than 750 m (2500 ft.) above sea level may require a carburetor jet change and/or different pitch propeller. Consult your dealer. This will reduce the normal performance loss experienced as a result of reduced oxygen in the air causing an overly rich fuel mixture.

Engine Break-in Procedure

IMPORTANT: Failure to follow the engine break-in procedures can result in poor performance throughout the life of the engine and can cause engine damage. Always follow break-in procedures.

Break-in running time: 10 hours

Time	0 min.~	10 min.~	1 hr.~	2 hrs.~	10 hrs.~
Method of break-in	Trolling or idling	Throttle opening <1/2 about 3,000 RPM	Throttle opening <3/4 about 4,000 RPM	Throttle opening 3/4 about 4,000 RPM	Normal running
Running conditions	Cruising at minimum speed	—	Full-throttle run is allowed for 1 min. in 10 min.	Full-throttle run is allowed for a short time.	—

ENGINE BREAK-IN FUEL MIXTURE

Use a 25:1 gasoline/oil mixture in the first tank of fuel.

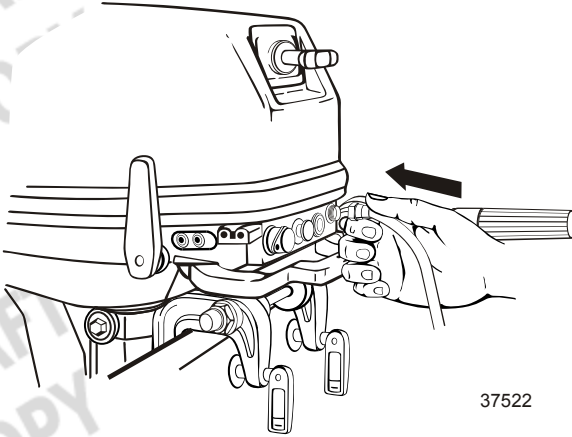
OPERATION

The use of poor quality fuel will shorten the life of a motor and cause trouble, including starting failure. It is recommended to use a high quality gasoline and genuine or recommended engine oil. (Refer to **Oil and Fuel** section.)

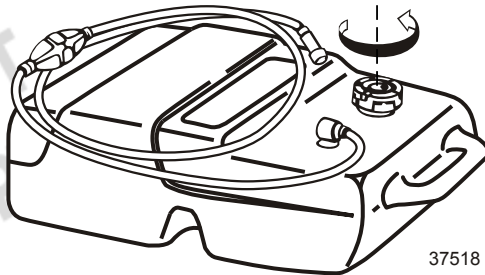
Starting the Engine

PREPARATIONS

1. Install the fuel connector to the engine side connector.

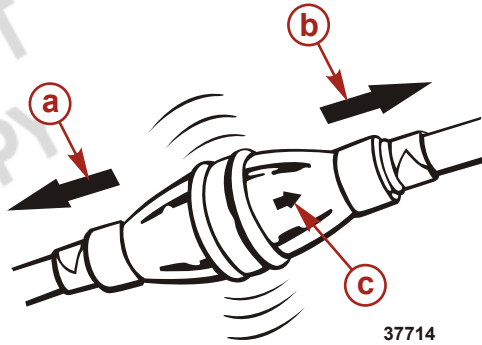


2. Loosen the air vent screw on the tank cap. For tanks with a fuel tank auto air vent (optional): There is no need to loosen the air vent screw. An air vent opens automatically when the connector is attached to the tank.



OPERATION

3. Feed fuel to the carburetor by squeezing the primer valve until firm.



a - To fuel tank
b - To outboard

c - Fuel flow direction

NOTICE

Without sufficient cooling water, the engine, the water pump, and other components will overheat and suffer damage. Provide a sufficient supply of water to the water inlets during operation.

NOTE: Be sure that the shift is at Neutral (N) when starting the engine. This model is provided with start in gear protection.

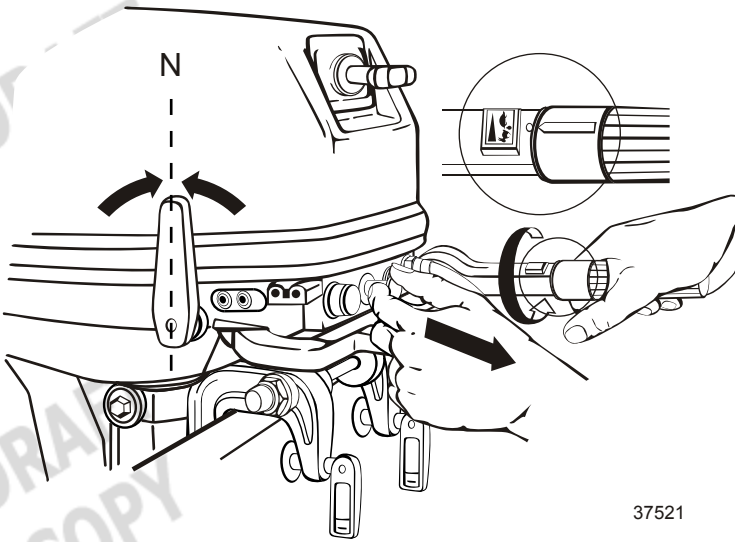
4. **Tiller Handle Models:** Set the shift lever to neutral position.

NOTE: Be sure that the shift is at neutral when starting the engine. This model is provided with start in-gear protection.

5. Turn the throttle grip until the bar mark on the grip faces the triangle mark on the steering handle.

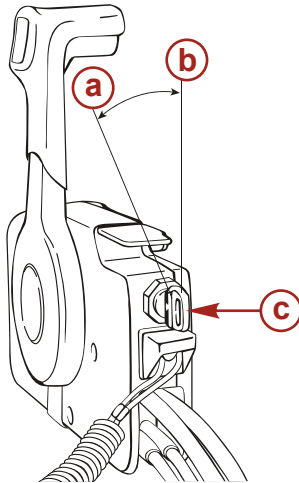
OPERATION

6. Pull out the choke knob fully. (No choke operation is necessary on warmed engine.)



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7. **Remote control models:** Insert the key.
8. Turn the key to the ON position, and push it for choke operation. (No need to push the key when the engine is warm.)



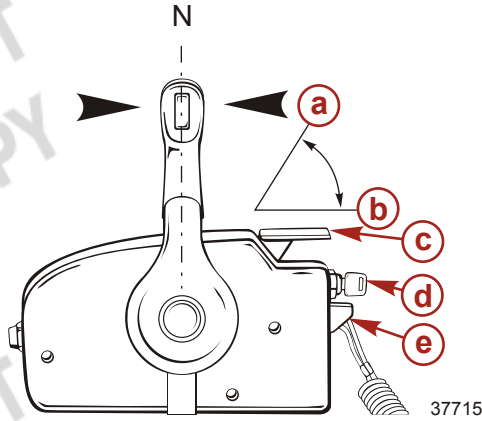
37466

a - OFF
b - ON

c - Push for choke operation

OPERATION

9. Place the control lever at Neutral (N), and move the Throttle only lever to the open position.

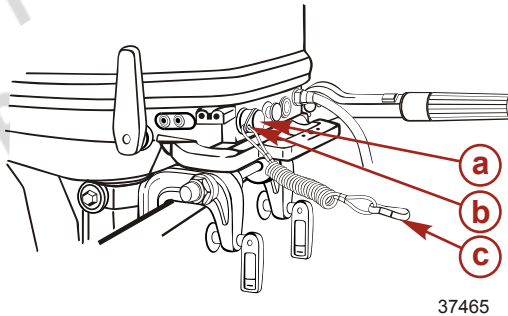


- a** - Fully opened position
- b** - Fully closed position
- c** - Throttle only lever
- d** - Ignition key switch
- e** - Lanyard stop switch

SET THE LANYARD STOP SWITCH TO RUN POSITION

Be sure to connect the lanyard stop switch to your body. The engine will shut down if the stop lanyard is disconnected.

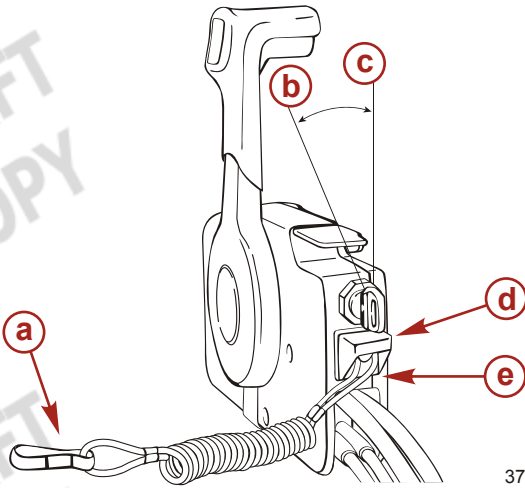
Tiller handle models



- a** - Lanyard stop switch
- b** - Stop switch lock
- c** - Hook

OPERATION

Remote control models



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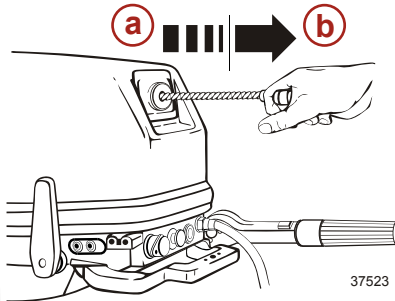
- a** - Hook
- b** - OFF
- c** - ON

- d** - Stop switch lock
- e** - Lanyard stop switch

NOTE: The engine will not start unless this switch has been properly connected and locked beforehand. Refer to **General Information - Lanyard Stop Switch**.

STARTING THE ENGINE

1. Pull the rewind starter slowly until you feel the starter engage, then pull rapidly to crank the engine. Allow the rope to return slowly.



37523

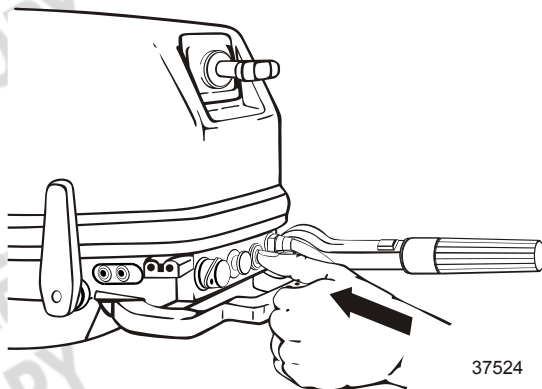
- a** - Slowly

- b** - Rapidly

OPERATION

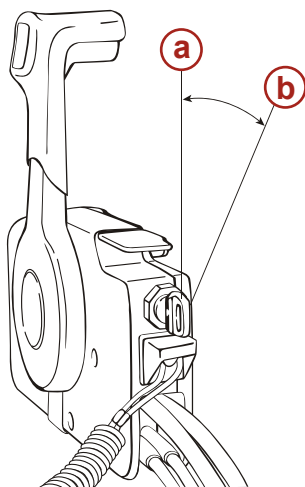
IMPORTANT: Before starting, read the Pre-Starting Check List, Special Operating Instructions, and Engine Break-in Procedures in the Operation Section.

2. **Tiller handle models:** Push the starter button.
3. After the engine starts, release the button.



4. **Remote control models:** Insert, push, and turn the key to the START position.

NOTE: When restarting a warm engine, do not push the key; merely turn it to the start position.



a - ON

b - START

OPERATION

- When the engine starts, release the key, and it will return automatically to the original position.
- If the engine fails to start in 10 seconds, wait 30 seconds and try again. If the engine begins to stall, reprime (push key in) until the engine is running.

IMPORTANT: RAPID ACCELERATION HAZARD: Before shifting your outboard from neutral into gear, decrease engine speed to slow. This will prevent a rapid acceleration that can cause people in the boat to be thrown from their seats or out of the boat, causing injury or death.

STARTING GUIDELINE

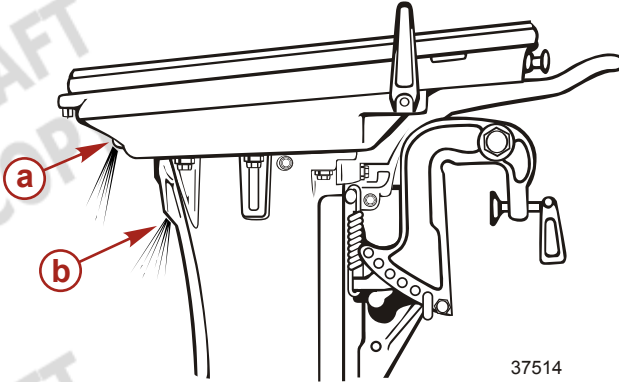
Temperature	Starting procedure
Over 25 °C (77°F)	Turn the throttle grip to the original position. Pull the choke knob and rewind starter once. Turn the throttle grip to start position, push the choke knob back, then pull the rewind starter until the engine starts.
15°C–25°C (59 °F–77°C)	Turn the throttle grip to start position. Pull the choke knob and rewind starter once. Push the choke knob back and pull the rewind starter until the engine starts.–
Below 15 °C (59 °F)	Turn the throttle grip to start position. Pull the choke knob and the rewind starter until combustion occurs. Push the choke knob back and pull the rewind starter until the engine starts.

Warm-Up

Run the engine at a low speed for about three minutes for warm-up operation before cruising, permitting the oil to circulate throughout the engine, otherwise the life of the engine will be shortened greatly. During warm-up operation, confirm that cooling water is discharged from its water pump indicator hole.

OPERATION

IMPORTANT: If cooling water is not discharged, and operation continues, it may cause overheating, resulting in engine damage.



37514

a - Water pump indicator

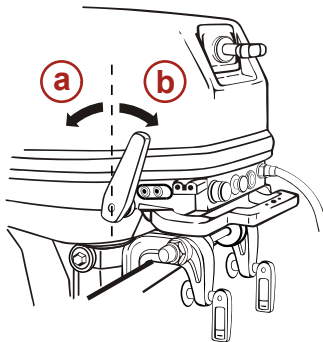
b - Cooling water discharge port

Gear Shifting

FORWARD

IMPORTANT: It may be dangerous to attempt shifting at high RPM. Be sure to slow down to trolling or idling RPM before shifting.

Tiller handle models: Turn the throttle grip to the SLOW position and move the shift lever to Forward (F) position swiftly when the engine speed drops to its lowest level.



37713

a - Reverse (R)

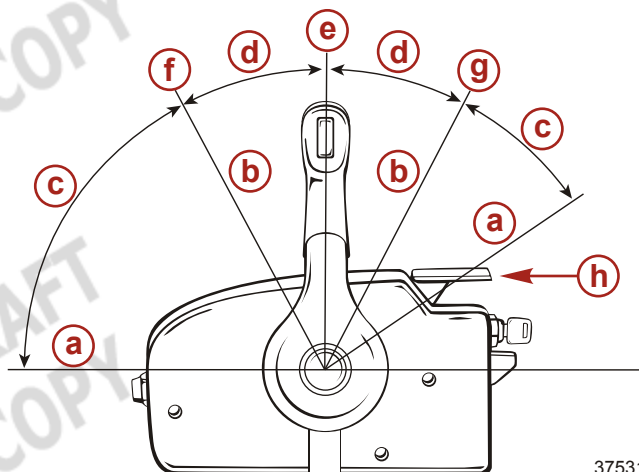
b - Forward (F)

OPERATION

Remote control models: Move the throttle-only lever to the lower position, then shift the control lever to Forward (F) position.

NOTE: CONFIRM reverse lock lever is in Release (R) position.

NOTE: Forward running is not possible unless the throttle-only lever is at the lower position.



37531

a - Fully opened position

b - Fully closed position

c - Throttle

d - Shift

e - Neutral (N)

f - Forward (F)

g - Reverse (R)

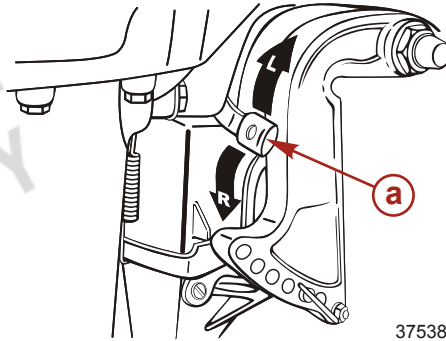
h - Throttle only lever

REVERSE

Tiller handle models: Move the shift lever to the Reverse (R) position swiftly when the engine speed drops to its lowest level.

OPERATION

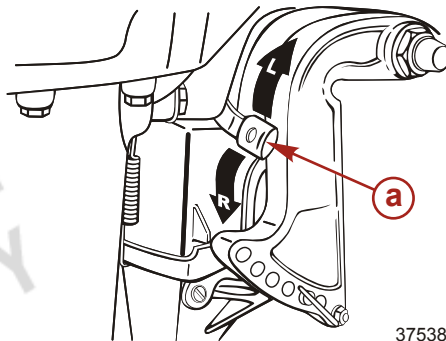
NOTE: Confirm that the reverse lock lever is at the lock position.



a - Reverse lock lever: R = Release, L = Lock

Remote control models: Operate the clutch only when the engine operates at idle speed. To change Forward (F) to Reverse (R), first idle the engine and shift into Neutral (N). With the engine still running, slowly engage and gradually increase the reverse speed.

NOTE: Confirm that the reverse lock lever is at the LOCK position.



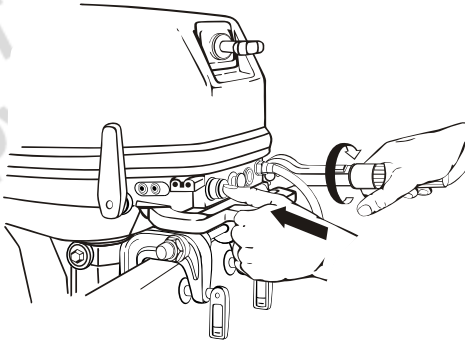
a - Reverse lock lever: R = Release, L = Lock

Stopping the Engine

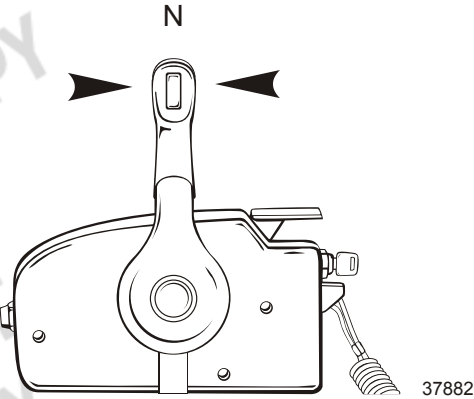
1. **Tiller handle models:** Reduce the speed to trolling speed by turning the throttle grip to the SLOW position.
2. Place the shift lever at Neutral (N).

OPERATION

3. Press the stop switch until the engine stops completely, or pull the stop switch lock.

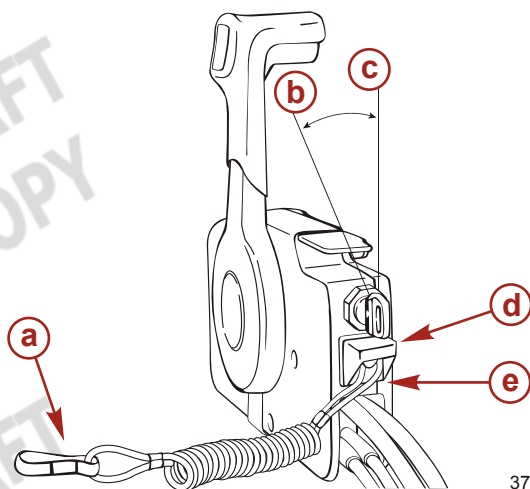


1. **Remote control models:** Place the remote control lever at Neutral (N) and idle the engine.



OPERATION

2. Turn the key to OFF position, or pull the stop switch lock.



37716

a - Hook
b - OFF
c - ON

d - Stop switch lock
e - Lanyard stop switch

IMPORTANT: Follow the instruction below.

- After the engine stops, tighten the air vent screw on the tank cap.
- Disconnect the fuel connector from the engine.
- For the EH and E types, disconnect the cables from the battery when not in use for extended periods.

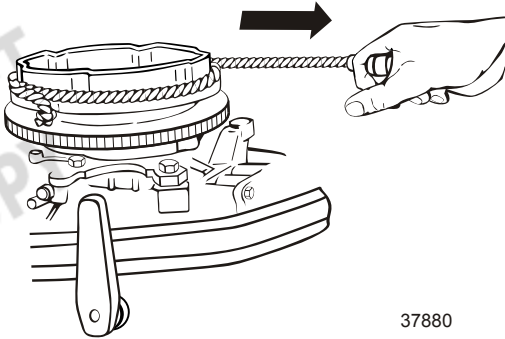
Emergency Starting

If the starter system fails, use the spare starter rope (provided) and follow procedure.

1. Remove the starter rope.
2. Wind a pull rope around the flywheel.

OPERATION

- Use a 10 mm socket wrench as a pull grip, as shown below.



37880

NOTE: Confirm that the shift lever is in Neutral (N).

WARNING

The exposed moving flywheel can cause serious injury. Keep your hands, hair, clothing, tools, and other objects away from engine when starting or running the engine. Do not attempt to reinstall the rewind starter assembly or top cowl when engine is running.

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.

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.

EPA Regulations

All new outboards manufactured by Mercury Marine are certified to the United States Environmental Protection Agency, as conforming to the requirements of the regulations for the control of air pollution from new outboard motors. This certification is contingent on certain adjustments being set to factory standards. For this reason, the factory procedure for servicing the product must be strictly followed and, wherever practicable, returned to the original intent of the design. **Maintenance, replacement, or repair of the emission control devices and systems may be performed by any marine spark ignition (SI) engine repair establishment or individual.**

MAINTENANCE

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.

MERCURY		EMISSION CONTROL INFORMATION	
This engine conforms to <input type="checkbox"/> model year EPA regulations for Marine SI engines. Refer to Owner's Manual for required maintenance.			
a →	IDLE SPEED: <input type="text"/>	FAMILY: <input type="text"/>	f →
b →	<input type="text"/> hp	<input type="text"/> cc	g →
c →	TIMING (IN DEGREES): <input type="text"/>	FEL: <input type="text"/> g/kW/h	h →
d →	Standard spark plug: <input type="text"/>	<input type="text"/>	i →
	Suppressor spark plug: <input type="text"/>		
e →	GAP: <input type="text"/>		
	Valve Clearance (Cold) mm	Intake <input type="text"/>	
		Exhaust <input type="text"/>	

28405

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

OWNER RESPONSIBILITY

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

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 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.

MAINTENANCE

- Remote control models - 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 saltwater.

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

- Lubricate all lubrication points. Lubricate more frequently when used in saltwater. See **Lubrication Points**.
- Inspect and clean spark plugs. See **Spark Plug Inspection and Replacement**.
- Check fuel line filter for contaminants. See **Fuel System**.
- Check carburetor adjustments, if required. See **Carburetor Adjustments**.
- Check corrosion control anodes. Check more frequently when used in saltwater. See **Corrosion Control Anodes**.
- Drain and replace gearcase lubricant. See **Gearcase Lubrication**.
- Lubricate splines on the driveshaft and shift shaft.¹
- Electric start models - Inspect battery. See **Battery Inspection**.
- Remote control models - Check control cable adjustments.¹
- Remove engine deposits with Mercury Precision or Quicksilver Power Tune Engine Cleaner.
- Check tightness of bolts, nuts, and other fasteners.
- Clean fuel tank pick up filter.

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

MAINTENANCE

EVERY 300 HOURS OF USE OR THREE YEARS

- Replace water pump impeller (more often if overheating occurs or reduced water pressure is noted).¹

BEFORE PERIODS OF STORAGE

- Refer to Storage procedure. See **Storage** section.

Flushing the Cooling System

FLUSHING

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.

Use a Mercury Precision or Quicksilver Accessory (or equivalent) flushing attachment.

IMPORTANT: The engine must be run during flushing in order to open the thermostat and circulate water through the water passages.

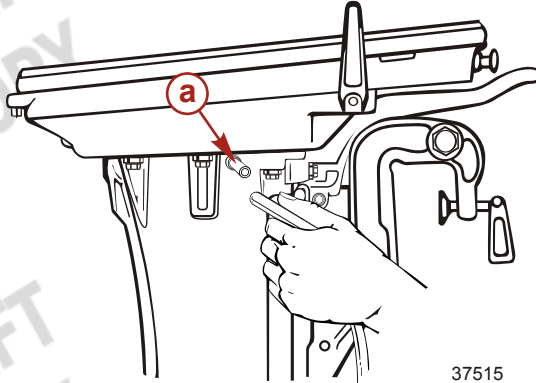
WARNING

Rotating propellers can cause serious injury or death. Never operate the boat out of the water with a propeller installed. Before installing or removing a propeller, place the drive unit in neutral and engage the lanyard stop switch to prevent the engine from starting. Place a block of wood between the propeller blade and the anti-ventilation plate.

1. Remove the water plug from the motor and screw in the associated flushing plug (hose adapter).

MAINTENANCE

2. Connect a hose to the flushing plug to flush out the inside of the motor with water. Be sure to seal the cooling water intake and secondary water intake, located at the gearcase with tape.



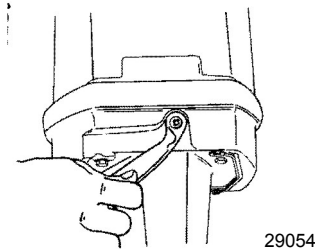
a - Flushing plug

3. With the shift lever in Neutral (N), run the engine at a low speed so that water flushes out the cooling system to remove seawater and mud.

Top Cowl Removal and Installation

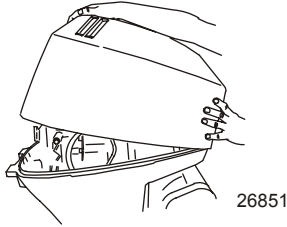
REMOVAL

1. Unlock the rear latch by pushing lever down.



MAINTENANCE

2. Lift rear of cowl and disengage front hook.



INSTALLATION

1. Engage the front hook and push cowl back over the cowl seal.
2. Push cowl down and move the rear latch lever up to lock.

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. Make sure the battery is secure against movement.
3. Battery cable terminals should be clean, tight, and correctly installed. Positive to positive and negative to negative.
4. Make sure the battery is equipped with a nonconductive shield to prevent accidental shorting of battery terminals.

Fuel System

WARNING

Fuel is flammable and explosive. Ensure the key switch is off and the lanyard is positioned so that the engine cannot start. Do not smoke or allow sources of spark or open flame in the area while servicing. Keep the work area well ventilated and avoid prolonged exposure to vapors. Always check for leaks before attempting to start the engine and wipe up any spilled fuel immediately.

MAINTENANCE

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 and inspect the filter element for sediment. Clean the tank and filters as follows.

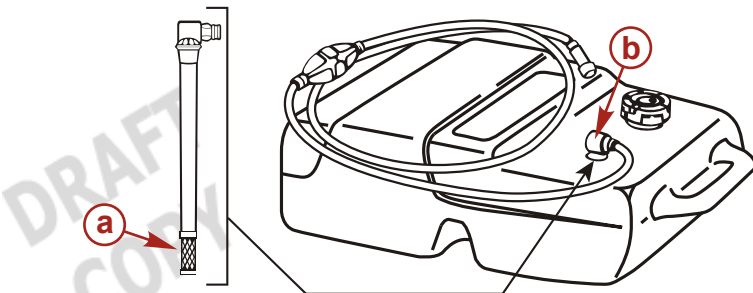
CLEANING

Cleaning fuel tank

1. Water or dirt in the fuel tank may cause engine trouble.
2. Clean the tank at specified times or after long storage period (over three months).

Fuel filters are provided inside the fuel tank and at the engine.

1. Unscrew four screws, remove the housing, then clean the fuel filter.

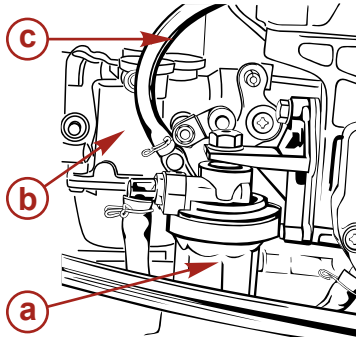


a - Filter: Unscrew the fuel pickup elbow and then clean it

b - Fuel pickup elbow

MAINTENANCE

2. Remove the cap, then clean the fuel filter at the engine.



a - Fuel filter
b - Carburetor

c - Fuel pipe

Fuse Replacement - Electric Start Remote Control Models

IMPORTANT: Always carry spare SFE 20 apm fuses.

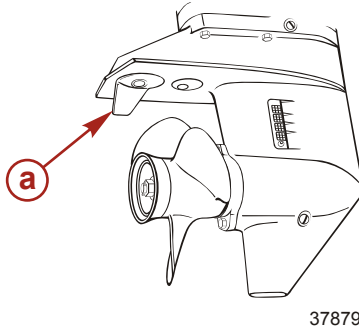
The electric starting circuit is protected from overload by an SFE 20 apm fuse. If the fuse is blown, the electric starter motor will not operate. Try to locate and correct the cause of the overload. If the cause is not found, the fuse may blow again. Replace fuse with a fuse of the same rating.

Corrosion Control Anode

Your outboard has a corrosion control anode installed on the gearcase and in the cylinder. An anode helps protect the outboard against galvanic corrosion by sacrificing its metal to be slowly corroded instead of the outboard metals.

MAINTENANCE

The anode requires periodic inspection, especially in saltwater 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.



a - Anode (trim tab)

Important:

- Before replacing the anode, remove the spark plug cap to make sure the engine will not start, then check and replace the anode.
- If the anode is worn out or no anode is fitted on the outboard motor, aluminum parts will corrode more rapidly which can cause paint to peel off and damage the surface.

Propeller Replacement

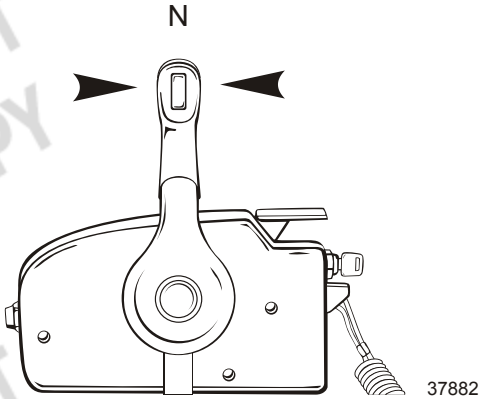
WARNING

Rotating propellers can cause serious injury or death. Never operate the boat out of the water with a propeller installed. Before installing or removing a propeller, place the drive unit in neutral and engage the lanyard stop switch to prevent the engine from starting. Place a block of wood between the propeller blade and the anti-ventilation plate.

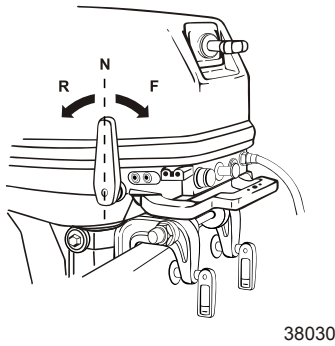
MAINTENANCE

REMOVING PROPELLER

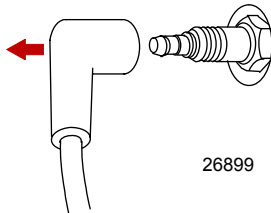
1. Remote control model: Shift outboard to Neutral (N) position.



2. Tiller handle model: Move shift lever to Neutral (N) position.

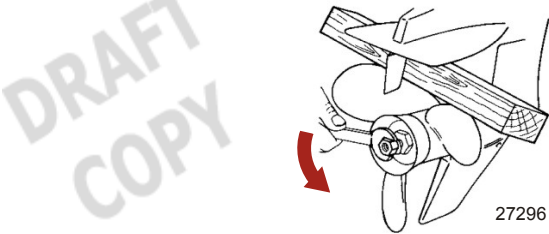


3. Remove the spark plug leads to prevent the engine from starting.

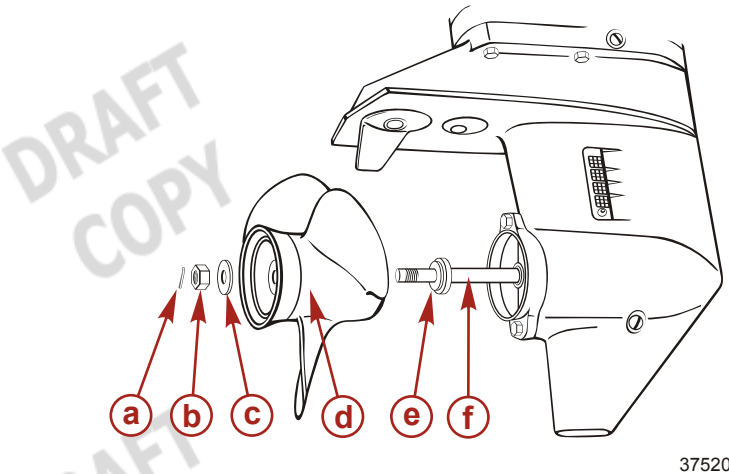


MAINTENANCE

- Place a block of wood between the gearcase and propeller to hold the propeller.




- Remove the cotter pin, propeller nut, and washer.




- a** - cotter pin
- b** - Nut
- c** - Washer

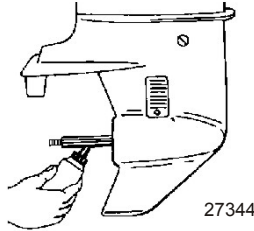
- d** - Propeller
- e** - Propeller thrust holder
- f** - Propeller shaft

- Pull propeller straight off the propeller shaft. If the propeller is seized to the propeller shaft and cannot be removed, have the propeller removed by an authorized dealer.
- Coat the propeller shaft with Quicksilver or Mercury Precision Lubricants Anti-Corrosion Grease or 2-4-C with Teflon.

Tube Ref No.	Description	Where Used	Part No.
 94	Anti-Corrosion Grease	Propeller shaft	92-802867Q 1

MAINTENANCE

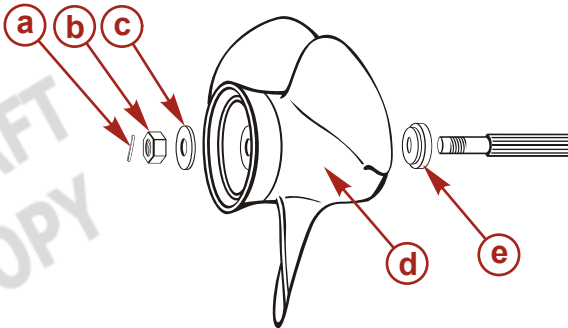
Tube Ref No.	Description	Where Used	Part No.
 95	2-4-C with Teflon	Propeller shaft	92-802859A 1



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.

INSTALLING PROPELLER

1. Install the propeller thrust holder, propeller, washer, nut, and cotter pin onto the propeller shaft.



- a** - cotter pin
- b** - Nut
- c** - Washer

- d** - Propeller
- e** - Propeller thrust holder

2. Place the propeller nut retainer over the pins. Place a block of wood between the gearcase and propeller and tighten the propeller nut to the specified torque.

MAINTENANCE

Description	Nm	lb. in.	lb. ft.
Propeller nut	75		55

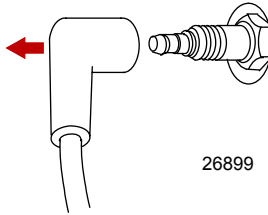
3. Install the spark plug leads.

Spark Plug Inspection and Replacement

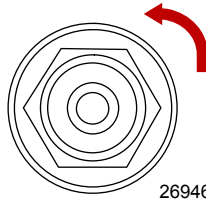
WARNING

Damaged spark plug boots may emit sparks which can ignite fuel vapors under the engine cowl, resulting in serious injury or death from a fire or explosion. To avoid damaging the spark plug boots, do not use any sharp object or metal tool to remove the spark plug boots.

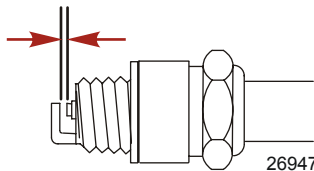
1. Remove the spark plug boots. Twist the rubber boots slightly and pull off.



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 specification.



MAINTENANCE

Spark Plug	
Spark plug gap	1.0 mm (0.035 in.)

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.

Description	Nm	lb. in.	lb. ft.
Spark plug	27		20

Lubrication Points

It is important to inspect and maintain your outboard motor regularly. Maintenance intervals should be determined according to the number of hours or number of months, whichever comes first. For periodic servicing and maintenance guidelines, please contact your local Mercury dealer.

Item	Every 50 hours or 3 months	Every 100 hours or 6 months	Action
Sliding and rotating parts	Yes	Yes	Apply and pump in grease
Grease fittings	Yes	Yes	Apply and pump in grease

Gearcase Lubrication

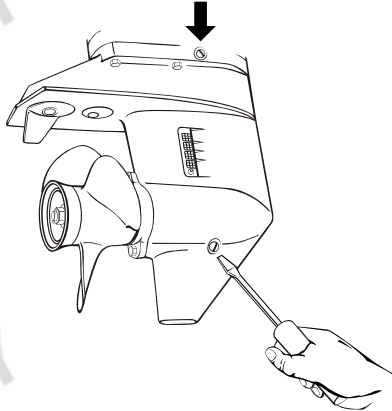
When adding or changing gearcase lubricant, visually check for the presence of water in the lubricant. If water is present, it may have settled to the bottom and will drain out prior to the lubricant, or it may be mixed with the lubricant, giving it a milky colored appearance. If water is noticed, have 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.

Remove the fill/drain plug and examine the magnetic end for metal particles. A small amount of metal filings or fine 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.

MAINTENANCE

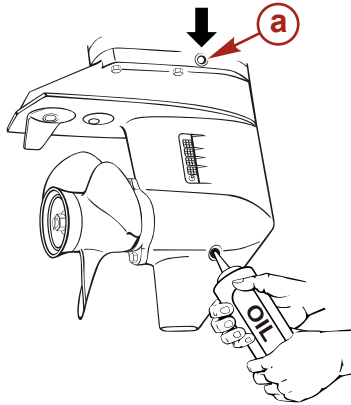
CHANGING GEAR OIL

1. Place the outboard in a vertical operating position.
2. Place a drain pan below the outboard.
3. Remove the oil plugs (upper and lower) and drain the gear oil completely.



37849

4. Place the lubricant tube into the fill/drain hole and add the lubricant until it appears at the upper oil plug hole.



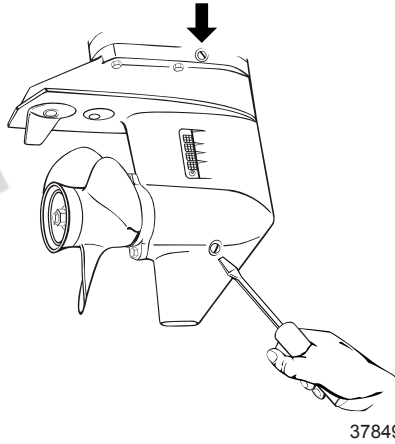
37848

a - Upper oil plug hole

5. Install the upper oil plug before removing the lubricant tube.

MAINTENANCE

6. Remove the lubricant tube and install the lower oil plug.



GEARCASE LUBRICANT CAPACITY

Gearcase lubricant capacity is approximately 280 cc (9.5 fl. oz).

GEARCASE LUBRICANT RECOMMENDATION

Mercury or Quicksilver Premium or High Performance Gear Lubricant.

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.

Following are the emergency measures to be taken on the submerged outboard.

1. Immediately take it out of the water and wash it with fresh water to remove salt or dirt.
2. Remove the spark plugs and completely drain the water from the engine by pulling the rewind starter several times.
3. Sufficiently inject genuine engine oil through the spark plug hole and into the crankcase from the carburetor side. Pull the rewind starter several times to circulate the oil throughout the motor.

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).

NOTICE

Without sufficient cooling water, the engine, the water pump, and other components will overheat and suffer damage. Provide a sufficient supply of water to the water inlets during operation.


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 the following instructions.

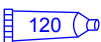
- Portable fuel tank - Pour the required amount of gasoline stabilizer (follow instructions on container) into fuel tank. Tip fuel tank back and forth to mix stabilizer with the fuel.
- Permanently installed fuel tank - Pour the required amount of gasoline stabilizer (follow instructions on container) into a separate container and mix with approximately 1 liter (1 U.S. quart) 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.

STORAGE

Flushing Device	91-44357Q 2
 <p>9192</p>	Attaches to the water intakes; provides a fresh water connection when flushing the cooling system or operating the engine.

Protecting External Outboard Components

- Lubricate all outboard components listed in **Maintenance - Inspection and Maintenance Schedule**.
- Touch up any paint nicks. See your dealer for touch-up paint.
- Spray Quicksilver or Mercury Precision Lubricants Corrosion Guard on external metal surfaces (except corrosion control anodes).

Tube Ref No.	Description	Where Used	Part No.
 120	Corrosion Guard	External metal surfaces	92-802878 55

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.

- Place the outboard in water or connect flushing attachment for circulating cooling water. Start the engine and let it run in neutral to warm up.
- With engine running at fast idle, stop the fuel flow by disconnecting the remote fuel line. When engine begins to stall, quickly spray Quicksilver or Mercury Precision Lubricants Storage Seal into carburetor until engine stops from lack of fuel.
- Remove the spark plugs and inject a five second spray of storage seal around the inside of the cylinder.

STORAGE

- Rotate the flywheel manually several times to distribute the storage seal in the cylinder. Reinstall spark plug.

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.

NOTICE

Storing the outboard in a tilted position can damage the outboard. Water trapped in the cooling passages or rain water collected in the propeller exhaust outlet in the gearcase can freeze. Store the outboard in the full down position.

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

- Remote control models - Blown 20 Amp 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 **Operation** section.
- Old or contaminated gasoline.
- Engine flooded. Refer to **Operation** section.
- Fuel is not reaching the engine.
 - a. Fuel tank is empty.
 - b. Fuel tank vent not open or restricted.
 - c. Fuel line is disconnected or kinked.
 - d. Primer bulb not squeezed.
 - e. Primer bulb check valve is faulty.
 - f. Fuel filter is obstructed. Refer to **Maintenance** section.
 - g. Fuel pump failure.
 - h. Fuel tank filter obstructed.
- Ignition system component failure.
- Spark plugs fouled or defective. Refer to **Maintenance** section.

Engine Runs Erratically

POSSIBLE CAUSES

- Spark plugs fouled or defective. Refer to **Maintenance** section.

TROUBLESHOOTING

- Incorrect setup and adjustments.
- Fuel is being restricted to the engine.
 - Engine fuel filter is obstructed. Refer to **Maintenance** section.
 - Fuel tank filter obstructed.
 - Stuck anti-siphon valve on built in fuel tank.
 - Fuel line is kinked or pinched.
- Fuel pump failure.
- Ignition system component failure.

Performance Loss

POSSIBLE CAUSES

- Throttle not fully open.
- Damaged or improper size propeller.
- 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.

ASSOCIATED PARTS

Associated Parts

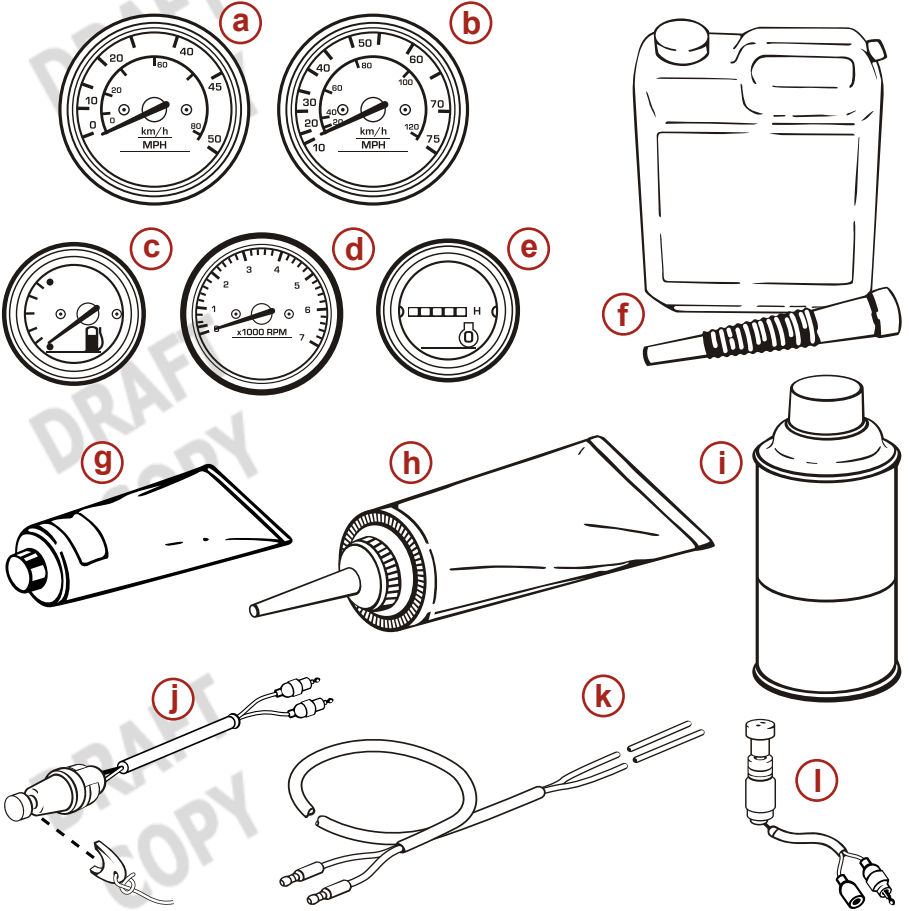
	Name	Quantity	Dimensions
Service tools	Tool bag	1	
	Pliers	1	
	Socket wrench	1	10 x 13 mm
	Socket wrench	1	21 mm
	Socket wrench handle	1	
	Screwdriver	1	
Spare parts	Starter rope	1	1000 mm
	Spark plug	1	NGK B7HS-10 or Campion L82C (Gap: 1.0 mm - 0.035 in)
	Cotter pin	1	
Other*	Fuel tank	1	
	Primer bulb	1 set	
	Remote control box	1 set	
	Remote control attachment	1 set	
	Steering link	1 set	
	Flushing plug	1	

* Not included as standard accessories in some markets.

ACCESSORIES

Accessories

OPTIONAL ACCESSORIES



37846

a - Speedometer (50 MPH)

b - Speedometer (75 MPH)

c - Fuel meter

d - Tachometer

e - Hour meter

f - Genuine engine oil

g - Genuine grease (50 g,
250 g)

h - Genuine gear oil (260 cc,
500 cc)

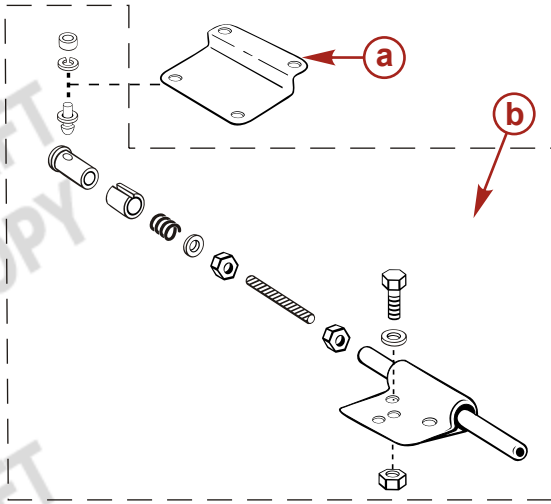
i - Touch-up spray paint
(300 ml)

j - Stop switch

k - Extension cord, light

l - Meter lamp switch

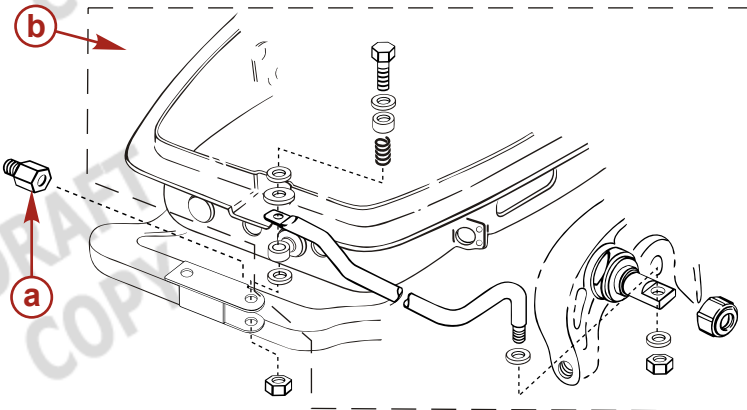
ACCESSORIES



37540

a - Turnbuckle plate

b - Twin remote control
turnbuckle assembly

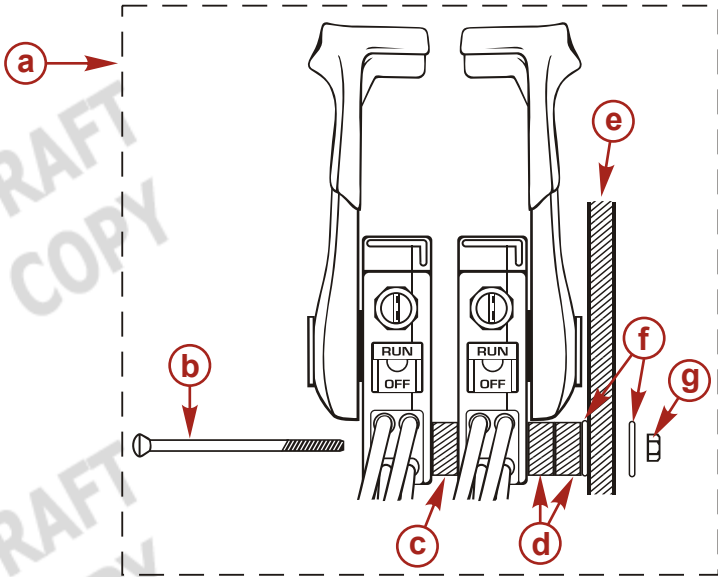


37506

a - Steering spacer

b - Steering link
assembly(standard: EP
type)

ACCESSORIES



37493

a - Twin remote control box kit

b - 3 screws (included in kit)

c - 3 spacers (included in kit)

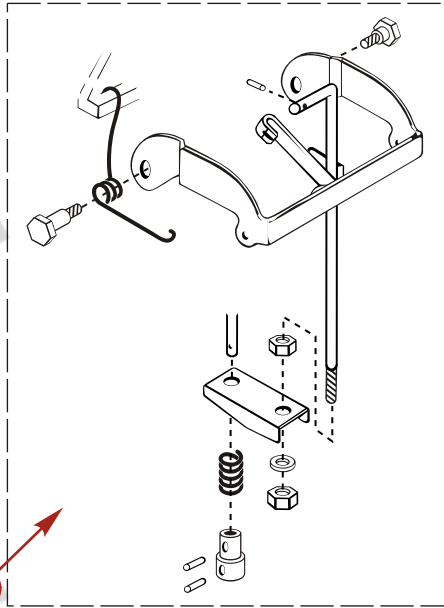
d - 6 spacers

e - Hull

f - 6 washers

g - 3 nuts

ACCESSORIES

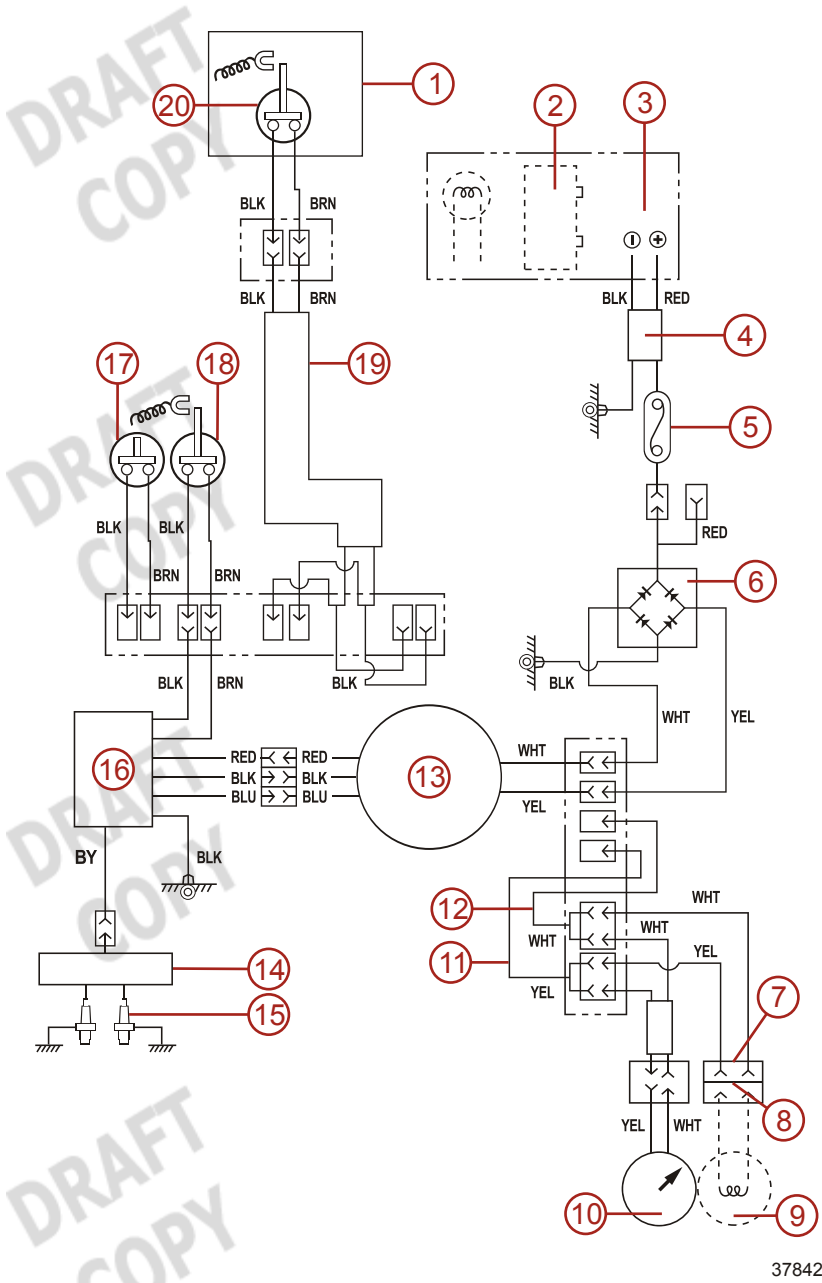


37504

a - Clutch lever reverse lock kit

WIRING DIAGRAMS

Wiring Diagrams

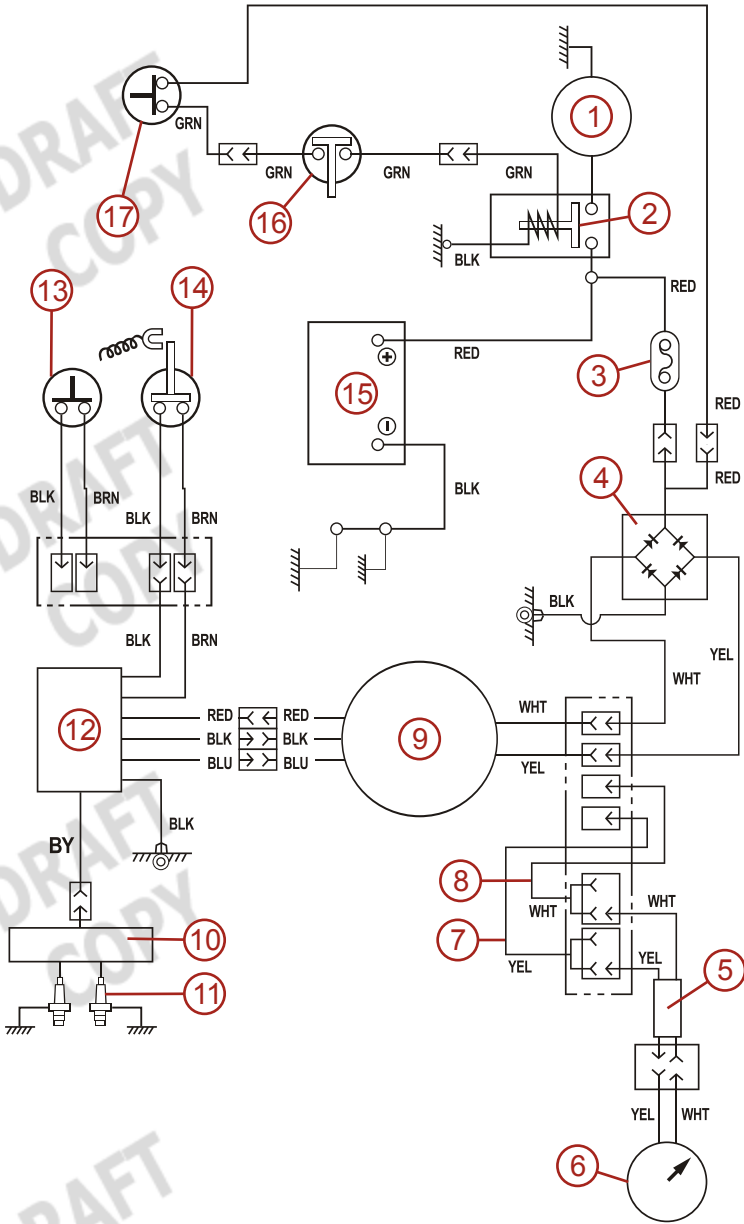


37842

WIRING DIAGRAMS

- 1** - Remote control box
- 2** - Battery
- 3** - 12 V, 800 W (DC)
- 4** - Extension cord (optional)
- 5** - Fuse (15 A)
- 6** - Rectifier (optional)
- 7** - Extension cord, light (optional)
- 8** - Receptacle plug (optional)
- 9** - Lamp (12 V, 80 W) (AC)
- 10** - Tachometer (optional)
- 11** - Separate cord (yellow) (optional)
- 12** - Separate cord (white) (optional)
- 13** - Flywheel magneto
- 14** - Ignition coil
- 15** - Spark plug
- 16** - CD unit
- 17** - Stop switch (optional)
- 18** - Stop switch
- 19** - Remote control stop cord (optional)
- 20** - Remote control stop switch

WIRING DIAGRAMS



37843

WIRING DIAGRAMS

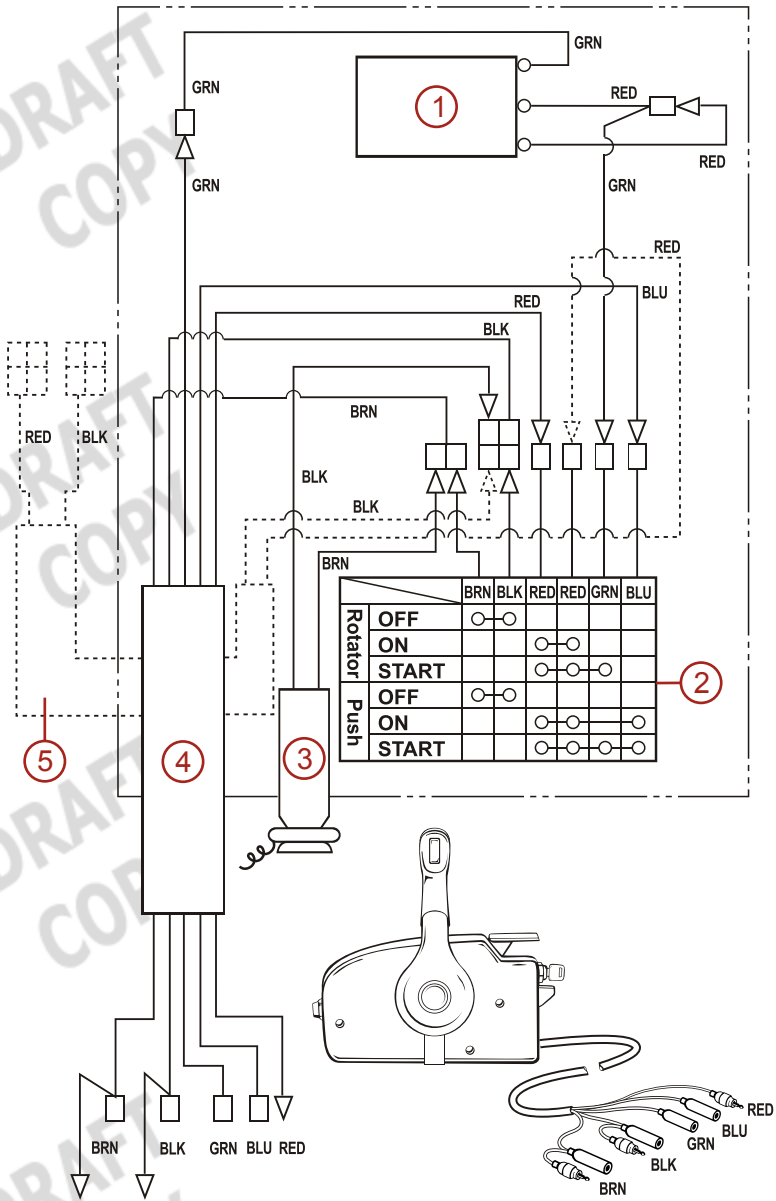
- 1** - Starter motor
- 2** - Starter solenoid
- 3** - Fuse (15 A)
- 4** - Rectifier
- 5** - Tachometer lead wire (optional)
- 6** - Tachometer (optional)
- 7** - Separate cord (yellow) (optional)
- 8** - Separate cord (white) (optional)
- 9** - Flywheel magneto
- 10** - Ignition coil
- 11** - Spark plug
- 12** - CD unit
- 13** - Stop switch (optional)
- 14** - Stop switch
- 15** - Battery: 12 V, 70 AH (optional)
- 16** - Neutral switch
- 17** - Main switch

WIRING DIAGRAMS

- 1** - Assist cord (black) (optional)
- 2** - Tachometer lead wire (optional)
- 3** - Rectifier
- 4** - Fuse wire (15 A)
- 5** - Starter solenoid
- 6** - Separate cord (white) (optional)
- 7** - Separate cord (yellow) (optional)
- 8** - Starter cord
- 9** - Starter motor
- 10** - Alternator
- 11** - Trigger coil
- 12** - Flywheel magneto
- 13** - Exciter coil
- 14** - Choke solenoid
- 15** - CD unit
- 16** - Ignition coil
- 17** - Spark plug
- 18** - Stop switch (optional)
- 19** - Meter lead wire (optional)
- 20** - Cord assembly
- 21** - Remote control box (see next page)
- 22** - Battery (12 V, 70 AH)
- 23** - Battery cord (-) (black)
- 24** - Battery cord (+) (red)
- 25** - Assist cord (blue) (optional)
- 26** - Assist cord (red) (optional)
- 27** - Meter lamp switch (optional)
- 28** - Voltmeter (optional)
- 29** - Speedometer (optional)
- 30** - Hour meter (optional)
- 31** - Tachometer (optional)

WIRING DIAGRAMS

REMOTE CONTROL BOX



37845

WIRING DIAGRAMS

- 1 - Neutral switch
- 2 - Main switch
- 3 - Stop switch
- 4 - Cord assembly
- 5 - Meter lead wire (optional)

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

OWNER SERVICE ASSISTANCE

- 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.

United States		
Telephone	(920) 929-5040	Mercury Marine W6250 W. Pioneer Road P.O. Box 1939 Fond du Lac, WI 54936-1939
Fax	(920) 929-5893	
Website	www.mercurymarine.com	

Canada		
Telephone	(905) 567-6372	Mercury Marine Ltd. 2395 Meadowpine Blvd. Mississauga, Ontario L5N 7W6 Canada
Fax	(905) 567-8515	

Australia, Pacific		
Telephone	(61) (3) 9791-5822	Mercury Marine Australia 132-140 Frankston Road Dandenong, Victoria 3164 Australia
Fax	(61) (3) 9793-5880	

Europe, Middle East, Africa		
Telephone	(32) (87) 32 • 32 • 11	Marine Power - Europe, Inc. Parc Industriel de Petit-Rechain B-4800 Verviers, Belgium
Fax	(32) (87) 31 • 19 • 65	

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

OWNER SERVICE ASSISTANCE

Japan		
Telephone	81-053-423-2500	Mercury Marine - Japan Anshin-cho 283-1 Hamamatsu Shizuoka-ken, Japan 435-0005 Japan
Fax	81-053-423-2510	

Asia, Singapore		
Telephone	5466160	Mercury Marine Singapore 72 Loyang Way Singapore, 508762
Fax	5467789	

