

EVINRUDE®

E-TEC™



2004

40 HORSEPOWER

RL

BOMBARDIER
RECREATIONAL PRODUCTS



WARNING
Read this Operator Guide thoroughly. It contains important safety information. When operating your boat, always have this Operator Guide onboard.

FEATURES AT A GLANCE

Easy to Own and Operate

- Three-Year Limited Warranty
- No Scheduled Dealer Maintenance for Three Years of Normal Recreational Use
- No Break-In Period
- *Sure Start System* (not battery dependent)
- Digital Engine Management
- Self Flushing Cooling System
- Long Term Storage Design
- Simplified Winterization Procedure
- Digital Diagnostics
- Ultra Low Oil Usage

Durable and Reliable

- Full Corrosion Protection
- *Evinrude E-TEC* Lubrication System
- Auto-Calibrated Linkage
- Heavy-Duty Use Design
- Posi-Lock Latches
- Digital Diagnostics
- Extra Capacity Water Pump
- High Thrust, Large Gearcase
- Dual Platinum Spark Plugs
- Vibration Isolated Electronics
- Beltless 25 Amp Charging System
- Stainless Steel Thermostats
- Nickel/Chrome-Faced Piston Rings
- Micro Finished Connecting Rods/Crankshaft

Cleaner and Quieter

- EPA 2006 and Beyond Compliance
- European Union 2006 and Beyond Emissions Compliance
- California 3-Star Emissions Compliance
- Sealed Fuel System
- Low Friction Design (No powerhead gears, belts, cams, oil scraping rings, or mechanical oil pump)
- Full Length Insulated Lower Pans
- Quiet Signature Sound
- Air Intake/Silencer
- Idle Air Bypass

The following trademarks are the property of Bombardier Motor Corporation of America or its affiliates:

Evinrude® E-TEC™

2+4® fuel conditioner

Evinrude®/Johnson® Genuine Parts

S.A.F.E.™

Evinrude®/Johnson® XD100™

Triple-Guard® grease

Evinrude®/Johnson® XD50™

Twist Grip™

Evinrude®/Johnson® XD30™

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Dear Boating Enthusiast,

Congratulations on your purchase of our industry-leading *Evinrude*® *E-TEC*™ outboard! Your purchase comes with the full commitment and backing of the Bombardier Outboard Engine team. We know your *Evinrude E-TEC* outboard will provide you with years of reliable use, and we hope you will enjoy using it as much as we enjoyed designing and building this innovative product.

You can be proud you purchased an *Evinrude E-TEC* outboard with the following benefits.

- **Easy to Own and Operate** – This means fewer time-consuming and expensive maintenance requirements. Your *Evinrude E-TEC* outboard has a debris-resistant, flow-through cooling system, and requires **no** break-in, oil changes, oil filter changes, or expensive winterizing. Best of all, there is no scheduled dealer maintenance for three years of normal recreational use—only common sense pre-launch checks and periodic checks for corrosion when used in salt-water applications.
- **Cleaner and Quieter** – Your *Evinrude E-TEC* outboard has the quieter signature *Evinrude* sound that rivals any competitive outboard. Additionally, this *Evinrude E-TEC* outboard complies with the strictest EPA, European Union, and California emissions regulations for outboard engines, and its sealed fuel system minimizes evaporative emissions.
- **Durability, Quality, and Reliability** – Your *Evinrude E-TEC* outboard utilizes proven, extremely durable engine components, such as pistons made from material developed by NASA, which are two-and-a-half times stronger than competitive pistons. There are no belts, pulleys, powerhead gears, cams, oil scraping rings, or mechanized oil pumps to cause problems. The *Evinrude E-TEC Sure Start* System delivers easy, quick starts every time, and its full magneto electronics are not dependant on a battery. All of this guarantees you getting out there on the water and, most importantly, getting back.
- **Exceptional Styling** – We put a lot of thought into the styling as well as the technology. We know form and function go hand in hand, so we made the hood ergonomically correct—should you ever need to lift it off. The packaging style you will find under the hood is something that has never been seen in the outboard engine industry. And with molded-in color, your *Evinrude E-TEC* outboard is more resistant to fading, chipping, peeling, or cracking than any other outboard on the market, giving you years of a great-looking outboard.

We, as a company, are proud you have purchased this technology-leading *Evinrude E-TEC* outboard engine. We thank you for your business and wish you many years of enjoyable use.

Happy Boating,



Roch Lambert

Vice-President and General Manager

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MAINTENANCE

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ABOUT THIS GUIDE

This Operator's Guide is an essential part of your *Evinrude E-TEC* outboard. It contains pertinent information which, if followed, will provide you with a thorough understanding needed for proper operation, maintenance, care, and—above all—safety. Safety is our first priority and it should be yours too. It is strongly recommended you read this Guide from cover to cover. The more you know and understand about your *Evinrude E-TEC* outboard, the greater the safety and pleasure you will get from using it. Following this recommendation will assure the completeness of the information essential to your safety, the safety of any passengers, and other water users.

This Operator's Guide identifies important safety messages.

Although the mere reading of such information does not eliminate the hazard, the understanding and application of the information will promote the correct use of your outboard engine.



Warning Symbols in this Guide

How can you reduce the risk of death, personal injury, and possible property damage? This Operator's Guide answers such questions and are contained in boxes highlighted by the Safety Alert Symbol. It is imperative to read, understand, and follow these comments.

This Guide should be kept in a waterproof bag with the outboard at all times during operation. If the product ownership is transferred, this Guide should be forwarded to the new owners.

A responsible, educated boater will fully appreciate the pleasures of boating and will be a safe boater. Boating Safety Classes are conducted by the U.S. Coast Guard Auxiliary, the U.S. Power Squadron and some Red Cross Chapters. For information about classes, call toll free 1-800-336-BOAT.

For additional information about boating safety and regulations, call:

- U.S. Coast Guard Boating Safety Hotline
1-800-368-5647.

Outside North America please contact your Dealer or distributor for details about boating safety.

This Operator's Guide uses the following signal words identifying important safety messages.



DANGER



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.



WARNING



Indicates a potentially hazardous situation which, if not avoided, **CAN** result in severe injury or death.



CAUTION



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate personal injury or property damage. It also may be used to alert against unsafe practices.

IMPORTANT: Identifies information that will help prevent damage to machinery and appears next to information that controls correct assembly and operation of the product.

These safety notices mean:

ATTENTION!

BECOME ALERT!

YOUR SAFETY IS INVOLVED!



Additionally, Bombardier has identified key information that is essential to the operation of your *Evinrude E-TEC* outboard.












Key information appears throughout this Guide in gray boxes with a key above the text. This highlighted information is a vital reference when using your outboard.

IMPORTANT SAFETY MESSAGES

This Operator's Guide contains essential information to help prevent personal injury and damage to equipment. Safety messages appear throughout this Guide in the applicable section.

| |
|---|
|  WARNING  |
| <p>Be careful! Human error is caused by many factors: carelessness, fatigue, overload, preoccupation, unfamiliarity of operator with the product, drugs and alcohol to name a few. Damage to your boat and outboard can be fixed in a short period of time, but injury or death, has a lasting effect.</p> <p>For your safety and the safety of others, follow all safety warnings and recommendations. Do not disregard any of the safety precautions and instructions.</p> <p>Anyone operating your boat should first read and understand this Guide before they operate your boat and outboard.</p> |

SAFETY MEASURES — General

-  To fully appreciate the pleasures, enjoyment and excitement of boating there are some basic rules that should be observed and followed by any boater. Some rules may be new to you and others may be common sense or obvious... irrespective, take them seriously!
-  Be sure at least one of your passengers knows how to handle your boat in case of an emergency.
-  All passengers should know the location of emergency equipment and how to use it.
-  Know the marine traffic laws and obey them.
-  All safety equipment and personal flotation devices must be in good condition and suitable for your type of boat. Always comply with the regulations that apply to your boat.
-  Remember, gasoline fumes are flammable and explosive. Always adhere to the fueling procedure contained in this Operator's Guide and those given to you by the fueling station. Always verify fuel level before use and during the ride. Apply the principle of 1/3 fuel to destination, 1/3 back and 1/3 reserve fuel supply. Do not carry spare fuel or flammable liquids in any storage or engine compartments.
-  Whenever running the engine, assure there is proper ventilation to avoid the accumulation of carbon monoxide (CO), which is odorless, colorless, and tasteless, and can lead to unconsciousness, brain damage, or death if inhaled in sufficient concentrations. CO accumulation can occur while docked, anchored, or underway, and in many confined areas such as the boat cabin, cockpit, swim platform, and heads. It can be worsened or caused by weather, mooring and operating conditions, and other boats. Avoid exhaust fumes from your engine or other boats, provide proper ventilation, shut off your engine when not needed, and be aware of the risk of backdrafting and conditions that create CO accumulation. In high concentrations, CO can be fatal within minutes. Lower concentrations are just as lethal over long periods of time.
-  Avoid standing up or shifting weight suddenly in light weight boats.
-  Keep your passengers seated in seats. The boat's bow, gunwale, transom and seat backs are not intended for use as seats.

SAFETY MEASURES — Installation and Maintenance

- ⚠ Insist on the use of personal floatation devices, approved by the U.S. Coast Guard, by all passengers when boating conditions are hazardous, and by children and nonswimmers at all times.
- ⚠ Proceed with caution and at very low speed in shallow water. Grounding or abrupt stops may result in personal injury or property damage. Also be alert for debris and objects in the water.
- ⚠ Be familiar with the waters you are operating in. The gearcase of this outboard extends below the water surface and could potentially come in contact with underwater obstructions. Contact with underwater obstructions may result in loss of control and personal injury.
- ⚠ Respect no wake zones, rights of other water users and the environment. As the "skipper" and owner of a boat you are responsible for damage to other boats caused by the wake of your boat. Allow no one to throw refuse overboard.
- ⚠ Do not operate your boat if you are under the influence of drugs or alcohol.
- ⚠ High performance boats have a high power-to-weight ratio. If you are not experienced in the operation of a high performance boat, do not attempt to operate one at, or near, its top speed until you have gained that experience.
- ⚠ Become completely familiar with the control and operation of your boat and outboard before embarking on your first trip or taking on a passenger(s). If you have not had the opportunity to do so with your Dealer, practice driving in a suitable area and feel the response of each control. Be familiar with all controls before applying the throttle above idle speed. As the operator, you are in control and responsible for safe operation.
- ⚠ The outboard must be correctly installed. Failure to correctly install the outboard could result in serious injury, death or property damage. We strongly recommend that your DEALER install your outboard to ensure proper installation.
- ⚠ Do not overpower your boat by using an engine that exceeds the horsepower indicated on the boat's capacity plate. Overpowering could result in loss of control. If your boat has no capacity plate, contact your DEALER or the boat's manufacturer.
- ⚠ When replacement parts are required, use *Evinrude®/Johnson® Genuine Parts* or parts with equivalent characteristics, including type, strength and material. Using substandard parts could result in injury or product malfunction.
- ⚠ Only perform service procedures which are detailed in this Operator's Guide. Attempting to perform maintenance or repair on your outboard if you are not familiar with the correct service and safety procedure could cause personal injury or death. Further information can be obtained from your authorized *Evinrude/Johnson* DEALER. In many instances proper tools and training are required for certain service or repair procedures.
- ⚠ Maintain your boat and engine in top condition at all times. Adhere to the **Maintenance Schedule** on page 29.
- ⚠ Operate your boat and outboard prudently and have fun. Do not forget that all persons must assist other boaters in case of emergency.
- ⚠ Prevent injury from contact with rotating propeller; remove propeller before flushing or before performing any maintenance.

PRODUCT REFERENCES, ILLUSTRATIONS AND SPECIFICATIONS

Bombardier reserves the right to make changes at any time, without notice, to features, specifications and model availability, and to change any specification or part at any time without incurring any obligation to update older models. The information in the Guide is based on the latest specifications available at the time of publication.

Photographs and illustrations used in this Guide might not depict actual models or equipment but are intended as representative views for reference only.

Certain features of systems discussed in this Guide might not be found on all models in all marketing areas.

Owner's Identification

United States and Canada — At the time of purchase, your Dealer will complete your outboard registration forms. Your portion provides proof of ownership and date of purchase.

Outside United States and Canada — See your Dealer or distributor for details.

Model and Serial Numbers

The model and serial numbers appear on a plate attached to the stern bracket or swivel bracket. Record your outboard's:

Model Number _____

Serial Number _____

Purchase Date _____

Ignition Key Number _____

Stolen Outboards

United States and Canada — Report your outboard as stolen to Customer and Dealer Support Services, 250 Seahorse Drive, Waukegan, IL 60085 U.S.A. Give the outboard's model and serial numbers and enclose a copy of the police report.

Outside United States and Canada — Report the theft to the Bombardier distributor where the outboard was registered.

Technical Literature

Bombardier offers technical literature specifically for your outboard. A service manual, a parts catalog, or an extra Operator's Guide can be purchased from your selling Dealer. For the name and location of the nearest *Evinrude* Dealer in the United States and Canada visit www.evinrude.com.

Declaration of Conformity

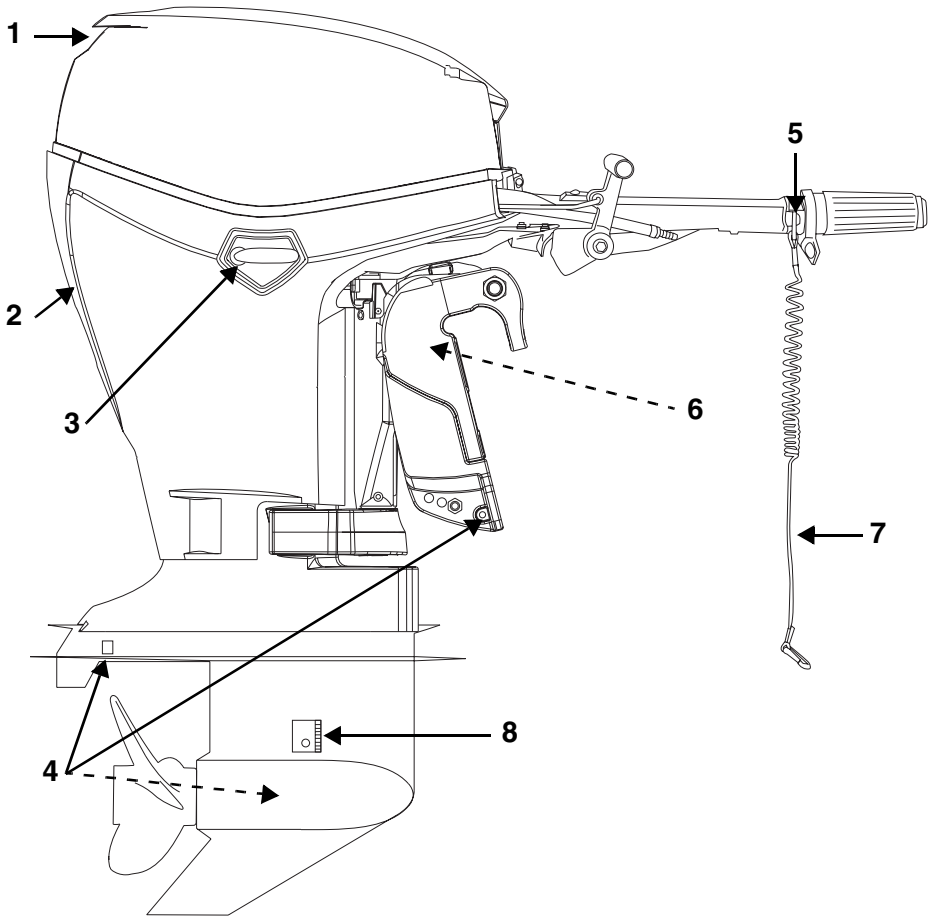
Bombardier Motor Corporation of America declares that the outboard to which this Operator's Manual applies conforms to the essential requirements outlined in **CE Machinery Directive 98-37-EC**, as amended.

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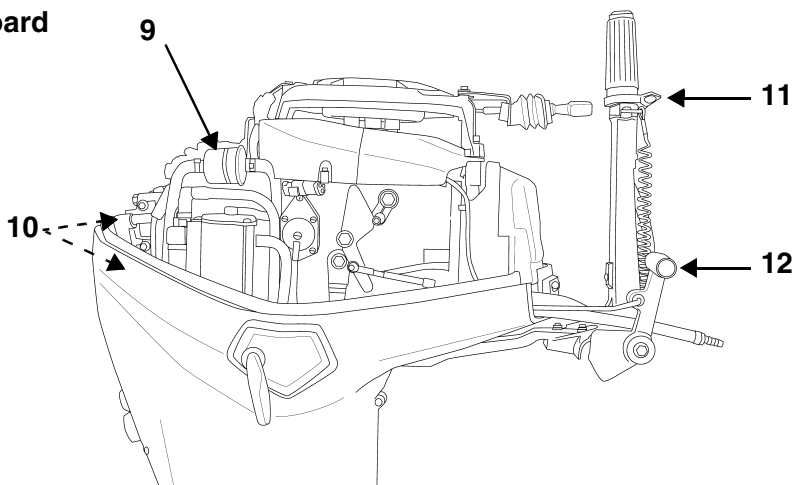
**USING YOUR
EVINRUDE E-TEC
OUTBOARD**

COMPONENT IDENTIFICATION

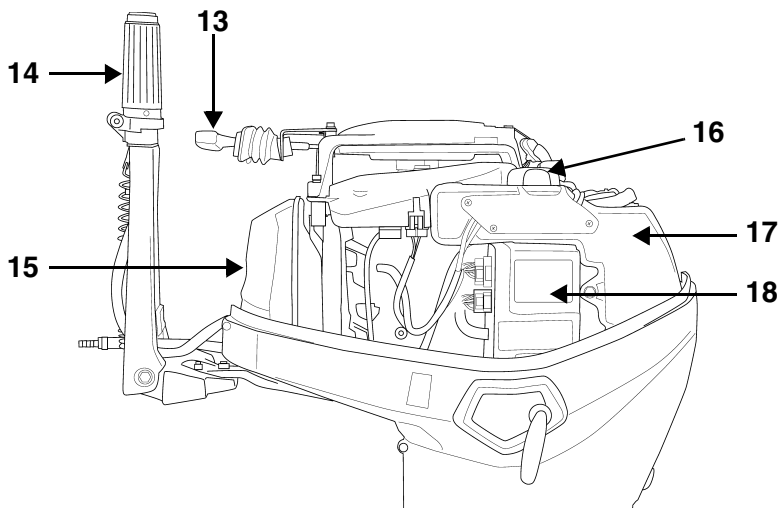


| Item | Description | Item | Description |
|------|-------------------------------------|------|-------------------------------------|
| 1 | Air Inlet, Tilt Handle | 5 | Stop Button / Emergency Stop Switch |
| 2 | Water Pump Indicator, Flushing Port | 6 | Tilt Support |
| 3 | Engine Cover Latch | 7 | Clip and Lanyard Assembly |
| 4 | Anti-Corrosion Anodes | 8 | Water Intake Screens |

Starboard



Port



| Item | Description | Item | Description |
|------|-------------------------|------|---|
| 9 | Fuel Filter | 14 | Steering Handle and <i>Twist Grip™</i> Throttle |
| 10 | Spark Plugs | 15 | Air Silencer |
| 11 | Throttle Friction Screw | 16 | Oil Fill Cap |
| 12 | Shift Lever | 17 | Oil Tank |
| 13 | Starter Handle | 18 | <i>EMM</i> (Engine Management Module) |

STARTING, STOPPING, SHIFTING

SAFETY INFORMATION



DANGER



DO NOT run the engine indoors or without adequate ventilation or permit exhaust fumes to accumulate in confined areas. Engine exhaust contains carbon monoxide which, if inhaled, can cause serious brain damage or death.



DANGER




Contact with a rotating propeller is likely to result in serious injury or death. Assure the engine and prop area is clear of people and objects before starting engine or operating boat. Do not allow anyone near a propeller, even when the engine is off. Blades can be sharp and the propeller can continue to turn even after the engine is off. Always shut off the engine when near people in the water.




WARNING



The engine cover is a machinery guard. **DO NOT** operate your outboard with the cover off unless you are performing maintenance or emergency starting, and then be careful to keep hands, hair, and clothing clear of all moving parts. Contact with moving parts could cause injury.

 Always shut off the outboard when your boat is near people who are in the water.

 Be familiar with the waters you are operating in. The gearcase of this outboard extends below the water surface and could potentially come in contact with underwater obstructions. Contact with underwater obstructions may result in loss of control and personal injury.

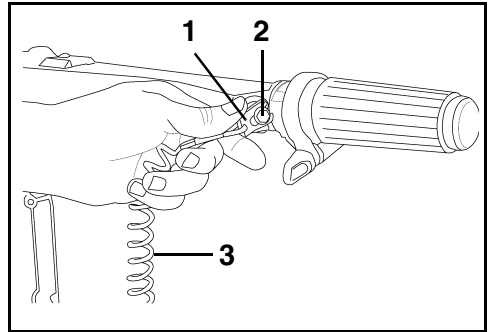
ENGINE STARTING

Refer to the **Routine Inspection Checklist** on page 25 for pre-launch checks before using your *Evinrude E-TEC* outboard.

You **MUST** supply water to the engine before attempting to start it. Engine damage can occur quickly.

Be sure the water intake screens are below the water surface.

Connect the clip to the emergency stop switch. Snap the lanyard to a **secure** place on the operator's clothing or life vest — not where it might tear away instead of activating the stop switch.



1. Clip
2. Emergency stop clip / key switch
3. Lanyard

IMPORTANT: The operator should always use the clip and lanyard anytime the engine is running. Refer to **Emergency Stop Switch** on page 20.

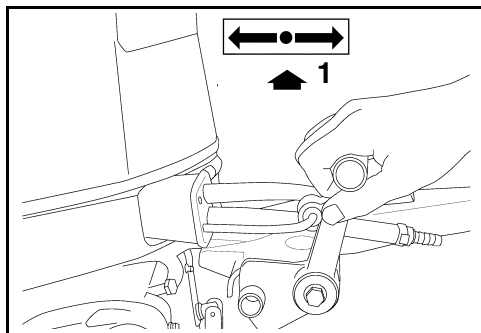


WARNING



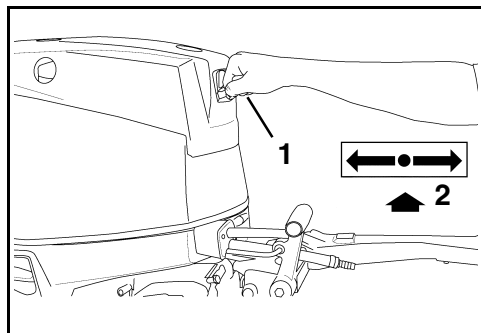
Always use the safety lanyard when operating your boat to help prevent a runaway boat and reduce the risk of personal injury or death.

Move the shift lever to NEUTRAL. Refer to **Shifting and Speed Control** on page 14.



1. NEUTRAL

While seated, grasp the starter handle and pull slowly until the starter engages, then pull hard. Repeat, if needed, until outboard starts. To prevent damage to starter assembly, allow starter cord to rewind before releasing starter handle.



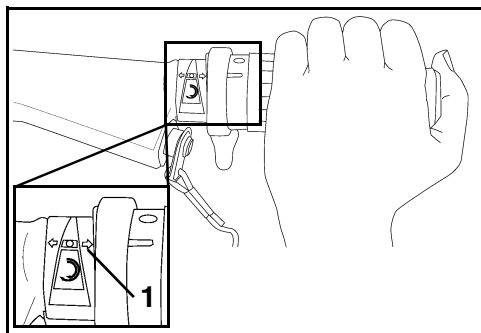
1. Starter handle
2. NEUTRAL

WARNING

Always shift to NEUTRAL before starting the outboard to prevent sudden boat movement, which can cause injury.

If your outboard does not react normally to this starting procedure or if it fails to start, refer to **Troubleshooting** on page 33.

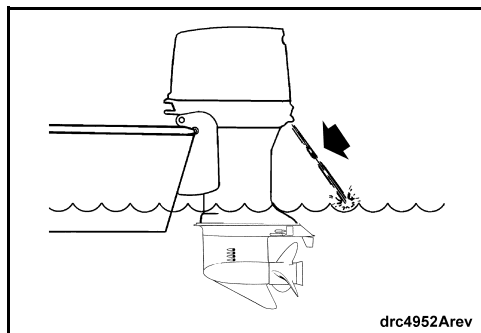
Twist throttle grip to SHIFT or slower.



1. SHIFT

After Engine Starts

Check the water pump indicator. A steady stream of water indicates the water pump is working. If a steady stream of water from the water pump indicator is not visible, stop the engine. Refer to **Engine Overheating** on page 21.



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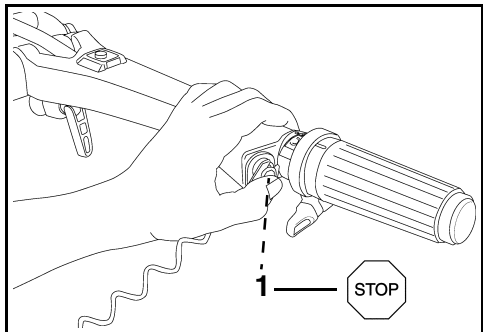
DO NOT advance the throttle before start-up. Advancing the throttle overrides the electronic idle control system. After the engine starts, the engine management module (EMM) automatically increases idle speed slightly. Idle speed will decrease as the engine warms up. If the outboard is started at wide open throttle, twist the throttle grip back to SHIFT before shifting.

ENGINE STOPPING

Twist the throttle grip to SHIFT position or slower.

Move shift lever to NEUTRAL.

Press the STOP button until the outboard stops running. If equipped, close the vent screw on the fuel tank's filler cap.



1. STOP button

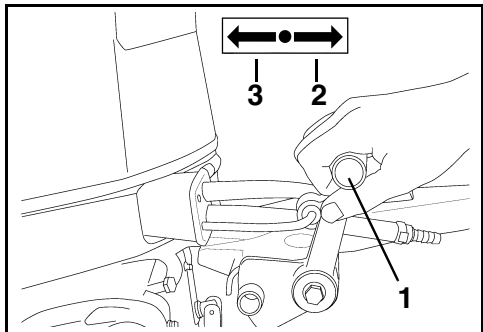
SHIFTING AND SPEED CONTROL

IMPORTANT: Carefully check the function of all control and engine systems before leaving the dock. **DO NOT** shift the outboard into FORWARD or REVERSE while it is shut OFF.

Shifting

With engine running, twist the throttle grip to SHIFT or slower.

Move the shift lever briskly and decisively to FORWARD or REVERSE.



1. Shift lever
2. FORWARD
3. REVERSE



WARNING



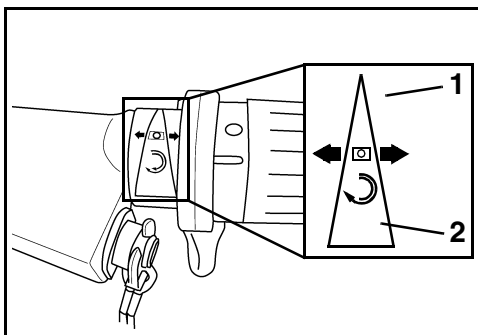
Do not operate the outboard in REVERSE with the tilt/run lever in TILT. The outboard may tilt out of the water, resulting in loss of control.

IMPORTANT: When shifting from FORWARD to REVERSE or from REVERSE to FORWARD, pause at NEUTRAL until the engine is at idle speed and the boat has slowed.

Speed Control

With the outboard running, twist throttle grip:

- Clockwise to decrease speed; or
- Counterclockwise to increase speed.



1. Decrease speed
2. Increase speed

FUEL SYSTEM PRIMING



If the outboard is run out of fuel, refill the fuel tank and squeeze the primer bulb until firm. Prime the electric fuel pump by first removing the emergency stop switch clip and then pulling the rope at least two times. This will cause the fuel pump to fill the injectors. Replace the emergency stop switch clip and follow the normal starting procedure.

FUEL ECONOMY

The economy throttle position can save fuel, depending on boat load and hull design. When boat reaches top speed, throttle back from FULL SPEED. You will save fuel with a minimal loss of speed.

OIL AND FUEL

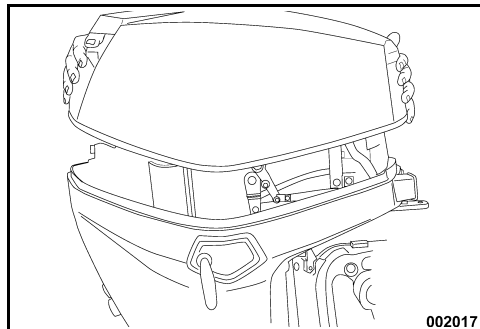
OILING SYSTEM



Your outboard is designed to run in “get home” mode in the event your oil tank runs low. You will have approximately five hours of normal operation before running out of oil when using TC-W3RL oil. If you are using *Evinrude/Johnson XD100™* oil, you have approximately ten hours of normal operation remaining. Refill the onboard oil tank as soon as possible.

IMPORTANT: Always “top off” your oil tank prior to prolonged usage or long trips.

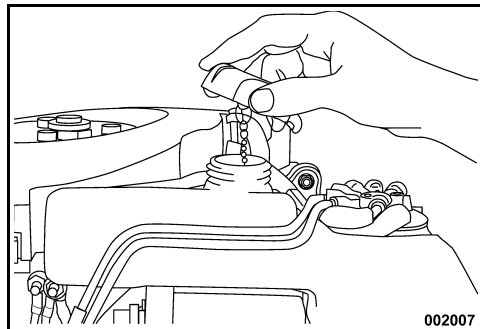
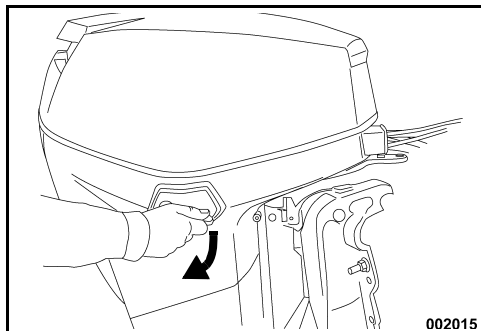
Remove the engine cover to access the oil tank.



FILLING THE OIL TANK

Release the port and starboard engine cover latches by turning each handle downward.

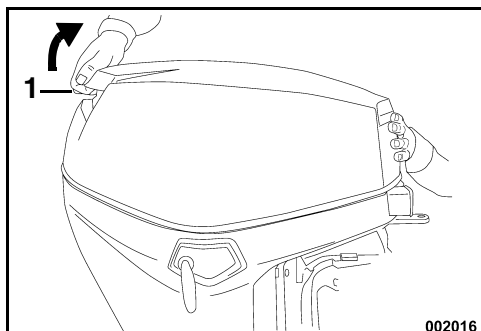
Remove the filler cap and fill the tank with the recommended outboard lubricant, as specified in **Oil Requirements** on page 16.



Pull up on the tilt handle to release the engine cover seal on the engine cover.

Replace the filler cap and tighten securely. Reinstall the engine cover.

IMPORTANT: The oil tank capacity is 2.5 quarts (2.4 liters).



1. Tilt handle

OIL REQUIREMENTS



The following outboard oils are recommended for use in your *Evinrude E-TEC* outboard:

- *Evinrude/Johnson* XD100;
- *Evinrude/Johnson* XD50™; or
- *Evinrude/Johnson* XD30™.

Evinrude/Johnson brand oils are formulated to give best engine performance while controlling piston and combustion chamber deposits, providing superior lubrication, and ensuring maximum spark plug life.

***Evinrude/Johnson* XD100 oil is preferred for your *Evinrude E-TEC* outboard.** It is formulated with special additives for cleaner burning and lower consumption. This synthetic blend oil also provides superior lubrication and maintains top performance.

For added protection and cost reduction, an authorized dealer can program your *Evinrude E-TEC* outboard *EMM* to cut normal oil consumption in half using *Evinrude/Johnson* XD100 as compared to using a conventional oil. **Only an authorized *Evinrude* dealer can program your outboard for this benefit.**

If *Evinrude/Johnson* brand oils are not available, you must use an oil that meets NMMA TC-W3RL certification standards.

IMPORTANT: If your *EMM* has been programmed for *Evinrude/Johnson* XD100, DO NOT use any other oil unless in an emergency. If *Evinrude/Johnson* XD100 is temporarily unavailable, a **one-time-only use** of an oil that meets NMMA TC-W3RL certification standards is allowed. If you discontinue using *Evinrude/Johnson* XD100, you **MUST** first return to your Dealer to have the *EMM* reprogrammed back to the original factory setting.

IMPORTANT: Failure to follow oil specifications could void the engine warranty if a lubrication-related failure occurs.

FUEL REQUIREMENTS



WARNING



Gasoline is extremely flammable and highly explosive under certain conditions. Follow the instructions in this section explicitly. Improper handling of fuel could result in property damage, serious injury or death.

Leaking fuel is a fire and explosion hazard. All parts in the fuel system should be inspected frequently and replaced if signs of deterioration or leakage are found. Inspect the fuel system each time you refuel, each time you remove the engine cover and annually.

Follow these instructions to ensure safety when handling fuel:

- Always turn off the engine before fueling.
- Never permit anyone other than an adult to refill the fuel tank.
- Do not fill the fuel tank all the way to the top or fuel may overflow when it expands due to heating by the sun.
- Remove portable fuel tanks from the boat before fueling.
- Always wipe off any fuel spillage.
- Do not smoke, or allow open flames, or sparks or use electrical devices such as cellular phones in the vicinity of a fuel leak or while fueling.
- Always work in a well ventilated area.

IMPORTANT: Always use fresh gasoline. Gasoline will oxidize; the result is loss of octane, volatile compounds, and the production of gum and varnish deposits which can degrade the fuel system.

Minimum Octane

Your outboard is certified to operate on unleaded automotive gasoline with an octane rating equal to or higher than:

- 87 (R+M)/2 AKI — Inside the U.S.
- 90 RON — Outside the U.S.

Using unleaded gasoline that contains methyl tertiary butyl ether (MTBE) is acceptable **ONLY** if the MTBE content does not exceed 15% by volume.

Alcohol Fuels

Your outboard has been designed to operate using the specified fuels; however, be aware of the following:

- The boat's fuel system may have different requirements regarding the use of alcohol fuels. Refer to the boat's owner guide.
- Alcohol attracts and holds moisture that can cause corrosion of metallic parts in the fuel system.
- Alcohol blended fuel may cause engine performance problems.

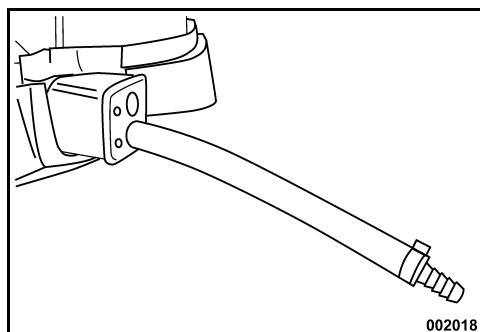
Using alcohol-extended fuels is acceptable **ONLY** if the alcohol content does not exceed:

- 10% ethanol by volume; or
- 5% methanol with 5% cosolvents by volume.

FUEL SYSTEM OPERATION

Connecting the Fuel Hose

- 1) If the fuel hose is disconnected for any reason, seal it to prevent spillage. Cap the fuel fitting to prevent contamination.
- 2) Connect the fuel hose to the 3/8 in. (9 mm) fuel fitting. Fasten hose securely with clamp (18.5 mm) from owner's kit.



1. Fuel hose and fitting – 3/8 in. (9 mm)

| | | |
|--|----------------|---|
| ⚠ | WARNING | ⚠ |
| <p>Store fuel tanks in a well-ventilated area, away from heat and open flame. Prevent escape of liquid or vapors which could accidentally ignite.</p> <p>Close the filler cap vent screw, if equipped.</p> <p>Be sure the disconnected fuel hose does not drip.</p> | | |

IMPORTANT: Fuel distribution hoses in the boat must deliver fuel at the rate of flow needed by the outboard. Minimum inside diameter of fuel hoses must be 3/8 in. (9 mm).

| | | |
|---|----------------|---|
| ⚠ | WARNING | ⚠ |
| <p>The outboard must be correctly installed. Failure to correctly install the outboard could result in property damage, serious injury, or death. We strongly recommend your Dealer install your outboard to ensure proper installation.</p> | | |

Fuel systems with built-in tanks, particularly those that include antisiphon valves and filter/primer units, may have restrictions not allowing the engine fuel pump to deliver sufficient fuel under all conditions. This can result in a loss of performance. If a performance problem exists, see your Dealer.

FUEL ADDITIVES

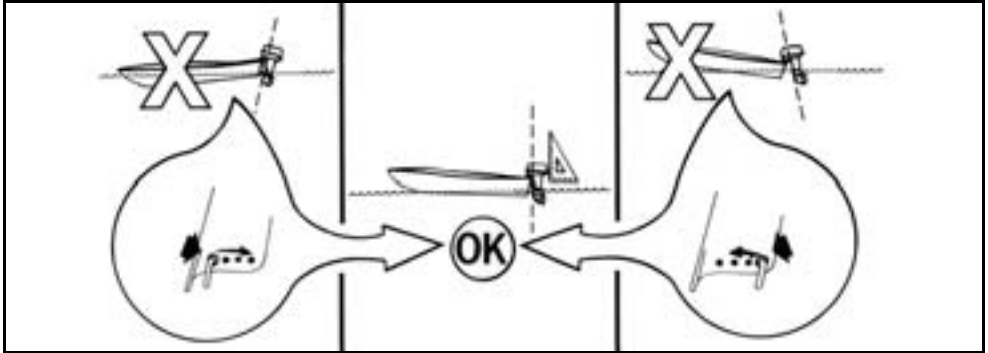
Bombardier approves only *Evinrude 2+4@* fuel conditioner fuel additive for use in your *Evinrude E-TEC* outboard.

Use of other fuel additives can result in poor performance or engine damage.

***Evinrude 2+4* fuel conditioner** will help prevent gum and varnish deposits from forming in fuel system components and will remove moisture from the fuel system.

It should be used during any period when your engine is not being operated on a regular basis. Its use will reduce fuel system icing and fuel deterioration.

OPERATION



WARNING



Boat stability and steering torque can vary due to changing water conditions. If any adverse conditions occur, reduce throttle and/or adjust tilt angle to maintain control. If you experience boat instability and/or high steering torque, see your Dealer to correct these conditions.

If the bow of the boat plows the water at high speeds, the boat may bow steer or spin suddenly, possibly ejecting or otherwise seriously injuring occupants.

TILTING



WARNING



If you tilt the outboard and leave it tilted, close the fuel tank vent screw (turn clockwise) and close the fuel shut-off valve (turn so handle is horizontal). Failure to do so might allow fuel leakage which could lead to an explosion or fire.

IMPORTANT: Use the tilt grip to tilt your outboard.

TRAILERING

Trailer your boat with the outboard in a vertical position. If your trailer does not provide adequate road clearance, the outboard can be trailered by using the tilt support or an accessory trailering bracket. Refer to **Tilt Support** on page 20.

IMPORTANT: Whenever using the tilt support or an accessory trailering bracket, the outboard must be restrained. Bouncing during transport will damage the outboard and boat's transom.

Outboard Angle Adjustment

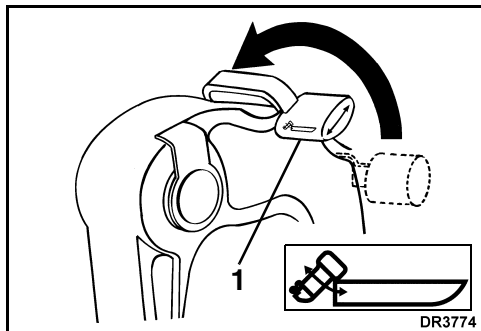
The outboard should be perpendicular to the water when the boat is underway at full speed. This adjustment can only be determined by water testing the boat. Set angle adjustment for your normal load.

Place the outboard in full TILT position. Refer to **Tilt Support** on page 20.

- Turn the angle adjusting rod handle up. Push in against spring so retainer will release, then slide rod assembly all the way out.
- Insert rod in desired position. Make sure rod passes through both stern brackets.
- Push in against spring and turn rod handle down. Make sure the retainer dropped into lock position.

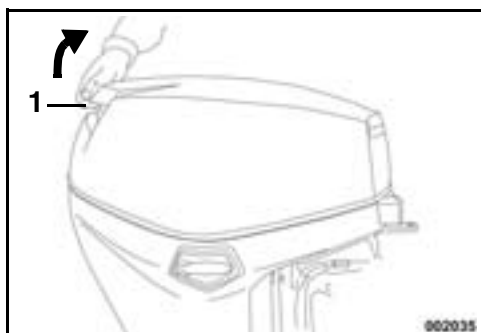
Tilt UP

Move tilt/run lever to TILT position.



1. TILT position

Grasp tilt grip on engine cover and tilt outboard to the full tilt position.

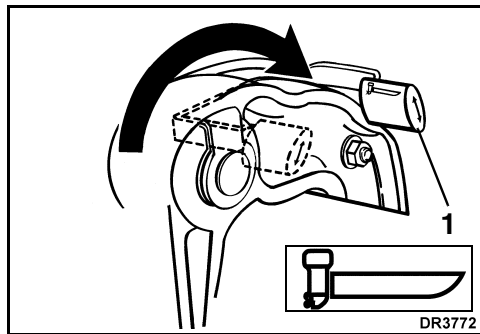


1. Tilt grip

Tilt support will automatically engage.

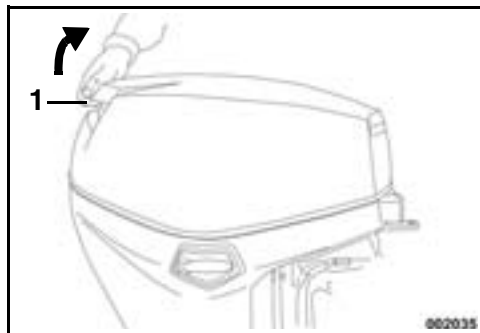
Tilt DOWN

Move tilt/run lever to RUN position.



1. RUN position

Grasp tilt grip on engine cover and raise outboard slightly.



1. Tilt grip

Tilt support will automatically disengage. Slowly lower outboard to its normal operating position.

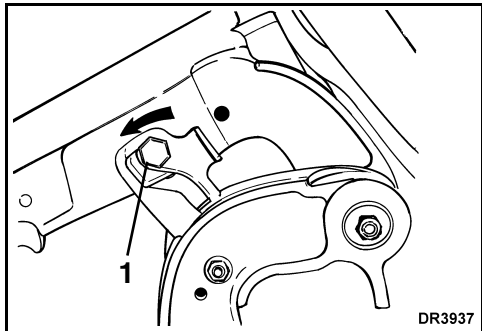
⚠ WARNING ⚠

While outboard is tilted, leave tilt lever in the TILT position. When the tilt/run lever is in the RUN position, tilt support can release unexpectedly and allow outboard to drop, creating a risk of serious personal injury or loss of control.

TILT SUPPORT

Engage

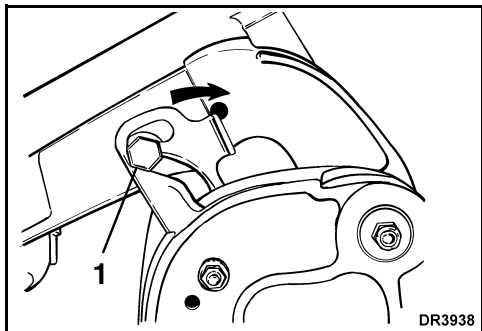
Raise the outboard to full TILT position. Refer to **Tilting** on page 18. After initial engagement of tilt support, tilt outboard fully and push tilt support bracket to “lock” position.



1. Tilt support bracket – lock position

Disengage

Tilt outboard fully and pull tilt support bracket to “unlock” position.



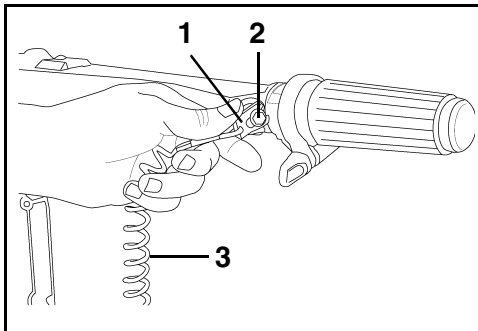
1. Tilt support lever – unlock position

Move tilt/run lever to RUN position and gently lower outboard to RUN position.

EMERGENCY STOP SWITCH

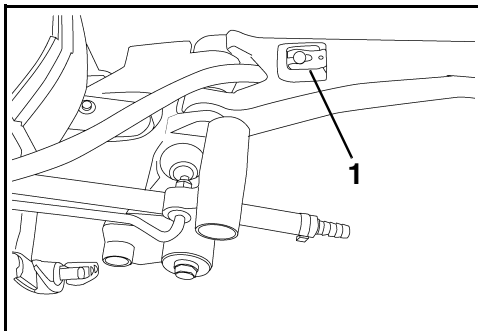
The emergency stop switch is on the steering handle. Use of the emergency stop feature is highly recommended on all boats.

Connect the clip to the emergency stop switch. Snap the lanyard to a **secure** place on the operator’s clothing or life vest — not where it might tear away instead of activating the stop switch. Disconnecting the clip and lanyard will stop the engine and prevent the boat from becoming a runaway if the driver moves beyond the range of the lanyard. If the lanyard is too long, it can be shortened by knotting or looping it. **DO NOT** cut and retie the lanyard.



1. Clip
2. Emergency stop clip / key switch
3. Lanyard

An extra clip is provided. Another person can insert it in the stop switch and start the outboard in an emergency.



1. Extra clip

**WARNING**

Always use the safety lanyard when operating your boat to help prevent a runaway boat and reduce the risk of personal injury or death.

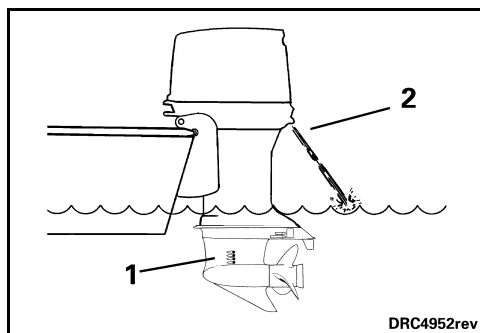
Avoid knocking or pulling the clip off the stop switch during normal boating. The resulting unexpected loss of forward motion can throw occupants forward, causing injury.

Your emergency stop switch can be effective only when in good working condition. At each outing, inspect clip and lanyard for cuts, breaks, or wear. Replace worn or damaged parts. Keep the lanyard free from obstructions and entanglements. At each outing, test the system's operation. With the engine running, remove the clip from the switch by pulling the lanyard. If the engine does not stop running, see your Dealer.

ENGINE OVERHEATING

IMPORTANT: Do not run your outboard—even for a brief start-up—without supplying water to it. Refer to **Flushing** on page 30.

While boating, the outboard's water intakes must stay completely submerged and unobstructed. Observe proper transom height and tilt angle. While the outboard is running, the outboard's water pump indicator must discharge a steady stream of water. Check the indicator often, especially when operating in weeds, muddy and debris-laden water, and at extreme trim angles.



DRC4952rev

1. Water intake screens
2. Water pump indicator

If the engine overheats, the *S.A.F.E.* (Speed Adjusting Failsafe Electronics) mode will immediately limit the engine's speed to 1200 RPM. If the engine was running faster than 1200 RPM when the *S.A.F.E.* mode activated, it will shake noticeably. The protection system must be **RESET** before the engine will operate at speeds over 1200 RPM. Under certain conditions the *EMM* will shut off the engine.



To **RESET** the system:

- The engine must be shut off and the cooling temperature restored.

IF the *S.A.F.E.* mode activates and the stream from the water pump indicator becomes intermittent or stops, reduce speed to idle and:

- 1) Shift to NEUTRAL.
- 2) SHUT OFF the engine.
- 3) Tilt the outboard up.
- 4) Clean the intake screens of any blockage.
- 5) Clean the water pump indicator of any blockage.
- 6) Lower the outboard.
- 7) Restart the engine and run at idle.

IF cleaning the screens and indicator *does not* restore the water pump indicator's steady discharge, the engine will operate only in "get home" mode. Return to harbor immediately. See your Dealer.

IF cleaning the screens and indicator *does* restore the water pump indicator's steady discharge, you might have to run for two minutes in NEUTRAL to allow the engine to cool.

IMPORTANT: If cooling is not restored, the *EMM* will identify a progressive overheating condition and shut off the engine. The engine will not restart until the engine is allowed to cool.

After any overheat causing engine shutdown, see your Dealer for:

- Inspection of the water pump for excessive wear or damage.
- Inspection of the thermostats.

IMPORTANT: Although the *S.A.F.E.* mode can help prevent engine damage, it does not guarantee you can run your engine indefinitely without engine damage.

IMPACT DAMAGE

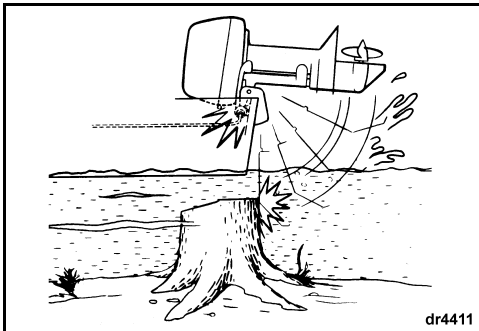
Your outboard has a shock absorption system designed to help withstand damage from impact with underwater objects at low to moderate speeds.

High speed impacts with rigid underwater objects like pilings or boulders can be beyond the capability of the absorption system.

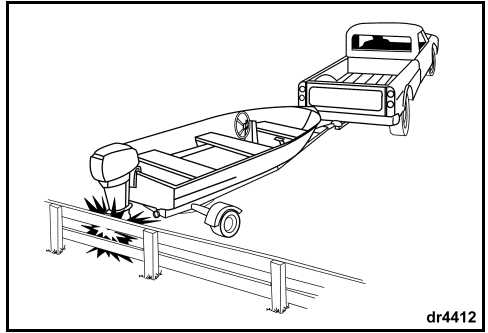
Such impacts can result in serious damage to your outboard and injury to boat occupants from the outboard or its parts entering the boat. Occupants can also be ejected or injured by falling against portions of the boat as a result of rapid deceleration following impacts.

When boating in unfamiliar, shallow, or debris-laden waters, seek information on safe boating areas and navigation hazards from a reliable local source.

Reduce your speed and keep a sharp lookout!



The outboard's shock absorption system does not work while operating in reverse. If you back into an object, either in the water or while trailering, your boat and outboard can be seriously damaged.



If you hit any object:

- STOP immediately and examine the outboard for loosening of attaching hardware.
- INSPECT for damage to swivel and stern brackets, and steering components.
- EXAMINE the boat for structural damage.
- TIGHTEN any loosened hardware.

If the collision occurred in the water, proceed slowly to harbor. Before boating again, have your Dealer thoroughly inspect all components.



WARNING



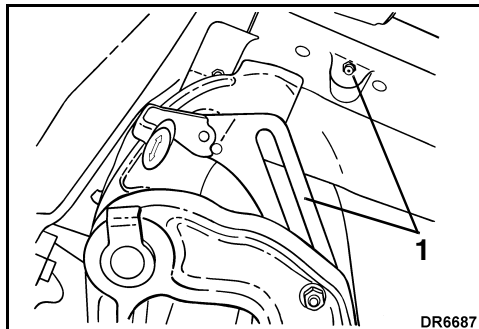
Failure to inspect for damage after an accident or striking an object could result in sudden, unexpected component failure, loss of boat control, and personal injury. Unrepaired damage could reduce your boat and outboard's ability to resist future impacts.

SALT WATER

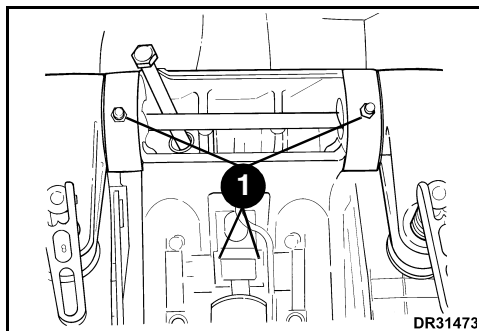
Additional anodic protection for the outboard has been provided for use in salt or brackish water.

Upon removal from salt water, leave outboard in a vertical position until its cooling system has drained. During long periods of mooring, tilt the gearcase out of the water, except in freezing temperatures. Flush the outboard, if desired. Refer to **Flushing** on page 30.

Salt Water Lubrication Points



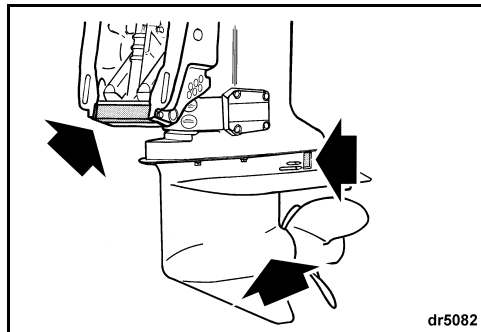
1. Tilt lever, tilt lever shaft, and swivel bracket lubrication points (annually)



1. Tilt tube lubrication points (annually)

Anti-Corrosion Anodes

Your outboard is equipped with one or more anodes that protect it from galvanic corrosion. Disintegration of the anode is normal and indicates it is working. Check each anode periodically. Replace anodes smaller than 2/3 their original size. See your Dealer for replacements.



Galvanic corrosion destroys underwater metal parts and can occur in fresh or salt water; however, salt, brackish, and polluted waters will accelerate corrosion.

Metal-based antifouling paint on the boat or outboard and the use of improperly installed shore power in the area of your moored boat will also accelerate corrosion.

IMPORTANT: NEVER paint the anode, its fasteners, or its mounting surface. Painting will reduce its corrosion protection.

WEEDY WATER

Weeds block water intakes and may cause your outboard to overheat. Weeds on the propeller create vibration and reduce boat speed.

When operating in weedy water, run at slow speeds and in REVERSE frequently to clear weeds from the propeller and water intakes. Check the water pump indicator often.

If REVERSE operation does not clear away weeds, SHUT OFF the engine. Remove weeds from propeller area and water intakes before operating at higher speed.

HIGH ALTITUDE

Your outboard's *EMM* will automatically compensate for changes in altitude. However, if you boat above 3000 ft. (900 m), you will experience a slight loss of power due to reduced air density.

If your engine drops below the recommended RPM operating range at full throttle, have your Dealer select a lower pitch propeller.

If you return to sea level, have your Dealer install the original propeller and verify correct RPM operating range.

FREEZING WEATHER

IMPORTANT: Use *Evinrude/Johnson* XD100 oil when operating your *Evinrude E-TEC* outboard in freezing weather. Refer to **Oil Requirements** on page 16.

During operation in freezing weather, keep the gearcase submerged at all times.

Upon removing your outboard from the water, leave it in a vertical position until its cooling system is drained.

IMPORTANT: Store the outboard vertically. Water remaining in the gearcase, cooling system or other components can freeze, causing serious engine damage.

IMPORTANT: If your outboard's gearcase is equipped with an integral speedometer pick-up, all water must be cleared from the hose to prevent gearcase damage. Refer to **Storage** on page 30.

SHALLOW WATER

IMPORTANT: Gearcase damage can occur if the gearcase is allowed to drag on the waterway bottom.

UNDER TOW

Should you require a tow from another boat:

- Shift your engine to **NEUTRAL**;
- Tilt its gearcase out of the water;
- Off-load all persons into another boat; and
- Keep speed slower than planing speed.

FUSE



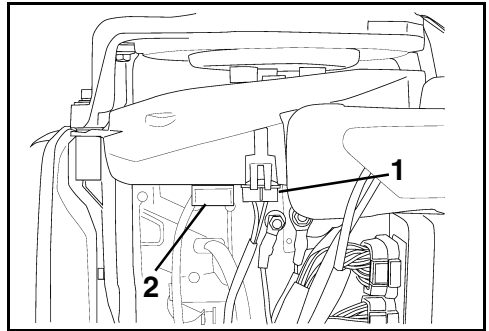
On outboards equipped with an accessory electric starter, a blown fuse will not allow the engine to start. Replace it with a fuse of the same rating. A spare fuse is provided.

Repeated fuse failures indicate a potentially serious problem. Do not replace it with higher rated fuse; see your Dealer for service.

Fuse Replacement

IMPORTANT: Use only fuses of the same rating. Your *Evinrude E-TEC* outboard uses 10-amp fuses.

Remove engine cover. Install spare fuse in place of failed fuse.



1. Fuse
2. Spare fuse

IMPORTANT: Failure to install cover securely may cause electrical problems.

ROUTINE INSPECTION CHECKLIST

Common Sense Pre-launch Checks (Each Use)

- Check fuel level.
- Check oil level.
- Check function of steering handle, throttle, shift, and emergency stop circuit and lanyard.
- Check condition of propeller.
- Confirm the cooling system is operational (water intake screens and water pump indicator).
- Confirm this Operator's Guide is onboard and readily accessible.

Periodic

- Check condition of anti-corrosion anodes (annually or every 100 hours).
- Check for debris on propeller.
- Clean and wax upper and lower engine covers (annually or every 100 hours).
- In salt water applications, check lubrication points and corrosion protection. Use *Evinrude* anti-corrosion spray or *Evinrude* "6 in 1" multi-purpose lubricant (annually or 100 hours).

BOMBARDIER
RECREATIONAL PRODUCTS



MAINTENANCE

ENGINE EMISSIONS INFORMATION

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any marine SI (spark ignition) engine repair establishments or individual.

Manufacturer's Responsibility

Beginning with 1999 model year outboards, manufacturers of marine engines must determine the exhaust emission levels for each engine horsepower family and certify these outboards with the United States of America Environmental Protection Agency (EPA). An emissions control information label, showing emission levels and engine specifications, must be placed on each outboard at the time of manufacture.

Dealer's Responsibility

When performing service on all 1999 and more recent *Evinrude* outboards that carry an emissions control information label, adjustments must be kept within published factory specifications.

Replacement or repair of any emission related component must be executed in a manner that maintains emission levels within the prescribed certification standards.

Dealers are not to modify the outboard in any manner that would alter the horsepower or allow emission levels to exceed their predetermined factory specifications.

Exceptions include manufacturer's prescribed changes, such as altitude adjustments, for example.

Owner Responsibility

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

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

Tampering with the fuel system to change horsepower or modify emission levels beyond factory settings or specifications will void the product warranty.

EPA Emission Regulations

All new 1999 and more recent *Evinrude* outboards manufactured by Bombardier are certified to the EPA as conforming to the requirements of the regulations for the control of air pollution from new watercraft marine spark ignition engines. 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, whenever practicable, returned to the original intent of the design. The responsibilities listed above are general and in no way a complete listing of the rules and regulations pertaining to the EPA requirements on exhaust emissions for marine products. For more detailed information on this subject, you may contact the following locations:

VIA U.S. POSTAL SERVICE:

Office of Mobile Sources
Engine Programs and Compliance Division
Engine Compliance Programs
Group (6403J)
401 M St. NW
Washington, DC 20460

VIA EXPRESS or COURIER MAIL:

Office of Mobile Sources
Engine Programs and Compliance Division
Engine Compliance Programs
Group (6403J)
501 3rd St. NW
Washington, DC 20001

EPA INTERNET WEB SITE:

www.epa.gov

MAINTENANCE SCHEDULE

Routine maintenance is necessary for all mechanized products. Periodic maintenance contributes to the product's life span. The following maintenance chart provides guidelines for outboard maintenance and inspection scheduled to be performed by an authorized Dealer. The schedule should be adjusted according to operating conditions and use.

The recommended lubricants have been formulated to protect bearings, gears and engine components. They must be used to avoid damage caused by improper lubrication.

| Description | Engine Care Product | Every 300 Hours or Three Years ⁽¹⁾ |
|---|---------------------|---|
| Electrical and ignition wires, inspect for wear or chafing | | ✓ |
| Engine to transom mounting hardware, re-torque (40 ft. lbs.) | | ✓ |
| Fasteners, inspect any loosened components | | ✓ |
| Fuel and oil system components, inspect and repair leaks ⁽²⁾ | | ✓ |
| Fuel filter, replace | | ✓ |
| Gearcase lubricant, replace | A | ✓ |
| Grease fittings, lubricate ⁽³⁾ | | ✓ |
| Muffler foam, inspect and replace if necessary | | ✓ |
| Propeller shaft splines, inspect and lubricate ⁽³⁾ | B | ✓ |
| Spark plugs, inspect and replace if necessary ⁽²⁾ | | ✓ |
| Steering handle, inspect and lubricate | B | ✓ |
| Thermostats, inspect ⁽²⁾ | | ✓ |
| Throttle cable, inspect and re-tension | | ✓ |
| Water pump, inspect or replace if necessary | | ✓ |

(1) When used in normal recreational use. Common sense dictates when using an *Evinrude E-TEC* outboard for commercial or other heavy use that you check these items more frequently (annual checks are recommended).

(2) Emission-related component

(3) Annually in salt water applications – Refer to **Salt Water Lubrication Points** on page 23

A. *Ultra-HPF* gearcase lubricant

B. *Triple Guard* grease

STORAGE

**DANGER**

DO NOT run the engine indoors or without adequate ventilation or permit exhaust fumes to accumulate in confined areas. Engine exhaust contains carbon monoxide which, if inhaled, can cause serious brain damage or death.

You must protect against natural environmental conditions that can be damaging to an outboard. Temperature and humidity changes while your outboard is not in use can cause corrosion of internal engine parts when they are not protected. Fuel remaining in your fuel tank can oxidize which can result in loss of octane and can cause gum deposits in the fuel system. Your warranty does not cover engine failure caused by these conditions.

**WARNING**

Prevent injury from moving engine components. Before starting the outboard:

- Shift it to **NEUTRAL**.
- Keep hands, clothes, and hair clear of powerhead.
- Remove the propeller.

Store fuel tanks in a well-ventilated area, away from heat and open flame. Prevent escape of liquid or vapors which could accidentally ignite:

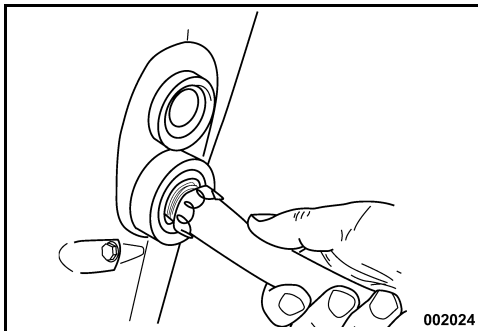
Close the filler cap vent screw, if equipped.

Be sure the disconnected fuel hose does not drip.

FLUSHING

If desired, the outboard can be flushed after each use on a trailer or at dockside while it is vertical.

- 1) Place the outboard in an area with good drainage.
- 2) Connect garden hose to flushing port.
- 3) Turn on the water. It is **not** necessary to run the engine for a good flushing.



- 4) Leave the outboard in vertical position long enough to completely drain the powerhead.

IMPORTANT: If you cannot store the outboard in the recommended vertical position, be sure the cooling system is drained completely. Never place the gearcase higher than the powerhead. Any water remaining in the exhaust passages can run into the cylinders and cause serious damage.

SHORT-TERM (BETWEEN USES)

If you must tilt the outboard to remove it from the water, lower it and allow the cooling system to drain completely as soon as you clear the launch area.

Between uses, store your outboard in a vertical position.

LONG-TERM (WINTERIZATION)**WARNING**

Outboard must be in NEUTRAL and the propeller removed before performing winterization. Failure to remove propeller or starting outboard in gear can cause personal injury or death.



You can winterize your outboard in the water. If you do so, do not remove the propeller and make sure the water intake screens are completely submerged. Do not start the outboard again after winterization is completed.

Prepare your outboard for the off-season by closely following these steps.

- 1) Remove the propeller (if winterizing on a trailer). Throttle **must** be in NEUTRAL.
- 2) Following bottle directions, add 2+4 fuel conditioner to fuel tank and fill it with fuel.
- 3) Attach garden hose to flushing port and turn on water (if winterizing on a trailer).
- 4) Advance throttle to 1/2 throttle position and start the outboard.
- 5) After approximately 15 seconds, move throttle to IDLE position. Run the outboard at idle for another 15 seconds, then advance throttle again to 1/2 throttle position.
- 6) Outboard will automatically go to fast idle and fog itself. Allow outboard to run until it shuts OFF (about one minute).
- 7) After the outboard shuts itself off, turn off water and detach garden hose (if used).
- 8) Remove engine cover. Top off oil reservoir and inspect the fuel filter. If there is debris in the fuel filter, it must be replaced. See your Dealer. Reinstall engine cover.
- 9) Grease propeller shaft splines with recommended lubricant, then install propeller.

IMPORTANT: When finished, leave the outboard in vertical position long enough to completely drain the powerhead.

When using this winterization fogging procedure, engine oil may appear on the skeg below the gearcase area. **This is normal.**

Avoid potential oil stains by placing a shop towel or suitable container under the propeller and skeg for the duration of the storage.

PRE-SEASON CHECK

Remove your outboard from storage and prepare it for a season of reliable service by performing a general check and a few preventive maintenance procedures.

Examine all loosened or removed hardware. Replace damaged or missing parts with *Evinrude/Johnson Genuine Parts* or equivalent. Check the gearcase for leakage. If leakage is evident, the gearcase seals should be replaced. See your Dealer.

IMPORTANT: Gearcase lubricant is **thick and clear**. Do not confuse this with engine oil, which may normally appear on the skeg after performing the long-term (winterization) storage procedure.

Anticorrosion anodes — Check condition. Refer to **Anti-Corrosion Anodes** on page 23.

IMPORTANT: Do not run your outboard—even for a brief start-up—without supplying water to it. Refer to **Flushing** on page 30.

Following **Starting, Stopping, Shifting** on page 12, start the outboard. If the outboard was auto-winterized, it will emit a puff of smoke on the first start of the season. Let it idle while you:

Observe running quality. If poor, refer to **Troubleshooting** on page 33 or see your Dealer.

Confirm water pump operation. Water must flow from the water pump indicator in a steady stream. If it does not, shut off the outboard and investigate. Refer to **Engine Overheating** on page 21.

Stop the outboard and check the fuel system for leaks.

**WARNING**

Failure to check for fuel leakage could allow a leak to go undetected, resulting in fire or explosion.

OUTBOARD EXTERNAL FINISH



Your outboard's upper and lower engine covers use molded-in color technology, providing a deep, durable gloss with maximum ultraviolet (sunlight) protection.

The high gloss finish will show polish marks when viewed closely in certain light conditions. This glossing is NORMAL.

Periodically, wash the entire boat and outboard with soapy water and apply a coat of automotive wax. Leave the engine cover in place when washing the outboard.

IMPORTANT: When trailering your outboard, DO NOT cover the engine with canvas—it will dull the finish of the outboard's engine covers.

SCRATCH REPAIR



Surface scratches on the upper and lower engine covers can be polished out with buffing compound.

Treat affected areas using these steps:

- 1) Sand the affected area with 800-grit sandpaper.
- 2) Wet sand the area with 1200-grit sandpaper.
- 3) Using a composite material buffing compound, polish the area, closely following the product directions.

IMPORTANT: Your Dealer has the professional materials to properly repair scratches. Do not attempt to paint over marks or scratches in the composite material. See your Dealer to repair any deep scratches or gouges.

HULL FINISH

The condition of your boat's bottom affects performance. Marine growth or bottom painting may reduce speed and fuel efficiency.

For maximum performance, keep the boat's running surface clean by rinsing it with fresh water and wiping it dry. Apply *Evinrude* anti-corrosion spray to any surface subject to corrosion, but avoid the anti-corrosion anode(s).

SPARK PLUGS



WARNING



The ignition system presents a serious shock hazard. The primary circuit operates in excess of 200 volts; the secondary circuit operates in excess of 25,000 volts. Use caution to avoid injury from shock or injury resulting from your reaction to shock. Do not handle primary or secondary ignition components while the engine is cranking or running.

IMPORTANT: The spark plugs should be serviced by an *Evinrude E-TEC* Dealer. Incorrect spark plug maintenance can lead to engine damage.

SUBMERGED OUTBOARD

If your outboard has been under water, **have it serviced immediately upon recovery.** If immediate service is unavailable, resubmerge it in fresh water to avoid prolonged exposure to the atmosphere.

After submersion, all boat and engine electrical, fuel, and oiling systems must be inspected for signs of water intrusion. Your Dealer should perform this service.

TROUBLESHOOTING

| SYMPTOM | POSSIBLE CAUSE |
|--|--|
| Starter motor will not operate | <ul style="list-style-type: none"> • Shift handle not in NEUTRAL. • Fuse blown. |
| Engine will not start | <ul style="list-style-type: none"> • Not following starting instructions. Refer to Starting, Stopping, Shifting on page 12. • Fuel tank empty. • Fuel hose kinked. • Fuel system contaminated with water or dirt. • Fuel system not primed after running out of fuel. Refer to Fuel System Priming on page 14. • Fuel filter obstructed. • Throttle not at IDLE. Return throttle to IDLE. • Spark plugs incorrect. Refer to Specifications on page 39. • Spark plugs improperly gapped, carboned, burned, or wet. • Fuse blown. |
| Engine will not idle properly | <ul style="list-style-type: none"> • Debris on propeller. • Spark plugs damaged or incorrect. Refer to Specifications on page 39. • Fuel system contaminated with water or dirt. |
| Engine loses power | <ul style="list-style-type: none"> • Spark plugs damaged or incorrect. Refer to Specifications on page 39. • Fuel filter obstructed. • Fuel system contaminated with water or dirt. • Water intakes obstructed and cooling system not operating correctly. Refer to Engine Overheating on page 21. • Oiling system malfunction. • <i>S.A.F.E.</i> protection mode activated. Refer to Engine Overheating on page 21. |
| Engine runs, but makes little or no progress | <ul style="list-style-type: none"> • Propeller hub loose, slipping. • Propeller blades bent or missing. • Propeller shaft bent. • Propeller debris. |
| Warning system activates | <ul style="list-style-type: none"> • Refer to Engine Overheating on page 21. |

PRODUCT INFORMATION

INSTALLATION



WARNING



Your outboard must not exceed the maximum horsepower indicated on the boat's capacity plate. Such overpowering can cause loss of control. Contact your Dealer or the boat's manufacturer if your boat lacks a capacity plate.

Boats designed for remote-steered outboards might be overpowered by a tiller-steered outboard of the maximum rated horsepower. Ask your Dealer or boat manufacturer if you are unsure about your boat's suitability.

Incorrectly matched boat and outboard transom heights can cause boat instability and loss of control. Refer to Transom Height and Shaft Length.

Prevent lateral movement and possible outboard loss by using the mounting hardware supplied or hardware of sufficient size, strength, and quality. Refer to Installing the Outboard on page 36.

A mounting surface that is damaged or too thin to support your outboard while underway might fail during operation, causing a loss of control. Be sure the boat's transom or mounting bracket is structurally sound and between 1 5/8 in. (41 mm) and 2 3/4 in. (70 mm) in thickness.

IMPORTANT: If you need a hoist to lift the engine, first refer to **Specifications** on page 39 for engine weight and choose a hoist accordingly.

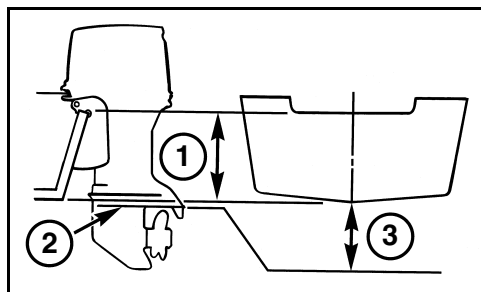
If you install and operate the engine:

- Lower than recommended — Serious powerhead damage could result from water entry into the lower engine cover or overloading from an under-revving propeller at wide open throttle.
- Higher than recommended — Serious powerhead damage could result from inadequate cooling or an over-revving propeller. Propeller ventilation (slippage) often occurs, resulting in poor boat performance.

On a specialty hull, non-planing hull, or on a boat with a curved transom, these guidelines might not apply. See your Dealer for special installation information.

Transom Height and Shaft Length

The transom height dimension listed in **Specifications** on page 39 is the height of the boat transom your outboard needs. This dimension is measured at the transom centerline, perpendicular to the bottom of the boat. Use this procedure to determine whether or not the boat's transom height is correct for the outboard's shaft length.



1. Transom height
2. Antiventilation plate
3. Final position – 0 to 2 in. (0 to 51 mm)

Refer to **Outboard Angle Adjustment** on page 18. The antiventilation plate must be parallel with the boat bottom.

The resulting position of the antiventilation plate must be no higher than the boat's bottom and no lower than 2 in. (51 mm) below it.

If the resulting position of the antiventilation plate is above or below the 0 to 2 in. (0 to 51 mm) range, the outboard shaft length must be changed **or** the boat's transom must be modified.

Vent Line Clamp

In compliance with Federal regulations, this outboard was shipped with a vent line clamp installed. This clamp must be removed prior to attempting to prime the fuel system or start the outboard for the first time.

IMPORTANT: Failure to remove the clamp may cause fuel starvation issues and undesirable running qualities.

Installing the Outboard



WARNING



The outboard must be correctly installed. Failure to correctly install the outboard could result in serious injury, death or property damage. We strongly recommend that your Dealer install your outboard to ensure proper installation.

IMPORTANT: Follow all directions carefully. The outboard's warranty will not cover product damage or failure that results from incorrect outboard installation.

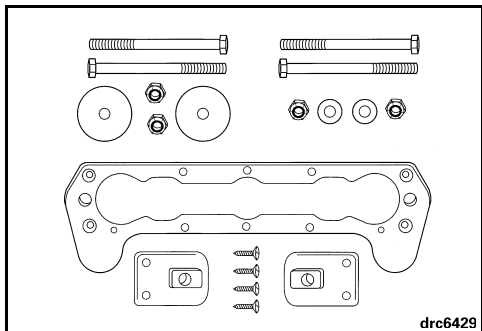


WARNING



Even if equipped with clamp screws, your outboard must be bolted to the boat to prevent it from "working off the transom" during operation.

Use *Evinrude/Johnson Genuine Parts* mounting hardware to ensure proper installation. Instructions are packed with the mounting kit and are repeated here.

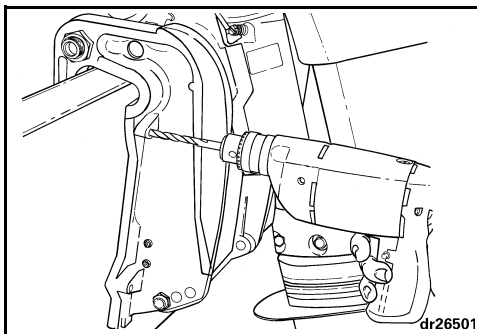


drc6429

Mounting hardware

Center the outboard on the boat's transom and over the transom plate if one is used. Tighten the clamp screws **by hand only**.

Drill two 11/32 in. (8,7 mm) holes through the boat's transom on each side of the outboard using the stern bracket holes as guides.

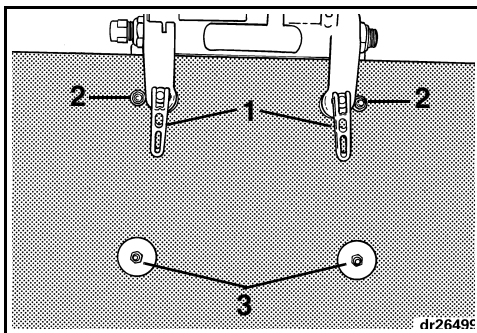


dr26501

1. Drilled transom holes

Apply a good waterproof caulk to bolt shanks. Insert the bolts through the stern bracket and transom. Loosen clamp screws and apply caulk on and around bolts between stern brackets and transom to keep water out of the drilled holes.

Retighten clamp screws. Install the large washers and two of the locknuts on the bottom bolts. Install the small washers and the other two locknuts on the top bolts. Tighten all nuts securely.



dr2649c

1. Clamp screws
2. Small washers
3. Large washers

After 30 minutes of operation, retighten clamp screws by hand. **DO NOT** use tools to tighten clamp screws. Check clamp screws regularly.



WARNING

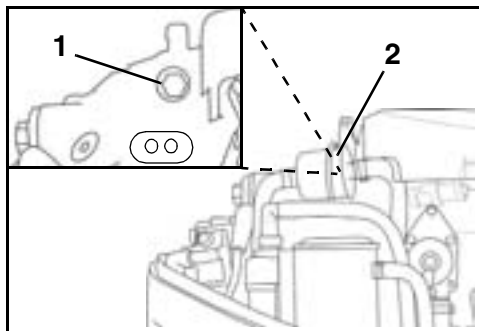


When replacing bolts, screws, or other fasteners, use *Evinrude/Johnson parts* or parts of equivalent strength and material.

ACCESSORIES

WATER PRESSURE

An optional water pressure gauge is recommended to monitor cooling system pressures. Noticing changes in water pressure can help prevent engine overheating. The water pressure gauge must be connected at the correct point to ensure the most accurate pressure readings. Follow the installation instructions included with the water pressure gauge.



1. Water pressure port (behind fuel filter)
2. Fuel filter

PROPELLER

Propeller Selection

⚠ WARNING ⚠

Be alert of people in the water. Always shift the outboard to NEUTRAL and shut off the engine immediately when your boat is in an area where there might be people in the water. Serious injury or death can result from contacting a rotating propeller or moving boat and outboard.

To select the correct propeller for your boating application, your boat and motor **MUST** be water tested. See your Dealer for assistance.

IMPORTANT: The correct propeller for your boat, under normal load conditions, will allow the engine to run near the midpoint of the RPM operating range at full throttle. Refer to **Specifications** on page 39.



WARNING



When servicing the propeller, always shift the outboard to NEUTRAL position, turn the key switch OFF, and twist and remove all spark plug wires so the outboard cannot be started accidentally.

IMPORTANT: Apply *Triple-Guard* grease to the entire propeller shaft before installing the propeller. At least annually, remove the propeller and check for debris. Clean the shaft and regrease it before reinstalling a propeller.

Installation

Slide thrust washer onto shaft with shoulder facing aft.

Slide propeller onto shaft, engaging the splines and seating it on the thrust bushing.

Slide spacer onto the shaft and engage the propeller shaft splines.

Wedge a block of wood between the propeller blade and the anti-ventilation plate.

Install propeller nut and tighten to a torque of 120-144 in. lbs. (13.6-16.3 N·m).

Install keeper on propeller nut, align keeper slots and cotter pin hole.

Install new cotter pin and bend ends to secure.

Remove block of wood. Make sure engine is in NEUTRAL; give propeller a spin. It must turn freely.

Repair

If your propeller hits a solid object, the impact is partially absorbed by the rubber bushing in the hub to help prevent damage to the outboard. A strong impact can damage the hub and propeller blades. Damage to blades can cause unusual and excessive vibration. Damage to the hub can cause excessive engine RPM with little forward movement.

IMPORTANT: Avoid or limit operation using a damaged propeller. Carry a spare propeller.

Keep your propeller in good condition. Use a file to smooth slight damage to blade edges. See your Dealer for repair of serious damage.

ADJUSTMENTS

Trim Tab



WARNING

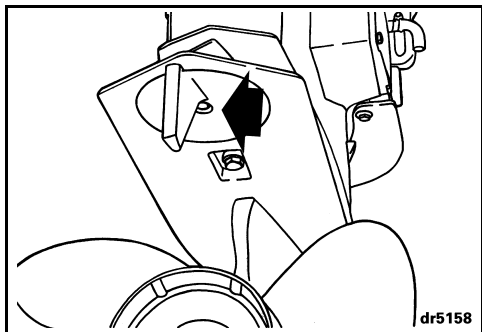


Improper trim tab adjustment can cause difficult steering.

A propeller will generate steering torque when the propeller shaft is not running parallel to the water's surface. The trim tab is adjustable to compensate for this steering torque.

IMPORTANT: A single trim tab adjustment will relieve steering effort under only one set of speed, motor angle and load conditions. No single adjustment can relieve steering effort under all speed, motor angle and load conditions. If the boat pulls to the left or right when its load is evenly distributed, adjust the trim tab as follows:

With the outboard shut OFF, loosen the trim tab screw. If the boat pulled to the right, move the rear of the trim tab slightly to the right. If the boat pulled to the left, move the rear of the trim tab slightly to the left.



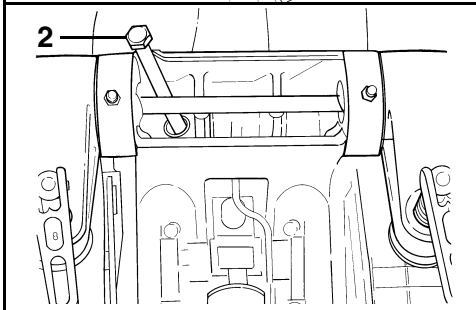
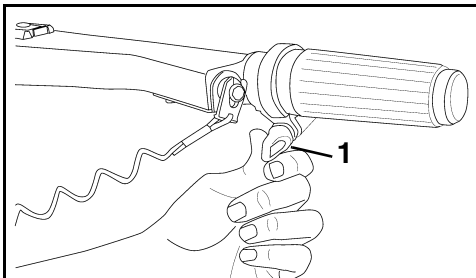
dr5158

Tighten the trim tab screw to a torque of 35-40 ft. lbs. (47-54 N·m).

Test the boat and, if needed, repeat the procedure until steering effort is as equal as possible.

High motor installations — The trim tab might be above the water when the outboard is trimmed out. Steering effort might increase. Steering effort will be reduced if you trim the outboard in and submerge the trim tab.

Friction



1. Throttle friction screw
2. Steering friction screw

Throttle Friction — Adjust until a slight drag is felt when accelerating or decelerating only. **DO NOT** overtighten.

Steering Friction — The steering friction was set on your outboard at the factory. A slight drag should be felt when turning the outboard with the steering handle. If adjustment is necessary, turn the adjustment screw:

- Clockwise to increase friction; or
- Counterclockwise to decrease friction.



WARNING



DO NOT overtighten for “hands-off” steering. **Reduced steering control could result.**

SPECIFICATIONS

| 40 Models | |
|---|--|
| Displacement | 52.7 cu. in. (864 cc) |
| Engine Type | In-line, 2 Cylinder, Two-Cycle, <i>Evinrude E-TEC</i> |
| Full Throttle Operating Range | 5000 to 6000 RPM |
| Power ⁽¹⁾ | 40 HP (29.8 kw) @ 5500 RPM |
| Idle RPM in Gear ⁽²⁾ | 850 ± 50 |
| Idle RPM in Neutral ⁽²⁾ | 750 ± 50 |
| Ignition Timing ⁽²⁾ | Not Adjustable |
| Emission Control System: per SAE J1930 ⁽²⁾ | ECM (Engine Control Module), <i>Evinrude E-TEC</i> |
| Fuel Requirements ⁽²⁾ | 87 Pump Posted AKI (90 RON) – Refer to Oil and Fuel on page 15 |
| Oil – Lubricant – Capacity | TC-W3 NMMA-certified oil or <i>Evinrude/Johnson XD100</i> oil – Refer to Oil and Fuel on page 15 2.2 qt. (2.1 l) |
| Spark Plug ⁽²⁾ | Refer to ECI Label |
| Fuses | Refer to Fuse on page 24 |
| Fuel Filter | In-line Replaceable |
| Gearcase – Lubricant – Capacity | <i>Evinrude Ultra-HPF™</i> 26 fl. oz. (770 ml) |
| Propeller | Refer to Propeller Selection on page 37 |
| Weight | 232 lbs. (105 kg) |
| Sound at Driver's Ear (LpA) ICOMIA 39.94 | 76.8 dB(A) |
| Vibration at Tiller (arms) | Less than 2.5 m/s ² |
| Transom Height | 19 1/2 to 20 in. (495 to 508 mm) |

(1) Rated following the standards of ICOMIA 28.83, ISO 3046 and NMMA.

(2) Emission Control Information.

PRODUCT WARRANTY INFORMATION

BOMBARDIER LIMITED WARRANTY FOR 2004 *EVINRUDE* OUTBOARD ENGINES SOLD IN THE UNITED STATES AND CANADA

1. SCOPE OF THE LIMITED WARRANTY

Bombardier Motor Corporation of America* ("Bombardier") warrants its 2004 *Evinrude*® outboard engines sold by authorized *Evinrude* dealers in the fifty United States and Canada ("Product") from defects in material or workmanship for the period and under the conditions described below.

2. WARRANTY COVERAGE PERIOD

This limited warranty will be in effect from the date of purchase by the first retail consumer or the date the Product is first put to use, whichever occurs first, for a period of:

THIRTY-SIX (36) CONSECUTIVE MONTHS for private, recreational use; or

TWELVE (12) CONSECUTIVE MONTHS for commercial use, except that emission-related components providing input to emission controls (e.g. sensors) are warranted for twenty-four (24) months or two hundred (200) hours of engine use, whichever occurs first. The Product is used commercially when it is used in connection with any work or employment that generates income, during any part of the warranty period. The Product is also used commercially when, at any point during the warranty period, it is installed on a boat that has commercial tags or is licensed for commercial use.

The repair or replacement of parts or the performance of service to Product under this warranty does not extend the life of this limited warranty beyond its original expiration date. All *Evinrude/Johnson® Genuine Parts* and accessories installed by an authorized dealer at the time of sale, including but not limited to propellers, bear the standard Bombardier parts and accessories one-year limited warranty.

California residents who purchased or warranty-registered a Product in California should refer to Bombardier's California Emissions Control Warranty Statement.

3. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only on *Evinrude* outboard engines purchased as new and unused from a dealer authorized to distribute *Evinrude* products in the country in which the sale occurred ("Dealer"), and then only after the Bombardier specified pre-delivery inspection process has been completed and documented by the purchaser and Dealer. Warranty coverage only becomes available upon proper registration of Product by Dealer or owner.

Only the original purchaser and any subsequent owners who reside in the United States and Canada and have purchased Product from a U.S. or Canadian Dealer are eligible for warranty registration and warranty coverage hereunder. Such limitations are necessary in order to allow Bombardier to protect the safety of its products, its consumers, and the general public.

As outlined in the Operator's Guide, timely routine required maintenance must be performed to maintain warranty coverage. Bombardier may require proof of proper maintenance prior to authorizing warranty coverage.

4. WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The registered owner must notify an authorized Dealer within two (2) days of the appearance of a defect. Owner must bring Product, including any defective part therein, to Dealer promptly after the appearance of the defect, and in any event, within the warranty period, and must provide Dealer with reasonable opportunity to repair the defect. The expenses of transporting Product to and from Dealer for warranty service are to be borne by the owner.

If the Product has not previously been registered, the owner may also be required to present proof of purchase to Dealer for warranty repairs. Owner is required to sign the repair/work order prior to the start of the repair in order to validate the warranty repair.

All parts replaced under this warranty become the property of Bombardier.

5. WHAT BOMBARDIER WILL DO

Bombardier's obligations under this warranty are limited to, at its sole discretion, repairing or replacing parts of Product found to be defective in material or workmanship, in the reasonable judgment of Bombardier. Such repair or replacement of parts will be done without charge for parts and labor, at any authorized Dealer. Bombardier's responsibility is limited to making the required repairs or replacements of parts with new or Bombardier-certified re-manufactured parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of Product to owner.

In the event that warranty service is required outside of the fifty United States or Canada, owner will bear responsibility for any additional charges due to local practices and conditions, such as, but not limited to, freight, insurance, taxes, license fees, import duties, and any and all other financial charges, including those levied by governments, states, territories and their respective agencies.

Bombardier reserves the right to improve, modify or change Products from time to time without assuming any obligation to modify Products previously manufactured.

6. EXCLUSIONS — The following are not warranted under any circumstances:

- Replacement of parts due to normal wear and tear;
- Routine maintenance parts and services including but not limited to: maintenance requirements, engine and lower unit oil changes, lubrication, valve and linkage adjustments and replacement of fuses, zinc anodes, thermostats, timing belts, starter motor bushings, trim motor brushes, filters, propellers, propeller bushings and spark plugs;
- Damage caused by improper or lack of installation, maintenance, winterization and/or storage, failure to follow the procedures and recommendations in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, or modification, or use of parts or accessories not manufactured or approved by Bombardier, which in its reasonable judgment, are either incompatible with Product or adversely affect its operation, performance, or durability, or resulting from repairs done by a person that is not an authorized Dealer;
- Damage caused by abuse, misuse, abnormal use, neglect, racing, improper operation or operation of the Product in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damage resulting from external damage, accident, submersion, water ingestion, fire, theft, vandalism or any act of God;
- Operation without proper fuel, oil or lubrication, or with fuels, oils or lubricants which are not suitable for use with the Product (see the Operator's Guide);
- Damage resulting from rust or corrosion;
- Damage caused from cooling system blockage by foreign material;
- Damage resulting from sand or debris in the water pump;
- Cosmetic or paint changes due to exposure to the elements.

This warranty will be **voided in its entirety and rendered null and void** where:

- Product has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or change its intended use, horsepower or emission levels; or
- Product is or has been used for racing at any point, even by a prior owner.

7. LIMITATIONS OF LIABILITY

ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS LIMITED WARRANTY.

ALL INCIDENTAL, CONSEQUENTIAL, DIRECT, INDIRECT OR OTHER DAMAGES OF ANY KIND ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY INCLUDING, BUT NOT LIMITED TO: expense for gasoline, expense for transporting Product to and from Dealer, removal of Product from a boat and reinstallation, mechanic's travel time, in-and-out of water charges, slip or dock fees, trailering or towing, storage, telephone, cell phone, fax or telegram charges, rental of a like or replacement Product or boat during warranty services or down time, taxi, travel, lodging, loss of or damage to personal property, inconvenience, cost of insurance coverage, loan payments, loss of time, loss of income, revenue or profits, or loss of enjoyment or use of Product.

SOME STATES, PROVINCES, OR JURISDICTIONS DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR OTHER EXCLUSIONS IDENTIFIED ABOVE. AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE, OR PROVINCE TO PROVINCE.

No distributor, Dealer or any other person is authorized to make any affirmation, representation or warranty regarding Product other than those contained in this limited warranty and, if made, shall not be enforceable against Bombardier. Bombardier reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the Products sold while this warranty is in effect.

8. TRANSFER

If the ownership of Product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that the former or new owner promptly contacts Bombardier or Dealer and gives the name and address of the new owner.

9. CONSUMER ASSISTANCE

- In the event of a controversy or dispute in connection with this Bombardier limited warranty, Bombardier recommends that you first try to resolve the issue at the dealership level by discussing the issue with Dealer's service manager or owner;
- If further assistance is required, please contact the Bombardier Customer Support Services, 250 Sea Horse Drive, Waukegan, IL 60085, 1-847-689-7090.

BOMBARDIER LIMITED WARRANTY FOR 2004 *EVINRUDE* OUTBOARD ENGINES SOLD OUTSIDE THE UNITED STATES AND CANADA

For a copy of the Limited Warranty, see your Bombardier distributor/dealer authorized to distribute *Evinrude* products in the country in which the sale occurs.

If further assistance is required, please contact Bombardier Customer Support Services, 250 Sea Horse Drive, Waukegan, Illinois, 60085, or the affiliate of Bombardier where the Product was registered for warranty.

* Engines sold in Canada are distributed and serviced by Bombardier Inc.
Limited Warranty Revision 2003

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

Your *Evinrude E-TEC* outboard has a special environmental label required by the California Air Resources Board. The label has one, two, three, or four stars. A hangtag, provided with your outboard, describes the meaning of the star rating system.

The Star Label Means Cleaner Marine Engines



The Symbol for Cleaner Marine Engines:

Cleaner Air and Water

For a healthier lifestyle and environment.

Better Fuel Economy

Burns up to 30 to 40 percent less gas and oil than conventional carbureted two-stroke engines, saving money and resources.

Longer Emission Warranty

Protects consumer for worry free operation.

One Star – Low Emission

The one-star label identifies Personal Watercraft, Outboard, Sterndrive and Inboard engines that meet the Air Resource Board's Personal Watercraft and Outboard marine engine 2001 exhaust emission standards. Engines meeting these standards have 75% lower emissions than conventional carbureted two-stroke engines. These engines are equivalent to the U.S. EPA's 2006 standards for marine engines.

Two Stars – Very Low Emission

The two-star label identifies Personal Watercraft, Outboard, Sterndrive and Inboard engines that meet the Air Resources Board's Personal Watercraft and Outboard marine engine 2004 exhaust emission standards. Engines meeting these standards have 20% lower emissions than One Star – Low Emission engines.

Three Stars – Ultra Low Emission

The three-star label identifies engines that meet the Air Resources Board's Personal Watercraft and Outboard marine engine 2008 exhaust emission standards or the Sterndrive and Inboard marine engine 2003 exhaust emission standards. Engines meeting these standards have 65% lower emissions than One Star – Low Emission engines.

Four Stars – Super Ultra Low Emission

The four-star label identifies engines that meet the Air Resources Board's Sterndrive and Inboard marine engine 2009 exhaust emission standards. Personal Watercraft and Outboard marine engines may also comply with these standards. Engines meeting these standards have 90% lower emission than One Star – Low Emission engines.

For more information: Cleaner Watercraft – Get the Facts
1-800-END-SMOG
www.arb.ca.gov

YOUR EMISSION CONTROL WARRANTY RIGHTS AND OBLIGATION

The California Air Resources Board and Bombardier Motor Corporation of America (“Bombardier”) are pleased to explain the emission control system warranty on your 2004 *Evinrude E-TEC* outboard. In California, new outboard engines must be designed, built, and equipped to meet the State’s stringent anti-smog standards. Bombardier must warrant the emission control system on your outboard for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your outboard.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors, and other emission-related assemblies.

Where a warrantable condition exists, Bombardier will repair your outboard at no cost to you including diagnosis, parts, and labor provided that such work is performed by an authorized Bombardier dealer.

Manufacturer’s Limited Warranty Coverage

This emission limited warranty covers *Evinrude* outboards certified and produced by Bombardier for sale in California, that are originally sold in California to a California resident, or subsequently warranty-registered to a California resident. The Bombardier U.S. and Canada limited warranty conditions for *Evinrude* outboards are still applicable to these models with the necessary modifications.

Select emission control parts of your *Evinrude E-TEC* outboard are warranted from the date of purchase by the first retail consumer or the date the product is first put to use, whichever occurs first, for a period of: 4 years, or for 250 hours of use, whichever occurs first.

However, warranty coverage based on the hourly period is only permitted for outboards equipped with the appropriate hour meters or their equivalent. If any emission-related part on your engine is defective under warranty, the part will be repaired or replaced by Bombardier.

Parts covered are:

| | |
|-------------------------------------|------------------------------------|
| 1. Electrical System | 4. Air Induction System |
| A. EMM (Engine Management Module) | A. Reed Valves |
| B. Spark Plugs and Wires | B. Throttle Body Assembly |
| C. Ignition Coils | C. Intake Manifold |
| D. Wiring Harness | |
| | 5. Oil System |
| 2. Exhaust System | A. Oil Injector |
| A. Inner Exhaust Housing | B. Oil Lines, Fittings, and Clamps |
| B. Adaptor (Exhaust Manifold) | |
| | 6. Sensors |
| 3. Fuel System | A. Air Temperature Sensor |
| A. Fuel Lift Pump | B. Crank Position Sensor |
| B. Fuel Supply Pump | C. Throttle Position Sensor |
| C. Fuel Injectors | D. Water Temperature Sensor |
| D. Vapor Separator | E. Thermostat |
| E. Fuel Lines, Fittings, and Clamps | |
| | 7. Gaskets |
| | A. All Emission Component Gaskets |

Product Information

The emission warranty covers damage to other engine components that is caused by the failure of a warranted part.

The Bombardier Operator's Guide provided contains written instructions for the proper maintenance and use of your outboard. All emission warranty parts are warranted by Bombardier for the entire warranty period of the outboard, unless the part is scheduled for replacement as required maintenance in the Operator's Guide.

Emission warranty parts that are scheduled for replacement, as required maintenance, are warranted by Bombardier for the period of time before the first scheduled replacement date for that part. Emission warranty parts that are scheduled for regular inspection but not regular replacement are warranted by Bombardier for the entire warranty period of the outboard. Any emission warranty part repaired or replaced under the terms of this warranty statement is warranted by Bombardier for the remainder of the warranty period of the original part. All parts replaced under this limited warranty become the property of Bombardier.

Maintenance receipts and records should be transferred to each subsequent owner of the outboard.

Owner's Warranty Responsibilities

As the outboard owner, you are responsible for the performance of the required maintenance listed in your Operator's Guide. Bombardier recommends that you retain all receipts covering maintenance on your outboard, but Bombardier cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance.

As the outboard owner, you should however be aware that Bombardier may deny you warranty coverage if your outboard or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

You are responsible for presenting your outboard to an authorized Bombardier dealer as soon as a problem exists. The warranty repairs will be completed in a reasonable amount of time, not to exceed 30 days.

For any questions regarding your warranty rights and responsibilities or for the name and location of the nearest authorized Bombardier dealer, contact Bombardier Customer Support Services, 250 Sea Horse Drive, Waukegan, IL 60085, 1-847-689-7090 or visit www.evinrude.com.

CHANGE OF ADDRESS / CHANGE OF OWNERSHIP

If your address has changed or if there has been a change of ownership, be sure to fill out and mail the card provided on this page.

Such notification is likewise necessary for your own safety even after expiration of the original warranty, since Bombardier will be in a position to contact you if correction to your outboard becomes necessary. Outside the U.S. and Canada, this card should be sent to the Bombardier division where the outboard was registered. Please contact your Dealer or Distributor.



Change of address

Change of ownership

Model number

Serial Number

Old address / Previous owner

Last name

First name M.I.

Address

City State

Zip code Country

Phone number

Signature Date

New address / New owner

Last name

First name M.I.

Address

City State

Zip code Country

Phone number

AFFIX
STAMP
HERE



EVINRUDE / JOHNSON
DEALER SUPPORT SERVICES
250 SEAHORSE DRIVE
WAUKEGAN, IL 60085

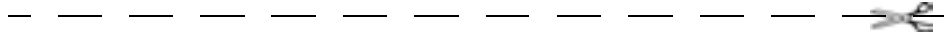
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CONFIRMATION OF RECEIPT

Your Dealer

| | |
|----------|-------|
| Name: | _____ |
| | _____ |
| Address: | _____ |
| | _____ |
| | _____ |

Upon delivery of your new *Evinrude/Johnson* outboard, complete and sign the form below. Your Dealer will take receipt of the form for their records.



Receipt

| | |
|--|---|
| Name: | _____ |
| | _____ |
| Address: | _____ |
| | _____ |
| | _____ |
| Owner of Model No: | _____ |
| Serial No: | _____ |
| | (To be completed by customer or selling Dealer) |
| <p>The Dealer named on this document has instructed me on the operation, maintenance, safety features and warranty policy, all of which I understand and agree to be bound with. I am also satisfied with the predelivery set-up and inspection of my <i>Evinrude/Johnson</i> outboard. I have also received a copy of the Operator's Guide.</p> | |
| Signature: | _____ |
| Date: | _____ |

Readiness Test

The Operator's Readiness Test...

1. Did you read this Guide from front cover to rear cover?
2. Are you ready to take responsibility for the safe operation of your boat and outboard?
3. Do you understand all the safety precautions and instructions contained in this Guide?
4. Do you understand that this Guide contains essential information to help prevent personal injury and damage to equipment?
5. Are you ready to follow the recommendations in this Guide and take a boating safety course before you operate your boat and outboard?
6. Do you know who to ask if you have any questions about your boat and outboard?
7. Do you know your local marine traffic laws?
8. Do you understand that human error can be caused by carelessness, fatigue, overload, preoccupation, unfamiliarity of operator with the product, drugs and alcohol, just to name a few?



WARNING



It is impossible for this Guide to cover every hazardous situation you may encounter; however, your understanding of and adherence to essential information contained in this Guide will build good judgment when boating. Always be alert and careful: a good foundation for safety.

FREQUENTLY ASKED QUESTIONS

No dealer-scheduled maintenance for the first three years of normal recreational use? Really?

- Yes! Bombardier knows you want to spend your time on the water, not servicing your *Evinrude E-TEC* outboard. There are no valves to adjust, belts to service, chains to replace, or oil to change. We do recommend pre-launch inspections of your outboard at each use and at regular intervals. Salt water applications require minimal additional inspections and lubrication.

What fuel octane is recommended for my Evinrude E-TEC outboard?

- *Evinrude E-TEC* outboards require a minimum octane of 87 (U.S.). Use of higher octane fuels is not harmful, but also not necessary.

What kind of oil does my Evinrude E-TEC outboard require?

- Any TC-W3 oil may be used. The outboard can be programmed by your Dealer to run on *Evinrude/Johnson* XD100 oil for lower oil consumption and reduced operating cost. Refer to **Filling the Oil Tank** on page 15; see also **Oil Requirements** on page 16.

Do I need to mix oil into my fuel?

- No. *Evinrude E-TEC* outboards do not require any mixing of oil and fuel.

Where should I take my Evinrude E-TEC outboard for service?

- For repairs covered under warranty, you must take your *Evinrude E-TEC* outboard to an authorized dealer. Bombardier-approved dealers and distributors have received the necessary training to properly service your outboard. Contact Bombardier for an authorized *Evinrude E-TEC* dealer near you.

Can I order replacement parts and accessories for my Evinrude E-TEC outboard?

- Yes. When replacement parts are required, use *Evinrude/Johnson* Genuine Parts or parts with equivalent characteristics, including type, strength, and material. Using substandard parts could result in injury or product malfunction. Your dealer can order the parts and accessories you desire.

Do I need to complete any paperwork when I move or sell my Evinrude E-TEC outboard?

- Yes. In order to maintain contact with you or the new *Evinrude E-TEC* owner, Bombardier requests you complete the form outlining **Change of Address / Change of Ownership** on page 45. This will ensure you or the new owner is made aware of any product announcements and keep the warranty coverage up-to-date.

What do I need to do before storing my Evinrude E-TEC outboard for the winter?

- Winterization is minimal. Refer to **Storage** on page 30 for step-by-step instructions to store your *Evinrude E-TEC* outboard for the off-season.

