

EVINRUDE.



Operator's Guide

40 HORSEPOWER

RL

Model Year

2008



WARNING

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

40 HORSEPOWER

RL 2008 Model Year



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 Operational Break-In Procedure
- Easy Starts (no choking or priming)
- Digital Engine Management
- Self Flushing Cooling SystemLong Term Storage Design
- Simplified Winterization Procedure
- Digital Diagnostics
- Low Oil Usage
- CANbus Capable

Durable and Reliable

- Full Corrosion Protection
- Evinrude E-TEC Lubrication System
- Auto-Calibrated Linkage
- · Robust, Heavy-Duty Design
- Posi-Lock Latches
- Extra Capacity Water Pump
- Iridium Spark Plugs
- Vibration Isolated Electronics
- Beltless 25 Amp Charging System
- Stainless Steel Thermostat
- Nickel/Chrome-Faced Piston Rings
- Micro Finished Connecting Rods/Crankshaft

Cleaner and Quieter

- EPA Emissions Compliance
- European Union 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 Recreational Products Inc. or its affiliates:

Evinrude® E-TEC®

Evinrude®

Evinrude®/Johnson® XD30™ BRP Logo

I-Command™

S.A.F.E.™

Evinrude®/Johnson® Genuine Parts Evinrude®/Johnson® XD100™

2+4™ Fuel Conditioner

SystemCheck™ Triple-Guard™ Grease

Evinrude®/Johnson® XD50™

HPF XR™ Gearcase Lubricant HPF Pro™ Gearcase Lubricant



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 BRP 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 & OPERATE

With your *Evinrude E-TEC* outboard there is no more time wasted in the shop. In fact, you only have to bring your *Evinrude E-TEC* outboard in for dealer scheduled maintenance every 300 hours or every three years of normal recreational use. That's three trips to the shop in nine years... four trips in twelve years... five trips in fifteen years... you get the picture! And if that is not enough, with your new outboard you will have zero oil changes, absolutely no break-in period, and a simple winterization process that can be done at the boat ramp or in your driveway. We are proud of how easy we have made it for you to own this outboard. Hopefully it means you will be spending more time on the water each year.

POWER & PERFORMANCE

Evinrude E-TEC outboards have been engineered to outperform anything on the water—acceleration, top-end speed, any size, any horsepower, across the line. And for your buddies who own a four-stroke? Well, they cannot touch our power-to-weight ratio. And you can tell them that no four-stroke comes close to the pure power and torque of an Evinrude E-TEC outboard.

DURABILITY / QUALITY / RELIABILITY

Fewer parts. Fewer problems. Every *Evinrude E-TEC* outboard component is tested and retested for maximum performance and longer life. Parts are bigger and stronger to work harder and last longer.

CLEAN & QUIET

You do not even have to think about emissions—anywhere in the country; anywhere in the world. *Evinrude E-TEC* outboards are the only outboard marine engines to have received a Clean Air Excellence Award from the United States Environmental Protection Agency (EPA). The entire *Evinrude E-TEC* line meets or exceeds all worldwide emission standards. We have even got 3-Star certification from the toughest of the tough: the California Air Resources Board. And thanks to the sophisticated, acoustically tuned air intake and exhaust systems, you will not be filling the air with a lot of noise either.

BRP is 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, General Manager Outboard Engines

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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 Recreational Products (BRP) 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.

A

WARNING



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.

For your safety and the safety of others, follow all safety warnings and recommendations. Do not disregard any of the safety precautions and instructions.

Anyone operating your boat should first read and understand this Guide before they operate your boat and outboard.

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!
- 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 floatation 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.

- ⚠ 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.
- ⚠ 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.
- 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.

SAFETY MEASURES — Installation and Maintenance

- ↑ 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.
- 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 31.
- 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



BRP 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 _	
O a mi a l. Niversela a m	
Serial Number	
Purchase Date _	
Ignition Key Numl	per

Stolen Outboards

United States and Canada — Report stolen outboards to your local dealer or distributor. **Outside United States and Canada** — Report the theft to the Bombardier Recreational Products distributor where the outboard was registered.

Technical Literature

BRP 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

Application of Council Directives: Directive 2003/44/EC Recreational-Craft

Relevant Directive(s): Directive 89/336/CEE Eletromagnetic Compatibility
 Relevant Harmonized Standard(s): As referenced by Council and Relevant Directives

• **Product Type:** Marine Outboard 2-Stroke Cycle SI Engine

• Manufacturer: BRP US Inc.

10101 Science Drive Sturtevant, WI 53177

EC Type Certificate:

Engine Model(s)	Exhaust Emissions Certificate Number	Sound Emissions Certificate Number
E40DRLSU	EXBOMB002	SDBOMB012

I, the undersigned, hereby declare that the product specified above conforms to the above Directive(s) and Standard(s).

Fernando Garcia,

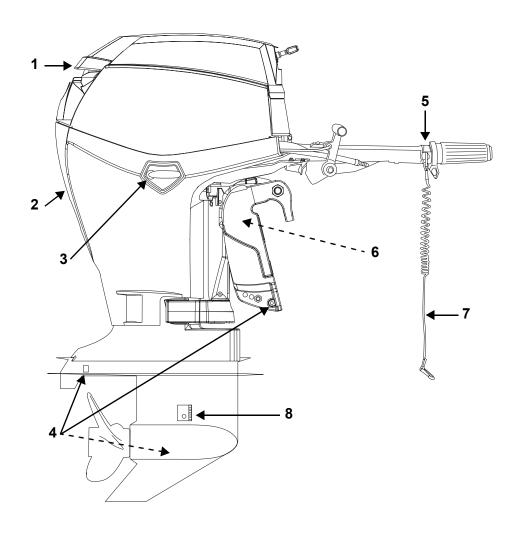
Sevendo J Carcia

Director of Regulatory Affairs and Public Relations

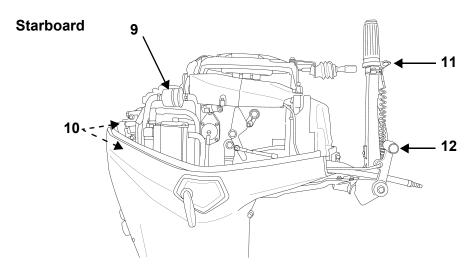


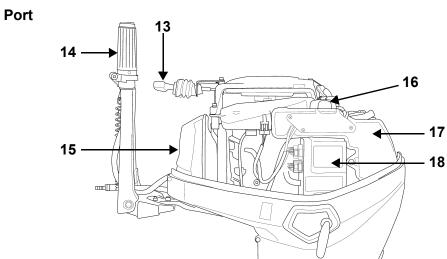
USING YOUR EVINRUDE E-TEC OUTBOARD

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





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	EMM (Engine Management Module)

OIL AND FUEL

OIL REQUIREMENTS

⊙-----

Evinrude/Johnson Brand Oils

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

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 XD100 Oil

Evinrude/Johnson XD100 oil is preferred for your Evinrude E-TEC outboard. This synthetic formula oil provides uncompromised lubrication and superior performance, even in extreme conditions—especially in cold temperatures down to 0°F (-17°C).

If requested, an authorized dealer can program your *Evinrude E-TEC* outboard *EMM* for the exclusive use of *Evinrude/Johnson XD100*. Only an authorized *Evinrude* dealer can program your outboard for this optional benefit.

Oil consumption is reduced if the outboard is programmed for exclusive use of *Evinrude/Johnson XD100* as compared to using a conventional oil.

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-W3 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.

Other Oils

If Evinrude/Johnson brand oils are not available, you must use an oil that meets NMMA TC-W3 certification standards.

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

OILING SYSTEM

◐┈

If the "LOW OIL" warning light illuminates, you have approximately five hours of normal operation before running out of oil. Refill the oil tank at next convenient opportunity.

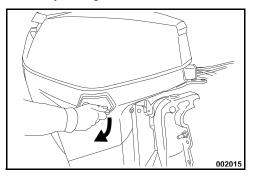
Always "top off" your oil tank prior to prolonged usage or long trips.

New outboards are programmed to use additional oil during the first two hours of operation above 2000 RPM.

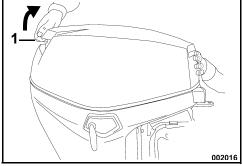
IMPORTANT: When operating in conditions under 32°F (0°C), *Evinrude/Johnson XD100* oil must be used.

FILLING THE OIL TANK

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

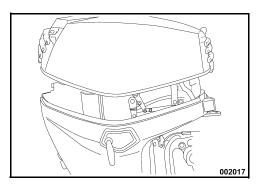


Pull up on the tilt handle to release the engine cover seal on the engine cover.

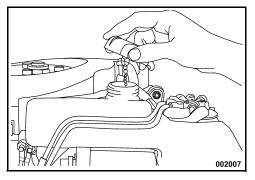


1. Tilt handle

Remove the engine cover to access the oil FUEL REQUIREMENTS tank.



Remove the filler cap and fill the tank with the recommended outboard lubricant, as specified in Oil Requirements on page 14.



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

IMPORTANT: The oil tank capacity is 2.0 quarts (1.9 liters).

PRIMING THE OIL SYSTEM



The oiling system must be primed before using the outboard if:

- · The outboard is new (check with your dealer to ensure oil system was primed);
- · You run completely out of oil; or
- The outboard is laid down for transportation or storage.

Prime the oiling system by performing winterization. Refer to Long-Term Storage (Winterization) on page 33.

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 handing fuel:

- · Always turn off the engine before fuel-
- 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.

Using Your E-TEC Outboard

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.

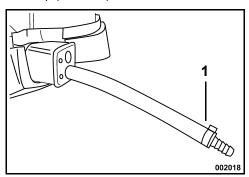
Using alcohol-extended fuels is acceptable **ONLY** if the alcohol content does not exceed:

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

FUEL SYSTEM OPERATION

Connecting the Fuel Hose

- If the fuel hose is disconnected for any reason, seal it to prevent spillage. Cap the fuel fitting to prevent contamination.
- 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



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.

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).

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 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 ADDITIVES

The only fuel additives approved for use in your *Evinrude E-TEC* outboard are:

- Evinrude/Johnson 2+4 Fuel Conditioner
- Evinrude/Johnson Fuel System Cleaner

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

Evinrude/Johnson 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 can be used continuously and should be used during any period when the outboard is not being operated on a regular basis. Its use will reduce spark plug fouling, fuel system icing, and fuel system component deterioration.

Evinrude/Johnson Fuel System Cleaner will help keep fuel injectors in optimal operating condition

OPERATION

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.

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 iniurv.



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



N 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.

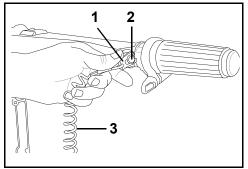
ENGINE STARTING

Refer to the Routine Inspection Checklist on page 27 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. Lanvard



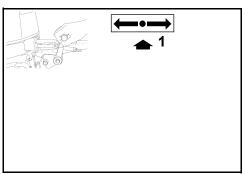
WARNING



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

Using Your E-TEC Outboard

Move the shift lever to NEUTRAL. Refer to **Shifting and Speed Control** on page 20.

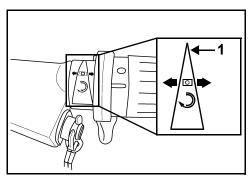


1 NFUTRAL



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

Twist throttle grip to **slowest** idle position.

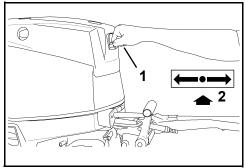


1. Slowest idle position



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.

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.

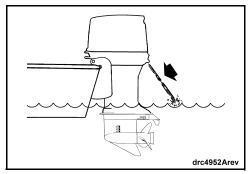


- 1. Starter handle
- 2. NEUTRAL

If your outboard does not react normally to this starting procedure or if it fails to start, refer to **Troubleshooting** on page 36.

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 23.

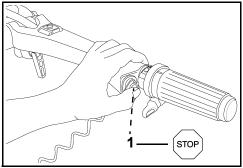


ENGINE STOPPING

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.

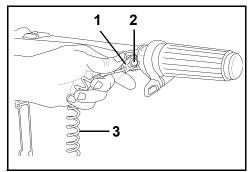


1 STOP button

Emergency Stop Switch

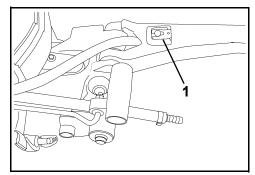
The emergency stop switch is on the steering handle. Use of the emergency stop feature is highly recommended on all boats.

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 Clin
- 2. Emergency stop clip / key switch
- 3. Lanvard

An extra clip is provided on the tiller handle. If the operator is thrown from the boat, another person can insert the extra clip in the stop switch and start the outboard.



1. Extra clip

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DANGER



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

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WARNING



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.

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.

Using Your E-TEC Outboard

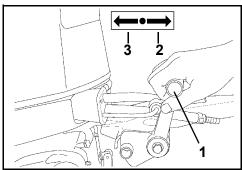
SHIFTING AND SPEED CONTROL

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

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WARNING



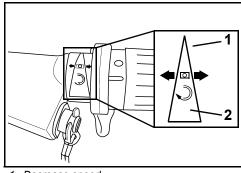
Do not operate the outboard in REVERSE with the tilt/run lever in TILT. The outboard may tilt out of the water, resulting in loss of control.

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 Economy

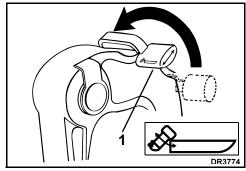
Fuel economy can vary depending on boat load, hull design, and throttle setting. When boat reaches top speed, throttle back from FULL SPEED to a lower throttle setting. You will save fuel with a minimal loss of speed.

TILTING

IMPORTANT: Use the tilt grip to tilt your outboard. Do not use the tiller handle as a lever.

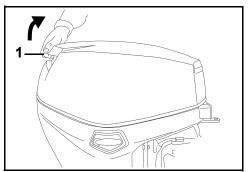
Tilt UP

Move tilt/run lever to TILT position.



1. TILT position

Grasp tilt grip on engine cover and tilt out- TILT SUPPORT BRACKET board to the full tilt position.



1. Tilt grip

Tilt support will automatically engage.

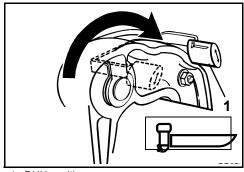
WARNING



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 DOWN

Move tilt/run lever to RUN position.



1. RUN position

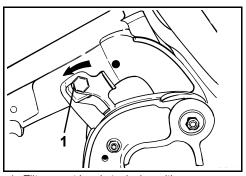
Grasp tilt grip on engine cover and raise outboard slightly.

Tilt support will automatically disengage.

Slowly lower outboard to its normal operating position.

Engage

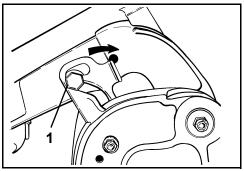
Raise the outboard to full TILT position. Push tilt support bracket to "lock" position.



1. Tilt support bracket - lock position

Disengage

Move tilt/run lever to RUN position. Tilt outboard fully and pull tilt support bracket to "unlock" position. Lower outboard.



1. Tilt support bracket – unlock position

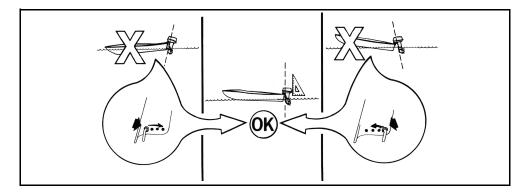
TRAILERING

Trailer your boat with the outboard in a vertical position. If your trailer does not provide adequate road clearance, support the outboard with an accessory trailering bracket.

IMPORTANT: The outboard must be restrained when trailering. Bouncing during transport may damage the outboard and the boat's transom.

IMPORTANT: Use of the tilt support bracket when trailering may cause damage to the outboard.

Using Your E-TEC Outboard



TRIM ANGLE ADJUSTMENT



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.

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 Bracket** on page 21.

- 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.

IMPACT DAMAGE PROTECTION

Your outboard has a shock absorption system designed to help withstand damage from im-

pact with underwater objects at low to moderate speeds.

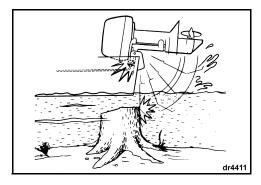
High speed impacts with rigid underwater objects like pilings or boulders can be beyond the capability of the absorption system.

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.

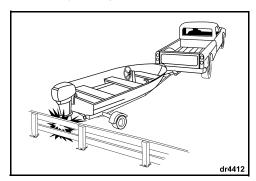
When boating in unfamiliar, shallow, or debris-laden waters, seek information on safe boating areas and navigation hazards from a reliable local source.

Reduce your speed and keep a sharp lookout!

IMPORTANT: Impact damage is NOT covered by the outboard warranty.



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

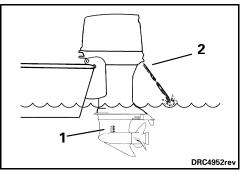


Failure to inspect for damage after an accident or striking an object could result in sudden, unexpected component failure, loss of boat control, and personal injury. Unrepaired damage could reduce your boat and outboard's ability to resist future impacts.

ENGINE OVERHEATING

IMPORTANT: Do not run your outboard—even for a brief start-up—without supplying water to it. Refer to **Transporting the Outboard** on page 32.

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.



- 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.

Using Your E-TEC Outboard

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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.

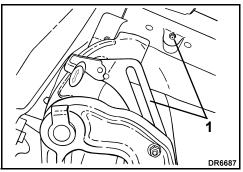
IMPORTANT: Although the *S.A.F.E.* mode can help prevent engine damage, it does not guarantee you can run your engine indefinitely without engine damage.

SALT WATER

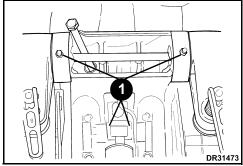
Additional anodic protection for the outboard has been provided for use in salt or brackish water

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 **Transporting the Outboard** on page 32.

Salt Water Lubrication Points



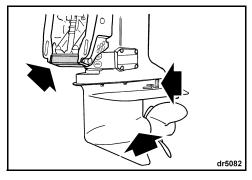
1. Tilt lever, tilt lever shaft, and swivel bracket lubrication points (annually)



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: When operating in conditions under 32°F (0°C), *Evinrude/Johnson XD100* oil must be used.

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. Store the outboard vertically.

If the outboard's gearcase is equipped with an integral speedometer pickup, all water must be cleared from the hose to prevent gearcase damage. Refer to **Storage** on page 32.

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WARNING



Water remaining in the gearcase, cooling system or other components can freeze, causing serious engine damage.

SHALLOW WATER

Gearcase damage can occur if the gearcase is allowed to drag on the waterway bottom. Use caution when operating in shallow water.

IMPORTANT: Impact damage is NOT covered by the outboard warranty.

Using Your E-TEC Outboard

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



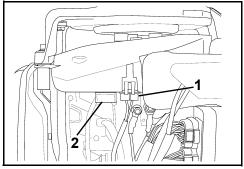
On outboards equipped with an accessory electric starter, a blown fuse will not allow the engine to start. Replace it with a fuse of the same rating. A spare fuse is provided.

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

Pre-Launch Checks (Each Use)

100 hours).

□ 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 Checks □ Check condition of anti-corrosion anodes (annually or every 100 hours). □ Check for debris on propeller shaft (requires propeller removal). □ 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



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 BRP 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 ceradjustments 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 inspection and maintenance is necessary to prolong outboard life. The following chart provides guidelines for inspection and maintenance to be performed by an authorized Dealer.

IMPORTANT: Outboards used in rental, commercial, or other high hour applications require more frequent inspections and maintenance. Adjust schedule for operating and environmental conditions.

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	Α	✓
Grease fittings, lubricate (3)	В	✓
Muffler foam, inspect and replace if necessary		✓
Propeller shaft splines, inspect and lubricate (3)	В	✓
Spark plugs, inspect and replace if necessary (2)		✓
Steering handle, inspect and lubricate	В	✓
Thermostats, inspect ⁽²⁾		✓
Throttle cable, inspect and re-tension		✓
Water pump, inspect or replace if necessary		✓

- (1) Average recreational use. Commercial use, heavy use, or use in salt or polluted water requires more frequent inspection and maintenance (annual checks are recommended).
- (2) Emission-related component Refer to **Owner Responsibility** on page 30, **Product Warranty Information** on page 43 and, if applicable, **California Emission Control Warranty Statement** on page 46
- (3) Annually in salt water applications Refer to Salt Water Lubrication Points on page 24
- **A.** *HPF XR* Gearcase Lubricant *HPF Pro* Gearcase Lubricant in high performance or commercial applications
- 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. Your warranty does not cover engine failure caused by these conditions.

Temperature and humidity changes during storage period can cause corrosion of internal engine components.

Winterization prepares your outboard for long-term off-season storage. During winterization, the engine is "fogged" and extra oil is used to coat internal engine components. Refer to **Long-Term Storage (Winterization)** on page 33.

Stabilize the fuel supply. Fuel remaining in your fuel tank can oxidize, resulting in loss of octane and fuel system deposits.

Use Evinrude/Johnson 2+4 Fuel Conditioner to prevent gum and varnish deposits from forming in fuel system components. Refer to **Fuel Additives** on page 16.



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 filler cap vent screws (if equipped) and be sure any disconnected fuel hoses do not drip.

TRANSPORTING THE OUTBOARD

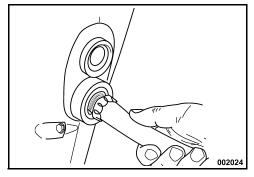


If the outboard is laid down for transportation or storage, the oiling system must be primed before reusing the outboard. Refer to **Priming the Oil System** on page 15.

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.



 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 STORAGE

Between uses, store your outboard in a vertical position to allow the cooling system to drain completely.

LONG-TERM STORAGE (WINTERIZATION)

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WARNING



Outboard must be in NEUTRAL before performing winterization. Starting outboard in gear can cause personal injury.

If winterizing on a trailer, the propeller must be removed before performing procedure. Failure to remove propeller can cause personal injury or death.

Winterization prepares your outboard for long-term off-season storage. During winterization, the engine is "fogged" and extra oil is used to coat internal engine components.

Winterization requires a specific process of steps.

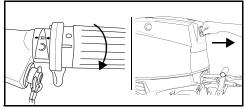
Preparation

Your outboard can be winterized in the water. **If winterizing in water,** make sure the water intake screens are completely submerged.

- Stabilize the engine's fuel supply. Add 2+4
 Fuel Conditioner following instructions on
 container. Fill fuel tank.
- If winterizing on a trailer, remove the propeller. Attach a garden hose to flushing port and turn on the water. Refer to Flushing on page 32.
- Outboard must be in NEUTRAL, and shift linkage must be in NEUTRAL position at all times during winterization procedure.

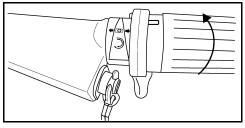
Tiller Control Outboards

 Advance throttle grip to HALF THROTTLE position. Start the outboard. Outboard runs at slow idle speed.



Tiller Control – Typical

 After outboard runs for about 15 seconds, move throttle grip to IDLE position. Outboard continues to run at slow idle speed.



- After outboard runs for another 15 seconds, advance throttle grip to HALF THROTTLE position. Outboard will accelerate to fast idle speed and fog itself.
- Allow outboard to run until it shuts itself OFF automatically (less than one minute).

Winterization is complete when outboard shuts itself off.

- If the outboard DOES NOT shut itself off, you may not have properly advanced throttle grip.
- If the engine exceeds 3000 RPM, the outboard may have been shifted into gear.

 In either event, immediately press STOP button to turn outboard OFF and re-start the procedure.

After Winterization

- After the outboard shuts itself off, remove emergency stop clip / key switch. Do not start the outboard again after winterization is completed.
- If winterizing on a trailer, turn off water and detach garden hose. Grease propeller shaft splines with recommended lubricant, and re-install propeller.

IMPORTANT: When winterizing is finished, leave the outboard in vertical position long enough to completely drain the powerhead. If equipped, disconnect the speedometer pick-up at the upper connection and blow all water out of the hose using air pressure of 25 psi or less. Reconnect speedometer pickup after all the water has been removed.

3) Top off oil tank.



Extra engine oil is used during the winterization procedure. Some excess 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 25.

IMPORTANT: Do not run your outboard even for a brief start-up—without supplying water to it

Following **Engine Starting** on page 17, 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 36 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 23.

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.

SPARK PLUGS



WARNING



The ignition system presents a serious shock hazard. 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.

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

IMPORTANT: Replacement spark plugs MUST be indexed correctly.

Marine Engine Duty Cycles

The International Council of Marine Industry Associations (ICOMIA) Standard No. 36-88 specifies a marine engine duty cycle based on documented studies. A duty cycle is a profile of engine running and usage. This duty cycle is used to determine average spark plug longevity and maintenance requirements for Evinrude E-TEC outboards.

ICOMIA Marine Engine Duty Cycle								
Engine Speed as Percentage of Rated Speed (RPM)	Time at Specified RPM (Percentage of total engine running time)							
IDLE	40%							
40%	25%							
60%	15%							
80%	14%							
100%	6%							

IMPORTANT: Some running profiles and conditions can lead to spark plug wear sooner than expected. Depending on your specific usage, the spark plug maintenance schedule may require adjustment.

SCRATCH REPAIR



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

Treat affected areas using these steps:

- Sand the affected area with 800-grit sandpaper.
- 2) Wet sand the area with 1200-grit sandpaper.
- 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* anticorrosion spray to any surface subject to corrosion, but avoid the anti-corrosion anode(s).

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.

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	Shift handle not in NEUTRAL. Fuse blown.
Engine will not start	 Not following starting instructions. Refer to Engine Starting on page 17. 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 16. Fuel filter obstructed. Throttle not at IDLE. Return throttle to IDLE. Spark plugs incorrect. Refer to Spark Plugs on page 34. Spark plugs improperly gapped, carboned, burned, or wet. Fuse blown.
Engine will not idle properly	 Debris on propeller. Spark plugs damaged or incorrect. Refer to Spark Plugs on page 34. Fuel system contaminated with water or dirt.
Engine loses power	 Spark plugs damaged or incorrect. Refer to Spark Plugs on page 34. 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 23. Oiling system malfunction. S.A.F.E. protection mode activated. Refer to Engine Overheating on page 23.
Engine runs, but makes little or no progress	 Propeller hub loose, slipping. Propeller blades bent or missing. Propeller shaft bent. Propeller debris.
Warning system activates	Refer to Engine Overheating on page 23.

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.

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 39.

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.

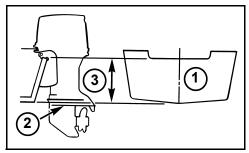
IMPORTANT: Use an appropriate hoist to lift the engine. Refer to **Specifications** on page 42 for engine weight.

TRANSOM HEIGHT

Make sure the transom height matches the length of the outboard to be installed.

- A 19 to 21 in. (48.3 to 53.3 cm) transom height uses a 20 in. (50.8 cm) shaft outboard.
- The shaft length of the outboard being installed should come close to matching the transom height of the boat.

Determine transom height by measuring from the top edge of the transom, along the centerline.



- 1. Centerline
- 2. Antiventilation plate
- 3. Transom Height

Boat performance depends on outboard mounting height.

Generally, the anti-ventilation plate of the gearcase should align with the bottom of the hull. Conventional V-hulls often perform well with the anti-ventilation plate approximately 1 in. (25 mm) above the bottom of the hull.

Test outboard and boat performance at different heights until the best performance is achieved.

IMPORTANT: Be sure that outboard water pressure is not adversely affected by the mounting height of the outboard.

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

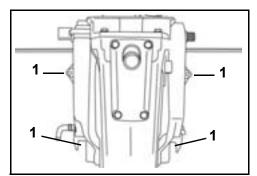


Even if equipped with clamp screws, your outboard must be bolted to the boat to prevent it from "working off the transom" during operation.

Center the outboard on the transom (or mounting bracket) and tighten clamp screws by hand.

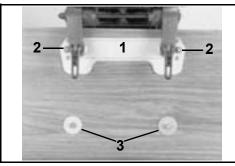
Use the outboard stern brackets as a template for location and size of holes to drill in the transom.

Use each stern bracket's mounting holes as a guide to drill four 11/32 in. (8.7 mm) holes through the transom.



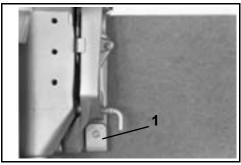
1. Drilled transom holes

Use the supplied Transom Mounting Kit to securely mount the outboard. The kit includes a transom mounting plate and hardware for fastening outboard to transom.



- 1. Transom plate
- 2. Small washers
- 3. Large washers

The kit also includes clamp pads, which must be used to secure mounting bolts in slots at the bottom of the outboard stern brackets.



1. Clamp pad

Install the mounting bolts through the stern brackets and transom. Install round backing plates and locknuts onto bolts and tighten securely.



WARNING



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

Product Information

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 outboard 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 42.



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

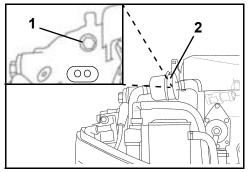
If your propeller hits a solid object, the impact is partially absorbed by the rubber bushing in the hub to help prevent damage to the outboard. A strong impact can damage the hub and propeller blades. Damage to blades can cause unusual and excessive vibration. Damage to the hub can cause excessive engine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

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

ADJUSTMENTS

Idle RPM in Gear

The idle RPM in gear setting can be adjusted, if desired, to provide more idle control, steering, and quietness in certain applications.

IMPORTANT: Only your Dealer can adjust the idle RPM in gear setting.

Trim Tab



WARNING

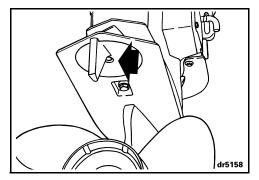


Improper trim tab adjustment can cause difficult steering.

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, outboard angle and load conditions. No single adjustment can relieve steering effort under all speed, outboard 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:

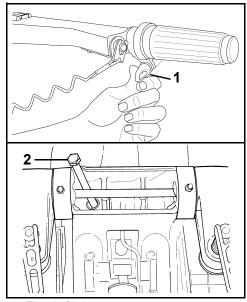
With the outboard shut OFF, loosen the trim tab screw. If the boat pulled to the right, move the rear of the trim tab slightly to the right. If the boat pulled to the left, move the rear of the trim tab slightly to the left.



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 outboard 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, Evinrude E-TEC						
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), Evinrude E-TEC						
Fuel Requirements ⁽²⁾	87 Pump Posted AKI (90 RON) – Refer to Fuel Requirements on page 15						
Oil – Lubricant	TC-W3 NMMA-certified oil or <i>Evinrude/Johnson XD100</i> oil Refer to Oil Requirements on page 14						
Capacity	2.0 qt. (1.9 l)						
Spark Plug ⁽²⁾	Refer to ECI Label						
Fuses	Refer to Fuse on page 26						
Fuel Filter	In-line Replaceable						
Gearcase – Lubricant – Capacity	Evinrude HPF XR 22 fl. oz. (650 ml)						
Propeller	Refer to Propeller Selection on page 40						
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 RECREATIONAL PRODUCTS LIMITED WARRANTY FOR 2008 EVINRUDE OUTBOARD ENGINES SOLD IN THE UNITED STATES AND CANADA

1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products* ("BRP") warrants its 2008 *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. 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, 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 BRP, 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.

3. 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 BRP. BRP 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.

4. WARRANTY COVERAGE PERIOD

This limited warranty will be in effect from the date of delivery to 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.

In cases where the delivery date is not established to BRP's satisfaction, the date of sale will be used to determine the warranty start date.

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 BRP parts and accessories one-year limited warranty.

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

5. 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 BRP 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 BRP 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. BRP may require proof of proper maintenance prior to authorizing warranty coverage.

6. 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 BRP.

7. WHAT BRP WILL DO

BRP'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 BRP. Such repair or replacement of parts will be done without charge for parts and labor, at any authorized Dealer. BRP's responsibility is limited to making the required repairs or replacements of parts with new or BRP-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.

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

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 BRP 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 BRP limited warranty, BRP 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 Bombardier Recreational Products Customer Support Services, 250 Sea Horse Drive, Waukegan, IL 60085, 1-847-689-7090.

BOMBARDIER RECREATIONAL PRODUCTS LIMITED WARRANTY FOR 2008 EVINRUDE OUTBOARD ENGINES SOLD OUTSIDE THE UNITED STATES AND CANADA

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

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

* Engines sold in Canada are distributed and serviced by Bombardier Recreational Products Inc. Limited Warranty Revision February 2007

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 Recreational Products ("BRP") are pleased to explain the emission control system warranty on your 2008 *Evinrude E-TEC* outboard. In California, new outboard engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. BRP 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, BRP will repair your outboard at no cost to you including diagnosis, parts, and labor provided that such work is performed by an authorized BRP dealer.

Manufacturer's Limited Warranty Coverage

This emission limited warranty covers *Evinrude* outboards certified and produced by BRP for sale in California, that are originally sold in California to a California resident, or subsequently warranty-registered to a California resident. The BRP 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 BRP.

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)									
C. Megaphone (Inner Exhaust)	6. Sensors								
	A. Air Temperature Sensor								
3. Fuel System	B. Crank Position Sensor								
A. Fuel Lift Pump	C. Throttle Position Sensor								
B. Fuel Supply Pump	D. Water Temperature Sensor								
C. Fuel Injectors	E. Thermostat								
D. Vapor Separator									
E. Fuel Lines, Fittings, and Clamps	7. Gaskets								
	A. All Emission Component Gaskets								

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

Product Information

The BRP Operator's Guide provided contains written instructions for the proper maintenance and use of your outboard. All emission warranty parts are warranted by BRP 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 BRP 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 BRP 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 BRP for the remainder of the warranty period of the original part. All parts replaced under this limited warranty become the property of BRP.

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. BRP recommends that you retain all receipts covering maintenance on your outboard, but BRP 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 BRP 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 BRP 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 BRP dealer, contact Bombardier Recreational Products Customer Support Services, 250 Sea Horse Drive, Waukegan, IL 60085, 1-847-689-7090 or visit www.evinrude.com.

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! BRP knows you want to spend your time out 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-W3RL 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 14; see also Oil Requirements on page 14.

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. BRP-approved dealers and distributors have received the necessary training to properly service your outboard. Contact BRP 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, BRP requests
you complete the form outlining Change of Address / Change of Ownership on page 51.
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 32 for step-by-step instructions to store your Evinrude E-TEC outboard for the off-season.

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 form provided on this page.

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

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Change of Address											CI	nang	ge c	of O	wne	rsh	ip	
Model number																		
Serial Number																		
Old Address / Previous Owner																		
Last name																		
First name																N	I.I.	
Address																		
City															Sta	ite		
Zip code								•	C	oun	try							
Phone number																		
Signature														Da	ate			
New Address / New Ov	vner																	
Last name																		
First name																N	I.I.	
Address																		
City															Sta	te		
Zip code									C	oun	try							
Phone number																		
Signature														Da	ate			
Dealer Information																		
Dealer name																		
Dealer number																		
Phone number																		
Contact name																		

In the U.S. or Canada, mail completed form to: Bombardier Recreational Products
After Sales Support
250 Seahorse Drive
Waukegan, IL 60085



CONFIRMATION OF RECEIPT

Your Dealer

Name:		
Address:		
Upon delivery of Your Dealer will t	your new <i>Evinrude</i> ake receipt of the fo	e/Johnson outboard, complete and sign the form below orm for their records.
Receipt		
Name:		
Address:		
	Owner of Model No:	
	Serial No:	
		(To be completed by customer or selling Dealer)
features and warra	anty policy, all of whicl ry set-up and inspecti	has instructed me on the operation, maintenance, safety h I understand and agree to be bound with. I am also satisfied on of my <i>Evinrude/Johnson</i> outboard. I have also received a
	Signature:	
	Date:	
1		





