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

2004
75/90 HORSEPOWER
PL, PX, SL
FEATURES AT A GLANCE

Easy to Own and Operate

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

Durable and Reliable

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

Cleaner and Quieter

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

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

Evinrude® 2+4® fuel conditioner
Evinrude® E-TEC™ S.A.F.E.™
Evinrude®/Johnson® Genuine Parts System Check®
Evinrude®/Johnson® XD100™ Sure Start® System
Evinrude®/Johnson® XD25™ Triple-Guard® grease

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Dear Boating Enthusiast,

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

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

• **Easy to Own and Operate** – This means fewer time-consuming and expensive maintenance requirements. Your Evinrude E-TEC outboard has a debris-resistant, flow-through cooling system, and requires no break-in, oil changes, oil filter changes, or expensive winterizing. Best of all, there is no scheduled dealer maintenance for three years of normal recreational use—only common sense pre-launch checks and periodic checks for corrosion when used in salt-water applications.

• **Cleaner and Quieter** – Your Evinrude E-TEC outboard has the quieter signature Evinrude sound that rivals any competitive outboard. Additionally, this Evinrude E-TEC outboard complies with the strictest EPA, European Union, and California emissions regulations for outboard engines, and its sealed fuel system minimizes evaporative emissions.

• **Durability, Quality, and Reliability** – Your Evinrude E-TEC outboard utilizes proven, extremely durable engine components, such as pistons made from material developed by NASA, which are two-and-a-half times stronger than competitive pistons. There are no belts, pulleys, powerhead gears, cams, oil scraping rings, or mechanized oil pumps to cause problems. The Evinrude E-TEC Sure Start® System delivers easy, quick starts every time, and its full magneto electronics are not dependant on a battery. All of this guarantees you getting out there on the water and, most importantly, getting back.

• **Exceptional Styling** – We put a lot of thought into the styling as well as the technology. We know form and function go hand in hand, so we made the hood ergonomically correct—should you ever need to lift it off. The packaging style you will find under the hood is something that has never been seen in the outboard engine industry. And with molded-in color, your Evinrude E-TEC outboard is more resistant to fading, chipping, peeling, or cracking than any other outboard on the market, giving you years of a great-looking outboard.

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

Happy Boating,

Roch Lambert
Vice-President and General Manager
TABLE OF CONTENTS

About This Guide ................................................. 4
Important Safety Messages ................................. 5

USING YOUR EVINRUDE E-TEC OUTBOARD

Component Identification ............................... 10
Starting, Stopping, Shifting ............................. 12
Oil and Fuel ..................................................... 15
Instruments and Controls ................................. 18
Operation ......................................................... 23
Routine Inspection Checklist ............................. 30
MAINTENANCE
  Engine Emissions Information 32
  Maintenance Schedule 33
  Storage 34
  Troubleshooting 37

PRODUCT INFORMATION
  Rigging and Accessories 40
  Adjustments 43
  Specifications 45
  Product Warranty Information 46
  California Emission Control Warranty 48
  Readiness Test 56
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](image)

**DANGER**

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

![WARNING](image)

**WARNING**

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

![CAUTION](image)

**CAUTION**

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

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

These safety notices mean:

**ATTENTION!**

**BECOME ALERT!**

**YOUR SAFETY IS INVOLVED!**

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

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

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

**WARNING**

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!

⚠️ Be sure at least one of your passengers knows how to handle your boat in case of an emergency.

⚠️ All passengers should know the location of emergency equipment and how to use it.

⚠️ Know the marine traffic laws and obey them.

⚠️ All safety equipment and personal 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.
SAFETY MEASURES — Installation and Maintenance

- Insist on the use of personal floatation devices, approved by the U.S. Coast Guard, by all passengers when boating conditions are hazardous, and by children and nonswimmers at all times.

- Proceed with caution and at very low speed in shallow water. Grounding or abrupt stops may result in personal injury or property damage. Also be alert for debris and objects in the water.

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

- Respect no wake zones, rights of other water users and the environment. As the “skipper” and owner of a boat you are responsible for damage to other boats caused by the wake of your boat. Allow no one to throw refuse overboard.

- Do not operate your boat if you are under the influence of drugs or alcohol.

- High performance boats have a high power-to-weight ratio. If you are not experienced in the operation of a high performance boat, do not attempt to operate one at, or near, its top speed until you have gained that experience.

- Become completely familiar with the control and operation of your boat and outboard before embarking on your first trip or taking on a passenger(s). If you have not had the opportunity to do so with your Dealer, practice driving in a suitable area and feel the response of each control. Be familiar with all controls before applying the throttle above idle speed. As the operator, you are in control and responsible for safe operation.

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

- Do not overpower your boat by using an engine that exceeds the horsepower indicated on the boat’s capacity plate. Overpowering could result in loss of control. If your boat has no capacity plate, contact your DEALER or the boat’s manufacturer.

- When replacement parts are required, use Evinrude®/Johnson® Genuine Parts or parts with equivalent characteristics, including type, strength and material. Using substandard parts could result in injury or product malfunction.

- Only perform service procedures which are detailed in this Operator’s Guide. Attempting to perform maintenance or repair on your outboard if you are not familiar with the correct service and safety procedure could cause personal injury or death. Further information can be obtained from your authorized Evinrude/Johnson DEALER. In many instances proper tools and training are required for certain service or repair procedures.

- Maintain your boat and engine in top condition at all times. Adhere to the Maintenance Schedule on page 33.

- Operate your boat and outboard prudently and have fun. Do not forget that all persons must assist other boaters in case of emergency.

- Prevent injury from contact with rotating propeller; remove propeller before flushing or before performing any maintenance.
PRODUCT REFERENCES, ILLUSTRATIONS AND SPECIFICATIONS
Bombardier reserves the right to make changes at any time, without notice, to features, specifications and model availability, and to change any specification or part at any time without incurring any obligation to update older models. The information in the Guide is based on the latest specifications available at the time of publication.

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

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

Owner’s Identification
United States and Canada — At the time of purchase, your Dealer will complete your outboard registration forms. Your portion provides proof of ownership and date of purchase.
Outside United States and Canada — See your Dealer or distributor for details.

Model and Serial Numbers
The model and serial numbers appear on a plate attached to the stern bracket or swivel bracket. Record your outboard’s:
Model Number _______________________
Serial Number _______________________
Purchase Date _______________________
Ignition Key Number __________________

Stolen Outboards
United States and Canada — Report your outboard as stolen to Customer and Dealer Support Services, 250 Seahorse Drive, Waukegan, IL 60085 U.S.A. Give the outboard’s model and serial numbers and enclose a copy of the police report.
Outside United States and Canada — Report the theft to the Bombardier distributor where the outboard was registered.

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

Declaration of Conformity
Bombardier Motor Corporation of America declares that the outboard to which this Operator’s Manual applies conforms to the essential requirements outlined in CE Machinery Directive 98-37-EC, as amended.
USING YOUR
EVINRUDE E-TEC
OUTBOARD
## COMPONENT IDENTIFICATION

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Air Inlet, Tilt Handle</td>
<td>6</td>
<td>Fuel Fitting</td>
</tr>
<tr>
<td>2</td>
<td>Water Pump Indicator, Flushing Port</td>
<td>7</td>
<td>Tilt Limiter Cam</td>
</tr>
<tr>
<td>3</td>
<td>Engine Cover Latch</td>
<td>8</td>
<td>Tilt Support</td>
</tr>
<tr>
<td>4</td>
<td>Anti-Corrosion Anodes</td>
<td>9</td>
<td>Water Intake Screens</td>
</tr>
<tr>
<td>5</td>
<td>Battery Cables</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
<td>Item</td>
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<tr>
<td>------</td>
<td>------------------</td>
<td>------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>10</td>
<td>Fuel Filter</td>
<td>16</td>
<td>Trailering Tilt Switch</td>
</tr>
<tr>
<td>11</td>
<td>Spark Plugs</td>
<td>17</td>
<td>Flywheel Guard</td>
</tr>
<tr>
<td>12</td>
<td>Engine Cover Latch</td>
<td>18</td>
<td>Oil Fill Cap</td>
</tr>
<tr>
<td>13</td>
<td>Fuse</td>
<td>19</td>
<td>Oil Tank</td>
</tr>
<tr>
<td>14</td>
<td>Spare Fuse</td>
<td>20</td>
<td><em>EMM</em> (Engine Management Module)</td>
</tr>
<tr>
<td>15</td>
<td>Air Silencer</td>
<td></td>
<td></td>
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SAFETY INFORMATION

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

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

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

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

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

**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.

ENGINE STARTING
Refer to the Routine Inspection Checklist on page 30 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/key switch. Snap the lanyard to a secure place on the operator’s clothing or life vest — not where it might tear away instead of activating the stop switch.

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

**DANGER**
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**WARNING**
Always use the safety lanyard when operating your boat to help prevent a runaway boat and reduce the risk of personal injury or death.
Move the remote control handle to NEUTRAL.

1. Concealed side mount control
2. Binnacle mount control

**WARNING**

If you are using a remote control that does not have start-in-gear prevention, the outboard can be started while it is in gear. Protect against unexpected boat movement by always starting your outboard in NEUTRAL.

**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. The System Check gauge lights will illuminate if the throttle is advanced.

Turn the key switch fully clockwise to the START position. Crank the engine no longer than 20 seconds.

**ENGINE STOPPING**

Move control handle to NEUTRAL.

Turn key switch counterclockwise to the OFF position. Remove the key when the boat will be unattended.

**IMPORTANT:** The starter motor can be damaged if operated continuously for more than 20 seconds. Upon start-up, release the key. If the engine did not start, release the key momentarily, then try again.

Each time the key switch is turned from OFF to ON, the warning system will self-test. Refer to Engine Monitoring on page 18. If the warning system fails to self-test during start-up, see your Dealer.

If your outboard does not react normally to this starting procedure or if it fails to start, refer to Troubleshooting on page 37.

**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 20.
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 engine into FORWARD or REVERSE while it is shut off. If the following directions are not suitable for your boat's control, see your Dealer before proceeding.

Shifting

With engine running and control handle in NEUTRAL:

Concealed Side Mount Control
Unlock the control handle (lift the neutral lock tab by squeezing the hand grip). Briskly and decisively, move the control handle fore or aft until it engages the gear detent.

![Concealed Side Mount Control](image1)

1. NEUTRAL Lock Tab Hand Grip

Binacle Mount Control
Briskly and decisively, move the control handle fore or aft until it engages the gear detent.

![Binacle Mount Control](image2)

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
After gear engagement, move the control handle slowly in the same direction to increase speed.

FUEL ECONOMY
The economy throttle range can save fuel, depending on boat load and hull design. When boat reaches top speed, throttle back from FULL SPEED to the economy throttle range. You will save fuel with a minimal loss of speed.
OIL AND FUEL

OILING SYSTEM

If the “LOW OIL” warning light illuminates, you have approximately five hours of normal operation before running out of oil when using TC-W3 oil. If using Evinrude/Johnson XD100™ oil, you have approximately ten hours of normal operation remaining. Refill the onboard oil tank at next convenient opportunity.

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

FILLING THE OIL TANK

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

Remove the engine cover to access the oil tank.

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

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

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

IMPORTANT: The oil tank capacity is 2.5 quarts (2.4 liters).
Evinrude/Johnson XD100, Evinrude Direct Injection, or Evinrude/Johnson XD25™ outboard oils are recommended for use in your Evinrude E-TEC outboard.

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

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

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

If Evinrude/Johnson XD100, Evinrude Direct Injection, or Evinrude/Johnson XD25 oils are not available, you must use an oil that meets NMMA TC-W3 certification standards.

IMPORTANT: If your EMM has been programmed for Evinrude/Johnson XD100, DO NOT use any other oil unless in an emergency. If Evinrude/Johnson XD100 is temporarily unavailable, a one-time-only use of an oil that meets NMMA TC-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.

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

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.

WARNING

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

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

Follow these instructions to ensure safety when handling fuel:

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

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

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

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

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

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

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

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

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

FUEL ADDITIVES
Bombardier approves only Evinrude 2+4® fuel conditioner fuel additive for use in your Evinrude E-TEC outboard.

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

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

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

IMPORTANT: Your outboard must be equipped with the System Check® engine monitor. Operating your outboard without the System Check engine monitor will void your warranty for failures related to the functions monitored on your engine.

When you turn the key switch ON, the System Check engine monitor horn performs a self-test by sounding a 1/2-second beep. The gauge self-tests by turning the warning lights on, then off in sequence. During engine start-up, pause with the key switch in the ON position to observe the horn and gauge perform the self-test. If the self-test does not happen as stated, see your Dealer.

The System Check engine monitor alerts the operator with a 10-second beep of the horn and a warning light on the gauge when certain engine problems occur. The appropriate warning light will stay on until the problem is corrected or the key switch is turned OFF.

If the engine management module (EMM) senses that the problem could cause permanent engine damage, it will also limit engine speed to 1200 RPM. This additional protection feature is referred to as S.A.F.E.™ (Speed Adjusting Failsafe Electronics). If the engine was running faster than 1200 RPM when the S.A.F.E. mode activated, it will shake noticeably. Under certain operating conditions the EMM will shut OFF the engine.

CAUTION

In the S.A.F.E. mode, the engine speed is limited. Under certain conditions, the engine’s limited speed may reduce maneuverability of your boat.

If the S.A.F.E. mode is activated and you are unable to correct the problem, seek assistance and/or return to safe harbor. Serious engine damage, engine shutoff, and/or reduced maneuverability may be imminent.

1. System Check gauge
2. System Check gauge with tachometer
The following warnings may appear on the outboard’s indicator lights:

**“LOW OIL”**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil in the oil tank is at reserve level (about 1/4 full)</td>
<td><em>EMM</em> will activate light</td>
<td>• Fill the oil tank with recommended oil as soon as possible to avoid emptying the tank. The outboard has approximately five hours (ten hours if using Evinrude/Johnson XD100 oil) of normal running time before “NO OIL” condition occurs. Refer to Filling the Oil Tank on page 15.</td>
</tr>
</tbody>
</table>

**“NO OIL”**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
</table>
| There is an oil delivery problem | *EMM* will activate *S.A.F.E.* mode | • If the oil tank is empty, add the recommended oil.  
• If the oil tank is not empty, seek assistance and/or return to safe harbor. |

Your outboard is designed to run in “get home” mode for up to five hours in the event you run out of oil. Refill the onboard oil tank as soon as possible.

**“WATER TEMP” or “HOT”**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
</table>
| The engine is overheating | *EMM* will activate *S.A.F.E.* mode | • A continuous light with *S.A.F.E.* mode — The *EMM* has identified an overheating condition. Check the water pump indicator for a steady stream of water. Shut OFF the engine. Clear the water intake screens of any debris. If the overheat condition still exists, the engine will operate in “get home” mode. Return to harbor immediately.  
• A flashing light — The *EMM* has identified a damaging overheating condition. The engine will not operate. Allow the engine to cool for 20 minutes and return to harbor immediately. See your Dealer. |

**“CHECK ENGINE” or “CHK ENG”**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
</table>
| An abnormal operating condition | *EMM* will activate light | • A flashing light — The *EMM* has identified an abnormal operating condition related to the fuel system. The engine will shut OFF and cannot be restarted.  
• A continuous light with *S.A.F.E.* mode — The *EMM* has identified a problem with the outboard. Seek assistance and/or return to harbor. See your Dealer.  
• A continuous light without *S.A.F.E.* mode — The *EMM* has identified a problem that should be addressed by your Dealer as soon as practical to avoid operational difficulties. |

**WARNING**

If the outboard shuts OFF and the “CHECK ENGINE” or “CHK ENG” light is flashing, the outboard cannot be restarted. A hazardous fuel condition may exist. Seek assistance to return to port.

*Speed Adjusting Failsafe Electronics*
Using Your E-TEC Outboard

ENGINE OVERHEATING

IMPORTANT: Do not run your outboard—even for a brief start-up—without supplying water to it. Refer to Flushing on page 34.

While boating, the outboard’s water intakes must stay completely submerged and unobstructed. Observe proper transom height and trim 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, mud and debris-laden water, and at extreme trim angles.

1. Water intake screens
2. Water pump indicator

If the engine overheats, its System Check engine monitor will sound the warning horn and turn on the “WATER TEMP” or “HOT” light. Also, the S.A.F.E. (Speed Adjusting Failsafe Electronics) mode will immediately limit the engine’s speed to 1200 RPM. If the engine was running faster than 1200 RPM when the S.A.F.E. mode activated, it will shake noticeably. The protection system must be RESET before the engine will operate at speeds over 1200 RPM. Under certain conditions the EMM will shut off the engine.

To RESET the system:
- The engine must be shut off and the cooling temperature restored.
- IF the S.A.F.E. mode activates and the stream from the water pump indicator becomes intermittent or stops, reduce speed to idle and:
  1) Shift to NEUTRAL.
  2) SHUT OFF the engine.
  3) Tilt the outboard up.
  4) Clean the intake screens of any blockage.
  5) Clean the water pump indicator of any blockage.
  6) Lower the outboard.
  7) Restart the engine and run at idle.

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

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

IMPORTANT: If cooling is not restored, the EMM will identify a progressive overheating condition and shut off the engine. The “WATER TEMP” or “HOT” light will flash. 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.
REMOTE CONTROLS

**WARNING**
If you choose a non-Evinrude remote control, it must have a start-in-gear prevention feature. This feature can prevent injuries resulting from unexpected boat movement when the engine starts.

**IMPORTANT:** When selecting the remote control system for your boat, specify Evinrude components. Evinrude controls deliver the cable stroke your outboard needs for positive shift and throttle control, and they incorporate such safety and convenience features as:
- Start-in-gear prevention
- Plug-in compatibility with Evinrude modular wiring system

---

**Evinrude binnacle mount control**
1. Handle - shift and throttle
2. Trim/tilt switch (where equipped)
3. Fast idle button (warm-up)
4. Throttle friction control
5. Emergency stop clip and lanyard

**Evinrude concealed side mount control**
1. Handle - shift and throttle
2. Trim/tilt switch (where equipped)
3. Neutral lock tab
4. Fast idle button (warm-up)
5. Throttle Friction Control

**Evinrude side mount control**
1. Handle - shift and throttle
2. Trim/tilt switch (where equipped)
3. Neutral lock tab
4. Fast idle lever (warm-up)
5. Emergency stop clip and lanyard
Using Your E-TEC Outboard

Emergency Stop/Key Switch

A combination emergency stop switch and key switch is a feature of Evinrude prewired remote controls and all Evinrude control wiring kits. Use of the emergency stop feature is highly recommended on all boats.

Connect the clip to the emergency stop/key 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. In an emergency situation, the engine can be started without the clip in place. Reinstall a clip as soon as possible.

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

Avoid knocking or pulling the clip off the stop switch during normal boating.
Avoid bumping the key if operating without the clip on the switch. The resulting unexpected loss of forward motion can throw occupants forward, causing injury.

Your emergency stop switch can be effective only when in good working condition. At each outing, inspect clip and lanyard for cuts, breaks, or wear. Replace worn or damaged parts.

Keep the lanyard free from obstructions and entanglements.

At each outing, test the system’s operation. With the engine running, remove the clip from the switch by pulling the lanyard. If the engine does not stop running, see your Dealer.

---

1. Clip
2. Emergency stop / key switch
3. Lanyard
POWER TRIM AND TILT

**WARNING**
Any malfunction of the power trim and tilt unit could result in loss of shock absorber protection if an underwater obstruction is hit. Malfunction can also result in loss of reverse thrust capability.
Correct fluid level must be maintained to ensure operation of the impact protection on this unit.

**Full Tilt**
The full tilt is often used to tilt the outboard for clearance when beaching, mooring, or launching.

1. **Trim range**
2. **Tilt range**

**Trim**
In most operating conditions, it is recommended to trim the outboard to the full down position when accelerating. Once on plane, trim the outboard up until the exhaust is heard, then back down slightly.

**Shallow Water Drive**
You can tilt the outboard to any position within the tilt range but DO NOT run the engine faster than idle speed. If idling a tilted outboard, keep its water intakes submerged at all times.

**Tilting**
If the tilted outboard’s cover contacts the boat’s motor well, limit the maximum tilt by following the procedures in **Tilt Limiter Cam** on page 44.

**Manually Tilting**
If needed, the outboard will tilt up or down manually, using the manual release screw.

1) Turn the manual release screw counterclockwise, slowly (about 3 1/2 turns), until it lightly contacts its retaining ring.
2) Reposition the outboard.
3) Tighten the manual release screw to hold the outboard in its new position.
Using Your E-TEC Outboard

**WARNING**

When operating in rough water or crossing a wake, excessive bow-up trim may result in the boat’s bow suddenly rising skyward, possibly ejecting or otherwise seriously injuring occupants.

Some boat/motor/propeller combinations may encounter boat instability and/or high steering torque when operated at high speed at or near the outboard’s trim range limits (full bow-up or bow-down). Boat stability and steering torque can also vary due to changing water conditions. If any adverse conditions occur, reduce throttle and/or adjust trim angle to maintain control. If you experience boat instability and/or high steering torque, see your Dealer to correct these conditions.

**IMPORTANT:** Some boats plow, or are difficult to plane, when operated in the trim’s lowest position. If your boat handles unsuitably when trimmed fully bow-down, set the angle adjusting rod or trim limiter rod to limit the travel of the power trim. If your outboard is not equipped with this rod, purchase one from your Dealer.

**WARNING**

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.

**IMPORTANT:** DO NOT use the tilt support lever while trailering. Refer to Trailering on page 25.

**Engaging Tilt Support Lever**

If you intend to leave the motor tilted for a period of time, engage the tilt support lever:

1) Tilt the motor UP using the trailering tilt switch.
2) Flip the tilt support lever down.
3) Lower the motor until the tilt support lever rests solidly on the stern brackets.

**Disengaging Tilt Support Lever**

When you are finished tilting the motor, disengage the tilt support lever:

1) Tilt the motor UP.
2) Flip the tilt support lever up.
3) Lower the motor to operating position.
TRAILERING

**WARNING**

Keep everyone clear of stern area when raising or lowering the outboard. Personal injury or death can result from contact with moving parts of the outboard.

Trailering Bracket

**To engage bracket** — Tilt the motor fully using the tilt switch inside the boat or the trailering tilt switch (on port side of engine).

1. Trailering tilt switch
2. Tilt switch inside boat

Pull down the trailering bracket. A detent will hold the bracket in position. Lower the motor until the trailering bracket locks into place in the stern brackets.

**To disengage bracket** — Tilt the motor fully. Return the trailering bracket to its stowed position. Lower the motor to its vertical position.

The motor is designed to be trailered in a vertical position or tilted, using the trailering bracket. Use the position best suited for your boat.

**IMPORTANT:** The motor MUST be in neutral when trailering.

The motor is designed to be trailered in a vertical position or tilted, using the trailering bracket. Use the position best suited for your boat.

**IMPORTANT:** The motor MUST be in neutral when trailering.
Using Your E-TEC Outboard

IMPACT DAMAGE

Your outboard has a shock absorption system designed to help withstand damage from impact with underwater objects at low to moderate speeds. High speed impacts with rigid underwater objects like pilings or boulders can be beyond the capability of the absorption system. Such impacts can result in serious damage to your outboard and injury to boat occupants from the outboard or its parts entering the boat. Occupants can also be ejected or injured by falling against portions of the boat as a result of rapid deceleration following impacts.

When boating in unfamiliar, shallow, or debris-laden waters, seek information on safe boating areas and navigation hazards from a reliable local source. Reduce your speed and keep a sharp lookout!

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.

EMERGENCY STARTING

If the starter fails, your engine can be started using a 1/4 in (6 mm) cord about 4 ft. (1.2 m) long.

WARNING

Move the shift lever to NEUTRAL before performing emergency starting procedures. Failure to do so may result in unexpected boat movement.

The engine cover is a machinery guard. To prevent injury from moving engine components, keep hands, clothes, and hair clear of powerhead.

Prevent electric shock by keeping clear of the ignition coils and spark plug leads when the motor is being started or is running. Shock can cause serious personal injury under certain conditions.

DO NOT turn flywheel by hand. Use starter cord only.

Be sure:
• Key switch is OFF.
• Engine is in normal operating position.
• Shift lever is in NEUTRAL.
1) Release port and starboard side engine cover latches downward. Pull up on the tilt handle to release the engine cover seal and remove the engine cover.

2) Remove fuse holder from flywheel cover.

3) Raise flywheel guard from the fittings by pulling up on the front two fastening tabs.

4) Holding the flywheel guard out of the way, hook the knot of your emergency start cord into the notch on the flywheel. Wind the cord clockwise in the flywheel ridge, making one and a half full windings with the cord.

5) Turn key switch ON.

6) From a secure position in the boat, pull hard on emergency starting cord to start engine.

Repeat procedure, if necessary, until engine starts.

7) Refasten flywheel guard in place by pushing the three fastening tabs back onto the fittings.

**CAUTION**

Keep everyone clear of your immediate area when pulling on emergency starting cord, especially behind you.
Using Your E-TEC Outboard

DANGER
Contact with a rotating flywheel can cause severe personal injury. Use extreme care in re-fastening the flywheel guard on the fastening tabs. Keep hands, hair, and clothing away from coming in direct contact with rotating parts.

If equipped, snap emergency stop switch lanyard to secure place on clothing. Proceed immediately to nearest landing for service.

SALT WATER
Additional anodic protection for the outboard has been provided for use in salt or brackish water.
Upon removal from salt water, leave outboard in a vertical position until its cooling system has drained. During long periods of mooring, tilt the gearcase out of the water, except in freezing temperatures. Flush the outboard, if desired. Refer to Flushing on page 34.

Salt Water Lubrication Points

1. Trailering bracket and swivel bracket lubrication points (annually)

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

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

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

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

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

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

If REVERSE operation does not clear away weeds, SHUT OFF the engine. Remove weeds from propeller area and water intakes before operating at higher speed.
HIGH ALTITUDE
Your outboard’s EMM will automatically compensate for changes in altitude. However, if you boat above 3000 ft. (900 m), you will experience a slight loss of power due to reduced air density.
If your engine drops below the recommended RPM operating range at full throttle, have your Dealer select a lower pitch propeller.
If you return to sea level, have your Dealer install the original propeller and verify correct RPM operating range.

FREEZING WEATHER
IMPORTANT: Use Evinrude/Johnson XD100 oil when operating your Evinrude E-TEC outboard in freezing weather. Refer to Oil Requirements on page 16.
During operation in freezing weather, keep the gearcase submerged at all times.
Upon removing your outboard from the water, leave it in a vertical position until its cooling system is drained.
IMPORTANT: Store the outboard vertically. Water remaining in the gearcase, cooling system or other components can freeze, causing serious engine damage.
IMPORTANT: If your outboard’s gearcase is equipped with an integral speedometer pickup, all water must be cleared from the hose to prevent gearcase damage. Refer to Storage on page 34.

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

DUAL OUTBOARD OPERATION
When in reverse above slow speed, be sure both outboards are running, even if one is in NEUTRAL.
If it is necessary to return to harbor with one outboard not running, tilt the inoperative outboard high enough to keep its propeller out of the water.

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
A blown fuse will not allow the engine to crank. Replace it with a fuse of the same rating. A spare fuse is provided.
Repeated fuse failures indicate a potentially serious problem. Do not replace it with higher rated fuse; see your Dealer for service.

Fuse Replacement
IMPORTANT: Use only fuses of the same rating. Your Evinrude E-TEC outboard uses 10-amp fuses.
Remove engine cover. Install spare fuse in place of failed fuse.

1. Fuse
2. Spare fuse

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

Common Sense Pre-launch Checks (Each Use)

☐ Check fuel level.
☐ Check function of steering, throttle, shift, and emergency stop circuit and lanyard.
☐ Check condition of propeller.
☐ Confirm operation of System Check self-test and warning horn.
☐ Confirm the cooling system is operational (water intake screens and water pump indicator).
☐ Confirm this Operator’s Guide is onboard and readily accessible.

Periodic

☐ Check condition of anti-corrosion anodes (annually or every 100 hours).
☐ Check for debris on propeller.
☐ Clean and wax upper and lower engine covers (annually or every 100 hours).

In salt water applications, check lubrication points and corrosion protection. Use Evinrude anti-corrosion spray or Evinrude “6 in 1” multi-purpose lubricant (annually or 100 hours).
MAINTENANCE
ENGINE EMISSIONS INFORMATION

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

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

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

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

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

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

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

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

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

EPA Emission Regulations
All new 1999 and more recent Evinrude outboards manufactured by Bombardier are certified to the EPA as conforming to the requirements of the regulations for the control of air pollution from new watercraft marine spark ignition engines. This certification is contingent on certain adjustments being set to factory standards. For this reason, the factory procedure for servicing the product must be strictly followed and, whenever practicable, returned to the original intent of the design. The responsibilities listed above are general and in no way a complete listing of the rules and regulations pertaining to the EPA requirements on exhaust emissions for marine products. For more detailed information on this subject, you may contact the following locations:

VIA U.S. POSTAL SERVICE:
Office of Mobile Sources
Engine Programs and Compliance Division
Engine Compliance Programs
Group (6403J)
401 M St. NW
Washington, DC 20460

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

EPA INTERNET WEB SITE:
www.epa.gov
Routine maintenance is necessary for all mechanized products. Periodic maintenance contributes to the product’s life span. The following maintenance chart provides guidelines for outboard maintenance and inspection scheduled to be performed by an authorized Dealer. The schedule should be adjusted according to operating conditions and use.

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Engine Care Product</th>
<th>Every 300 Hours or Three Years(^{(1)})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical and ignition wires, inspect for wear or chafing</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Engine to transom mounting hardware, re-torque (40 ft. lbs.)</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Fasteners, inspect any loosened components</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Fuel and oil system components, inspect and repair leaks (^{(2)})</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Fuel filter, replace</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Gearcase lubricant, replace</td>
<td>A</td>
<td>✓</td>
</tr>
<tr>
<td>Grease fittings, lubricate (^{(3)})</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Muffler foam, inspect and replace if necessary</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Power trim/tilt system and fluid level, inspect</td>
<td>B</td>
<td>✓</td>
</tr>
<tr>
<td>Propeller shaft splines, inspect and lubricate (^{(3)})</td>
<td>C</td>
<td>✓</td>
</tr>
<tr>
<td>Spark plugs, inspect and replace if necessary (^{(2)})</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Starter pinion shaft, inspect and lubricate</td>
<td>D</td>
<td>✓</td>
</tr>
<tr>
<td>Steering system, inspect and lubricate</td>
<td>C</td>
<td>✓</td>
</tr>
<tr>
<td>Thermostats, inspect (^{(2)})</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Throttle cable, inspect and re-tension</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Water pump, inspect or replace if necessary</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

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

\(^{(2)}\) Emission-related component

\(^{(3)}\) Annually in salt water applications – Refer to Salt Water Lubrication Points on page 28

A. *Ultra-HPF* gearcase lubricant
B. Power Trim/Tilt Fluid
C. *Triple Guard* grease
D. Starter Bendix Lube Only P/N 337016
You must protect against natural environmental conditions that can be damaging to an outboard. Temperature and humidity changes while your outboard is not in use can cause corrosion of internal engine parts when they are not protected. Fuel remaining in your fuel tank can oxidize which can result in loss of octane and can cause gum deposits in the fuel system. Your warranty does not cover engine failure caused by these conditions.

**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.

**IMPORTANT:** The “CHECK ENGINE” or “CHK ENG” System Check gauge light may illuminate if you are running the outboard during the flushing procedure. This is normal. The outboard will continue to run as long as it is being supplied with water.

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

**WARNING**

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

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

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

- Close the filler cap vent screw, if equipped.
- Be sure the disconnected fuel hose does not drip.

**SHORT-TERM (BETWEEN USES)**

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

Between uses, store your outboard in a vertical position.
### Long-Term (Winterization)

**Warning**

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

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

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

1. Remove the propeller (if winterizing on a trailer). Outboard must be in NEUTRAL.
2. Following bottle directions, add 2+4 fuel conditioner to fuel tank and fill it with fuel.
3. Attach garden hose to flushing port and turn on the water (winterizing on a trailer).
4. Using fast idle lever/button, advance throttle to FULL fast idle warm-up position and start the outboard. System Check lights will illuminate and the outboard will run at idle speed. Refer to Remote Controls on page 21 for location of fast idle lever/button, depending on your remote control.
5. After the System Check lights turn off (about 15 seconds), move throttle to IDLE position. System Check lights will re-light. Once the System Check lights turn off again, using the fast idle lever/button, advance throttle again to FULL fast idle warm-up position. System Check lights will flash.

**Important:** If the System Check lights do not flash, you may not have used the fast idle lever/button. If the lights are not flashing and the outboard is not running at fast idle, immediately turn key switch OFF and re-start the winterization procedure at step 4.

6. Outboard will automatically go to fast idle and fog itself. Allow outboard to run until it shuts OFF (about one minute).
7. After the outboard shuts itself off, turn key switch OFF, then detach garden hose.
8. With the engine cover removed, top off oil reservoir, inspect the fuel filter. If there is debris in the fuel filter, it must be replaced. See your Dealer. Reinstall engine cover.
9. Grease propeller shaft splines with recommended lubricant and install propeller.

**Important:** When finished, leave the outboard in vertical position long enough to completely drain the powerhead. If equipped, disconnect the speedometer pickup 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.

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

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

### Pre-Season Check

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

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

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

**Anticorrosion anodes —** Check condition. Refer to Anti-Corrosion Anodes on page 28.

**Battery —** Charge fully. Refer to Battery on page 41.

**Warning**

Do not use a booster battery and jumper cables to start the outboard. Gasoline fumes can cause explosion and fire, resulting in property damage, personal injury or death.

Review your outboard’s warning system self-test routine. During your pre-season start-up, make sure the warning system self-tests properly. If it does not, see your Dealer.

**Important:** Do not run your outboard—even for a brief start-up—without supplying water to it. Refer to Flushing on page 34.
Maintenance

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

Observe running quality. If poor, refer to Troubleshooting on page 37 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 20.

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.

HULL FINISH

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

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

OUTBOARD EXTERNAL FINISH

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

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

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

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

SCRATCH REPAIR

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

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

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

SPARK PLUGS

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

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

SUBMERGED OUTBOARD

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

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

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
</tr>
</thead>
</table>
| Starter motor will not operate   | • Shift handle not in NEUTRAL.  
                                   | • Fuse blown.  
                                   | • Battery is dead. |
| Engine will not start            | • Not following starting instructions. Refer to **Starting, Stopping, Shifting** on page 12.  
                                   | • Fuel tank empty.  
                                   | • Fuel hose kinked.  
                                   | • Fuel system contaminated with water or dirt.  
                                   | • Fuel filter obstructed.  
                                   | • Throttle not at IDLE. Return throttle to IDLE.  
                                   | • Spark plugs incorrect. Refer to **Specifications** on page 45.  
                                   | • Spark plugs improperly gapped, carboned, burned, or wet.  
                                   | • Fuse blown.  
                                   | • Flashing “Water Temp” or hot light, refer to **Engine Monitoring** on page 18 and **Engine Overheating** on page 20.  
                                   | • Flashing “Check Engine” or “Chk Eng” light, refer to **Engine Monitoring** on page 18. |
| Engine will not idle properly    | • Debris on propeller.  
                                   | • Spark plugs damaged or incorrect. Refer to **Specifications** on page 45.  
                                   | • Fuel system contaminated with water or dirt. |
| Engine loses power               | • Spark plugs damaged or incorrect. Refer to **Specifications** on page 45.  
                                   | • 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 20.  
                                   | • Oiling system malfunction.  
                                   | • S.A.F.E. protection mode activated. Refer to **Engine Monitoring** on page 18. |
| 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 Monitoring** on page 18. |
PRODUCT INFORMATION
RIGGING AND ACCESSORIES

PROPELLER

Propeller Selection

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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

**IMPORTANT:** The correct propeller for your boat, under normal load conditions, will allow the engine to run near the midpoint of the RPM operating range at full throttle. Refer to Specifications on page 45.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>In dual-outboard installations, check to make sure correct propellers are installed on each outboard before aggressively operating your boat. Shift each engine individually into FORWARD or REVERSE, at idle speed only. If the boat moves opposite the direction indicated by the remote control handle, the wrong propeller has been installed on the outboard being checked.</td>
</tr>
</tbody>
</table>

Standard vs. Counter Rotation

Right-hand propellers are considered standard rotation propellers. When propelling a boat forward, the propeller rotates in a right-hand (clockwise) direction as viewed from the rear.

Left-hand propellers are considered counter rotation propellers. When propelling a boat forward, the propeller rotates in a left-hand (counterclockwise) direction as viewed from the rear.

1. Right-Hand (clockwise)
2. Left-Hand (counterclockwise)
**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.

**BATTERY**

**Requirements**

- 12-volt, heavy-duty, designated for "marine" use;
- Vented/refillable or maintenance-free; and
- Rated according to the minimum requirements in Specifications on page 45.

Deep-cycle batteries are suitable IF they meet or exceed the minimum CCA requirements.

Ask your Dealer about your outboard's requirements before installing longer battery cables or a battery switch.

**Installation**

Read and understand the safety information supplied with your battery BEFORE you begin installation.

**Important:** Make sure all components are clean and free of corrosion.

Connect the RED (+) main cable to the positive (+) battery post. Connect the BLACK (–) main cable to the negative (–) battery post.

If you have marine battery posts, install each main cable on the clamp adapter with a starwasher below it. Install all wires from accessories on the threaded portion of the post.

1. Main cable
2. Starwasher
3. Accessory wires
**Product Information**

If you have automotive battery posts, place a starwasher on the clamp adapter first, then the main cable, and then the wires from the accessories.

1. Main cable  
2. Starwasher  
3. Accessory wires

Tighten all connections securely and coat the installation with Triple-Guard grease.

**Service**

Before servicing the battery or the outboard, remove both battery cables from the battery, battery negative (–) cable first. Keep metal objects from contacting either battery post.

**IMPORTANT:** Service electrical components only while the outboard is **NOT** running. Be careful when identifying positive and negative battery cables and posts.

---

**WARNING**

Battery electrolyte is acidic — handle with care. If electrolyte contacts any part of the body, immediately flush with water and seek medical attention.

Do not use a booster battery and jumper cables to start the outboard. Gasoline fumes can cause explosion and fire, resulting in property damage, personal injury or death.

**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.

---

**WARNING**

Keep the battery connections clean, tight, and insulated to prevent their shorting or arcing and causing an explosion. If the battery mounting system does not cover the connections, install covers. Check often to see that connections stay clean and tight.

**IMPORTANT:** **DO NOT** use wing nuts on battery connections even if they came with the battery. Wing nuts can loosen and cause errant warning signals or electrical system damage.
ADJUSTMENTS

Trim Tab

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

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

With the outboard shut OFF, loosen the trim tab screw. If the boat pulled to the left, 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 motor installations — The trim tab might be above the water when the motor is trimmed out. Steering effort might increase. Steering effort will be reduced if you trim the motor in and submerge the trim tab.

Dual standard rotation motors — Move both trim tabs equally and in the same direction.

Dual motors (one counter and one standard rotation) — Set both trim tabs to the center position.

WARNING

Improper trim tab adjustment can cause difficult steering.
Product Information

Tilt Limiter Cam
If your outboard contacts the boat’s motor well while tilting, adjust the tilt limiter cam to limit maximum tilt-up.

Place the outboard in its normal operating position.
Rotate the tilt limiter cam — pull its tab forward and up to REDUCE the amount of tilt UP.
Check your adjustment — tilt the outboard fully and adjust further, if necessary. Return the outboard to vertical position for each adjustment, and repeat your check after each adjustment.

WARNING
Adjusting the tilt limiter cam will NOT prevent the outboard from tilting fully and contacting the motor well if the gearcase hits an object at high speed. Such contact could damage the outboard and boat and injure boat occupants.
## SPECIFICATIONS

### 75, 90 Models

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Displacement</strong></td>
<td>79.1 cu. in. (1296 cc)</td>
</tr>
<tr>
<td><strong>Engine Type</strong></td>
<td>In-line, 3 Cylinder, Two-Cycle, <em>E-TEC</em></td>
</tr>
</tbody>
</table>
| **Full Throttle Operating Range** | 75 HP – 4500 to 5500 RPM  
 |                               | 90 HP – 4500 to 5500 RPM                                    |
| **Power**<sup>(1)</sup>        | 75 HP – 75 HP (56 kw) @ 5000 RPM                            |
|                               | 90 HP – 90 HP (67.1 kw) @ 5000 RPM                          |
| **Idle RPM in Gear**<sup>(2)</sup> | 700 ± 50                                                  |
| **Idle RPM in Neutral**<sup>(2)</sup> | 600 ± 50                                                  |
| **Ignition Timing**<sup>(2)</sup> | Not Adjustable                                            |
| **Emission Control System:**  | ECM, *E-TEC* (Engine Control Module, *E-TEC*)              |
| **Fuel Requirements**<sup>(2)</sup> | 87 Pump Posted AKI (90 RON) – Refer to *Oil and Fuel* on page 15 |
| **Oil – Lubricant**            | TC-W3 NMMA-certified oil or *Evinrude/Johnson* XD100 oil – Refer to *Oil and Fuel* on page 15 |
| **Battery, Minimum**           | 640 CCA (785 MCA) 12 volt                                   |
| **Spark Plug**<sup>(2)</sup>   | Refer to ECI Label                                         |
| **Fuses**                      | Refer to *Fuse* on page 29                                 |
| **Fuel Filter**                | In-line Replaceable                                         |
| **Battery Charging**           | 25-Amp, Fully Regulated                                    |
| **Gearcase – Lubricant**       | *Evinrude Ultra-HPF*™                                      |
| **Capacity**                   | L Models – 26 fl. oz. (770 ml)                             |
|                               | X Models – 42 fl. oz. (1250 ml)                            |
| **Power Trim/Tilt – Fluid Capacity** | 21 fl. oz. (622 ml)                                      |
| **Propeller**                  | Refer to *Propeller Selection* on page 40                 |
| **Weight**                     | L Models – 320 lbs. (145 kg)                               |
|                               | X Models – 335 lbs. (152 kg)                               |
| **Sound at Driver’s Ear (LpA)** | ICOMIA 39.94                                              |
|                               | 76.8 dB(A)                                                  |
| **Transom Height**             | L Models – 19 1/2 to 20 in. (495 to 508 mm)                |
|                               | X Models – 24 1/2 to 25 in. (622 to 635 mm)                |

<sup>(1)</sup> Rated following the standards of ICOMIA 28.83, ISO 3046 and NMMA.
<sup>(2)</sup> Emission Control Information.
PRODUCT WARRANTY INFORMATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Bombardier reserves the right to improve, modify or change Products from time to time without assuming any obligation to modify Products previously manufactured.
6. EXCLUSIONS — The following are not warranted under any circumstances:

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

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

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

7. LIMITATIONS OF LIABILITY

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

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

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

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

8. TRANSFER

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

9. CONSUMER ASSISTANCE

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

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

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

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

* Engines sold in Canada are distributed and serviced by Bombardier Inc.

Limited Warranty Revision 2003
Product Information

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

48
CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

YOUR EMISSION CONTROL WARRANTY RIGHTS AND OBLIGATION

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

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

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

Manufacturer’s Limited Warranty Coverage

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

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

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

Parts covered are:

<table>
<thead>
<tr>
<th>1. Electrical System</th>
<th>4. Air Induction System</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. EMM (Engine Management Module)</td>
<td>A. Reed Valves</td>
</tr>
<tr>
<td>B. Spark Plugs and Wires</td>
<td>B. Throttle Body Assembly</td>
</tr>
<tr>
<td>C. Ignition Coils</td>
<td>C. Intake Manifold</td>
</tr>
<tr>
<td>D. Wiring Harness</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Exhaust System</td>
<td>5. Oil System</td>
</tr>
<tr>
<td>A. Inner Exhaust Housing</td>
<td>A. Oil Injector</td>
</tr>
<tr>
<td>B. Adaptor (Exhaust Manifold)</td>
<td>B. Oil Lines, Fittings, and Clamps</td>
</tr>
<tr>
<td>C. Megaphone (Inner Exhaust)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Fuel Lift Pump</td>
<td>A. Air Temperature Sensor</td>
</tr>
<tr>
<td>B. Fuel Supply Pump</td>
<td></td>
</tr>
<tr>
<td>C. Fuel Injectors</td>
<td>B. Crank Position Sensor</td>
</tr>
<tr>
<td>D. Vapor Separator</td>
<td>C. Throttle Position Sensor</td>
</tr>
<tr>
<td>E. Fuel Lines, Fittings, and Clamps</td>
<td>D. Water Temperature Sensor</td>
</tr>
<tr>
<td></td>
<td>E. Thermostat</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Gaskets</td>
<td>A. All Emission Component Gaskets</td>
</tr>
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<td></td>
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</tbody>
</table>
Product Information

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

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

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

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

Owner's Warranty Responsibilities

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

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

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

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

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

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

Change of address ☐ Change of ownership ☐

Model number ___________________________

Serial Number __________________________

Old address / Previous owner

Last name ____________ ____________ ____________

First name ____________ ____________ ____________ M.I. ____________

Address ____________ ____________ ____________ ____________ ____________

City ____________ ____________ State ____________

Zip code ____________ ____________ Country ____________

Phone number ____________ ____________ ____________

Signature ____________________________ Date ____________

New address / New owner

Last name ____________ ____________ ____________

First name ____________ ____________ ____________ M.I. ____________

Address ____________ ____________ ____________ ____________ ____________

City ____________ ____________ State ____________

Zip code ____________ ____________ Country ____________

Phone number ____________ ____________ ____________ ____________


### CONFIRMATION OF RECEIPT

#### Your Dealer

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
</tr>
</tbody>
</table>

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

---

#### Receipt

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
</tr>
<tr>
<td>Owner of Model No:</td>
</tr>
</tbody>
</table>
| Serial No: | (To be completed by customer or selling Dealer)  

The Dealer named on this document has instructed me on the operation, maintenance, safety features and warranty policy, all of which I understand and agree to be bound with. I am also satisfied with the pre-delivery set-up and inspection of my *Evinrude/Johnson* outboard. I have also received a copy of the Operator’s Guide.

<table>
<thead>
<tr>
<th>Signature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
</tr>
</tbody>
</table>

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Product Information

Readiness Test

The Operator's Readiness Test...

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

WARNING

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

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

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

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

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

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

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

Do I need to mix oil into my fuel?

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

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

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

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

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

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

- Yes. In order to maintain contact with you or the new Evinrude E-TEC owner, Bombardier requests you complete the form outlining Change of Address / Change of Ownership on page 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 34 for step-by-step instructions to store your Evinrude E-TEC outboard for the off-season.