

Johnson.



Operator's Guide

9.9, 15 HORSEPOWER

EL4 4-Stroke



WARNIN

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

Our First Words to the Owner/Operator

This Operator's Guide is an essential part of your *Johnson* 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!

The safety section of this Guide comes first because it is our first priority and it should be yours too. It is strongly recommended that you read this Guide from front cover to rear cover. Following this recommendation will assure the completeness of the information that is essential to your safety, the safety of any passengers and other boaters. An Operator's Readiness Test has been prepared on the last page of this Guide.

Be safe! All passengers should be familiar with the proper operation of your boat and *Johnson* outboard. Be certain they fully understand and respect the controls and operation. Each operator is responsible for the safety of all passengers and other boaters. Please make safety your first priority and complete a boating safety course through your local Coast Guard, Power Squadron, Red Cross or State Boating Law Agency.

The pleasures of owning and operating a *Johnson* outboard can be significant. We strongly believe the rewards for following our recommendations will be worthwhile. Remember that YOU are the key to safety. Good safety practices not only protect you but also protect the people around you.

Having fun is what it's all about and, with your cooperation, the pertinent information in this Guide can ensure a safe and enjoyable experience.

Enjoy the great outdoors on the water...



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, read this Guide from cover to cover and 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 motor.

The following trademarks are the property of Bombardier Recreational Products or its affiliates:

Evinrude® Johnson®

Evinrude®/Johnson® Genuine Parts 2+4® fuel conditioner

Evinrude®/Johnson® 4-Stroke outboard oil Hi-Vis™ gearcase lubricant

Evinrude®/Johnson® Ultra™ 4-Stroke synthetic blend oil Triple-Guard® grease

Evinrude®/Johnson® anti-corrosion spray Ultra-HPF™ gearcase lubricant

general and consistent oping,

Contents

	2
SAFETY — THE RIGHT PLACE TO GET STARTED	1
PRODUCT REFERENCES, ILLUSTRATIONS AND SPECIFICATIONS	4
BRP LIMITED WARRANTY FOR 2006 JOHNSON 4-STROKE OUTBOARD ENGINES	
SOLD IN THE UNITED STATES AND CANADA	
BRP LIMITED WARRANTY FOR 2006 JOHNSON 4-STROKE OUTBOARD ENGINES	
SOLD OUTSIDE THE UNITED STATES AND CANADA	
CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT	
FEATURES ENGINE SPECIFICATIONS	
REMOTE CONTROL	
ENGINE MONITORING	
FUEL AND OIL	
FUEL	
OIL	
ADDITIVESFUEL SYSTEM	
BREAK-IN (10 HOURS)	
ENGINE STARTING	
BEFORE START-UPENGINE STOPPING	
SHIFTING AND SPEED CONTROL	
EMERGENCY STARTING	
FUEL ECONOMY	
OPERATION	
MOTOR ANGLE ADJUSTMENT	
TILTING	
SHALLOW-WATER DRIVE	
MOORING	
FLUSHING	
LOW OIL PRESSURE WARNING	
OVER-REVOLUTION LIMITING SYSTEM ENGINE OVERHEATING	
TRAILERING	
IMPACT DAMAGE	
STORING	
CARRYING AND TRANSPORTING	
SPECIAL OPERATING CONDITIONS	33
SPECIAL OPERATING CONDITIONS	34
SPECIAL OPERATING CONDITIONS	34 34
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE	34 34 3!
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE	34 34 3! 3!
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL	34 34 35 36
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS	34 34 35 36 37
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION	34 3! 3! 36 31
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE	34 35 35 37 37 38 39
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS	34 35 35 36 36 38
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS PROPELLER	34 35 35 37 36 46 47
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS	34 35 36 37 36 37 36 40 41 42
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS PROPELLER ANTICORROSION ANODES	34 35 35 36 37 36 40 41 42 42
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS PROPELLER ANTICORROSION ANODES BONDING WIRES BATTERY TROUBLE CHECK CHART	34 35 36 36 37 36 40 42 42 42
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS PROPELLER ANTICORROSION ANODES BONDING WIRES BATTERY TROUBLE CHECK CHART ENGINE MAINTENANCE AND INSPECTION SCHEDULE	34 35 36 36 36 46 42 42 42 42 44
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS PROPELLER ANTICORROSION ANODES BONDING WIRES BATTERY TROUBLE CHECK CHART ENGINE MAINTENANCE AND INSPECTION SCHEDULE INSTALLATION	34 35 36 36 36 46 42 42 45 45 45
SPECIAL OPERATING CONDITIONS MAINTENANCE ENGINE EMISSIONS INFORMATION 10-HOUR INSPECTION OFF-SEASON STORAGE PRE-SEASON SERVICE CRANKCASE OIL ADJUSTMENTS LUBRICATION BREATHER AND FUEL LINE SPARK PLUGS PROPELLER ANTICORROSION ANODES BONDING WIRES BATTERY TROUBLE CHECK CHART ENGINE MAINTENANCE AND INSPECTION SCHEDULE	34 35 35 36 37 38 40 42 42 42 44

GENERAL INFORMATION

SAFETY — THE RIGHT PLACE TO GET STARTED

This Operator's Guide contains essential information to help prevent personal injury and damage to equipment. It will acquaint the operator and passengers with the Evinrude/Johnson outboard and its controls, operation, maintenance and boating safety measures. Make sure all operators read, understand and follow the contents. This Guide should be kept in a waterproof bag with the product at all times during operation. If the product owner-ship is transferred, this Guide should be forwarded to the subsequent owners.

This Operator's Guide uses the following signal words identifying important safety messages. These safety alert signal words mean:

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



DANGER



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



WARNING



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



CAUTION



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

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

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.

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 Hot-1-800-368-5647. Outside North America please contact your Dealer or distributor for details about boating safety.

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! Failure to follow this safety information and safe boating rules could result in injury to you, your passengers or other water users.



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

SAFETY MEASURES — Operation



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.



All safety equipment and personal flotation devices must be in good condition and suitable for your type of boat. Always comply with the regulations that apply to your boat.



Contact with rotating propeller is likely to result in serious injury or death. Do not allow anyone near a propeller, even when the engine is off. Propeller blades can be sharp and can continue to turn even after the engine is shut off. Always shut off the engine when boat is near people in the water.

Whenever running the engine, assure there is proper ventilation to avoid 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.

Proceed with caution and at very low speed in shallow water. Grounding or abrupt stops may result in injury. 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.

Avoid standing up or shifting weight suddenly in light weight boats.

Keep your passengers seated in seats. The boat's bow, gunwale, transom and seat backs are not intended for use as seats.

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

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.

Now the marine traffic laws and obey them.

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.

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

High performance boats have a high powerto-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.

↑ For more information, see your *Evinrude/*Johnson Dealer for a copy of Introduction to

High Performance Boating, P/N 335763.

SAFETY MEASURES — Installation and Maintenance

Outboard Installation

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.

Maintenance

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 Engine Maintenance and Inspection Schedule.

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



WARNING



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.

Bombardier Recreational Products (BRP) reserves the right to make changes at any time, without notice, to features, specifications and model availability. The right is also reserved 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. The continuing accuracy of this Guide cannot be guaranteed.

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

Owner's Identification

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

Outside North America — 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

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

Outside North America — Report the theft to the Bombardier Recreational Products distributor where the outboard was registered.

Technical Literature

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

Declaration of Conformity

BRP 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.

BRP LIMITED WARRANTY FOR 2006 JOHNSON 4-STROKE OUTBOARD ENGINES SOLD IN THE UNITED STATES AND CANADA

1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP") warrants its 2006 *Johnson*® 4-stroke outboard engines sold by authorized *Johnson* dealers in the fifty United States and Canada ("Product") from defects in material or workmanship for the period and under the conditions described below.

2. WARRANTY COVERAGE PERIOD

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

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

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

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

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

3. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only on *Johnson* 4-stroke outboard engines purchased as new and unused from a dealer authorized to distribute *Johnson* products in the country in which the sale occurred ("Dealer"), and then only after the BRP specified pre-delivery inspection process has been completed and documented by the purchaser and Dealer. Warranty coverage only becomes available upon proper registration of Product by Dealer or owner.

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

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

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 BRP.

5. WHAT BRP WILL DO

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

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

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

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, propeller bushings and spark plugs;
- Damage caused by improper or lack of installation, maintenance, winterization and/or storage, failure to follow the procedures and recommendations in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, or modification, or use
 of parts or accessories not manufactured or approved by BRP, which in its reasonable judgment, are
 either incompatible with Product or adversely affect its operation, performance, or durability, or resulting
 from repairs done by a person that is not an authorized Dealer;
- Damage caused by abuse, misuse, abnormal use, neglect, racing, improper operation or operation of the Product in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damage resulting from external damage, accident, submersion, water ingestion, fire, theft, vandalism or any act of God;
- Operation without proper fuel, oil or lubrication or with fuels, oils or lubricants which are not suitable for use with the Product (see the Operator's Guide);
- · Damage resulting from rust or corrosion;
- Damage caused from cooling system blockage by foreign material;
- Damage resulting from sand or debris in the water pump:
- Cosmetic or paint changes due to exposure to the elements.

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

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

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 BRP. BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the Products sold while this warranty is in effect.

8. TRANSFER

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

9. CONSUMER ASSISTANCE

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

Revision February 2005

BRP LIMITED WARRANTY FOR 2006 JOHNSON 4-STROKE OUTBOARD ENGINES SOLD OUTSIDE THE UNITED STATES AND CANADA

For a copy of the Limited Warranty, see your Bombardier Recreational Products Inc. ("BRP") distributor/dealer authorized to distribute *Johnson* 4-Stroke products in the country in which the sale occurs.

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

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

Your *Johnson* 4-stroke outboard has a special environmental label required by the California Air Resources Board. The label has one, two, three, or four stars. A hangtag, provided with your outboard, describes the meaning of the star rating system.

The Star Label means Cleaner Marine Engines









The Symbol for Cleaner Marine Engines:

Cleaner Air and Water

For a healthier lifestyle and environment.

Better Fuel Economy

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

Longer Emission Warranty

Protects consumer for worry free operation.

One Star - Low Emission

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

Two Stars - Very Low Emission

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

Three Stars - Ultra Low Emission

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

Four Stars - Super Ultra Low Emission

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

For more information: Cleaner Watercraft - Get the Facts

1-800-END-SMOG www.arb.ca.gov

YOUR EMISSION CONTROL WARRANTY RIGHTS AND OBLIGATION

The California Air Resources Board and BRP are pleased to explain the emission control system warranty on your *Johnson* 4-stroke outboard. In California, new outboard engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. BRP must warrant the emission control system on your outboard for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your outboard.

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

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

Manufacturer's Limited Warranty Coverage

This emission limited warranty covers *Johnson* 4-stroke outboards certified and produced by BRP for sale in California, that are originally sold in California to a California resident, or subsequently warranty-registered to a California resident. The BRP U.S. and Canada limited warranty conditions for *Johnson* 4-stroke outboards are still applicable to these models with the necessary modifications.

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

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

Parts covered are:

Component	Carbureted	SPFI
Thermostat	X	X
Electrical System		
Engine/Ignition Control Module	X	X
Spark Plugs, Boots, and/or Wires	X	X
Ignition Coils	X	X
Wiring Harness	X	X
Exhaust System		
Engine Holder	X	Х
Oil Pan	X	X
Exhaust Housing	X	Х
Exhaust Valves	X	Х
Fuel System		
Fuel Pump(s)	X	Х
Fuel Injectors		Х
Vapor Separator		X
Carburetor and Internal Parts	X	
Accelerator Pump	X	
Choke System	X	
Crankcase Ventilation System Components	X	Х
Fuel Lines, Fittings, Clamps	X	Х
Air Induction System		
Timing Chain/Belt and Tensioner	X	Х
Camshaft and Followers	Х	Х
Intake Valves	Х	Х
Electronic Dash Pot System		Х
Throttle Body Assembly		Х
Idle Air Control		Х
Closed Throttle Position Switch		Х
Throttle Linkage	X	Х
Intake Manifold	Х	Х
Sensors		
Air Temperature Sensor		Х
Cam Position Sensor		Х
Crankshaft Position Sensor	X	Х
Throttle Position Sensor		Х
Exhaust Temp Sensor		Х
Intake Manifold Pressure Sensor		X
Cylinder Temperature Sensor	X	X
Gaskets		
All Emission Component Gaskets	X	X
•		

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

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

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

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

Owner's Warranty Responsibilities

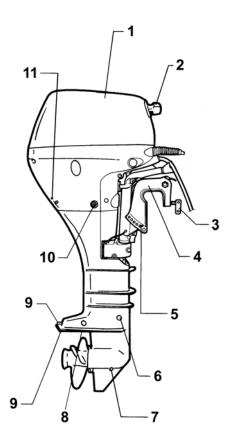
As the outboard owner, you are responsible for the performance of the required maintenance listed in your Operator's Guide. BRP recommends that you retain all receipts covering maintenance on your outboard, but BRP cannot deny warranty solely for the lack of receipts or your failure to ensure the performance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

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

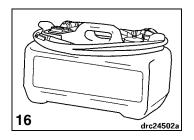
You are responsible for presenting your outboard to an authorized BRP dealer as soon as a problem exists. The warranty repairs will be completed in a reasonable amount of time, not to exceed 30 days.

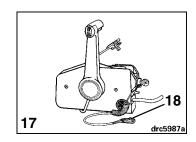
For any questions regarding your warranty rights and responsibilities or for the name and location of the nearest authorized BRP dealer, contact BRP Customer Support Services, 250 Sea Horse Drive, Waukegan, IL 60085, 1-847-689-7090 or visit **www.johnson.com**.

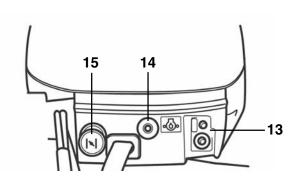
FEATURES

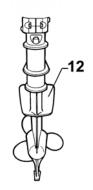


Item	Description	Item	Description
1	Motor Cover	7	Lubricant Drain/Fill Plug
2	Starter Handle	8	Water Intake
3	Clamp Screw	9	Anti-Corrosion Anodes
4	Clamp Bracket	10	Engine Oil Drain Plug
5	Angle Adjustment Rod	11	Water Pump Indicator
6	Lubricant Level Plug		









Item	Description	Item	Description
12	Anti-Ventilation Plate	16	Fuel Tank
13	Fuel Connector	17	Remote Control (1)
14	Low Oil Pressure Light	18	Emergency Stop Switch Lanyard and Clip
15	Choke Knob		

(1) Not supplied in all marketing areas

ENGINE SPECIFICATIONS

9.9 Models	
Displacement	18.4 cu. in. (302 cc)
Engine Type	Four-Cycle, In-line, 2 Cylinder
Full Throttle Operating Range	9.9 - 4500 to 5500 RPM
Power ⁽¹⁾	9.9 - 9.9 HP (7.3 kw) @ 5000 RPM
Idle RPM in Gear ⁽²⁾	1000 ± 50
Ignition Timing – Idle ⁽¹⁾ W.O.T.	Not Adjustable Not Adjustable
Exhaust Emission Control System: per SAE J1930 ⁽¹⁾	EM (Engine Modification)
Fuel Requirements (1)	87 Pump Posted AKI (90 RON) – Refer to Fuel and Oil
Crankcase – Oil Capacity Filter	Evinrude/Johnson Ultra™ 4-Stroke synthetic blend oil 33 fl. oz. (1 liter) See Your Dealer
Warning Signals	Low Oil Pressure
Starting	Remote Electric
Battery, Minimum (3)	360 CCA (465 MCA) with 90 Minutes Reserve Capacity OR 50 Ampere-Hour, 12 Volt
Spark Plug ⁽¹⁾ Torque	Refer to ECI Label 11 to 14 ft. lbs. (15 to 19 N·m)
Gearcase - Lubricant Capacity	Evinrude/Johnson Ultra-HPF™ gearcase lubricant 5.7 fl. oz. (107 ml)
Propeller	9-1/4 x 9 in.
Fuel Tank (3)	Capacity – 3 U.S. gallons (11.4 liters)
Weight	EL - 104.7 lbs. (47.5 kg)
Transom Height	EL - 19-1/2 to 20 in. (495 to 508 mm)
Sound at Driver's Ear (L _{pA}) ICOMIA 39.94	9.9 - 79.6 dB(A)

- (1) Rated following the standards of ICOMIA 28.83, ISO 3046, and NMMA.
- (2) Emission Control Information.
- (3) Not supplied in all marketing areas.



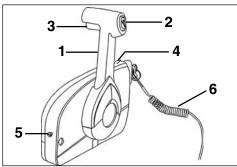
WARNING



If you choose a non-Evinrude/Johnson remote control, be sure it has a start-in-gear prevention feature. This feature can prevent injuries resulting from unexpected boat movement when the engine starts.

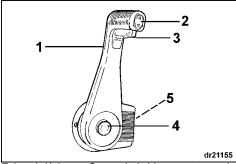
IMPORTANT: When selecting the remote control system for your boat, specify *Evinrude/Johnson* components. *Evinrude/Johnson* offers remote controls, cables and wiring kits designed specifically for your *Evinrude/Johnson* outboards. *Evinrude/Johnson* controls deliver the cable stroke your outboard needs for positive shift and throttle control, and they incorporate such safety and convenience features as:

- Start-in-gear prevention
- Plug-in compatibility with Evinrude/Johnson modular wiring system



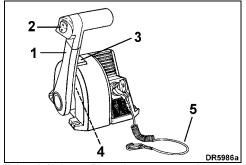
Evinrude/Johnson Redesigned side mount control

- 1. Handle shift and throttle
- 2. Trim/tilt switch (where equipped)
- Neutral lock tab
- 4. Fast idle lever
- 5. Throttle friction control
- 6. Emergency stop clip and lanyard



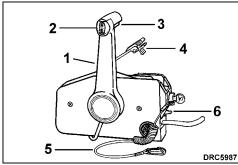
Evinrude/Johnson Concealed side mount control

- 1. Handle shift and throttle
- 2. Trim/tilt switch (where equipped)
- 3. Neutral lock tab
- 4. Fast idle button
- 5. Throttle friction control



Evinrude/Johnson Binnacle mount control

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



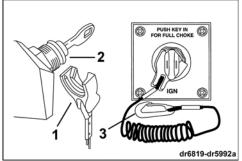
Evinrude/Johnson Side mount control

- Handle shift and throttle
- Trim/tilt switch (where equipped)
- Neutral lock tab
- 4. Fast idle lever
- 5. Emergency stop clip and lanyard
- Throttle friction control

Emergency Stop/Key Switch

A combination emergency stop switch and key switch is a feature of *Evinrude/Johnson* prewired remote controls and all *Evinrude/Johnson* 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. Follow the normal starting procedure. Reinstall a clip as soon as possible.



- Clip
- 2. Emergency stop / key switch
- 3. Lanyard



WARNING



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.

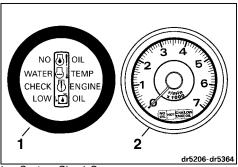
At each outing, test the system's operation. With the engine running, remove the clip from the switch by pulling the lanyard. If the engine does not stop running, see your Dealer.

ENGINE MONITORING

IMPORTANT: Your outboard must be equipped with the *System Check*® (or equivalent) engine monitor. Operating your outboard without the *System Check* (or equivalent) 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 key switch is turned OFF.



- 1. System Check Gauge
- 2. System Check Gauge with Tachometer

"WATER TEMP" or HOT

The engine is overheating. Serious engine damage can occur quickly.

If the engine is overheating, it will also limit engine speed to 2000 RPM. This additional protection feature is referred to as *S.L.O.W.*TM If the engine was running faster than 2000 RPM when the *S.L.O.W.* system activated, it will shake noticeably.

IMPORTANT: Refer immediately to **Engine Overheating**.

"NO OIL" or "LOW OIL"

If, during operation, your engine begins vibrating noticeably and will not exceed 2000 RPM (fast idle), the low oil pressure warning might have been activated. The engine's warning system automatically limits its RPM when crankcase oil pressure falls below what the engine requires.

Oil pressure can fall due to operating conditions such as rough seas. or it can fall in response to insufficient supply of oil. Once the engine's warning system has been activated, you must take appropriate action to restore adequate oil pressure and reset the warning system before the engine can operate normally.

For information about evaluating low oil pressure and possible "on-the-water" fixes, refer to **Low Oil Pressure Warning**.

FUEL AND OIL

FUEL

\triangle

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.

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.

Your outboard is certified to operate on unleaded automotive gasoline with an octane rating equal to or higher than that specified in **Minimum Octane** chart. When using gasoline that contains MTBE or alcohol, follow these guidelines:

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

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

Minimum Octane

Inside the U.S.

87 (R+M)/2 AKI

Outside the U.S. 90 RON
Your outboard has been designed to operate using

the above fuels; however, be aware of the following:
The boat's fuel system may have different require-

ments 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 can cause engine performance problems.

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



WARNING



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.

Your 4-stroke engine requires oil in the crankcase. Evinrude/Johnson Ultra 4-Stroke synthetic blend oil is recommended for this outboard engine. It allows for extended oil change intervals and is best for high load applications. Evinrude/Johnson Ultra 4-Stroke synthetic blend oil delivers ultra vis-

gine. It allows for extended oil change intervals and is best for high load applications. Evinrude/Johnson Ultra 4-Stroke synthetic blend oil delivers ultra viscosity stability, sludge protection, friction reducing properties, and superior corrosion protection.

If Evinrude/Johnson Ultra 4-Stroke synthetic blend

If Evinrude/Johnson Ultra 4-Stroke synthetic blend oil is unavailable, you may use Evinrude®/Johnson® 4-Stroke outboard oil. This oil provides excellent wear and corrosion resistance under normal operating conditions. For your engine's oil capacity, refer to Engine Specifications.

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

ADDITIVES

IMPORTANT: Only use fuel additives approved by BRP for your outboard. Use of other fuel additives can result in poor performance or engine damage.

Evinrude/Johnson 2+4 fuel conditioner will help prevent gum and varnish deposits from forming in fuel system components and will remove moisture from the fuel system. It can be used continuously and should be used during any period when your engine is not being operated on a regular basis. Its use will reduce spark plug fouling, fuel system icing, and fuel system component deterioration.

∴ WARNING



If your motor is equipped with a quick-disconnect fuel hose, disconnect the fuel hose from the motor and from the fuel tank when the motor is not being used for a period of time. Disconnecting the hose will avert fuel leaks in the hose or at the engine.

IMPORTANT: Fuel distribution hoses in the boat must deliver fuel at the rate of flow needed by the engine. Minimum inside diameter of fuel hoses must be 5/16 in. (8 mm).

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

To avoid difficulty when restarting, never run the engine with the fuel hose disconnected, or run the engine out of fuel.

BREAK-IN (10 HOURS)

IMPORTANT: 4-Stroke outboards are shipped without oil in the crankcase. You must add oil to the crankcase before starting the engine for the first time. It is recommended you add *Evinrude/Johnson* 4-Stroke outboard oil. Refer to **Changing** the Oil for acceptable substitute lubricants.

Follow this procedure to protect your new outboard during its initial hours of operation. Careful break-in allows internal engine components to "seat" properly, resulting in maximum engine performance.

Failure to carefully follow the break-in procedures can result in engine damage.

High speed operation without sufficient engine warm-up can result in engine damage.

Perform the **10-Hour** break-in procedure with the boat and engine in the water, using an appropriate propeller.

 $\ensuremath{\mathsf{DO}}$ NOT perform break-in using a flushing device.

DO NOT start-up or run the engine out of water. DO NOT leave a running engine unattended.

IMPORTANT: Before the start-up of your new en-

- Read Engine Starting, Engine Stopping and Speed Control.
- Check the crankcase oil level. Refer to Crankcase Oil.
- · Perform prelaunch checks of all equipment.

gine:

Check the gearcase lubricant level. Refer to Lubrication.

Launch the boat and start the engine according to the procedures in **Engine Starting**.

- Verify water pump operation often. Look for a steady stream of water from the water pump indicator. If the stream of water stops, shut off the engine to prevent damage. Find and correct the cause, or see your Dealer before you continue.
- Verify shift function by shifting into gear and observing that the boat moves and that the movement is in the same direction as the shifter.
- Change the RPM often. Avoid holding a throttle setting longer than 15 minutes.
- Check the crankcase oil level often. Add oil if needed.

First 10 minutes of operation — Run the engine in gear at idle only.

Balance of First 2 hours of operation — Operate in gear below 3500 RPM or 1/2 throttle only.

With easy planing boats, use full throttle to quickly accelerate boat onto plane. Immediately reduce throttle to one-half as soon as the boat is on plane. BE SURE boat remains on plane at this throttle setting.

Third hour of operation — Run the engine in gear at various speeds up to 4000 RPM or 3/4 throttle only.

Balance of first 10 hours of operation — Run the engine in gear at various engine speeds including full throttle, but remain at full throttle no longer than 5 minutes.

Change the engine speed every 15 minutes.

DO NOT exceed recommended maximum engine RPM. Refer to **Engine Specifications**.

ENGINE STARTING



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.



WARNING



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



WARNING



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.

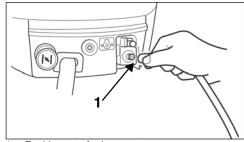
BEFORE START-UP

Verify crankcase oil level before start-up. Refer to Crankcase Oil.

Review and follow **Break-In (10 hours)** if the engine is new.

You MUST supply water to the engine before attempting to start it. Engine damage can occur quickly. Refer to Engine Overheating or Flushing. Be sure the engine is in the normal operating position. Refer to Tilting.

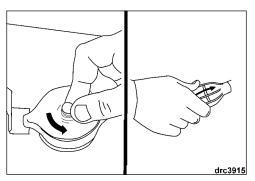
Connect the fuel hose to the fuel connector.



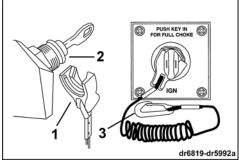
Fuel hose to fuel connector

If equipped, open vent screw on fuel tank's filler cap.

Squeeze fuel primer bulb, outlet end up, until firm.



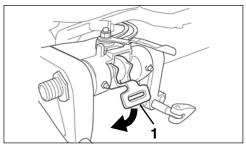
Connect the clip to the emergency stop/key switch. Snap the lanyard to a **secure** place on the operator's clothing or life vest — not where it might tear away instead of activating the stop switch.



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

IMPORTANT: The engine will start and run without the clip connected to the key switch. However, we strongly recommend that the operator use the clip and lanyard anytime the engine is running. Refer to **Emergency Stop/Key Switch**.

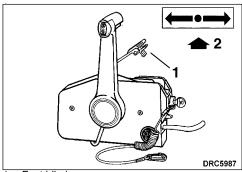
Move the tilt lock lever to the LOCK position.



Tilt lock lever – LOCK position

Move the remote control handle to NEUTRAL. Refer to **Shifting and Speed Control**.

Raise the fast idle lever. The higher you raise the fast idle lever, the faster the motor will idle in NEUTRAL.



- Fast idle lever
- 2. NEUTRAL



WARNING

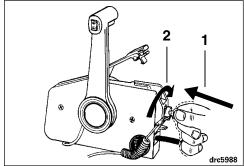


Always shift to NEUTRAL before starting the engine to prevent sudden boat movement, which can cause injury.

Start-up (Cold Engine)

Starting a cold engine normally requires use of the engine primer. To activate the primer, steadily PUSH/HOLD the key switch IN while cranking or running the engine.

With the fast idle lever up, activate the primer while turning the key switch to the START position. Crank the engine no longer that 10 seconds. Release the key upon start-up and quickly adjust the fast idle lever if the engine overspeeds.



PUSH to activate primer

2. START

IMPORTANT: The starter motor can be damaged if operated continuously for more than 10 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**. If the warning system fails to self-test during start-up, see your Dealer.

BEFORE cranking your engine, connect the battery as instructed in **Battery**.



WARNING



Do not connect electrical equipment to the engine's charging system. The connected equipment and the engine could both be damaged.

If your outboard does not react normally to this starting procedure or it fails to start, refer to **Trouble Check Chart**.

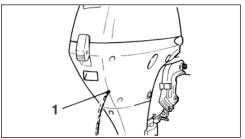
After Engine Starts

DO NOT turn the key switch to START while the engine is running. Damage to the starter system could result.

Allow the engine to idle in NEUTRAL for about 5 minutes to warm up before shifting.

IMPORTANT: To avoid engine damage after startup do not exceed 2000 RPM in NEUTRAL. Do not exceed 1500 RPM in NEUTRAL for extended periods of time.

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**.



1. Water pump indicator

ENGINE STOPPING

Move control handle to NEUTRAL.

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

To avoid difficulty when restarting, never stop the engine by running it with the fuel hose disconnected or otherwise running it out of fuel.

SHIFTING AND SPEED CONTROL

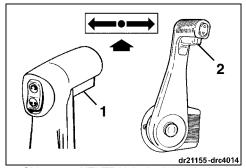
IMPORTANT: Carefully check the function of all control and engine systems before leaving the dock. DO NOT shift the engine into FORWARD or REVERSE while it is shut off. If the following directions are not suitable for your boat's control, see your Dealer before proceeding.

Shifting

With engine running and control handle in NEUTRAL:

Side Mount and Concealed Side Mount Control

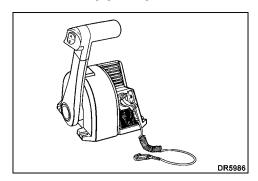
Unlock the control handle (lift the neutral lock tab by squeezing the hand grip). Briskly and decisively, move the control handle fore or aft — until it engages the gear detent.



- 1. Side mount NEUTRAL lock tab hand grip
- 2. Concealed side mount NEUTRAL lock tab hand grip

Binnacle Mount Control

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



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

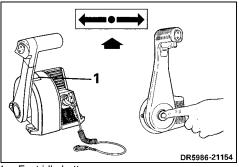
After gear engagement, move the control handle slowly in the same direction to increase speed.

Fast Idle in NEUTRAL

Concealed Side Mount and Binnacle Mount Controls

IMPORTANT: Avoid excessive engine RPM in NEUTRAL — adjust the throttle so the engine does not overspeed.

With the control handle in NEUTRAL, push the fast idle button while using the other hand to move the control handle forward, past the forward gear detent and into the throttle range. If equipped with a neutral lock tab, squeeze it to begin handle travel.



1. Fast idle button

When ready to shift, move the control handle back to NEUTRAL. Engine speed will reduce and the shift function will automatically engage for movement into FORWARD or REVERSE.

EMERGENCY STARTING



WARNING



When using Emergency Starting procedures, the start-in-neutral-only feature is inoperative. Make sure shift lever is in NEUTRAL position to prevent injuries from unexpected boat movement when the engine starts.

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.

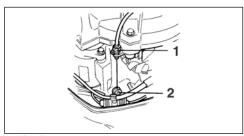
If the electric starter fails or the battery's voltage is too low to power the starter, use the cord from the tool kit and these instructions to start your engine manually.

IMPORTANT: The battery must have enough reserve voltage to activate the electric pump or the engine will not start using the emergency starting procedures. Do your best to determine battery status by listening for the electric fuel pump audible cycle before continuing the emergency starting procedures. The electric fuel pump cycles each time the key switch is turned from OFF to ON.

Place key switch in OFF position with the motor in normal operating position. Refer to **Tilting**.

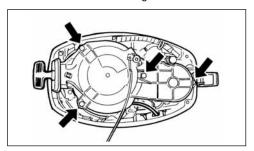
Move the control handle to NEUTRAL, then remove engine cover.

Loosen the lock nut. Remove the cable from the bracket. Separate end of cable from the cam.



- Locknut
- 2. Cam

Remove four screws securing the manual starter.

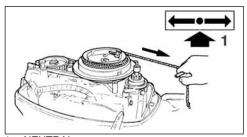


Tie a knot in one end of the emergency starter cord. Thread the small bar from the tools kit halfway through one knot so it forms a handle.

Connect clip to the emergency stop switch/stop button.

Place knot of starter cord in notch on flywheel pulley. Wrap cord around pulley clockwise.

Follow the starting procedure in **Engine Starting**. While seated, pull hard on emergency starting cord quickly and completely. Repeat, if necessary.



1. NEUTRAL

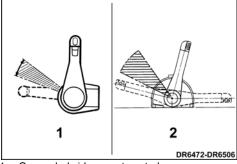
After starting, run the engine in NEUTRAL with the throttle at the START position for two minutes. Then reduce speed to an idle.

DO NOT attempt to replace manual starter or engine cover while engine is running. If equipped, attach emergency stop switch's lanyard to a secure place on your clothing.

Proceed to nearest harbor for service.

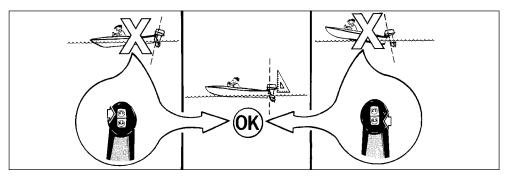
FUEL ECONOMY

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 without a noticeable loss of speed.



- . Concealed side mount control
- 2. Binnacle mount control

OPERATION





DANGER

 \wedge

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.



WARNING



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.

MOTOR ANGLE ADJUSTMENT

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

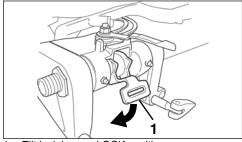
Place motor in full tilt position. Refer to **Tilting**. Move angle adjusting rod as shown.

TILTING

IMPORTANT: Use the tilt grip to tilt your motor. Do not use the tiller handle to raise or lower the motor.

Tilt Lock Lever

The tilt lock lever has two positions: The down LOCK position and the up RELEASE position.



1. Tilt lock lever - LOCK position

LOCK Position (DOWN)

Use the LOCK position when operating in RE-VERSE and in normal deep water operation where there is no likelihood of striking underwater objects. Placing the tilt lock lever in the LOCK position prevents the motor from lifting out of the water due to forces such as propeller thrust during operation in REVERSE or rapid deceleration.



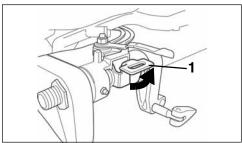
CAUTION



If you strike an underwater object with tilt lock lever in the LOCK position, severe damage may result, even though the force may be sufficient to release the tilt lock. When operating the motor in an area where you may encounter underwater objects, move the tilt lock lever to the RELEASE position and operate the motor only at very low speeds.

RELEASE Position (UP)

Use the RELEASE position in FORWARD when you are unsure of depth or concealed objects. Placing the tilt lock lever in the RELEASE position allows the motor to tilt up if you strike an underwater object, reducing the chance of damage to the motor. Refer to **Shallow-Water Drive** for details on shallow water operation.



Tilt lock lever – RELEASE position



CAUTION



When you operate the motor with the tilt lock lever in the RELEASE position, forces such as propeller thrust during operation in REVERSE, rapid deceleration, and striking an underwater object can cause the motor to lift out of the water, resulting in personal injury. To avoid such injury, use the RELEASE position only for shallow water operation, and operate the motor with caution, and only at very low speeds.

Tilt Support

The tilt support is used to hold the motor in the fully tilted up position.

IMPORTANT: DO NOT use the tilt support while trailering. Refer to **Trailering**.

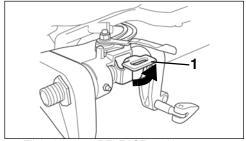


WARNING



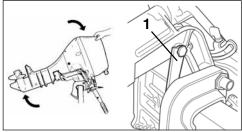
DO NOT place your hands near the mounting bracket or under the motor when tilting, or they could be crushed if the motor slips from your grasp.

Move the tilt lock lever to the RELEASE position.



Tilt lock lever – RELEASE position

Grasp tilt grip on engine cover and tilt motor to the full tilt position. Tilt support will automatically engage.



1. Tilt support



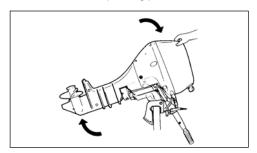
WARNING



Disconnect the fuel line whenever you leave the motor tilted up for a long period of time, or fuel may leak out.

Tilt Down

Grasp tilt grip on engine cover and raise motor slightly. The tilt support will disengage. Slowly lower motor to its normal operating position.



SHALLOW-WATER DRIVE

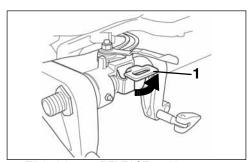
The motor's depth in shallow-water drive is controlled by the position of the motor angle adjusting rod. Relocate the motor angle adjusting rod if necessary. Refer to **Motor Angle Adjustment**.

Slow the engine and shift to NEUTRAL before engaging or disengaging shallow-water drive.



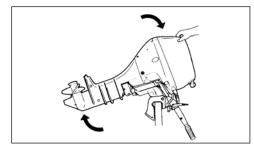
When using the Shallow-Water Drive Bracket, the Tilt Lock feature will not work. Operate your motor in FORWARD and ONLY at slow speed. The motor can tilt up forcibly and drop suddenly if it hits an underwater object or if you shift to REVERSE and apply throttle. You could lose control.

Move the tilt lock lever to the RELEASE position.



1. Tilt lock lever – RELEASE position

Tilt the motor up until you hear a "click" sound and it is held in the fully tilted up position.



Slowly, lower motor until shallow-water drive bracket rests against angle adjusting rod.

IMPORTANT: Check often that water intakes are completely submerged and the water pump indicator is discharging a steady stream of water.

MOORING

You may moor your boat with the motor's gearcase out of the water by using its tilt feature. Depending on the model, refer to **Tilting**.



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.

See your Dealer for a flushing device designed to fit your engine. Follow manufacturer's instructions for installing and using it.



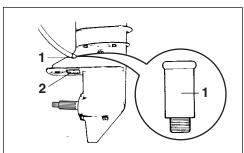
WARNING



Prevent injury from contact with rotating propeller; remove the propeller before flushing.

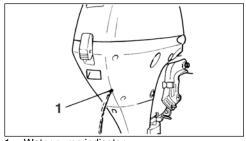
Outboard — Running

- Place the engine in vertical position in a wellventilated area with good drainage.
- 2) Install flushing device and garden hose.
- 3) Cover the water intake hole with tape.
- 4) Place the shift lever in NEUTRAL with the propeller removed.
- 5) Start the water keep pressure between 20 to 40 psi (140 to 300 kPa).



- 1. Flushing device
- 2. Tape

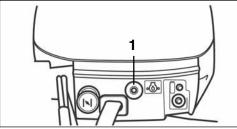
6) Start the engine — run it at idle only and flush it for at least five minutes. Check the water pump indicator. A steady stream of water must flow. If it does not, shut OFF the engine and investigate. Refer to Engine Overheating.



- 1. Water pump indicator
- Leave the outboard in vertical position long enough to completely drain the powerhead.

LOW OIL PRESSURE WARNING

Should crankcase oil pressure drop to a dangerously low level during engine operation, the low oil pressure light will come on.



Low oil pressure light

If the low oil pressure light is on, the engine speed will not exceed 2000 RPM (FAST idle).

If, during operation, your engine slows itself to fast idle and will not exceed that pace, shut OFF the engine.

If tilted, place the engine in vertical position.

Check the oil level on the dipstick and add oil, if needed. Refer to **Crankcase Oil** and **Engine Specifications**.

Examine the oil fill cap and drain screw for evidence of oil leakage and make sure they are tight.

If the dipstick shows the oil level is okay, leave the engine upright and shut off for ten minutes, then start it. If the engine still limits itself to about 2000 RPM, see your Dealer.

Reset - After oil pressure has been restored, operate the engine below 1500 RPM to reset the warning system for normal operation.

The light will come on for a few seconds after the engine starts. This verifies the warning system is working.

If the light does not come on, stop the engine and see your Dealer.

If the light stays on, check the engine oil level and add oil if necessary.

If the oil level is correct, see your Dealer.

IMPORTANT: If you operate the engine with this light on, severe engine damage can result.

IMPORTANT: Do not rely on the low oil pressure light to indicate the need to add oil. Be sure to periodically check the engine oil level. If the oil level is low, severe engine damage can result.

OVER-REVOLUTION LIMITING SYSTEM

This system is activated when engine speed exceeds maximum recommended speed for more than 10 seconds.

If this system activates, engine speed will automatically be reduced to approximately 3000 RPM.

This system must be reset by moving the throttle to the idle position for about one second to restore full engine operation.

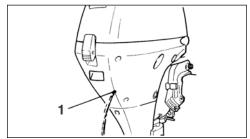
IMPORTANT: The Over-Revolution Limiting System will not be activated at recommended maximum throttle unless propeller pitch is insufficient or other factors (like "over-trimming" or "ventilation") prevail.

If the system activates for no apparent reason, see your Dealer.

ENGINE OVERHEATING

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

While boating, the engine's water intake must stay completely submerged and unobstructed. Observe proper transom height and trim angle. While the engine is running, the engine's water pump indicator must discharge a steady stream of water. Check the indicator often, especially when operating in weeds, muddy and debris-laden water, at extreme trim angles, or in shallow water drive (if equipped).



Water pump indicator

If the stream from the water pump indicator becomes intermittent or stops, reduce speed to idle and:

Shift to NEUTRAL:

SHUT OFF the engine:

Tilt the motor up;

Clean the intake screen of any blockage:

Clean the water pump indicator of any blockage;

Lower the motor; and

Restart the engine and run at idle.

IF cleaning the screen and indicator does not restore the water pump indicator's steady discharge, SHUT OFF the engine and do not attempt to operate it. See your Dealer.

IF cleaning the screen and indicator does restore the water pump indicator's steady discharge, continue to idle the engine until it cools.

IMPORTANT: You must restore cooling to the engine to avoid serious engine damage.

After any overheat, have your Dealer:

Torque the cylinder head screws.

Inspect the water pump for excessive wear or damage.

Inspect the thermostats.

Inspect the engine for leaks.

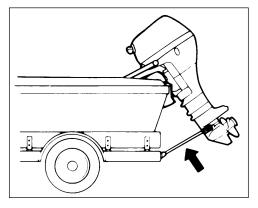
Check engine oil level.

TRAILERING

Trailer your boat with the motor in a vertical position. If your trailer does not provide adequate road clearance, the motor can be trailered by using an accessory trailering bracket. See your Dealer.

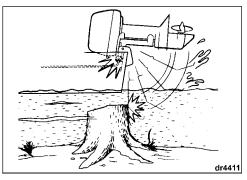
DO NOT use the tilt support when trailering.

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

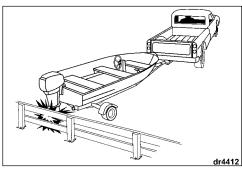


IMPACT DAMAGE

Your engine has a shock absorption system designed to help withstand damage from impact with underwater objects at low to moderate speeds. However, 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 engine and injury to boat occupants from the engine or its parts entering the boat. Occupants can also be ejected or injured by falling against portions of the boat as a result of rapid deceleration following impacts. When boating in unfamiliar, shallow, or debris-laden waters, seek information on safe boating areas and navigation hazards from a reliable local source. Reduce your speed and keep a sharp lookout!



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



If you hit any object, stop immediately and examine the engine for loosening of attaching hardware and clamp screws, if equipped. Inspect for damage to swivel and stern brackets, steering components, and components in the area of impact. Also, 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 could result in sudden, unexpected component failure, loss of boat control, and personal injury. Unrepaired damage could reduce your boat and engine's ability to resist future impacts.

STORING

If you must tilt the motor 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 motor in a vertical position.

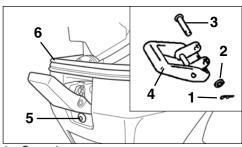
For recommendations on extended periods of storage, refer to **Off-Season Storage**.

CARRYING AND TRANSPORTING

If you will be laying the engine down, minimize the potential for fuel spillage by letting it run "out of gas" before you remove it from the boat. Disconnect the fuel hose at the engine while it is still running. Let it run until it quits.

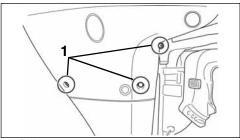
Remove the engine cover.

Remove the snap pin, washer, pin, and fastener from the engine cover latch. Also remove the screw below the latch. Finally, remove the engine cover grommet.



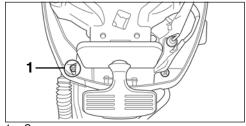
- 1. Snap pin
- Washer
- 3. Pin
- 4. Fastener
- 5. Screw
- Grommet

Remove the three side engine cover bolts.



1. Bolts

Remove the screw and the starboard engine side cover.

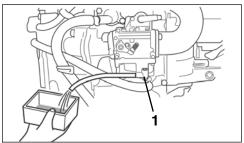


1. Screw

Loosen the carburetor drain screw and drain the gasoline into a suitable container. After draining, retighten the drain screw.



Use a proper, safe container to store any gasoline drained from the outboard motor.



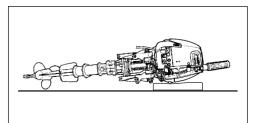
Carburetor drain screw

After removing the engine from the boat, position it upright until the cooling system stops draining.

Keep the powerhead higher than the gearcase at all times, or any water remaining in exhaust passages could travel to the cylinders and cause serious damage.

IMPORTANT: Do not rest the engine before the cooling water has drained completely, as water may enter the cylinder through the exhaust port and cause problems.

Raise the tiller handle and rest it on a padded surface on its **port** side. Protect the engine cover from damage.



IMPORTANT: Do not let the gearcase of the outboard sit higher than the powerhead during transporting or storing. Water may drain into the powerhead, causing damage to the engine.

SPECIAL OPERATING CONDITIONS

Salt Water

Flush the engine internally after use in salt, polluted, or brackish water to help prevent mineral deposits from clogging cooling passages. Your outboard has a built-in flushing port to facilitate flushing. Refer to **Flushing**.

During use in salt or brackish water, additional anodic protection for the boat and outboard may be required.

During long periods of mooring, tilt the gearcase out of the water — except in freezing temperatures. Upon removal from salt water, leave it in a vertical position until its cooling system has drained.

Weedy Water

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

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.

Boat Bottom and Engine External Finish

The condition of your boat's bottom affects performance. A covering of marine growth reduces speed. For maximum performance, keep the boat's running surface clean by wiping it dry after each use and washing it occasionally.

After operating your outboard, rinse it with fresh water and wipe it dry. Apply *Evinrude/Johnson* anticorrosion spray to any surface subject to corrosion, but avoid the anticorrosion anode(s).

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.

High Altitude

If you boat at altitudes above 3000 ft. (900 m), your engine might benefit from a lower pitched propeller, different carburetor calibration, or both. See your Dealer.

IMPORTANT: To avoid permanent powerhead damage, be sure that an engine modified for high altitude operation is properly identified and returned to original calibration and propeller size if operated below 3000 ft. (900 m).

Shallow Water

IMPORTANT: Serious engine damage will occur if the gearcase is allowed to drag on the waterway bottom.

Freezing Weather

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

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

IMPORTANT: Water that has leaked into the gearcase, or remained in the cooling system or other components can freeze, causing serious engine damage.

Submerged Engine

If your engine 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.

Under Tow

Should you require a tow from another boat:

- Shift your engine to NEUTRAL;
- · Tilt its gearcase out of the water; and
- Off-load all persons into another boat.

Keep towing speed slower than planing speed.

MAINTENANCE

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.

ENGINE EMISSIONS INFORMATION

Manufacturer's Responsibility

Beginning with 1999 model year engines, manufacturers of marine engines must determine the exhaust emission levels for each engine horsepower family and certify these engines 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 engine at the time of manufacture.

Dealer's Responsibility

When performing service on all *Johnson* 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 engine 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.

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 carburetor to change horsepower or modify emission levels beyond factory settings or specifications will void the product warranty.

EPA Emission Regulations

All new 2002 and more recent *Johnson* outboards manufactured by BRP are certified to the EPA as conforming to the requirements of the regulations for the control of air pollution from new watercraft marine spark ignition engines. This certification is contingent on 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



WARNING



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 procedures could cause injury or death.

10-HOUR INSPECTION

After 10 hours of operation, your new engine will be broken in and its mechanical parts will have seated. At that time, all systems should be checked and any adjustments needed should be made.

Your Dealer will perform this 10-Hour Inspection at your request and expense (based on local rates), according to what your engine needs — refer to Engine Maintenance and Inspection Schedule, 10-Hour Inspection for a partial list.

Follow consistent preventive maintenance by having your Dealer check and service your engine once a year or after each 100 hours of operation, whichever comes first.

OFF-SEASON STORAGE

You must protect against natural environmental conditions that can be damaging to an outboard motor. Temperature and humidity changes while your outboard motor is not in use can cause corrosion of internal engine parts when they are not protected. Fuel remaining in your fuel tank and in the engine will oxidize and weather 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. We strongly recommend that you have your Dealer prepare your outboard for the off-season.

To do the off-season storage preparations yourself, gather the supplies and perform the following steps:

2+4 fuel conditioner
Triple-Guard grease
Ultra-HPF gearcase lubricant
Storage Fogging Oil spray can

Evinrude/Johnson Ultra 4-Stroke synthetic blend oil

Stabilize the engine's fuel supply with 2+4 fuel conditioner during the last hours of operation to ensure proper stabilization, following instructions on the container for mixture. Be sure to run the engine long enough for the treated fuel to reach the engine.



WARNING



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

Shift it to NEUTRAL.

Keep hands, clothes, and hair clear of powerhead.

Remove the propeller if you use a flushing device.

IMPORTANT: Provide a water supply to the engine and start it. Run the engine at idle only.

To run the engine on a flusher, refer to **Flushing**.

Oil — Start the engine and run it at least five minutes to warm the crankcase oil.

Stop the engine and drain the crankcase while the engine is warm. Refill it with *Evinrude/Johnson Ultra* 4-Stroke synthetic blend oil. Refer to **Crankcase Oil**. Restart the engine and run it for a few minutes to circulate the fresh oil.

IMPORTANT: It is very important that the bearing surfaces be coated with clean oil before entering a period of storage, so be sure you run the engine after changing the oil.

Stop the engine.

Spark Plugs — Remove and examine them. Clean or discard them, if necessary. Refer to **Spark Plugs**.

Spray *Evinrude/Johnson* Storage Fogging Oil into the spark plug holes.

Install spark plugs; tighten to specifications in Spark Plugs.

Crank the engine for a short burst to distribute the fogging oil and to drain the water from the water pump.

Fuel filter(s) — Clean or change.

Ignition, oil, and fuel systems — Check for misplaced leads and damaged or deteriorated parts. Be sure starter solenoid terminal boot and all connectors are in place.

Screws, bolts, nuts — Tighten any that are loose.

Propeller — Remove and examine. If damaged, see your Dealer. Clean the propeller shaft and lubricate it. Refer to **Propeller**.

Lubrication — Refer to **Lubrication** to drain and refill the gearcase and for lubricating points on the engine.

Touch up painted surfaces and wax the engine's exterior. Store the engine on the boat (or an engine stand) in a vertical, self-draining position.

If you cannot store the engine in the recommended vertical position, be sure the cooling system is drained completely.

IMPORTANT: Never place the gearcase higher than the powerhead. Any water remaining in the exhaust passages can run into the cylinders and cause serious damage.

If you remove an "installed" engine, examine all hardware you loosened or removed from the engine and its steering, throttle, and shift systems. Replace damaged or missing parts with *Evinrude/Johnson Genuine Parts*, or equivalent.

Portable fuel tank — Disconnect the hose from the tank. Remove the hose from the engine if the fitting is a quick-disconnect. If not, and the hose is secured to the engine, leave it connected. Secure the hose to protect it.



WARNING



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

PRE-SEASON SERVICE

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 and any steering, throttle, and shift systems. Replace damaged or missing parts with *Evinrude/Johnson Genuine Parts* or equivalent.



WARNING



Failure to carefully reattach the outboard and its control systems with factory-specified hardware can result in sudden, unexpected loss of boat control.

Engine Oil — Check the engine oil level. Refer to Crankcase Oil.

With the propeller removed, check the gearcase for leakage. If leakage is evident, the gearcase seals should be replaced. See your Dealer.

Anticorrosion anodes — Check condition. Refer to **Anticorrosion Anodes**.

Install the propeller unless you will run the engine on a flusher for your pre-season servicing. If so, install the propeller after you shut OFF the engine and disconnect the flusher. Refer to **Flushing**.

Refer to Propeller to install the propeller.



WARNING



Prevent accidental contact with a rotating propeller; always remove it when using a flusher to run the engine.

Top off fuel tank with fresh fuel.

Follow **Engine Starting** and start the engine. Let it idle while you:

Observe running quality – if poor, refer to **Trouble Check Chart** or see your Dealer.

Observe water pump operation. Water must flow from the water pump indicator in a steady stream. If it does not, shut OFF the engine and investigate. Refer to **Engine Overheating**.

Stop the engine 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.

CRANKCASE OIL

Initial Fill

IMPORTANT: 4-Stroke outboards are shipped without oil in the crankcase. You must add oil to the crankcase before starting the engine for the first time. It is recommended you add Evinrude/Johnson 4-Stroke outboard oil. Refer to Changing the Oil for acceptable substitute lubricants.

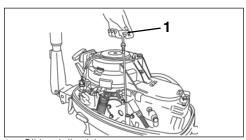
BEFORE filling the crankcase for the first time, be sure it is empty by checking the dipstick. Refer to **Checking**.

After the first 10 hours of operation, replace the break-in lubricant with *Evinrude/Johnson Ultra* 4-Stroke synthetic blend oil. Refer to **10-Hour Inspection**.

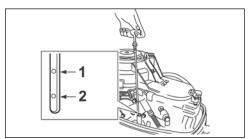
Checking

Check the oil level when the engine is cold to ensure an accurate reading.

- Place the engine in a vertical position and remove the upper engine cover.
- 2) Remove dipstick, wipe it clean, and install it.



- 1. Oil level dipstick
- Remove the dipstick again and locate the line of oil. If the line of oil is not between the ADD and the FULL marks, you must add or remove oil as indicated.



- 1. Full
- 2 Add
- Securely install the dipstick and wipe up any spilled oil.

IMPORTANT: Operating the engine with too much or too little oil in the crankcase will damage it.

Changing the Oil

Refer to Engine Maintenance and Inspection Schedule for frequency.

After the first 10 hours of operation, replace the break-in lubricant with *Evinrude/Johnson Ultra* 4-Stroke synthetic blend oil. Refer to **10-Hour Inspection**.

If Evinrude/Johnson Ultra 4-Stroke synthetic blend oil is temporarily unavailable, you may use Evinrude/Johnson 4-Stroke outboard oil or an equivalent FC-W-approved 10W-40 or 10W-50 oil.

Drain (or siphon) the old oil after running the engine to warm it. Warm oil flows more quickly and completely, containing more suspended sludge than cold oil. If you change the oil only once a season, time the work so the engine contains clean oil during storage.

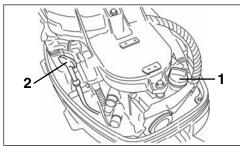
\triangle

CAUTION



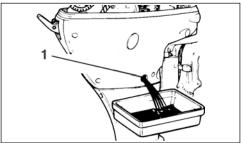
Used motor oil may be harmful. Avoid prolonged and repeated skin contact. Wash affected skin with soap and water.

- Place the engine in a vertical position and remove the upper engine cover.
- 2) Unscrew and remove the oil fill cap.

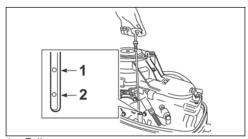


- 1. Oil fill cap
- 2. Dipstick

3) Hold a suitable container under the oil drain screw. Remove the screw and drain the reservior. Before you reinstall the screw, replace the gasket with a new one. Reinstall the screw and tighten it securely.



- Oil drain screw
- Pour the recommended oil into the oil fill until it reaches the upper mark on the dipstick. Refer to Engine Specifications for crankcase capacity.
- 3) Replace the oil fill cap and clean any spilled oil off the engine and your skin.
- Reinstall the upper cover.
- 5) Supply water to the cooling system and run the engine at idle to check for leaks, especially around the oil filter, drain screw and oil fill cap. Correct any problems.
- Stop the engine and recheck crankcase oil level using the dipstick. Add oil as indicated.



- 1. Full
- 2. Add

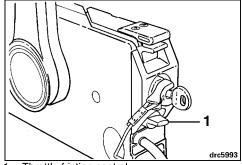
Dispose of used oil in a reasonable manner following all local regulations.

ADJUSTMENTS

Throttle Friction

Adjust throttle friction on your remote control to maintain its position and prevent unwanted throttle "creep" under normal operating conditions.

To adjust, start engine and move control handle into FORWARD throttle range. While underway, turn adjustment knob clockwise to increase friction. The friction adjustment is effective only in the FORWARD throttle range.



Throttle friction control

See your Dealer for throttle friction adjustments on your specific remote control.

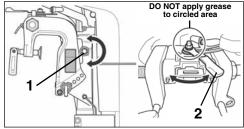
Steerina Friction

The steering friction was set on your new motor before it left the factory. After the first 10 hours of service, check to see that it is still correct; a slight drag should be felt when turning the motor. If adjustment is necessary, turn the adjustment screw:

- · Clockwise to increase friction
- Counterclockwise to decrease friction

Additionally, the steering tension lever can be adjusted. Turn the lever:

- Left to increase friction
- Right to decrease friction



- Steering friction screw
- Steering tension lever





DO NOT overtighten for "hands-off" steering. Reduced steering control could result.

LUBRICATION

Gearcase

Replace gearcase lubricant after first 10 hours of operation. Check level and condition of lubricant after next 50 hours of operation. Add lubricant if necessary.

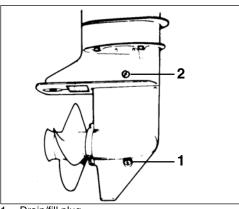
Thereafter, check level and condition of lubricant every 50 hours. Replace lubricant every 100 hours of operation or once each season, whichever occurs first. Refill with *Ultra-HPF* gearcase lubricant. If not available, *Hi-Vis*™ or other marine gearcase lube can be used, however, long term durability may be affected with continued use. See your Dealer

IMPORTANT: The recommended gear lubricants include special additives for marine applications. Do not use automotive gear lubricants, 2-stroke or 4-stroke engine oil, or any other oil or grease for gearcase applications.

With motor in normal operating position:

- Remove drain/fill plug and lubricant level plug from side of gearcase and completely drain gearcase of old lubricant.
- 2) Examine drained lubricant for metal filings, milky appearance, or black color with burnt odor. If old lubricant has any of those characteristics, see your Dealer. If drained lubricant is in good condition, continue.
- Place tube of lubricant in drain/fill hole and fill slowly until lubricant appears at lubricant level hole. See Engine Specifications for gearcase capacity.
- 4) Install lubricant level plug before removing tube from drain/fill hole. Drain/fill plug can then be installed without loss of lubricant.

5) Securely tighten both plugs.

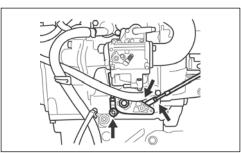


- . Drain/fill plug
- Lubricant level plug

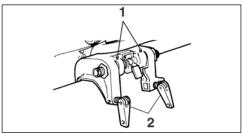
IMPORTANT: To avoid insufficient injection of lubricant, check the gear oil level 10 minutes after filling. If the oil level is low, slowly inject the lubricant up to the correct level.

Lubrication Points

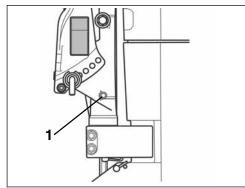
Refer to Engine Maintenance and Inspection Schedule for lubrication frequency and recommended lubricant.



Throttle linkage



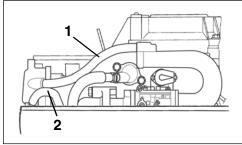
- 1. Swivel bracket
- 2. Clamp screws



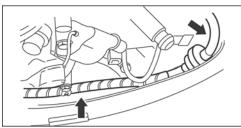
1. Steering bracket

BREATHER AND FUEL LINE

Inspect the breather and fuel line for leaks, cracks, swelling, or other damage. If the breather and fuel line are damaged in any way, they must be replaced. See your Dealer.



- 1. Breather line
- 2. Fuel line



Fuel line

\wedge

WARNING



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.



WARNING



The ignition system presents a serious shock hazard. The primary circuit operates in excess of 250 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.

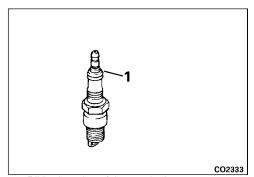
Inspect spark plugs periodically. Replace if electrodes are badly worn, insulators are cracked, or if they are badly fouled.

To remove spark plugs, twist and remove all spark plug leads. Unscrew spark plug from cylinder head.

To install spark plugs, wipe spark plug seats clean with a clean rag. Install spark plugs finger tight, then tighten to specified torque. Refer to **Engine Specifications**.

IMPORTANT: Avoid engine damage by installing spark plugs into COOL cylinder head and not overtightening.

Before installing the spark plug lead, apply a light coat of *Triple-Guard* grease to the ribbed portion of the spark plug. This will help prevent corrosion between the spring terminal and the spark plug.



1. Ribbed portion of the spark plug

\bigwedge

WARNING



To avoid accidental starting of engine while changing propellers, twist and remove all spark plug leads.

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

Installation

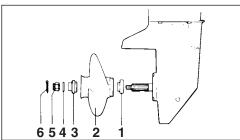
Place the stopper on the shaft.

Align the propeller with the propeller shaft splines and slide the propeller onto the shaft.

Place the spacer and washer on the shaft.

Install propeller nut and tighten to a torque of 21 - 23 ft. lbs. (29 - 31 $N \cdot m$)

Align grooves in propeller nut with hole in propeller shaft. Insert the cotter pin and bend its ends over to lock in place.



- Stopper
- 2. Propeller
- Spacer
- 4. Washer
- 5. Propeller nut
- 6. Cotter pin

Repair

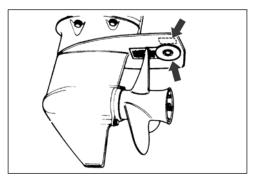
If your propeller hits a solid object, the impact is partially absorbed by the rubber bushing in the hub to help prevent damage to the engine. A strong impact can damage the hub and propeller blades. Damage to blades can cause unusual and excessive vibration. Damage to the hub can cause excessive engine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

ANTICORROSION ANODES

Your motor is equipped with one or more anodes that protect it from galvanic corrosion. Refer to **Features** for anode location. 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.



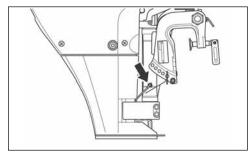
Galvanic corrosion destroys underwater metal parts and can occur in fresh or salt water; however, salt, brackish and polluted waters will accelerate corrosion.

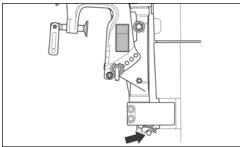
Metal-based antifouling paint on the boat or motor and the use of improperly installed shore power in the area of your moored boat will also accelerate corrosion.

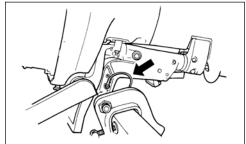
IMPORTANT: NEVER paint the anode, its fasteners, or its mounting surface. Painting will reduce its corrosion protection.

BONDING WIRES

Bonding wires are used to electrically connect the engine components so they exist in a common ground circuit. This allows them to be protected against electrolysis by the anodes. These wires and their terminals should be checked periodically to be sure they have not been damaged.







BATTERY

Each outboard needs one battery that is: 12-volt, heavy-duty, designated "marine"

Vented/refillable or maintenance-free

Rated according to the minimum requirements in **Engine Specifications**.

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, a battery switch or a battery insulator.

Installation

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

IMPORTANT: Place the battery in a hold-down system and in a location that is easily accessible for frequent checking and recharging

Place a large-surface star washer over the battery's positive (+) post. Stack the RED battery cable from the motor on the star washer, then install cables from accessories (if any). Finish the connection with a hex nut and tighten it firmly with a wrench.

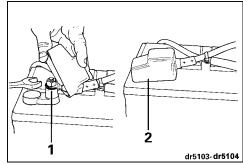
Connect the motor's BLACK battery cable to the battery's negative (–) post in the same manner.



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.



- 1. Large surface star washer
- 2. Cover

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

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.

Service

Before servicing the battery or the outboard, remove both battery cables from the battery, BLACK (–) 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. If you touch the wrong post with a battery cable, even briefly, the charging system will be damaged.



WARNING



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

TROUBLE CHECK CHART

IMPORTANT: If you are unable to identify or solve the problem, contact your Dealer.

SYMPTOM	POSSIBLE CAUSE
Starter motor will not operate	 Shift handle not in NEUTRAL. Battery and electrical connections loose or corroded. Battery Selector Switch OFF.
Engine will not start	 Not following starting instructions. Refer to Engine Starting Section. Fuel tank empty. Fuel hose disconnected, kinked. Fuel system contaminated with water or dirt. Fuel filter obstructed. COLD ENGINE: Engine not choked WARM ENGINE: Engine flooded. Disconnect fuel hose at engine, push in choke or primer, crank engine. If it starts, run until cleared. If it fails to start, wait a few moments and try again. Spark plugs incorrect. Refer to Engine Specifications. Spark plugs improperly gapped, carboned, burned or wet. Ignition system component failure.
Engine will not idle properly	 Motor angle excessive. Spark plugs damaged or incorrect. Refer to Engine Specifications. Fuel system contaminated with water or dirt.
Engine loses power	 Spark plugs damaged or incorrect. Refer to Engine Specifications. Fuel filter obstructed. Fuel system contaminated with water or dirt. Water intakes obstructed and cooling system not operating correctly. Refer to Engine Overheating. Oil pressure very low. Refer to Low Oil Pressure Warning.
Engine vibrates excessively	 Propeller shaft bent. Propeller fouled and restricted, blades bent or broken. Fuel system contaminated with water or dirt. Engine mount(s) damaged. Steering friction screw loose.
Engine runs, but makes little or no progress	 Propeller hub loose, slipping. Propeller blades bent or missing. Propeller shaft bent. Propeller fouled and restricted.

ENGINE MAINTENANCE AND INSPECTION SCHEDULE

Routine maintenance is necessary for all mechanized products. Periodic maintenance contributes to the product's life span. The following maintenance chart provides guidelines for engine maintenance and inspection scheduled to be performed by you and/or 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.

IMPORTANT: Schedules for rental operations, commercial applications or high hour use will require greater frequency of inspection and maintenance.

Engine Maintenance and Inspection Schedu	ile					
				Frequ	ency	
Description	Engine Care Product	Each Use	10-Hour Inspection	Every 50 Hours or 6 months	Every 100 Hours or Annually	Every 200 Hours or Biannually
Swivel bracket, inspect and lubricate (1)	6	Every 60 days / Every 30 in Saltwater			er	
Throttle linkage, inspect and lubricate (1)	6	Every 60 days / Every 30 in Saltwater			er	
Clamp screws, lubricate ⁽¹⁾	6	Every 60 days / Every 30 in Saltwater			er	
Steering bracket, lubricate ⁽¹⁾	6	Every 60 days / Every 30 in Saltwater			er	
Lubrication and corrosion protection for metallic components	4	Every	60 day	ys / Every 3	0 in Saltwat	er
Battery connections and condition, verify	6	0	D			
Anticorrosion anodes and bonding wires, verify operation		0	D			
Water intake screens, verify condition		0	D			
Overboard water pump indicator, verify operation		0	D			
Steering friction check, adjust/tighten		0	D			
Throttle and shift operation, verify function		0	D			
Emergency stop circuit and lanyard, verify function		0	D			
Flush cooling system		0				
Fuel components, inspect and repair leaks (2)			D	D		
Fastener inspection, tighten loosened components			D	D		
Engine upper and lower motor covers, clean and wax				0		
Gearcase lubricant, inspect fill level and condition of lube	5			D		
Thermostat, inspect and verify operation (2)			D		D	
Engine to transom mounting hardware, re-torque			D		D	
Clamp screws, tighten		0				
Electrical and ignition wires and connections, inspect			D		D	
Gearcase lubricant replace	5		D		D	
Propeller shaft splines, inspect and lubricate	6				D	
Powerhead synchronization and linkage, inspect (2)	6		D		D	
Starter pinion shaft, inspect and lubricate (3)	8			D		
Spark plugs, replace ⁽²⁾					D	
Decarbonize	9				D	

Engine Maintenance and Inspection Schedule						
		Frequency				
Description	Engine Care Product	Each Use	10-Hour Inspection	Every 50 Hours or 6 months	Every 100 Hours or Annually	Every 200 Hours or Biannually
Timing belt	Replace every 4 years					
Valve tappet clearance, inspect (2)			D			D
Driveshaft splines, inspect and lubricate	7					D
Water pump, inspect and replace						D
Carburetor, inspect						D
Breather line, replace						D
Crankcase oil level, check		0	D			
Crankcase oil, replace (4)	10		D			D
Fuel filter, replace						D
Oil filter, replace			D			D
Ignition timing, check						D
Operator's Guide, onboard		0				
Operator's Guide, review					0	

- (1) Also recommended at 10-Hour Inspection
- (2) Emission-related component
- (3) Do not use light duty penetrating lubricants
- (4) Replace every 100 hours or annually if Evinrude/Johnson Ultra 4-Stroke Synthetic Blend Oil is not used
- D Dealer Performed Service
- O Operator Performed Service
- 4 Evinrude/Johnson anti-corrosion spray or Evinrude/Johnson "6 in 1" multi-purpose lubricant
- 5 Ultra-HPF gearcase lubricant
- 6 Triple-Guard grease
- 7 Evinrude/Johnson Molylube P/N 175356
- 8 Starter Bendix Lube Only P/N 337016
- 9 Evinrude/Johnson Engine Tuner
- 10 Evinrude/Johnson Ultra 4-Stroke synthetic blend oil

INSTALLATION



WARNING



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

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

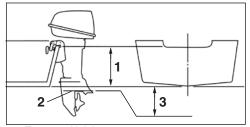
Incorrectly matched boat and engine transom heights can cause boat instability and loss of control. Refer to Transom Height and Shaft Length.

Prevent lateral movement and possible engine loss by using the mounting hardware supplied or hardware of sufficient size, strength, and quality. Refer to Installing the Engine.

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

TRANSOM HEIGHT AND SHAFT LENGTH

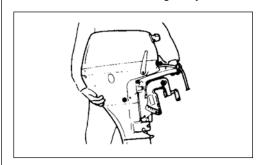
The transom height dimension listed in **Engine Specifications**, is the height of the boat transom your engine needs. This dimension is measured at the transom centerline, perpendicular to the bottom of the boat.



- 1. Transom Height
- 2. Anti-ventilation Plate
- 3. Final position 0 to 1 in. (0 to 25 mm)

Use this procedure to determine whether or not the boat's transom height is correct for the engine's shaft length:

Set the motor on the boat's transom and adjust the angle so the anti-ventilation plate is parallel with the boat bottom. Refer to **Motor Angle Adjustment**.



The resulting position of the anti-ventilation plate must be 0 to 1 in. (0 to 25 mm) below the boat's bottom.

IMPORTANT: If the anti-ventilation plate falls outside the 0 to 1 in. (0 to 25 mm) range, the installation is not considered normal. The motor shaft length must be changed or the boat's transom must be modified.

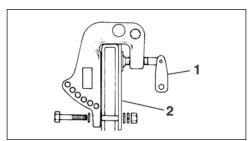
Lower than recommended – serious powerhead damage could result from water entry into the lower engine cover or overloading from an under-revving propeller at wide open throttle.

Higher than recommended – serious powerhead damage could result from inadequate cooling or an over-revving propeller. Propeller ventilation (slippage) often occurs, resulting in poor boat performance.

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

INSTALLING THE ENGINE

Center the engine on the boat's transom (or mounting bracket) and tighten the clamp screws by hand, NOT with tools. See your Dealer for an accessory transom plate to protect the boat's transom.



- Clamp screws
- 2. Accessory transom plate

Bolt your engine to the boat's transom using 8 mm bolts, washers, lock washers, and nuts.

After positioning the engine, use the stern brackets as a template for location and size of holes to drill in the transom

Drill two holes of the proper size through the transom. Be sure to drill holes at right angles to the transom. Apply a good waterproof caulk generously behind the heads and to the shanks of the mounting bolts before inserting them and to the surfaces of washers that contact the transom. Avoid RTV silicone and polyurethane sealants as they can be dissolved by gasoline.

Secure the engine with the mounting hardware positioned as shown.

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



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

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 BRP 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 Recreational Products division where the outboard was registered. Please contact your Dealer or distributor.

		->6						
Change of address	С	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 ow	ner							
Last name								
First name		M.I.						
Address								
City		State						
Zip code	Country							
Phone number								
Signature		Date						

000063

AFFIX STAMP HERE

Bombardier Recreational Products

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

Operator's Guide Confirmation of Receipt

Your Dealer			
Name:			
Address:			—
			_
Upon delivery of your Dealer will take reco	our new <i>Evinrude/Jo</i> eipt of the form for th	ohnson Outboard, complete and sign the form hereunder. Yeir records.	You
			_
Receipt			
Name:			_
Address:			_
	Owner of Model No:		_
	Serial No:		_
	00.14.110.	(To be completed by customer or selling Dealer))
The Dealer named features and warra with the predeliver copy of the Operat	inty policy, all of which y set-up and inspecti	as instructed me on the operation, maintenance, safety h I understand and agree to be bound with. I am also satisfied on of my <i>Evinrudel Johnson</i> Outboard. I have also received a	t 1
	Signature:		
	Date:		_



Readiness Test and a Final Word to the Owner/Operator

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 motor?
- 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 motor?
- 6. Do you know who to ask if you have any questions about your boat and motor?
- 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 and cooperation toward essential information contained in this Guide will build good judgment when boating. Always be alert and careful; a good foundation for safety.

