



**EVINRUDE®**



**Operator's Guide**

**3.5 HORSEPOWER**

B3R4, E3R4

**2012 and "AA" Models**

**216178**



**⚠ READ THIS MANUAL BEFORE USING THE OUTBOARD MOTOR. FAILURE TO FOLLOW THE INSTRUCTIONS AND SAFETY PRECAUTIONS IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH. KEEP THIS MANUAL IN A SAFE LOCATION FOR FUTURE REFERENCE.**

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# Your *Evinrude* 4-Stroke Outboard

## **OWNER REGISTRATION AND IDENTIFICATION**

Upon purchasing this product, be sure that the WARRANTY CARD is correctly and completely filled out and mailed to the addressee noted there on. This WARRANTY CARD identifies you as the legal owner of the product and serves as your warranty registration.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, YOUR OUTBOARD WILL NOT BE COVERED BY THE APPLICABLE LIMITED WARRANTY, IF THIS PROCEDURE IS NOT FOLLOWED.

## **PRE-DELIVERY CHECK**

Be sure that the product has been checked by an authorized Evinrude dealer before you take delivery.

## **Limited Warranty**

Please refer to the BRP Limited warranty provided to you with this product, the terms and conditions of which, as amended from time to time, are incorporated by reference into the manual.



**READ THIS MANUAL BEFORE USING THE OUTBOARD. FAILURE TO FOLLOW THE INSTRUCTIONS AND SAFETY PRECAUTIONS IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH. KEEP THIS MANUAL IN A SAFE LOCATION FOR FUTURE REFERENCE.**

## Product References, Illustrations and Specifications

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

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

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

### ***Owner's Identification***

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

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

### **Model and Serial Numbers**

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

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

Purchase Date \_\_\_\_\_

Ignition Key Number \_\_\_\_\_

### **Stolen Outboards**

**United States and Canada** — Report stolen outboards to your local dealer or distributor.

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

### **Technical Literature**

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

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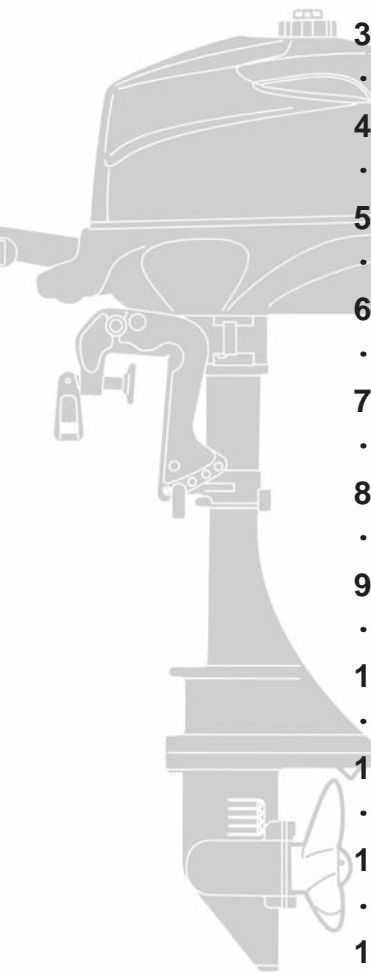
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# GENERAL SAFETY INFORMATION

## NOTICE : DANGER/WARNING/CAUTION/Note

Before installing, operating or otherwise handling your outboard motor, be sure to thoroughly read and understand this Operator's Guide and carefully follow all of the instructions. Of particular importance is information preceded by the words "DANGER," "WARNING," "CAUTION," and "Note." Always pay special attention to such information to ensure safe operation of the outboard motor at all times.

### **DANGER**

Failure to observe will result in severe personal injury or death, and possibly property damage.

### **WARNING**

Failure to observe could result in severe personal injury or death, or property damage.

### **CAUTION**

Failure to observe could result in personal injury or property damage.

### Note

This instruction provides special information to facilitate the use or maintenance of the outboard motor or to clarify important points.

## EMERGENCY STOP SWITCH

The Emergency Stop Switch will stall the outboard motor when the stop switch tether is pulled off. This stop switch tether can be attached to the operator of the outboard motor to minimize or prevent injuries from the propeller in case the operator falls overboard.

We highly recommend use of the Emergency Stop Switch tether.

### **WARNING**

Accidental activation of the Emergency Stop Switch (such as the tether being pulled out in heavy seas) could cause passengers to lose their balance and even fall overboard, or it could result in loss of power in heavy seas, strong currents, or high winds. Loss of control while mooring is another potential hazard.

To minimize accidental activation of the Emergency Stop Switch, the 500 mm (20 inch.) stop switch tether is coiled and can extended to a full 1,300 mm (51 inch.).



## SAFE OPERATION OF BOAT

As the operator/driver of the boat, you are responsible for the safety of those aboard and those in other boat around yours, and for following local boating regulations. You should be thoroughly knowledgeable on how to correctly operate the boat, outboard motor, and accessories. To learn about the correct operation and maintenance of the outboard motor, please read through this manual carefully. It is very difficult for a person standing or floating in the water to take evasive action should he or she see a power boat heading in his /her direction, even at a slow speed. Therefore, when your boat is in the immediate vicinity of people in the water, the outboard motor should be shifted to neutral and shut off.

### **WARNING**

SERIOUS INJURY IS LIKELY IF A PERSON IN THE WATER MAKES CONTACT WITH A MOVING BOAT, GEAR HOUSING, PROPELLER, OR ANY SOLID DEVICE RIGIDLY ATTACHED TO A BOAT OR GEAR HOUSING.

## SERVICING, REPLACEMENT PARTS & LUBRICANTS

We recommend that only an authorized service shop perform service or maintenance on this outboard motor. Be sure to use genuine parts, genuine lubricants, or recommended lubricants.

## MAINTENANCE

As the owner of this outboard motor, you should be acquainted with correct maintenance procedures. It is the operator's responsibility to perform all safety checks and to ensure that all lubrication and maintenance instructions are complied with for safe operation. Please comply with all instructions concerning lubrication and maintenance. You should take the engine to an authorized dealer or service shop for periodic inspection at the prescribed intervals. Correct periodic maintenance and proper care of this outboard motor will reduce the chance of problems and limit overall operating expenses.

## MOUNTING

Outboard motor mounting must be performed by trained service person(s) using lift or hoist with sufficient capacity.

# SPECIFICATIONS

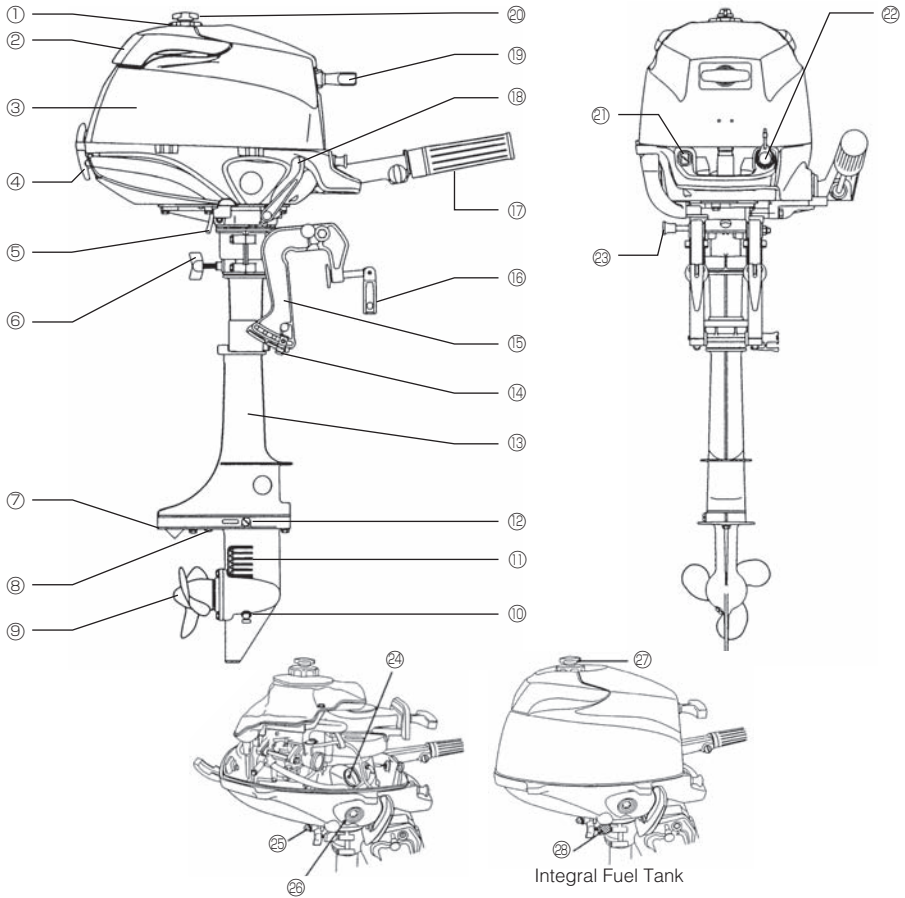
## 3

Item	MODEL	R
Overall Length	mm (in)	690 (27.2)
Overall Width	mm (in)	363 (14.3)
Overall Height S-L	mm (in)	Except for USA and Canada model 1,026 (40.4) · 1,153 (45.4) For USA and Canada model 1,040 (40.9) · 1,167 (45.9)
Transom Height S-L	mm (in)	435 (17.1) · 562 (22.1)
Weight S-L	Kg (lb)	18.4 (41) · 19.4 (43)
Output	kW (HP)	2.6 (3.5)
Max. Operating Range	rpm	5,000-6,000
Idle Speed in Forward Gear	rpm	1,200
Idle Speed in Neutral Gear	rpm	1,300
Engine Type		4-Stroke
Number of Cylinder		1
Bore × Stroke	mm (in)	55 × 36 (2.17 × 1.42)
Piston Displacement	mL (Cu in)	85.5 (5.2)
Exhaust System		Above propeller exhaust
Cooling System		Water cooling
Engine Lubrication		Splashing system
Starting System		Manual starter
Ignition System		Ignitor
Spark Plug		NGK DCPR6E
Trim Position		4
Engine Oil	mL (fl.oz.)	NMMA FC-W certified 10W-30 or API SF, SG, SH, SJ, SL or SM, Approx. 300 (10)
Gear Oil	mL (fl.oz.)	Genuine Gear Oil or API GL5, SAE #80-90, Approx. 180 (6.1)
Fuel		Unleaded regular gasoline : Pump posted 87 Octane (research octane rating of 91)
Clutch		Dog clutch system (F-N)
Fuel Tank Capacity	L (US gal)	1.0 (0.26) Integral tank
Gear Reduction Ratio		2.15 (13 : 28)
Emission Control System		Engine modification (EM)
Operator Sound Pressure (ICOMIA 39/94) dB(A)		80.1
Hand Vibration Level (ICOMIA 38/94) m/sec <sup>2</sup>		8.9

\* : with manual ※ Specifications subject to change without notice.

# ■ NAMES OF PARTS

## 3



- |                             |                            |                          |
|-----------------------------|----------------------------|--------------------------|
| ① Fuel Tank Cap             | ⑪ Water Inlet              | ⑲ Choke Knob             |
| ② Tilt Handle               | ⑫ Oil Plug (Upper) (Level) | ⑳ Stop Switch            |
| ③ Top Cowl                  | ⑬ Drive Shaft Housing      | ㉑ Tilt Stopper           |
| ④ Cowl Latch                | ⑭ Thrust Rod               | ㉒ Engine Oil Filter Cap  |
| ⑤ Cooling Water Check Port  | ⑮ Clamp Bracket            | ㉓ Engine Oil Drain Screw |
| ⑥ Steering Adjustment Screw | ⑯ Clamp Screw              | ㉔ Engine Oil Level Gauge |
| ⑦ Anti Ventilation Plate    | ⑰ Throttle Grip            | ㉕ Air Vent Screw         |
| ⑧ Anode                     | ⑱ Shift Lever              | ㉖ Fuel Cock              |
| ⑨ Propeller                 | ㉑ Starter Handle           |                          |
| ⑩ Oil Plug (Lower) (Fill)   | ㉒ Air Vent Screw           |                          |

## 2

# LOCATIONS OF WARNING LABELS

## Locations of warning labels

Warning label regarding owner's manual, top cowl, engine stop switch, engine oil level and unleaded gasoline

**WARNING 警告**

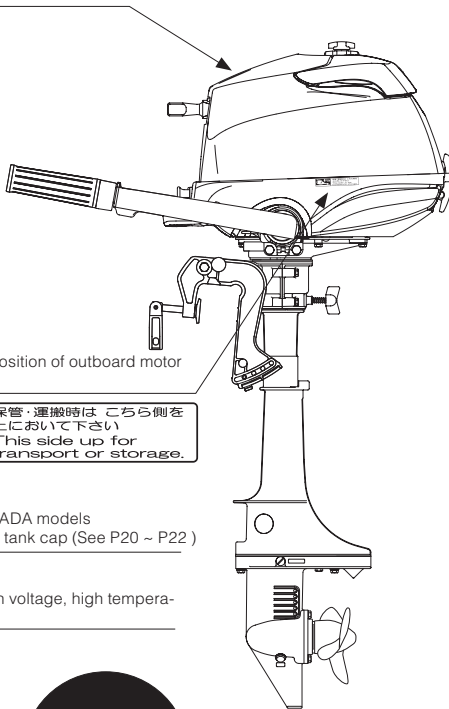
- Read owner's manual very carefully before operating this motor. Give special attention to safety cautions.
- Lire très soigneusement le livret d'entretien avant de démarrer ce moteur. Faire très attention aux mesures de sécurité.
- Bedienungsanleitung vor der Inbetriebnahme sorgfältig lesen. Beachten Sie besonders die Sicherheitsvorschriften!
- ご使用前に必ず取扱説明書をお読み下さい。

- Never remove or replace the motor cover while the engine is running.
- Ne jamais déposer ou remettre le capot du moteur quand le moteur tourne.
- Während des Betriebs niemals die Motorhaube entfernen!
- エンジン運転中はモーターカバーを外さないで下さい。

- Be sure to connect the emergency stop line to your wrist.
- Assurez-vous que le cordon de sécurité soit bien attaché à votre poignet.
- Verstehern Sie sich dass die Notstopleine an Ihrem Handgelenk befestigt ist.
- 運転中急水時暴走の危険あり
- ・運転中はエンジンストップスイッチコードを身体の一部に必ずつけて下さい。

- Check oil level before starting.
- Ölstand vor dem Motorstart überprüfen.
- Vérifier le niveau d'huile avant de démarrer.
- 始動前に必ずエンジンオイル量確認。

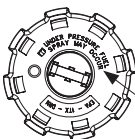
- Unleaded fuel only.
- Nur unverbletetes Benzin verwenden.
- Essence sans plomb uniquement.
- 無鉛ガソリンを使用して下さい。



Warning label on position of outboard motor when setting down

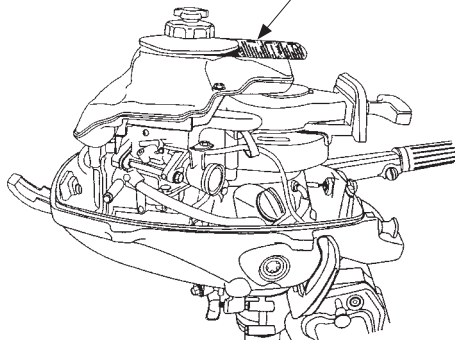
保管・運搬時はこちら側を上において下さい

This side up for transport or storage.



Only for USA and CANADA models  
Warning regarding fuel tank cap (See P20 ~ P22)

Rotating part, high voltage, high temperature warning label



**WARNING**

- 回転部分、高電圧、高温の危険があります。
- Rotating parts, high voltage, high temperature. Danger.
- 回転部分、高電圧、高温の危険があります。
- Rotating parts, high voltage, high temperature. Danger.

**CAUTION**

- 必ず安全な方法でエンジンを始動してください。
- Always use the correct method to start the engine.
- 必ず安全な方法でエンジンを始動してください。
- Always use the correct method to start the engine.

Individual symbol marks means as described below.

Warning/ Caution	Read manual thoroughly.	Check oil level.	Use unleaded gasoline only.	Lay as indicated.	Warning, rotating object.	Warning, high voltage.	Warning, high temperature.

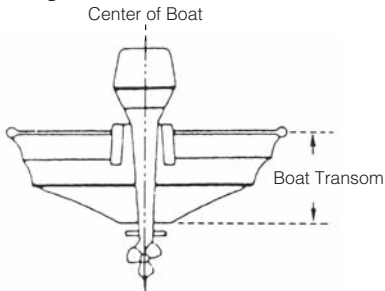
# INSTALLATION

## 1. Mounting the outboard motor on boat

### WARNING

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

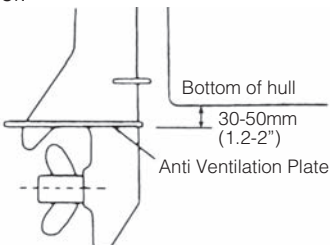
**Position ... Above keel line**  
Set engine at center of boat.



### Transom matching

Be sure that the anti ventilation plate of the outboard motor is below the water surface.

If the above condition cannot be met due to the shape of the bottom of your boat, please consult your authorized dealer.



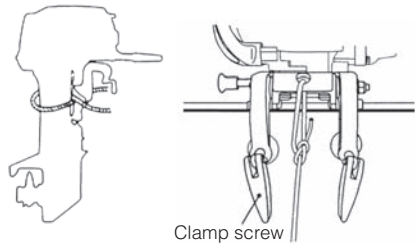
To attach the outboard motor to the boat, tighten the clamp screws by turning their handles.

Also, use the bolts to secure the outboard motor brackets on transom board.

Secure the outboard motor with a rope to prevent loss overboard.

### Note

A rope is not included in the standard accessories.



### CAUTION

- Before beginning the running test, check that the boat with maximum capacity loading floats on the water in a proper attitude. Check the position of water surface on the driveshaft housing. If the water surface is near the bottom cowling, in high waves, water may enter the engine cylinders.
- Incorrect outboard motor mounting height or existence of underwater object(s), such as hull bottom design, bottom surface conditions or underwater accessories, can cause water spray possibly reaching the engine through an opening of the bottom cowling during cruising. Exposing the engine to such conditions for extended periods can lead to severe engine damage.

**⚠ WARNING**

If the length of security line being used is long enough to allow the outboard to disengage off the boat transom but is too short to not allow the outboard to submerge behind the boat and stop running, the outboard could continue running and propel itself back into the boat with the propeller rotating under power. This exposes the occupants to serious injury or death.

**⚠ WARNING**

- Mounting the outboard motor without following this manual can lead to unsafe conditions such as poor maneuverability, lack of control or fire.
- Loose clamp screws and/or mounting bolts can lead to release off or displacement of the outboard motor, possibly resulting in lost of control and / or serious personal injury. Be sure that fasteners are tightened to the specified torque (30 Nm (3.0kgf)13ft·lb). Check fasteners for tightness from time to time.
- Be sure to use outboard mounting fasteners included in outboard motor package or their equivalents in terms of size, material, quality and strength.  
Tighten fasteners to the specified torque (30 Nm (3.0kgf)13ft·lb). Test cruise to check if fasteners are tightened securely.
- Outboard motor mounting must be performed by trained service person(s) using lift or hoist with sufficient capacity.

**⚠ CAUTION**

It is recommended to install upper mounting bolts with bolt head at inside surface of transom. Bolts with threaded end at inside surface of transom can cause personal injury.

○ Notes

1. Apply sealing agent such as silicone sealed between bolts and transom board holes before tightening bolts.
2. Be sure to tighten mounting bolt nuts to specified torque.

# PRE-OPERATING PREPARATIONS

## DANGER

Consult an authorized dealer for details on handling gasoline, if necessary.

Gasoline and its vapors are very flammable and can be explosive.

When carrying a fuel tank containing gasoline:

- Close the air vent screw of fuel tank cap, or gasoline vapor will be emitted through the air vent screw, creating a fire hazard.
- Do not smoke.

When or before refueling:

- Stop the engine, and do not start the engine during refueling.
- Do not smoke.
- Be careful not to overfill fuel tank. Wipe up any spilled gasoline immediately.

When or before cleaning the gasoline tank:

- Dismount fuel tank from the boat.
- Place the fuel tank away from every source of ignition, such as sparks or open flames.
- Do the work outdoors or in a well ventilated area.
- Wipe off gasoline well immediately if spilt.

After cleaning gasoline tank:

- Wipe off gasoline well immediately if spilt.
- If the fuel tank is disassembled for cleaning, reassemble carefully. Imperfect assembly may cause a fuel leak, possibly leading to fire or explosion.
- Dispose aged or contaminated gasoline in accordance with local regulations.

## 1. Recommended gasoline types

### CAUTION

Use of improper gasoline can damage your engine. Engine damage resulting from the use of improper gasoline is considered misuse of the engine, and damage caused thereby will not be covered under the limited warranty.

## FUEL RATING

Evinrude engines will operate satisfactorily when using a major brand of unleaded gasoline meeting the following specifications:

**USA and Canada** - having a posted pump Octane Rating of 87 (R +M)/2 minimum. Premium gasoline (92 [R+M]/2 Octane) is also acceptable. Do not use leaded gasoline.

**Outside USA and Canada** - Use unleaded gasoline with declared octane rating of 90 RON or over. Use of premium gasoline of 98 RON is also allowed. Use of name-brand leaded gasoline may be allowed only if unleaded gasoline is not available.

## GASOLINES CONTAINING ALCOHOL

The fuel system components on your Evinrude engine will withstand up to 10% alcohol content in the gasoline. But if the gasoline in your area contains either methanol (methyl alcohol) or ethanol (ethyl alcohol), you should be aware of certain adverse effects that can occur. These adverse effects are more severe with methanol. Increasing the percentage of alcohol in the fuel can also worsen these adverse effects. Some of these adverse effects are caused because

the alcohol in the gasoline can absorb moisture from the air, resulting in a separation of the water/alcohol from the gasoline in the fuel tank.

These may cause increased:

- Corrosion of metal parts
- Deterioration of rubber or plastic parts
- Fuel permeation through rubber fuel lines
- Starting and operating difficulties

**⚠ WARNING**

Fuel leakage can cause fire or explosion, potentially leading to severe injury or loss of life. Every fuel system part should be checked periodically, and especially after long term storage, for fuel leak, change of hardness of rubber, expansion and/or corrosion of metals. In case any indication of fuel leakage or degradation of fuel part is found, replace relevant part immediately before continuing operation.

If the use of gasoline containing alcohol is inevitable, or presence of alcohol is suspected in the gasoline, it is recommended to add a filter that has water separating capability, and check the fuel system for leaks and mechanical parts for corrosion and abnormal wear more frequently.

And, in case any of such abnormality is found, discontinue the use of such gasoline and contact our dealer immediately.

Damages resulting from the use of gasolines that contain alcohol are not covered under the limited warranty.

**⚠ WARNING**

Do not fill the fuel tank over capacity. The rise of gasoline temperature may cause gasoline to expand which, if overfilled, may leak through air vent screw when it is open. Leaking gasoline is a dangerous fire hazard.

**⚠ CAUTION**

When operating a Evinrude engine on gasoline containing alcohol, storage of gasoline in the fuel tank for long periods should be avoided. Long periods of storage, common to boats, create unique problems. In cars, alcohol blend fuels normally are consumed before they can absorb enough moisture to cause trouble, but boats often sit idle long enough for phase separation to take place. In addition, internal corrosion may take place during storage if alcohol has washed protective oil films from internal components.

**2. Low permeation fuel hose requirement**

**EQUIPPED FOR UNITED STATES AND CANADA MODEL**

In the United States, the U.S. Environmental Protection Agency (EPA) require "lowpermeability" fuel hose, fuel primer bulbs, portable fuel tanks and fuel caps to be used with outboard engines.



### 3. EPA pressurized fuel tank requirements

#### EQUIPPED FOR UNITED STATES AND CANADA MODEL

The Environmental Protection Agency (EPA) required integral fuel systems that are produced after August 1, 2011 for use with outboard engines to remain fully sealed (pressurized) up to 7 kPa (1.0 psi). These tanks may contain the following:

- An air inlet that opens to allow air to enter as the fuel is drawn out of the tank.
- An air outlet that opens (vents) to the atmosphere if pressure exceeds 7 kPa (1.0 psi). A hissing noise may be heard as the tank vents to the atmosphere. This is normal.
- When installing the fuel tank cap, turn the cap to the right until you hear two clicks. This signals that the fuel cap is fully seated. A built-in device prevents overtightening.
- The fuel tank has a manual vent screw which should be closed for transportation and full open for operation and cap removal.

Since sealed fuel tanks are not openly vented, they will expand and contract as the fuel expands and contracts during heating and cooling cycles of the outside air. This is normal.

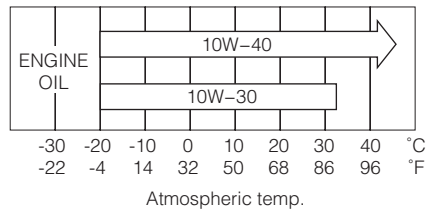
\*Please refer to P20 ~ P22 when using this fuel tank.

### 4. Recommended engine oil

Evinrude/Johnson Ultra 4-stroke outboard oil is recommended for use in Evinrude 4-stroke outboards.

If Evinrude/Johnson Ultra 4-stroke outboard oil is not available, use high quality SAE 10E-30, or 10W-40 oil with the NMMA certification FC-W, or with API rating SF, SG, SH, SJ, SI, SM.

Select the appropriate viscosity oil based on ambient operating temperature.



#### **CAUTION**


The engine oil is drained for shipping from the factory. Be sure to fill the engine to the proper level before starting engine. (To properly fill the engine with oil follow the instructions in section 9 of this manual)

#### Note

Use of engine oils that do not meet these requirements will result in reduced engine life, and other engine problems.

## 5. Break-In

Your new outboard motor and lower unit require break-in for the moving components according to the conditions described in the following time table.

** CAUTION**


Operating the outboard motor without break-in can shorten service life of the product.  
 If any abnormality is experienced during the break-in:  
 Discontinue the operation immediately.  
 Have the dealer check the product and take proper action(s) if necessary.

5

	1-10min	10min-2hrs	2-3hrs	3-10hrs	After 10hrs
Throttle Position	Idle	Less than 1/2 throttle	Less than 3/4 throttle	3/4 throttle	Full throttle available
Speed		Approx. 3,000 rpm max	Full throttle run allowed for 1 min every 10 min	Approx. 4,000 rpm. Full throttle run allowed for 2 min every 10 min	

**Note**

Proper break-in allows outboard motor to deliver it full performance for longer service life.

** DANGER**

Do not operate the outboard motor in closed area or area with no forced ventilation.  
 Exhaust gas emitted by this outboard motor contains carbon monoxide that will cause death if inhaled continuously. Inhaling the gas initially causes symptoms such as feeling of sickness, drowsiness and headache.  
 During operation of the outboard motor:

- Keep peripheral area well ventilated.
- Always attempt to stay on the windward side of emission.

---

## 6. ESG (A device preventing over revolution)

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ESG is a device to prevent over revolution of the engine (more than approximately 6,300 rpm).

If you sense that the ESG is activated return to shore at a reduced speed (rpm).

Possible causes of ESG activation are : Worn, broken, bent propeller and shear pin. Slipping propeller rubber, Making sharp turns at high speeds, Trim angle.

### ○ Note

If the engine speed drops frequently after restarting the engine, please contact your dealer.

# ENGINE OPERATION

## Before starting

### CAUTION

The engine oil is drained for shipping from the factory. Be sure to fill the engine to the proper level before starting engine. (To properly fill the engine with oil follow the instructions in section 9 of this manual)

### CAUTION

Before starting engine for the first time after reassembling engine or off-season storage, disconnect stop switch lock and pull the starter handle completely out approximately 10 times in order to prime the oil pump.

## 1. Filling the fuel

### DANGER

Consult an authorized dealer for details on handling gasoline, if necessary.

Gasoline and its vapors are very flammable and can be explosive.

When carrying a fuel tank containing gasoline:

- Close the fuel tank cap and air vent screw of fuel tank cap, or gasoline vapor will be emitted through the air vent screw, creating a fire hazard.
- Do not smoke.

When or before refueling:

- Stop the engine, and do not start the engine during refueling.
- Do not smoke.
- Be careful not to overfill fuel tank. Wipe up any spilled gasoline immediately.

When or before cleaning the gasoline tank:

- Dismount fuel tank from the boat.
- Place the fuel tank away from every source of ignition, such as sparks or open flames.
- Do the work outdoors or in a well ventilated area.
- Wipe off gasoline well immediately if spilt.

After cleaning gasoline tank:

- Wipe off gasoline well immediately if spilt.
- If the fuel tank is disassembled for cleaning, reassemble carefully. Imperfect assembly may cause a fuel leak, possibly leading to fire or explosion.
- Dispose aged or contaminated gasoline in accordance with local regulations.

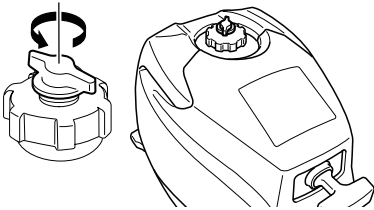
## WARNING

When opening fuel tank cap, be sure to follow the procedure described below. Fuel could blast out through the fuel tank cap in case the cap is loosened by using another procedure when internal pressure of fuel tank is raised by heat from sources such as engine or sun light.

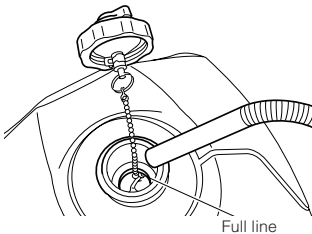
### Except for USA and Canada model

- ① Before opening fuel tank cap, turn air vent screw two times counterclockwise to release air pressure in the fuel tank.

Two turns the  
air vent screw



- ② Open the fuel tank cap slowly.
- ③ Fill the fuel not to over the shown level.

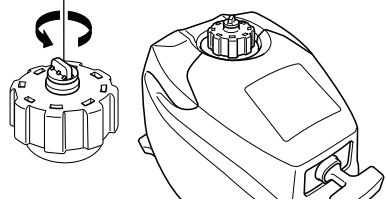


- ④ After filling the tank, close the tank cap.

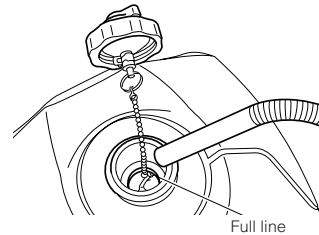
### For USA and Canada model

- ① Full open the air vent screw on the tank cap and release internal pressure.

Full open  
Air vent screw



- ② Open the fuel tank cap slowly.
- ③ Fill the fuel not to over the shown level.

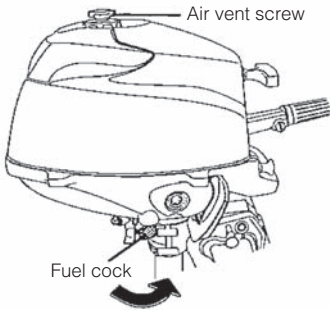


- ④ After filling the tank, close the tank cap until two clicks sound is heard.

## 2. Feeding the fuel

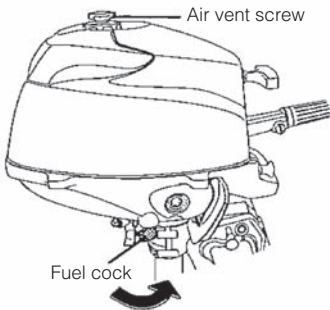
### Except for USA and Canada model

- ① Loosen the air vent screw on the tank cap by two turns.
- ② Open the fuel cock.



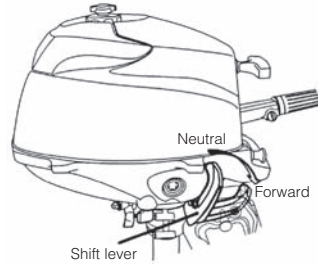
### For USA and Canada model

- ① Full open the air vent screw on the tank cap.
- ② Open the fuel cock.

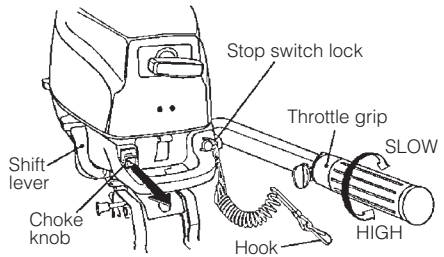


## 3. Starting

- ① Place the shift lever in the neutral position.



- ② Attach the stop switch tether to a secure place on your arm or clothing. And then, install the lock plate into the engine stop switch.

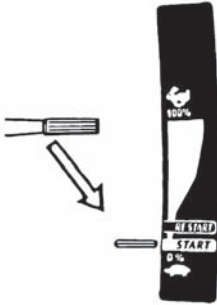


## ! WARNING

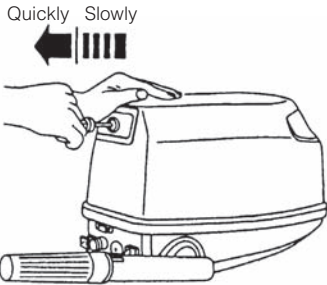
Accidental activation of the Emergency Stop Switch (such as the tether being pulled out in heavy seas) could cause passengers to lose their balance and even fall overboard, or it could result in loss of power in heavy seas, strong currents, or high winds. Loss of control while mooring is another potential hazard.

To minimize accidental activation of the Emergency Stop Switch, the 500 mm (20 inch.) stop switch tether is coiled and can be extended to a full 1,300 mm (51 inch.).

- ③ Set the throttle grip to slow position.
- ④ Pull the choke knob out. (Pulling the choke knob is not necessary when the engine is warm. If the engine is warm, open the throttle grip until the RESTART mark.)



- ⑦ Gently pull the starter handle until you feel slight resistance (engagement), and then quickly and strongly pull the handle without a rest.



- ⑧ When the motor starts, push the choke knob back. (in the case the choke knob is used.)

**Note**

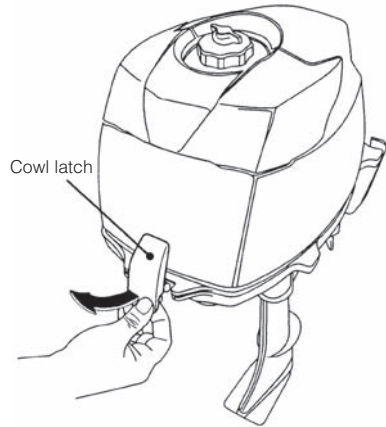
When warming up the engine in cold weather, set the choke knob to half opened position if necessary.

**Note**

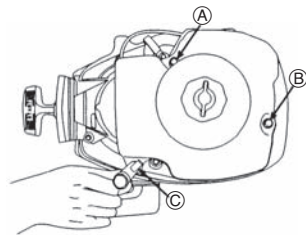
In-gear starting of engine will move the boat immediately, potentially leading to falling down or causing passenger(s) to be thrown overboard.

**If the recoil starter fails to operate**

- ⊙ Remove the top cowl and the recoil starter.

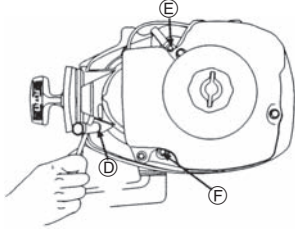


**Removing the recoil starter**

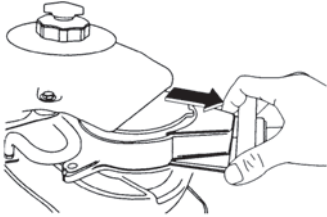


6

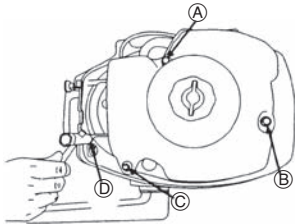
- ① Loosen the three bolts (A,B,C) fastening the tank. (Don't remove the tank fastening bolts.)



- ② Remove the three bolts (D,E,F) fastening the recoil starter.



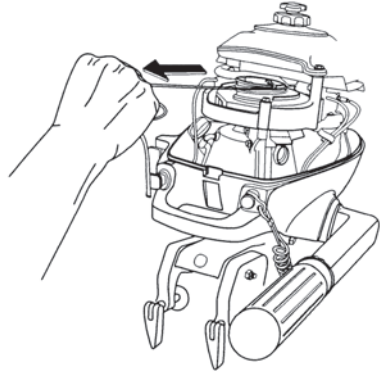
- ③ Remove the recoil starter.



- ④ Tighten the three bolts (A,B,C) fastening the tank and one bolt (D) fastening the recoil starter.

- ⊙ Confirm that the shift lever is at Neutral (N) position.
- ⊙ Wrap a rope around the starter pulley then pull quickly to start.
- ⊙ Use a 10 mm socket wrench as a rope handle.

- ⊙ Reinstall top cowl after engine starts.



**! WARNING**

Be careful that your clothes or other items do not get caught in the rotating engine parts.  
 To prevent accident and injury, do not re-attach the recoil starter after the engine has been started using the emergency starter rope. Be sure to put the top cowl back on.  
 Immediately contact an authorized dealer when reaching shore.

**! WARNING**

- Be sure that no bystander(s) is within 2 meters from back of starting operator.
- Do not operate the outboard motor with top cowl removed from the power unit, or contacting turning flywheel which can lead to serious personal injury.



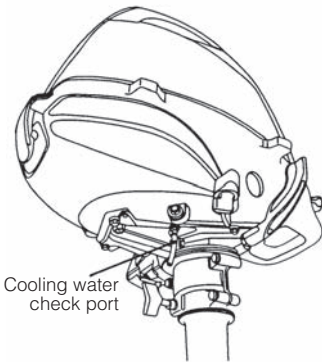
## 4. Warming up the engine

Warm the engine at low engine speeds for about three minutes. This allows the lubricating oil to circulate to all parts of the engine. Operating the engine without warm up shortens the engine's life.

Be sure to check that cooling water is coming out of the cooling water check port during warm up.

### CAUTION

If the engine is operated without water discharging from the check port, the engine may over heat.



### CAUTION

Be sure to stop engine immediately if cooling water check port is not discharging water, and check if cooling water intake is blocked. Operating engine could lead to overheating potentially leading to engine damage. Consult an authorized dealer if the cause cannot be found.

## Engine speeds

Idling speed after warming up.

Remark: In case of cold engine starting, idling speed is increased about 300 rpm for several minutes.

Clutch in (In gear)	Clutch off (Out of gear)
1,200rpm	1,300rpm

## PROPELLER SELECTION

Propeller must be selected that will allow the engine to reach recommended rpm when cruising at wide-open throttle.

Wide open throttle operating range is :

- 3.5HP 5000 to 6000 rpm

Genuine propellers are listed on PROPELLER TABLE of this guide.

## 5. Forward and reverse

### WARNING

Before shifting into forward, or reverse, make sure that boat is properly moored and outboard motor can be steered fully to the right and left. Make sure that no swimmer(s) is ahead or astern of the boat.

### WARNING

- Attach other end of emergency stop switch tether to the operator's clothing or arm and keep it attached during cruising.
- Do not attach the tether to a part of clothing that can be torn easily when pulled.
- Arrange the tether so that will not be caught by any object when pulled.
- Be careful not to pull the tether accidentally during cruising. Unintentional stop of engine can cause loss of control of outboard motor. Rapid loss of engine power can lead to falling down or causing passenger(s) to be thrown overboard.

### CAUTION

The shear pin breaks when the propeller is shocked, otherwise, the shear pin may break if shifting is done at a high motor speed.

### Note

When moving astern, be sure to operate the motor at a low speed without unnecessary increase of the motor speed.

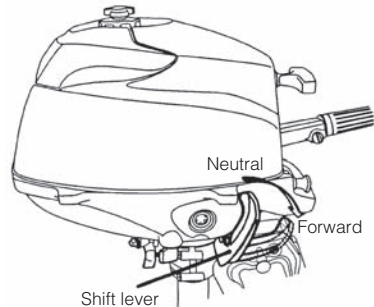
### WARNING

Severe damage, and personal injury, may occur if shifting at high engine speed.  
Engine must be in the slow idle position before shifting is attempted.

Motor operation mode for moving ahead and astern can be shifted by the shift lever.

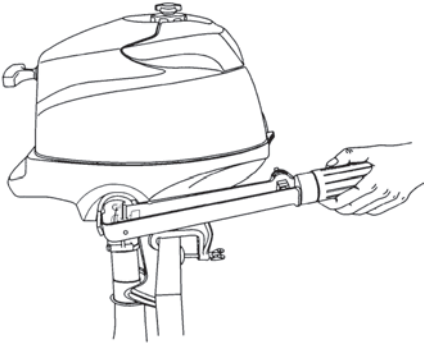
#### ■ Forward

Turn the throttle grip to the low speed position. As soon as the engine speed turns down to the lowest, quickly pull the shift lever to the Forward (F) side.



### ■ Reverse

Turn the engine speed to the lowest in the same manner as the operation for moving ahead. After setting the shift lever to the Neutral (N) position and the handle upright, turn the outboard motor at an angle of 180° and quickly turn the shift lever to the Forward (F) side.



### ■ Driving in shallows

When driving in shallows, operate the motor at the lowest speed paying careful attention to the depth of the water and obstacles.

#### **! WARNING**

Before shifting, make sure that no swimmer(s) or obstacle(s) is ahead or astern of the boat.

#### **! CAUTION**

Be sure to warm up engine well before starting cruise. Operating cold engine may cause damage to your motor.

#### **! WARNING**

During shallow water operation, be careful not to place your hand between the swivel bracket and the stern bracket. Be sure to tilt the outboard down slowly.

#### **! WARNING**

- Run at lowest possible speed during cruising using shallow water drive.
- Tilt lock is disabled when in shallow water drive position.
- When driving shallow water, be careful not to strike outboard motor against sea bottom, or propeller may be pushed out of water, resulting in loss of control.

#### **! WARNING**

Do not tilt up or down outboard motor when swimmer(s) or passenger is near to prevent them from being caught between outboard motor body and clamp bracket in case the outboard motor body falls.

#### **! CAUTION**

Do not tilt up outboard motor while engine operates, or no cooling water may be fed, leading to engine seizure due to overheating.

○ Note

Slow down to trolling speed, and shift into neutral before setting outboard motor to shallow water drive position.

○ Note

Idle speed may be higher during warming up of engine. If shifted to Forward during warming up, it may be difficult to shift back to neutral. In such case, stop engine, shift to neutral, and restart engine to warm up.

○ Note

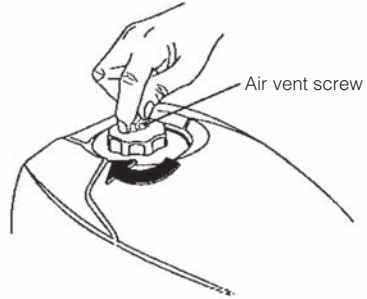
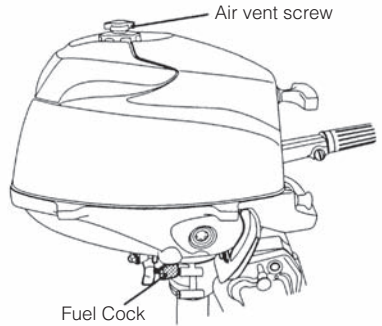
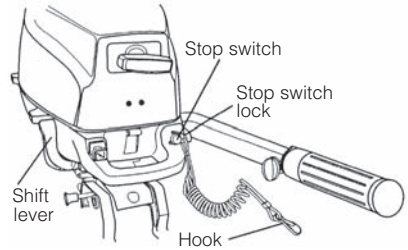
Frequent shifting to forward can accelerate wear or degradation of parts. In such case, replace gear oil earlier than the period specified.

**6. Stopping**

- ① Turn the throttle grip to the low speed position.
- ② Set the shift lever to the Neutral (N) position. After high-speed operation, continue idling for 2 to 3 minutes.
- ③ Continue pressing the stop switch until the motor stops. Or pull the stop switch lock out.
- ④ Close the fuel cock.
- ⑤ Tighten the air vent screw of the tank cap.

**⚠ WARNING**

Avoid serious injury or death from a gasoline fire or explosion. Ensure that is ④ and ⑤ .



○ Notes

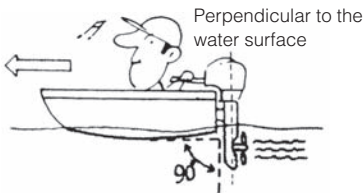
- After stopping the engine, close the air vent screw on the tank cap.
- Close the fuel cock. (Integral fuel tank)

## 7. Trim angle

The trim angle of the outboard motor can be adjusted to suit the transom angle of the hull, and load conditions. Choose an appropriate trim angle that will allow the anti-ventilation plate to run parallel to the water surface during operation.

### ■ Proper trim angle

The position of the thrust rod is correct if the hull is horizontal during operation.



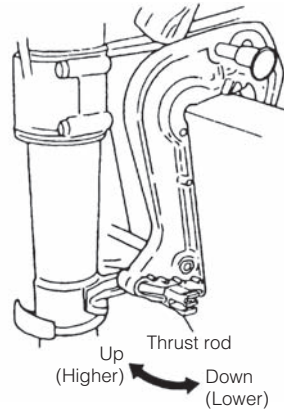
### ■ Improper trim angle (bow rises to high)

Set the thrust rod lower if the bow of the boat rises above horizontal.



### ■ Improper trim angle (bow dips into the water)

Set the thrust rod higher if the bow of the boat is below horizontal.



## ! WARNING

- Do not put hand or finger in between outboard motor body and clamp bracket when adjusting trim angle to prevent injury in case the outboard motor body falls.
- Unsuitable trim position can cause loss of control of boat. When testing a trim position, run boat slow initially to see if it can be controlled safely.

## ! WARNING

- Excessive trim up or down may lead to unstable boat operation, potentially causing the steering difficulty that leads to accident during cruising.
- Do not cruise at high speed if improper trim position is suspected. Stop the boat and readjust trim angle before continuing cruise.

### 8. Tilt up, tilt down

#### **! WARNING**

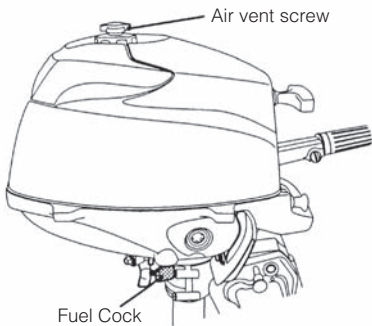
When tilting up or down, be careful not to place your hand between the swivel bracket and the stern bracket. Be sure to tilt the outboard motor down slowly.

#### **○ Note**

Be sure to stop the motor during tilt-up or tilt-down operation.

#### **■ Tilt up**

- ① Close the fuel cock and tighten the air vent screw of the tank cap.
- ② Tilt up the outboard motor fully to your side and press the tilt stopper knob inside to set it up.

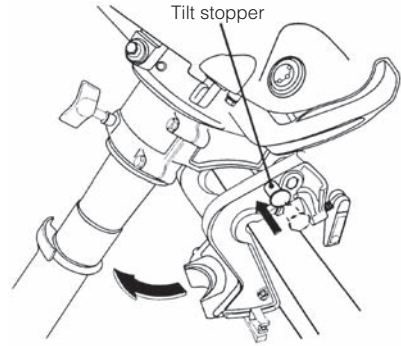


#### **! CAUTION**

Do not tilt up outboard motor during operation, or engine may be damaged from overheating due to lack of sufficient cooling water.

#### **■ Tilt down**

Pull the outboard motor to your side and draw the tilt stopper knob out for tilting down.

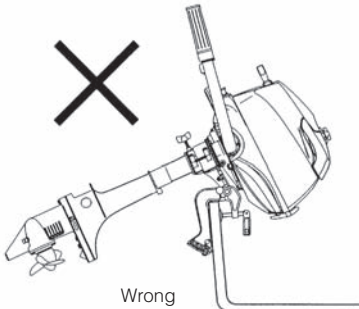
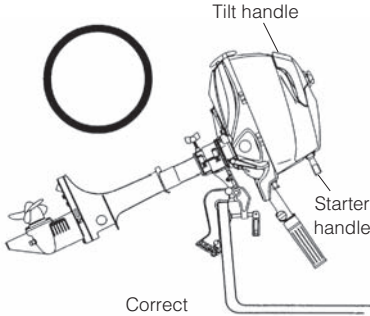


#### **! WARNING**

Do not tilt up or down outboard motor when swimmer(s) or passenger is near to prevent them from being caught between outboard motor body and clamp bracket in case the outboard motor body falls.

## 9. Outboard motor position in tilt up

When the outboard motor is in the tilt-up position, the tilt handle side must be in the upward direction (the starter handle side must look downward).



## CAUTION

The outboard motor is set in the correct tilt-up position in the usual condition, however, the outboard motor may be set in the wrong tilt-up position if the motor direction is sharply changed in course of tilting up.

If the outboard motor is set in a wrong position, try to tilt it up once more to set it in the correct position.

### Note

#### **For U.S.A. market only**

##### **High altitude:**

When engine operates at high altitude engine may need to have a high altitude kit installed. Otherwise, operating the engine at high altitude may increase its emissions and decrease fuel efficiency and performance. Please see "Product Warranty Information" for more detail.

## REMOVING AND CARRYING THE OUTBOARD MOTOR

### 1. Removing the outboard motor

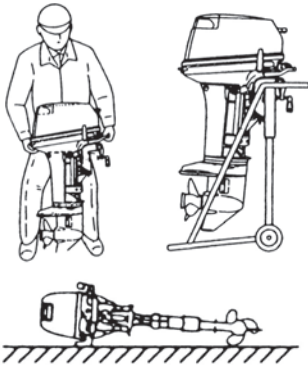
- ① Stop the engine.
- ② Close the fuel lock.
- ③ Remove the outboard motor from boat and completely drain the water from the gear case.

#### **CAUTION**

Engine may be hot immediately after operating and could cause burns if touched. Allow engine to cool down before attempting to carry the outboard.

### 2. Carrying the outboard motor

Keep the outboard motor in a vertical position when carrying.



#### **WARNING**

- Close air vent screw of fuel tank and fuel cock before carrying or storing outboard motor and fuel tank, or fuel may leak, potentially catching fire.
- Do not give a shock to an outboard motor during transportation. It becomes a cause of breakage.

### 3. Storing the outboard motor

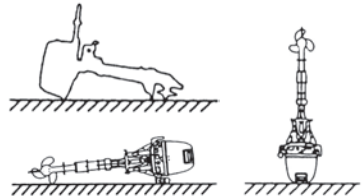
Outboard motor should be stored in a vertical position.

#### Note

If the outboard motor must be laid down be sure the tiller handle faces up as shown in the drawing above. Elevate power unit 2 inches to 4 inches if traveling to avoid oil spillage.

#### **CAUTION**

Do not carry or store outboard motor in any of positions described below. Otherwise, engine damage or property damage could result from leaking oil.





## TRAILERING

### **⚠ WARNING**

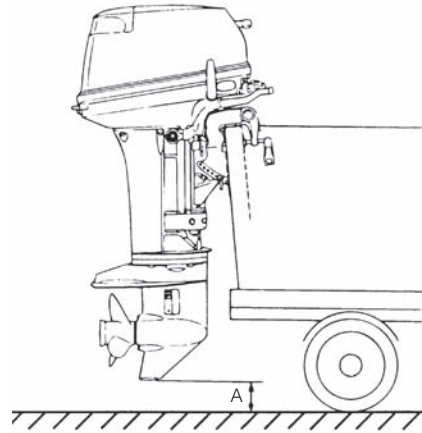
Do not go under outboard motor tilted up even if it is supported by support bar, or accidental fall of outboard motor could lead to severe personal injury.

### **⚠ WARNING**

Close air vent screw of fuel tank and fuel cock before carrying or storing outboard motor and fuel tank, or fuel may leak, potentially catching fire.

### **⚠ CAUTION**

When trailering the outboard motor should be in a vertical (normal running) position, fully down. Trailering in the tilted position may cause damage to the outboard motor, boat, etc.  
If trailering with outboard motor fully down is not available (the gear case skeg is too close to the road in a vertical position), fix the outboard motor securely using a device (like a transom saver bar) in the tilted position.



A: Ground clearance should be provided sufficiently.

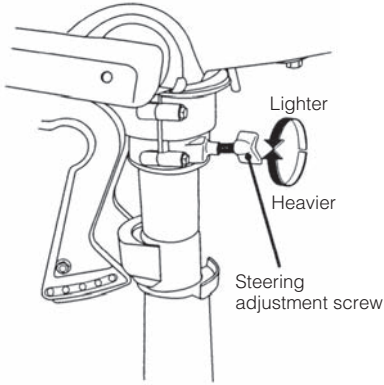
### **⚠ CAUTION**

The tilt support device supplied on your outboard motor is not intended for towing. It is intended to support the outboard motor while the boat is docked, beached, etc.

# ADJUSTMENT

## 1. Steering friction

The steering friction can be adjusted in accordance with your preference by turning the adjustment screw.

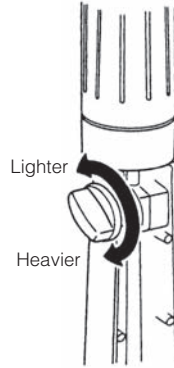


### Note

The steering adjustment screw is used to adjust the friction load of the steering, but not to fix the steering. Excess tightening of the adjustment screw may cause damage to the swivel bracket.

## 2. Throttle grip

Friction adjustment of the throttle grip can be made with the throttle adjustment screw.



### ! WARNING

Do not overtighten the throttle grip or remote control tensioner or it could result in difficulty of movement resulting in the loss of control causing an accident and could lead to severe injury.

# INSPECTION AND MAINTENANCE

## Care of your outboard motor

To keep your outboard motor in the best operating condition, it is very important that you perform daily and periodic maintenance as suggested in the maintenance schedules that follow.

### CAUTION

- Your personal safety and that of your passengers depends on how well you maintain your outboard motor. Carefully observe all of the inspection and maintenance procedures described in this section.
- The maintenance intervals shown in the checklist apply to an outboard motor in normal use. If you use your outboard motor under severe conditions such as frequent full-throttle operation, frequent operation in brackish water, or for commercial use, maintenance should be performed at shorter intervals. If in doubt, consult your dealer for advice.
- We strongly recommend that you use only genuine replacement parts on your outboard motor. Damage to your outboard motor arising from the use of other than genuine parts is not covered under the warranty.

## EPA Emissions Regulations

EPA (United States Environmental Protection Agency) has emission regulations regulating air pollution from new outboard motors. All new outboard motors manufactured by us are certified to EPA as conforming to the requirements of the regulations. This certification depends upon factory standards. Therefore, factory specifications must be followed when servicing emission related controls, or making adjustments. **Maintenance, replacement, or repair of the emission control devices and systems may be performed by any marine SI (Spark Ignition) engine repair establishment or individual.**

## 1. Daily Inspection

Perform the following checks before and after use.



### WARNING

Do not use outboard motor if any abnormality is found during pre-operation check or it could result in severe damage to the motor or severe personal injury.

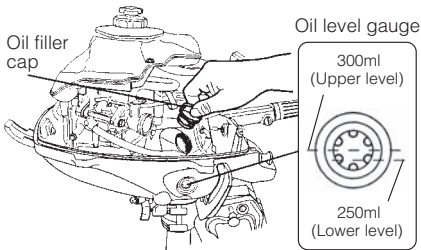
Item	Points to Check	Remedy
Fuel System	<ul style="list-style-type: none"> <li>● Check the amount of fuel in the tank.</li> <li>● Check for debris in the fuel filters.</li> <li>● Check the rubber hoses for fuel leakage.</li> </ul>	Fill fuel Clean or Replace Replace
Fuel Tank Cap	<ul style="list-style-type: none"> <li>● Check for crack, leakage, damage in the fuel tank cap.</li> <li>● Check for crack, damage in the gasket and teather.</li> <li>● Check for leakage at full close.</li> <li>● Check for ratchet performance.</li> </ul>	Replace Replace Replace Replace
Engine oil	<ul style="list-style-type: none"> <li>● Check the oil level, dirt and entering water.</li> </ul>	Fill fuel or Replace
Electrical Equipment	<ul style="list-style-type: none"> <li>● Check that the stop switch functions normally and make sure the lock plate is in right location</li> <li>● Check cords for loose connections and damage.</li> <li>● Check the spark plug for dirt,wear and carbon build-up.</li> </ul>	Remedy or replace  Correct or replace Clean or replace
Throttle System	<ul style="list-style-type: none"> <li>● Check that the carburetor choke valve functions normally.</li> <li>● Check carburetor linkage is warking normally when turning the throttle grip.</li> </ul>	Replace Correct
Recoil Starter	<ul style="list-style-type: none"> <li>● Check the rope for wear and chafing.</li> <li>● Check the ratchet engagement.</li> </ul>	Replace Correct or replace
Clutch and Propeller System	<ul style="list-style-type: none"> <li>● Check that the clutch engages correctly when operation the shift lever.</li> <li>● Visually check the propeller and shear pin for bent or damaged blades.</li> <li>● Check that the split pin is on the propeller.</li> </ul>	Adjust  Replace
Installation of Motor	<ul style="list-style-type: none"> <li>● Check the clamp screws attaching the motor to the boat for tightness.</li> <li>● Check the thrust rod installation.</li> </ul>	Tighten
Cooling Water	<ul style="list-style-type: none"> <li>● Check that cooling water is discharged from the cooling water check port after the engine has started.</li> </ul>	
Tools and Spares	<ul style="list-style-type: none"> <li>● Check that there are tools and spare parts for replacing spark plugs, the propeller, etc.</li> <li>● Check that you have the spare rope.</li> </ul>	
Other parts	<ul style="list-style-type: none"> <li>● Check if the anode is securely installed.</li> <li>● Check the anode for corrosion and deformation.</li> </ul>	Repair if necessary Replace

## Maintaining engine oil

If the engine oil level is low, the life of the engine will be shortened significantly.

### ■ Checking oil level

- ① Stop the engine and set it in a vertical position.
- ② Remove the top cowl.
- ③ Check the oil level by the oil level gauge.



### ○ Notes

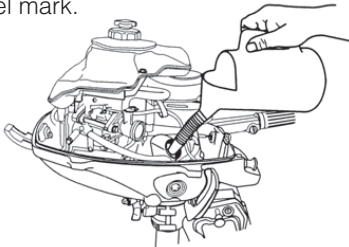
The oil level should be checked when the engine is cold.

### ○ Notes

Consult with an authorized dealer if the engine oil is milky color, or appears contaminated.

### ■ Filling engine oil

If the oil level is low, or at lowest mark, add recommended oil to the upper level mark.



## ⚠ CAUTION

- Do not add engine oil of brand and grade other than existing one. In case engine oil of other brand or grade is added, drain all oil and ask dealer for treatment.
- In case other than engine oil such as gasoline is put in the oil chamber, empty the chamber and ask dealer for treatment.
- When replenishing engine oil, be careful not to allow entry of foreign matters such as dust and water into oil chamber.
- Wipe off engine oil well immediately if spilled.
- Do not replenish engine oil over upper limit. If overfilled, remove oil to upper limit. If engine oil is over the upper limit, it can leak potentially leading to engine damage.

### Washing outboard motor

If outboard motor is used in salt water, brackish water or water with a high acidic level, use fresh water to remove salt, chemicals or mud from exterior and cooling water passage after every cruising or before storing outboard motor for long time. Before flushing, remove the propeller and the forward thrust holder.

#### **⚠ CAUTION**

Keep cooling water passage free of clogs, or lack of cooling water flow could lead to engine overheating, potentially resulting in engine trouble.

#### **○ Notes**

It is recommended to check chemical properties of water on which your outboard motor is regularly used.

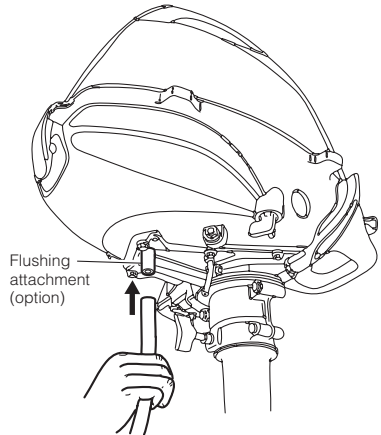
#### **⚠ WARNING**

Do not start engine without removing propeller, or accidentally turning propeller could cause personal injury.

#### **⚠ WARNING**

Never start or operate the engine indoors or in any space which is not well ventilated. Exhaust gas contains carbon monoxide, a colorless and odorless gas which can be fatal if inhaled for any length of time.

- Remove the water plug from the motor, and screw in the flushing attachment. Connect a hose to the flushing attachment.
- With the shift lever in Neutral (N), run the engine at a idle speed while flushing the cooling system to ensure all sea water and mud are removed.



#### **⚠ CAUTION**

Keep engine at idle speed during flushing.

## Replacing the propeller and shear pin

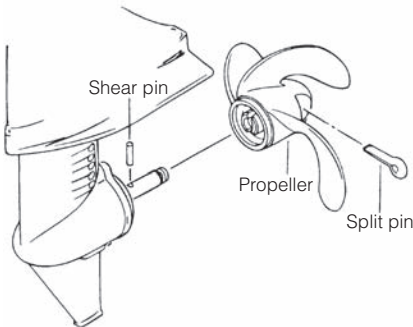
A worn-out or bent propeller will lower the motor's performance, and cause engine trouble.

Before removing the propeller, remove the spark plug caps from the spark plugs to protect against personal injury.

### **⚠ WARNING**

Do not begin propeller removal and installation procedure with spark plug caps attached, shift in forward, engine stop cord attached to the switch, or engine could accidentally start leading to serious personal injury. Disconnect battery cable if possible.

- ① Pull out the split pin from the propeller boss and remove the propeller from the shaft.
- ② Remove the shear pin from the shaft.
- ③ Install a new shear pin.



### **⚠ WARNING**

Do not hold propeller with hand(s) when removing propeller split pin. Put a piece of wood block between propeller blade and anti-ventilation plate to hold propeller.

### **⚠ CAUTION**

- Do not reuse split pin.
- After installing split pin, spread the pin apart to prevent it from falling out which could lead to the propeller coming off during operation.

## Replacing the spark plug

### **⚠ WARNING**

- Do not reuse spark plug with damaged insulation, or sparks can leak through crack, potentially leading to electric shock, explosion and/or fire.
- Do not touch spark plugs immediately after stopping engine as they will be hot and could cause severe burns if touched. Allow motor to cool down first.

If the spark plug is fouled, has carbon build up, or is worn, it should be replaced.

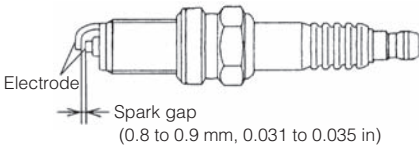
When reusing spark plugs, remove dirt from the electrodes and adjust spark gap to specification.

○ Notes

When inspecting the plug, always clean the gasket surface and use a new gasket. Wipe off any dirt from the threads and screw in the spark plug to the correct torque.

- ① Stop the engine.
- ② Remove the top cowl.
- ③ Remove the spark plug caps.
- ④ Remove the spark plugs by turning it counter-clockwise, using a 5/8" socket wrench and handle.
- ⑤ Attach spark plug and tighten to specified torque.

Use spark plug NGK DCPR-6E.



○ Notes

◎ Spark plug torque :  
18.0Nm(13.3ft-lb)(1.8kgf-m)

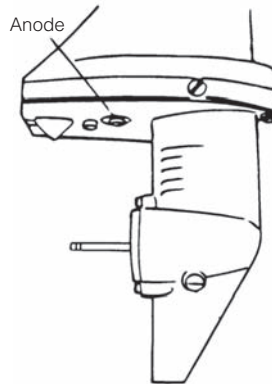
If a torque-wrench is not available when you are fitting a spark plug, a good estimate of the correct torque is 1/4 to 1/2 a turn past finger-tight. Have the spark plug adjusted to the correct torque as soon as possible with a torque-wrench.

Replacing the anode

A sacrificial anode protects the outboard motor from galvanic corrosion. Anode is located on the gear case. When the anode is eroded more than 2/3, replace it.

○ Notes

- Never grease or paint the anode.
- At each inspection re-tighten the anode attaching bolt. As it is likely to be subjected to electrolytic corrosion.



**! WARNING**

- Be sure that outboard motor is secured to transom or service stand, or accidental drop or fall of outboard motor could lead to severe personal injury.
- Be sure to lock outboard motor if it is tilted up, or accidental fall of outboard motor could lead to severe personal injury.
- Do not go under outboard motor tilted up and locked, or accidental fall of outboard motor could lead to severe personal injury.



## 2. Periodic Inspection

It is important to inspect and maintain your outboard motor regularly. At each interval on the chart below, be sure to perform the indicated servicing. Maintenance intervals should be determined according to the number of hours or number of months, whichever comes first.

Description		Inspection intervals				Inspection procedure	Remarks
		First 20 hours or 1 month	Every 50 hours or 3 months	Every 100 hours or 6 months	Every 200 hours or 1 year		
Fuel System	Carburetor *1			○	○	Strip clean, and adjust.	
	Fuel filter	○	○	○	○	Check and clean or Replace if necessary.	
	Piping/Hoses *2	○	○	○	○	Check and clean or Replace if necessary.	
	Fuel tank *2	○	○	○	○	Clean	
	Fuel tank cap *2	○	○	○	○	Check and clean or Replace if necessary.	
	Fuel pump *3	○	○	○	○	Check and clean or Replace if necessary.	Disassemble and check each 300 hours.
Ignition	Spark plug	○		○	○	Check gaps. Remove carbon deposits or Replace if necessary.	0.8-0.9mm (0.031-0.035 in)
	Ignition timing *1	○		○	○	Check timing	
Starting System	Starter rope *1	○	○	○	○	Check for wear or chafing.	
Engine	Engine oil	Replace ○		Replace ○	Replace ○	Replace if necessary.	(Reference P42)
	Valve Clearance *1	○		○	○	Check & adjust.	
	Thermostat *1			○	○	Check and Replace if necessary.	
Lower Unit	Propeller	○	○	○	○	Check for bent blades, damage, wear.	
	Shear pin and split pin	○	○	○	○	Check or Replace if necessary.	
	Gear oil	Replace ○		Replace ○	Replace ○	Change or replenish-oil and check for water leaks.	180mL (6.1 fl. oz)
	Water pump *1		○	○	○	Check for wear or damage.	Replace impeller every 12 months.
Bolts and Nuts		○		○	○	Retighten	
Sliding and Rotating Parts. Grease Nipples.		○	○	○	○	Apply and pump in grease.	
Outer Equipment		○	○	○	○	Check for corrosion.	
Anode			○	○	○	Check for corrosion and deformation.	Replace if necessary.

\*1 Have this handled by your dealer.

\*2 In USA, you have to use EPA approved part. (See P16 - P17).

\*3 Equipped for US and CANADA model.

**Notes**

Your outboard motor should receive careful, and complete inspection at 300 hours. This is the best time for major maintenance procedures to be carried out.

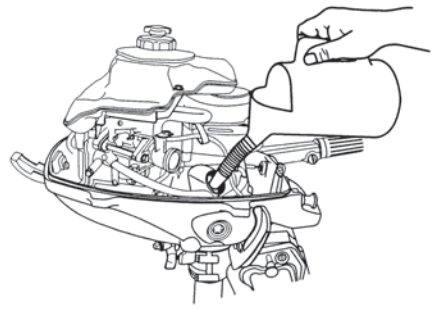
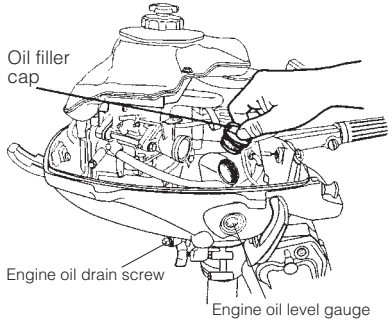
**Replacing engine oil**

Engine oil mixed with dust or water will dramatically shorten the life of the engine.

To replacing engine oil:

- ① Stop the engine and set it in a tilted position.
- ② Remove the top cowl and oil filler cap. Allow it to cool.
- ③ Put a oil drain pan under the oil drain screw.
- ④ Remove the oil drain screw and completely drain oil from the engine.
- ⑤ Tighten the oil drain screw.
- ⑥ Fill the engine through filler port with recommended oil (see chart below) to the upper level mark.
- ⑦ Tighten the oil filler cap.

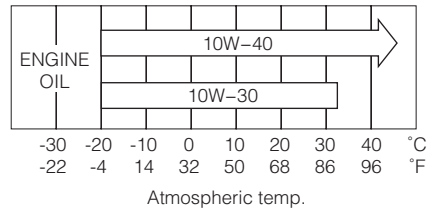
10



Use only high quality 4-stroke engine oil to insure performance and prolonged engine life.

Use NMMA FC-W certified 4-stroke outboard oil below.

10W-30: is recommended for use in all temperature.



You can also use oils that carry the API rating of SF, SG, SH, SJ, SL, or SM. Select the appropriate viscosity, based on atmospheric temperature, from the chart below.

**CAUTION**

Use of engine oils that do not meet these requirements will result in reduced engine life, and other engine problems.

**⚠ CAUTION**

You may be injured due to high engine temperatures if you fill engine oil just after stopping. Changing engine oil should be done after the engine has been cooled.

**⚠ CAUTION**

- Do not overfill engine oil, or engine oil could leak and/or engine could be damaged. If engine oil level is over upper limit marks of oil gauge, drain oil to level lower than upper limit.
- Be sure that outboard motor is in upright and level position when checking or changing oil.

**○ Notes**

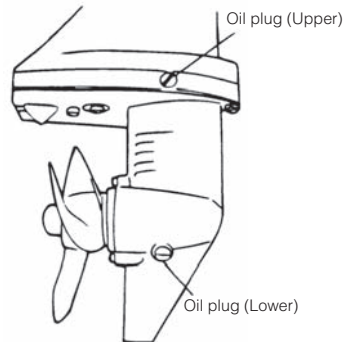
- If any amount of water is found in engine oil, making it milky white, consult dealer.
- If engine oil is contaminated with fuel, emitting strong fuel smell, consult dealer.
- Some oil dilution is normal if engine is idled or trolled for long periods, especially in cooler water temperatures.

## Replacing gear oil

**⚠ WARNING**

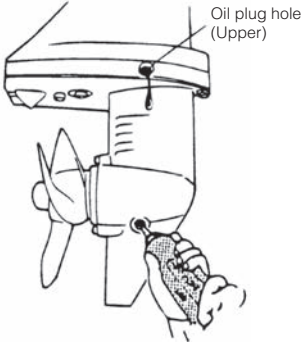
- Be sure that outboard motor is secured to transom or service stand, or accidental drop or fall of outboard motor could lead to severe personal injury.
- Be sure to lock outboard motor if it is tilted up, or accidental fall of outboard motor could lead to severe personal injury.
- Do not go under outboard motor tilted up and locked, or accidental fall of outboard motor could lead to severe personal injury.

- ① Remove the oil plugs (upper and lower), and completely drain the gear oil into a pan.

**⚠ CAUTION**

Do not reuse oil plug gasket. Always use new gasket and tighten oil plug properly to prevent entry of water into lower unit.

- ② Insert the oil tube nozzle into the lower oil plug hole, and fill with gear oil by squeezing the oil tube until oil flows out of the upper plug hole.



- ③ Install the upper oil plug, and then remove oil tube nozzle and install the lower oil plug.

○ Notes

If water in the oil, giving it a milky colored appearance. Contact your dealer.

○ Notes

Use genuine gear oil or the recommended one (API GL-5: SAE #80 to #90).  
Required volume: approx. 180 ml.

### 3. Off-season storage

Before you put your outboard motor in storage, it is a good opportunity to have it serviced and prepared by your dealer.

#### CAUTION

Before servicing the motor for storage:

- Remove the spark plug caps from the spark plugs.
- Do not run the motor out of the water.

- ① Wash the engine exterior and flush the cooling water system thoroughly with fresh water. Drain the water completely. (Reference P38) Wipe off any surface water with an oily rag.
- ② Use a dry cloth to completely wipe off water and salt from the electrical components.
- ③ Drain all fuel from the fuel hoses, and carburetor, and clean these parts.  
Keep in mind that if gasoline is kept in the carburetor for a long time, gum and varnish will develop, causing the float valve to stick, restricting the fuel flow.
- ④ Remove the spark plugs and spray storage oil (available from an authorized dealer) into the combustion chamber through the spark plug holes while slowly turning the motor over using the recoil starter.
- ⑤ Change the engine oil.
- ⑥ Change the gear oil in the gear case.

- ⑦ Apply grease to the propeller shaft.
- ⑧ Apply rust prevention to nuts and bolts, etc.
- ⑨ Stand the outboard motor up vertically in a dry place, or tiller handle face up and placed. (Reference P32)

#### WARNING

Be sure to use cloth to remove fuel remaining in the cowl and dispose of it in accordance with local fire prevention and environment protection regulations.

### 4. Pre-season check

Check that the shift and throttle function properly.  
(Be sure to turn the propeller shaft when checking the shift function or else the shift linkage may be damaged.)

#### Notes

The following steps must be taken when first using the engine after winter storage.

- ① Fill fuel tank completely.
- ② Warm up the engine for 3 minutes in the Neutral (N) position.
- ③ Run the engine for 5 minutes at the slowest speed.
- ④ Run the engine for 10 minutes at half speed.

In Steps ② and ③ above, the oil used for storage inside the engine will be flushed out to assure optimum performance.

### 5. Motor submerged in water

After taking your outboard motor out of the water, immediately take it to your dealer.

The following are the emergency measures to be taken for a submerged outboard motor, if you can not take it your dealer right away.

- ① Wash the outboard motor with fresh water to remove salt or dirt.
- ② Remove the engine oil drain screw and completely drain water and oil from the engine.
- ③ Remove the spark plugs, and completely drain the water from the engine by pulling the recoil starter several times.

Replace oil filter and oil to the correct level.

The oil and filter may need to be changed again after running a short period to get all moisture completely out of the crankcase.

- ④ Inject a sufficient amount of engine oil through the spark plug holes. Pull the recoil starter several times to circulate the oil throughout the outboard motor.
- ⑤ Fill new engine oil.

#### CAUTION

Do not attempt to start submerged outboard motor immediately after it is recovered, or engine could be severely damaged.

### 6. Cold weather precautions

If you moor your boat in cold weather at temperatures below 0°C (32°F), there is the danger of water freezing in the cooling water pump, which may damage the pump, impeller, etc. To avoid this problem, submerge the lower half of the outboard motor into the water.

### 7. Checking after striking underwater object

Striking the sea bottom or an underwater object may severely damage the outboard motor. Immediately bring the outboard motor to the dealer and ask for the following checks.

- ① Looseness or damage of power unit installation bolts, gear case and extension case bolts, propeller shaft housing bolts, propeller or propeller shaft upper and lower mount rubber bolts, and/or mount bracket bolts.

Ask an authorized dealer to tighten any loose bolts and nuts, and to replace damaged parts.

- ② Damage to mount rubber, the tilt stopper, thrust rod, gears and clutch, and/or propeller.

Ask an authorized dealer to replace damaged or defective parts.

# TROUBLESHOOTING

If you encounter a problem, consult the check list below to determine the cause and to take the proper action.

An authorized dealer will always be happy to provide any assistance and information.

		Engine failing to start	Engine starting but stopping soon	Poor idling	Poor acceleration	Engine speed abnormally high	Engine speed abnormally low	Boat speed low	Overheating of engine	Possible cause
FUEL SYSTEM	●	●								Empty fuel tank
	●	●	●	●		●	●			Deformed or damaged fuel hose
	●	●	●	●		●	●	●		Closed air vent on fuel tank
	●	●	●	●		●	●	●		Clogged fuel filter, fuel pump, or carburetor
			●	●		●	●	●		Use of improper engine oil
	●	●	●	●			●	●		Use of improper gasoline
	●			●						Excessive supply of fuel
	●	●	●	●			●	●	●	Poor carburetor adjustment
E/SYSTEM	●	●	●	●		●	●	●		Spark plug other than specified
	●	●	●	●		●	●			Dirt,soot,etc. on spark plug
	●	●	●	●		●	●			No spark or weak spark
	●									Short circuit of engine stop switch

	Engine failing to start	Engine starting but stopping soon	Poor idling	Poor acceleration	Engine speed abnormally high	Engine speed abnormally low	Boat speed low	Overheating of engine	Possible cause
ELECTRICAL SYSTEM	●		●	●		●	●	Ignition timing incorrect	
	●							Lock plate not fitted to stop switch	
	●							Disconnection of wire or loose ground connection	
OTHERS	●		●	●		●	●	Incorrect adjustment of throttle link	
							● ●	Insufficient cooling water flow, clogged or defective pump	
			●				● ●	Faulty thermostat	
				● ●			● ●	Cavitation or ventilation	
				● ●	●		● ●	Incorrect propeller selection	
			●	● ●	●		● ●	Damaged and bent propeller	
				● ●			● ●	Improper thrust rod position	
				● ●	●		● ●	Unbalanced load on boat	
				● ●	●		● ●	Transom too high or too low	
		●	●	●		●		Low compression	
		●					●	Carbon deposits in the combustion chamber	
	Engine makes noise							Too much the valve clearance	



## ■ TOOL KIT AND SPARE PARTS

The following a list of the tools and spare parts provided with the motor.

Items		Quantity	Remark
Service tools	Tool bag	1	
	Pliers	1	
	Socket wrench	1	10 × 13 mm
	Socket wrench	1	16 mm
	Socket wrench handle	1	
	Screwdrivers	1	Cross-and straight-point
	Screwdriver handle	1	
Spare parts	Starter rope	1	Ø4-1,000 mm
	Spark plug	1	NGK : DCPR6E
	Shear pin	1	
	Split pin	1	

# OPTIONAL ACCESSORIES



Propeller



Flushing attachment



# PROPELLER TABLE

Use a genuine propeller.

Select a propeller that will allow the engine to reach the recommended wide open throttle operating range when cruising at wide-open throttle.

Wide open throttle operating range is :

- 3.5HP : 5,000 to 6,000 rpm

## Notes

Each size shows number of propeller blades × diameters × pitch.

	Propeller Mark	Propeller Size Diameter × pitch	Material	Remarks
Light boats	7	3 × 188 × 178mm 3 × 7.4 × 7.0inch	Plastics	Standard
	6	3 × 188 × 145mm 3 × 7.4 × 5.7inch	Plastics	Option
Aluminum			Option	
Heavy boats	4.5	3 × 188 × 110mm 3 × 7.4 × 4.3inch	Plastics	Option

# Product Warranty Information

## BOMBARDIER RECREATIONAL PRODUCTS LIMITED WARRANTY FOR 2012 EVINRUDE OUTBOARD ENGINES SOLD IN THE UNITED STATES AND CANADA

### 1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products\* ("BRP") warrants its 2012 *Evinrude*® outboard engines sold by authorized *Evinrude* dealers in the fifty United States and Canada ("Product") from defects in material or workmanship for the period and under the conditions described below.

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

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

### 3. LIMITATIONS OF LIABILITY

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

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

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

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

#### 4. WARRANTY COVERAGE PERIOD

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

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

TWELVE (12) CONSECUTIVE MONTHS for commercial use, except that exhaust emission-related components are warranted for sixty (60) consecutive months or one hundred seventy five (175) hours of engine use, whichever occurs first; and evaporative emission related components are warranted for twenty-four (24) consecutive months. 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. Please see your Authorized *Evinrude* Outboard Engine Dealer for emission-related service.

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

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

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

#### 5. CONDITIONS TO HAVE WARRANTY COVERAGE

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

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

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

#### 6. WHAT TO DO TO OBTAIN WARRANTY COVERAGE

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

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

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

## 7. WHAT BRP WILL DO

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

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

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

## 8. TRANSFER

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

## 9. CONSUMER ASSISTANCE

- In the event of a controversy or dispute in connection with this BRP limited warranty, BRP recommends that you first try to resolve the issue at the dealership level by discussing the issue with Dealer's service manager or owner;
- If further assistance is required, please contact BRP US Inc. / Outboard Engines Division, After Sales Support, P.O Box 597, Sturtevant, WI 53177, 1-847-689-7090.

## **BOMBARDIER RECREATIONAL PRODUCTS LIMITED WARRANTY FOR 2012 EVINRUDE OUTBOARD ENGINES SOLD OUTSIDE THE UNITED STATES AND CANADA**

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

If further assistance is required, please contact BRP US Inc. / Outboard Engines Division, After Sales Support, P.O Box 597, Sturtevant, WI 53177, or the affiliate of BRP where the Product was registered for warranty.

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

Limited Warranty Revision US/CA March 2011

# California Emission Control Warranty Statement

Your Evinrude 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
- Better Fuel Economy
- Longer Emission Warranty

### ***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](http://www.arb.ca.gov)

## **YOUR EMISSION CONTROL WARRANTY RIGHTS AND OBLIGATION**

The California Air Resources Board and Bombardier Recreational Products ("BRP") are pleased to explain the emission control system warranty on your 2012 Evinrude 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 Evinrude outboards certified and produced by BRP for sale in California, that are originally sold in California to a California resident, or subsequently warranty-registered to a California resident. The BRP U.S. and Canada limited warranty conditions for Evinrude outboards are still applicable to these models with the necessary modifications.

Select emission control parts of your Evinrude 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:

<b>1. Electrical System</b>	<b>5. Air Induction System</b>	<b>6. Fuel System</b>
Ignition Control Module	Timing Chain/Belt and Tensioner	Fuel Pump
Spark Plugs, Boots and/or Wires	Camshaft	Carburetor and Internal Parts
Ignition Coils	Throttle Linkage	Accelerator Pump
Wiring Harness	Intake Manifold	Choke System
<b>2. Exhaust System</b>	<b>3. Sensors</b>	Crankcase Ventilation System
Engine Holder	Cylinder Temperature Sensor	Fuel Lines Fittings and Clamps
Oil Pan	<b>4. Gaskets</b>	<b>7. Other</b>
Exhaust Housing	All Emission Component Gaskets	Thermostat
Exhaust Valves		

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 US Inc. / Outboard Engines Division, After Sales Support, P.O. Box 597, Sturtevant, WI 53177, 1-847-689-7090 or visit [www.evinrude.com](http://www.evinrude.com).



# Product Warranty Information

## BRP LIMITED WARRANTY FOR 2012 EVINRUDE OUTBOARD ENGINES USED IN EUROPEAN UNION MEMBER STATES, TURKEY, AUSTRALIA, NEW ZEALAND AND JAPAN

### 1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP") warrants its Evinrude® outboard engines that are sold by authorized Evinrude distributors / dealers and exclusively used, during the warranty period, in European Union member states, Turkey, Australia, New Zealand or Japan ("Product") from defects in material or workmanship for the period and under the conditions described below. For the purpose of this limited warranty.

All Evinrude/Johnson® Genuine Parts and accessories, including but not limited to propellers, gauges, oil tanks, remote controls, wiring and key switches that are installed by an authorized distributor / dealer at the time of sale, whether or not shipped with Product, bear the standard BRP limited warranty for Evinrude/Johnson Genuine Parts and accessories. See your authorized distributor / dealer for a full copy of such limited warranty.

### 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:

36 CONSECUTIVE MONTHS for private, recreational use; or

12 CONSECUTIVE MONTHS OR 750 HOURS OF OPERATION as determined by Product's Engine Management Module (EMM), whichever occurs first, for commercial use. 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.

### 3. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only if each of the following conditions has been fulfilled:

- a. Evinrude outboard engines must be purchased as new and unused by its first owner from a BRP distributor / dealer authorized to distribute Evinrude products in the country in which the sale occurred (hereinafter "Distributor / Dealer"),
- b. and then only after the BRP specified pre delivery inspection process has been completed and documented by the purchaser and Distributor / Dealer.
- c. The product must have undergone proper registration of Product by an authorized BRP Distributor / Dealer.
- d. The Evinrude products must be purchased in the country or union of countries in which the purchaser resides.
- e. Routine maintenance outlined in the operator's guide must be timely performed in order to make warranty coverage contingent upon proof of proper maintenance.

BRP will not honour this limited warranty to any private use owner or commercial use owner if the preceding conditions have not been met. 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

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

The Owner must also present proof of purchase to the authorized BRP Distributor / 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.

Note that the notification period is subject to the applicable national or local legislation in your country.

#### 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 labour, at any authorized Distributor / Dealer, under the conditions described above.

BRP's responsibility is limited to making the required repairs or replacements of 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 country of original sale, 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, lower unit oil change, lubrication, linkage adjustments and replacement of fuses, zinc anodes, thermostats, starter motor bushings, trim motor brushes, filters and spark plugs;
- Damage caused by improper installation or lack of 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 Distributor / 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 accident, submersion, water ingestion, fire, theft, vandalism or any act of God;
- Operation 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; or
- 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 has been altered or modified to change its intended use; or
- Product is or has been used for racing or any other competitive activity, 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 Distributor / 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 COUNTRIES, 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 COUNTRY TO COUNTRY, OR PROVINCE TO PROVINCE.

Neither the Distributor any BRP Distributor / Dealer nor any other person has been 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 Distributor / 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 distributorship / dealership level by discussing the issue with Distributor's / Dealer's service manager or owner;

You can also locate A BRP office or distributor through our website at [www.brp.com](http://www.brp.com).

If further assistance is required, please contact the Customer Support Services of a BRP affiliate at one of the following numbers, depending on your location:

Australia and New Zealand - Telephone 612-9794-6600, Fax 612-9794-6697

Europe, Turkey, Cyprus - Telephone (41) 21 318 78 00, Fax (41) 21 318 78 61

Japan - Telephone (65) 622-767-55, Fax (65) 622-629-32

Limited Warranty Revision EU March 2011

# Product Warranty Information

## **BRP LIMITED WARRANTY FOR 2012 EVINRUDE OUTBOARD ENGINES USED IN AFRICA, MIDDLE EAST, LATIN AMERICA, PACIFIC ISLANDS, ASIA, ALBANIA, FORMER YUGOSLAVIAN REPUBLIC OF MACEDONIA, SERBIA AND MONTENEGRO, BOSNIA AND HERZEGOVINA AND THE COMMONWEALTH OF INDEPENDENT STATES**

### **1. SCOPE OF THE LIMITED WARRANTY**

Bombardier Recreational Products Inc. ("BRP") warrants its Evinrude® outboard engines ("Product") from defects in material or workmanship for the period and under the conditions described below, when they are sold by authorized Evinrude distributors / dealers and used, at any point during the warranty period, in the following territories:

- Africa,
- Middle East (excluding Turkey),
- Latin America (including but not limited to the Caribbean Islands, Bahamas and Bermuda),
- Pacific Islands (excluding Hawaii),
- Asia (excluding Japan),
- Albania, Former Yugoslavian Republic of Macedonia, Serbia and Montenegro,
- Bosnia and Herzegovina, or
- Commonwealth of Independent States (former Soviet Union) (excluding Lithuania, Latvia and Estonia)

All Evinrude/Johnson® Genuine Parts and accessories, including but not limited to propellers, gauges, oil tanks, remote controls, wiring and key switches that are installed by an authorized distributor / dealer at the time of sale, whether or not shipped with Product, bear the standard BRP limited warranty for Evinrude/Johnson Genuine Parts and accessories. See your authorized distributor / dealer for a full copy of such limited warranty.

### **2. EXCLUSIONS - ARE NOT WARRANTED:**

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, lower unit oil change, lubrication, linkage adjustments and replacement of fuses, zinc anodes, thermostats, starter motor bushings, trim motor brushes, filters and spark plugs;
- Damage caused by improper installation or lack of 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 Distributor / 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 accident, submersion, water ingestion, fire, theft, vandalism or any act of God;
- Operation 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; or
- 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 has been altered or modified to change its intended use; or
- Product is or has been used for racing or any other competitive activity, at any point, even by a prior owner.

### 3. LIMITATIONS OF LIABILITY

THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES 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 Distributor / 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 DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND 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.

Neither the Distributor / Dealer, any BRP dealer nor any other person is authorized to make any affirmation, representation or warranty regarding Product other than those contained in this limited warranty and, if made, shall not be enforceable against BRP.

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

### 4. WARRANTY COVERAGE PERIOD

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

36 CONSECUTIVE MONTHS OR 750 HOURS OF OPERATION as determined by Product's Engine Management Module (EMM), whichever occurs first, for private, recreational use; or

12 CONSECUTIVE MONTHS OR 750 HOURS OF OPERATION as determined by Product's Engine Management Module (EMM), whichever occurs first, for commercial use. 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.

### 5. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only if each of the following conditions has been fulfilled:

- a. The Evinrude outboard engines must be purchased as new and unused by its first owner from a BRP distributor / dealer authorized to distribute Evinrude products in the country in which the sale occurred ("Distributor / Dealer").
- b. The BRP specified pre delivery inspection process must be completed and documented by the purchaser and Distributor / Dealer.
- c. The product must have undergone proper registration by an authorized BRP distributor/dealer.
- d. The Evinrude outboard engines must be purchased in the country or union of countries in which the purchaser resides.
- e. Product routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

BRP will not honour this limited warranty to any private owner use owner or commercial use owner if the preceding conditions have not been met. Such limitations are necessary in order to allow BRP to protect the safety of its products, its consumers, and the general public.

## 6. WHAT TO DO TO OBTAIN WARRANTY COVERAGE

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

The Owner must also present proof of purchase to the authorized BRP Distributor / Dealer for warranty repairs and must sign the repair/work order prior to the start of the repair in order to validate the warranty repair.

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

## 7. WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing or replacing parts of Product found to be defective in material or workmanship, in the reasonable judgment of BRP. Such repair or replacement of parts will be done without charge for parts and labour, at any authorized Distributor / Dealer. BRP's responsibility is limited to making the required repairs or replacements of 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 country of original sale, Owner will bear responsibility for any additional charges due to local practices and conditions, such as, but not limited to, freight, insurance, taxes, license fees, import duties, and any and all other financial charges, including those levied by governments, states, territories and their respective agencies.

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

## 8. TRANSFER

If the ownership of Product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that the former or new Owner promptly contacts BRP or Distributor / 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 authorized BRP distributorship / dealership level by discussing the issue with Distributor's / Dealer's service manager or owner;

You can also locate A BRP office or distributor through our website at [www.brp.com](http://www.brp.com).

If further assistance is required, please contact the Customer Support Services of a BRP affiliate at one of the following numbers, depending on your location:

Asia - Telephone (65) 622-767-55, Fax (65) 622-629-32

Africa, Middle East, Albania, Former Yugoslavian Republic of Macedonia, Serbia and Montenegro, Bosnia and Herzegovina and Commonwealth of Independent States (former Soviet Union)  
-Telephone (41) 21 318 78 00, Fax (41) 21 318 78 61

Latin America (excluding Brazil) - Telephone 954-846-1442, Fax 954-846-1478

Brazil - Telephone 55 (19) 3246-2100, Fax 55 (19) 3246-3800

Pacific Islands - Telephone 612-9794-6600, Fax 612-9794-6697

Limited Warranty Revision Asia/Latin Am March 2011

## Readiness Test

The Operator's Readiness Test...

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

### **WARNING**

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

## Frequently Asked Questions

*What fuel octane is recommended for my Evinrude 4-Stroke outboard?*

Evinrude 4-Stroke outboards require a minimum octane of 87 (U.S.). Use of higher octane fuels is not harmful, but also not necessary.

*What kind of oil does my Evinrude 4-Stroke outboard require?*

Evinrude/Johnson Ultra 4-Stroke outboard oil is recommended for use in Evinrude 4-Stroke outboards.

If Evinrude/Johnson Ultra 4-Stroke outboard oil is not available, use a high quality SAE 10W-30, or 10W-40 oil with the NMMA certification FC-W, or with API rating SF, SG, SH, SJ, SI, SM.

Choose 10W-30, or 10W-40 oil based on ambient operating temperature. Refer to Oil Requirements on page 19.

*Where should I take my Evinrude 4-Stroke outboard for service?*

For repairs covered under warranty, you must take your Evinrude 4-Stroke outboard to an authorized dealer. BRP-approved dealers and distributors have received the necessary training to properly service your outboard. Contact BRP for an authorized Evinrude dealer near you.

*Can I order replacement parts and accessories for my Evinrude 4-Stroke outboard?*

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

*Do I need to complete any paperwork when I move or sell my Evinrude 4-Stroke outboard?*

Yes. In order to maintain contact with you or the new Evinrude 4-Stroke owner, BRP requests you complete the form outlining Change of Address / Change of Ownership. This will ensure you or the new owner is made aware of any product announcements and keep the warranty coverage up-to-date.

*What do I need to do before storing my Evinrude 4Stroke outboard for the winter?*

Winterization is minimal. Refer to Off Season Storage for step-by-step instructions to store your Evinrude 4-Stroke outboard for the off-season.





# Change of Address / Change of Ownership

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

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



<b>Change of Address</b>	<input type="checkbox"/>	<b>Change of Ownership</b>	<input type="checkbox"/>
Model number	<input type="text"/>		
Serial Number	<input type="text"/>		
<b>Old Address/ Previous Owner</b>			
Last name	<input type="text"/>		
First name	<input type="text"/>	M.I.	<input type="text"/>
Address	<input type="text"/>		
City	<input type="text"/>	State	<input type="text"/>
Zip code	<input type="text"/>	Country	<input type="text"/>
Phone number	<input type="text"/>		
Signature	<input type="text"/>		Date <input type="text"/>
<b>New Address/ New Owner</b>			
Type of Use	<input type="checkbox"/> Recreational	<input type="checkbox"/> Commercial	<input type="checkbox"/> Government
Last name	<input type="text"/>		
First name	<input type="text"/>	M.I.	<input type="text"/>
Address	<input type="text"/>		
City	<input type="text"/>	State	<input type="text"/>
Zip code	<input type="text"/>	Country	<input type="text"/>
Phone number	<input type="text"/>		
Signature	<input type="text"/>		Date <input type="text"/>
<b>Dealer Information</b>			
Dealer name	<input type="text"/>		
Dealer number	<input type="text"/>		
Phone number	<input type="text"/>		
Contact name	<input type="text"/>		

In the U.S. or Canada, mail completed form to: BRP US Inc. / Outboard Engines Division  
After Sales Support  
P.O. Box 597  
Sturtevant, WI 53177

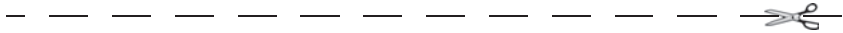


# Confirmation of Receipt

## Your Dealer

Name:	_____
	_____
Address:	_____
	_____
	_____

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



## Receipt

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









**EVINRUDE®**

SPEND MORE TIME ON THE WATER™

