Thank you for purchasing a Honda Outboard Motor.

This manual covers operation and maintenance of the Honda BF8D/ BF10D/BF15D/BF20D Outboard Motor.

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This manual should be considered a permanent part of the Outboard Motor and should remain with it if it is resold.

Throughout this manual, you will see safety messages proceeded by the following words and symbols. Here's what they mean:

Indicates serious injury or death WILL result if instructions are not followed.

AWARNING

Indicates a strong possibility that serious personal injury or death may result if instructions are not followed.

ACAUTION

Indicates a possibility that personal injury or equipment damage could result if instructions are not followed.

NOTICE

Indicates that equipment or property damage could result if instructions are not followed.

NOTE:Gives helpful information.

If a problem should arise, or if you have any questions about the Outboard Motor, consult an authorized Honda Outboard Motor dealer.

AWARNING

Honda Outboard Motors are designed to give safe and dependable service if operated according to instructions. Read and understand the Owner's Manual before operating the Outboard Motor. Failure to do so could result in personal injury or equipment damage.

• The illustration may vary according to the type.

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Model				BF	8D		
Туре	SF	ΗU	LHU	SHSU	LHSU	SRU	LRU
	SF	łD	LHD				LRD
Shaft Length		5	L	S	L	S	L
Tiller Handle	H	H	Η	Н	Н		
Remote Control						R	R
Electric starter				S	S	S	S
Tachometer						*	*
Battery charging DC receptacle		D	۲				

BF8D is provided with the following types according to the shaft length, control system, and start system.

- According to Shaft Length S: Short Shaft
- L: Long Shaft
 According to Control System H: Tiller Handle Control R: Remote Control
- *: Optional Equipment



Model				BF10D			
Туре	SHU	LHU	SHSU	LHSU	SRU	LRU	XRU
	SHD	LHD	SHSD	LHSD		LRD	
Shaft Length	S	L	S	L	S	L	Х
Tiller Handle	Н	Н	Н	Н			
Remote Control					R	R	R
Electric starter			S	S	S	S	S
Power Thrust Propeller							
Tachometer					*	*	*
Battery charging DC receptacle	•	•					

BF10D is provided with the following types according to the shaft length, control system, and start system.

- According to Shaft Length S: Short Shaft L: Long Shaft X: Ultra Long Shaft
 According to Control System H: Tiller Handle Control R: Remote Control
- *****: Optional Equipment



Model		BF15D									
Туре	SHU	LHU	SHSU	LHSU	SRU	LRU	SHGU	LHGD	SRTD	LRTU	XRTU
	SHD	LHD	SHSD	LHSD		LRD	SHGD			LRTD	
Shaft Length	S	L	S	L	S	L	S	L	S	L	Х
Tiller Handle	Н	Η	Н	Н			Н	Н			
Remote Control					R	R			R	R	R
Electric starter			S	S	S	S	S	S	S	S	S
Gas-assisted Tilt							G	G			
Power Tilt									Т	Т	Т
Tachometer					*	*			*	*	*
Battery charging DC receptacle	•	٠									

BF15D is provided with the following types according to the shaft length, control system, tilt system, and start system.

- According to Shaft Length S: Short Shaft L: Long Shaft
- X: Ultra Long Shaft
- According to Control System H: Tiller Handle Control R: Remote Control
- According to tilt system
 G: Gas-assisted Tilt (with gas damper assist function)
 T: Power Tilt (with hydraulic assist function)
- *: Optional Equipment



Model							BF20D						
Туре	SHU	LHU	SHSU	LHSU	SRU	LRU	SHGU	LHGU	SHTD	LHTD	SRTU	LRTU	XRTD
	SHD	LHD	SHSD	LHSD	SRD	LRD	SHGD	LHGD			SRTD	LRTD	
Shaft Length	S	L	S	L	S	L	S	L	S	L	S	L	Х
Tiller Handle	Н	Н	H	Н			Н	Н	Н	Н			
Remote Control					R	R					R	R	R
Electric starter			S	S	S	S	S	S	S	S	S	S	S
Gas-assisted Tilt							G	G					
Power Tilt									Т	Т	Т	Т	Т
Tachometer					*	*					*	*	*
Battery charging DC receptacle	•	•											

BF20D is provided with the following types according to the shaft length, control system, tilt system, and start system.

- According to Shaft Length S: Short Shaft L: Long Shaft
- X: Ultra Long Shaft
- According to Control System H: Tiller Handle Control R: Remote Control
- According to tilt system G: Gas-assisted Tilt (with gas damper assist function) T: Power Tilt (with hydraulic assist function)
- *: Optional Equipment



This Owner's Manual is using the following type names when it describes the operations special to a type.

Tiller handle type:H typeRemote control type:R typeGas-assisted tilt type:G typePower tilt type:T type

Check the type of your outboard motor and read this Owner's Manual thoroughly before operation. Texts with no type indication are the information and/or procedures common to all types.

FRAME SERIAL NUMBER

Record the frame and engine serial numbers for your reference. Refer to the serial numbers when ordering parts, and when making technical or warranty inquiries.

Frame serial number:



ENGINE SERIAL NUMBER

The frame serial number label is on top of the swivel case. The engine serial number label is on the cylinder block located in the front of the engine.

Engine serial number:

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1. SAFETY

SAFETY INFORMATION

For your safety and the safety of others, pay special attention to these precautions.

Operator Responsibility



 Honda outboard motor is designed to give safe and dependable service if operated according to instructions.
 Read and understand the Owner's Manual before operating the outboard motor. Failure to do so could result in personal injury or equipment damage.





- Gasoline is harmful or fatal if swallowed. Keep the fuel tank out of reach of children.
- Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped.
- Do not smoke or allow flames or sparks where the engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank. After refueling make sure

that the fuel tank cap is closed properly and securely.

• Be careful not to spill any fuel while refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled make sure that the area is dry before starting the engine.

SAFETY



Shift to the neutral position and then shift to the reverse position at low engine speed. Do not shift to the reverse position suddenly at high engine speed.



Moving parts can injure you. Install the engine cover after emergency starting the engine. Do not operate the outboard motor without the engine cover.

- Know how to stop the engine quickly in case of emergency. Understand the use of all controls.
- Do not exceed the boat manufacturer's power recommendation, and be sure that the outboard motor is properly mounted.
- Never permit anyone to operate the outboard motor without proper instruction.
- Stop the engine immediately if anyone falls overboard.
- Do not run the engine while the boat is near anyone in the water.
- Attach the emergency stop switch lanyard securely to the operator.
- Before operating the outboard motor, familiarize yourself with all laws and regulations relating to boating and the use of outboard motors.

- Do not attempt to modify the outboard motor.
- Always wear a life-jacket when on board.
- Do not operate the outboard motor without the engine cover. Exposed moving parts can cause injury.
- Do not remove any guards, labels, shields, covers or safety devices; they are installed for your safety.

Fire and Burn Hazards

Gasoline is extremely flammable, and gasoline vapor can explode. Use extreme care when handling gasoline. KEEP OUT OF REACH OF CHILDREN.

• Refuel in a well-ventilated area with the engine stopped. Keep flames and sparks away, and do not smoke in the area.

SAFETY

• Refuel carefully to avoid spilling fuel. Avoid overfilling the fuel tank (there should be no fuel in the filler neck). After refueling, tighten the fuel filler cap securely. If any fuel is spilled, make sure the area is dry before starting the engine.

The engine and exhaust system become very hot during operation and remain hot for a while after stopping. Contact with hot engine components can cause burns and may ignite some materials.

- Avoid touching a hot engine or exhaust system.
- Allow the engine to cool before performing maintenance or transporting.

Carbon Monoxide Poisoning Hazard

Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.

• If you run the engine in an area that is confined, or even partially enclosed, the air can become contaminated with a dangerous amount of exhaust gas. To keep exhaust gas from building up, provide adequate ventilation.

2. SAFETY LABEL LOCATIONS

[Equipped type]

These labels and indications warn you of potential hazards that can cause serious injury. Read the labels, indications and safety notes and precautions described in this manual carefully. If a label comes off or becomes hard to read, contact your Honda outboard motor dealer for a replacement.



SAFETY LABEL LOCATIONS





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SAFETY LABEL LOCATIONS



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SAFETY LABEL LOCATIONS

CE mark location [U type]



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3. COMPONENT IDENTIFICATION

ENGINE START BUTTON STARTER GRIP (Electric starter type) **OIL FILLER CAP** SHIFT LEVER **ENGINE COVER** TILLER HANDLE WATER HOSE JOINT HOLE (Inside engine cover) STERN BRACKET OIL LEVEL DIPSTICK TILT LEVER (except G and T type) WATER CHECK HOLE MANUAL RELIEFVALVE CLAMP (T type) SCREW **ENGINE OIL DRAIN SCREW TILT LEVER** R.J 圆 **TRANSOM ANGLE** I (G type) ADJUSTING ROD GEAR OIL LEVEL SCREW ANTICAVITATION ANODES PLATE **COOLING WATER INTAKE PORT** EXHAUST PORT PROPELLER **GEAR OIL DRAIN SCREW**

TILLER HANDLE TYPE (H type)

COMPONENT IDENTIFICATION



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COMPONENT IDENTIFICATION



COMPONENT IDENTIFICATION



COMPONENT IDENTIFICATION



4. CONTROLS (H type)



Pulling the starter grip operates the recoil starter to crank the engine for starting. Set the shift lever in the N (neutral) position before starting.

NOTE:

The engine does not start by pulling the starter grip unless the shift lever is in the N (neutral) position.



Use the engine start button to start the engine. Set the shift lever in the N (neutral) position before starting.

NOTE:

The engine does not start by pressing the electric starter button unless the shift lever is in the N (neutral) position.



Use the shift lever to run the boat in forward or reverse gear, or to cut off the engine power from the propeller. There are three positions for the shift lever.

FORWARD: The boat moves ahead. NEUTRAL: The engine power is cut off from the propeller. The boat does not move. REVERSE: The boat reverses.



The choke knob opens and closes the choke valve in the carburetor.

The ON position enriches the fuel mixture for starting a cold engine.

The OFF position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.



Turn the grip clockwise or counterclockwise to adjust the engine speed. Turning the grip in the direction shown by arrow increases the engine speed.



The curve on the grip label indicates the engine speed.



Use the engine throttle fixing dial to cruise at a certain constant speed. Turning the fixing dial clockwise fixes the throttle grip in place, and it is released by turning the fixing dial counterclockwise.



Press the engine stop switch to stop the engine.

Emergency Stop Switch Lanyard EMERGENCY STOP SWITCH CLIP EMERGENCY STOP SWITCH LANYARD The emergency stop switch lanyard is provided to stop the engine immediately when the operator falls

The engine stops when the clip at the end of the emergency stop switch lanyard is pulled out of the emergency stop switch. When operating the outboard motor, be sure to attach one end of the emergency stop switch lanyard securely to the operator.

overboard or away from the outboard

motor.



Remote Control Lever



adjustment can be performed with the remote control lever. Push up the neutral release lever before operating the remote control lever.



REMOTE CONTROL LEVER

Moving the lever to the FORWARD position (i.e. approximately 30° from the NEUTRAL position) engages the gear into forward. Moving the lever further from the FORWARD position will increase the throttle opening and the boat forward speed. **NEUTRAL**: Engine power is cut off from the propeller.

REVERSE:

Moving the lever to the REVERSE position (i.e. approximately 30° from the NEUTRAL position) engages the gear into reverse. Moving the lever further from the REVERSE position will increase the throttle opening and the boat reverse speed.



NOTICE

Do not leave the engine switch (ignition switch) ON (key in ON position) when the engine is not running as the battery will discharge.

NOTE:

The starter motor will not work unless the remote control lever is in the N (neutral) position.





The fast idle lever is provided with the engine speed adjustment function. The lever does not move unless the remote control lever is in the "N" (neutral) position. Note also that the control lever does not move unless the fast idle lever is in the "full close" position. Use the fast idle lever for engine warm-up after starting a cold engine and when starting a warm engine. Oil Pressure Indicator Light/ Buzzer



The oil pressure indicator light turns off and the buzzer sounds when the oil level is low and/or the engine lubrication system is faulty.



Overheat Warning Light/Buzzer



The overheat warning light turns on and the buzzer sounds when the engine cooling circuit is faulty. The engine speed slows down this time.





Manual Relief Valve

If the power tilt switch does not operate because of, for example, dead battery, the outboard motor can be tilted manually by opening the manual relief valve.

To move the outboard motor by hand, turn the manual relief valve under the stern bracket 2 and a half turns counterclockwise using a screw driver.

After moving the outboard motor, turn the screw clockwise securely.

AWARNING

Be sure to tighten the manual relief valve securely. The outboard motor could rise when sailing in the reverse gear, resulting in an accidental injury to the passenger(s).

NOTICE

Do not loosen the manual relief valve more than three turns, or the outboard motor cannot be tilted up when the manual relief valve is retightened.





Tilt Lever



Use the tilt lever to temporarily raise the outboard motor when the boat is sailing in the shallows, or mooring or anchoring in the shallows. Raising the tilt lever unlocks the outboard motor and the outboard motor can be tilted. Lowering the tilt lever locks the outboard motor.

▲WARNING

Be sure to lower the tilt lever and lock the outboard motor before sailing. The outboard motor could rise when sailing in the reverse gear, resulting in an accidental injury to the passenger(s).



AWARNING

Do not disassemble the gas assisted damper assembly as it is filled with the high pressure gas.

CONTROLS

Tilt Lock Lever (G and T type)



Use the tilt lock lever to raise the outboard motor and lock it in the position when the boat is moored or anchored for a long time. Tilt the outboard motor as far as it goes and move the lock lever in the locking direction.



Use the tilt lever to temporarily raise the outboard motor when the boat is sailing in the shallows, or mooring or anchoring in the shallows. Raising the tilt lever unlocks the outboard motor and the outboard motor can be tilted. Lowering the tilt lever locks the outboard motor.

▲WARNING

Be sure to lower the tilt lever and lock the outboard motor before sailing. The outboard motor could rise when sailing in the reverse gear, resulting in an accidental injury to the passenger(s).



The anode metal is a sacrificed metal which protects the outboard motor from corrosion.

NOTICE

Do not paint the anode metal. It deteriorates the function of the anode metal, which can lead to rust and corrosion damage to the outboard motor.

CONTROLS





WATER CHECK HOLE

The cooling water is checked here to see whether it is circulating inside the engine properly.

After starting the engine, check at the cooling water check hole whether the cooling water is circulating through the engine.

Cooling Water Intake Port

The engine cooling water is drawn into the engine through this port.

CONTROLS

Engine Cover Latch



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C REA

ENGINE COVER

Latch/unlatch the engine cover latch to install or remove the engine cover.
CONTROLS



CONTROLS

Fuel Filler Cap Vent Knob/Fuel Gauge



FUEL FILLER CAP

The vent knob shuts off the fuel tank from the open air. When refilling the fuel tank, turn the vent knob counterclockwise to open and remove the fuel filler cap. Turn the vent knob clockwise and close it securely before transporting or storing the outboard motor. The fuel gauge indicates the fuel level in the tank.

FUEL GAUGE



CONTROLS



NOTICE

Improperly installed outboard motor can result in the outboard motor dropped into the water, boat not able to cruise straight ahead, engine speed not increase, and much fuel consumption.

We recommend that the outboard motor be installed by an authorized Honda outboard motor dealer. Consult the authorized Honda dealer in your area for the Y-OP (User Optional Parts)/equipments installation and operation. Applicable Boat Select the boat suitable for the engine power.

Engine power: BF8D: 5.9 kW (8.0 PS) BF10D: 7.4 kW (10 PS) BF15D: 11.0 kW (15 PS) BF20D: 14.7 kW (20 PS)

40

Power recommendation is indicated on most of the boats.

AWARNING

Do not exceed the boat manufacturer's power recommendation. Damage and injury may result.

Transom Height



Type:	Т
S:	433 mm (17.0 in)
L:	563 mm (22.2 in)
X:	703 mm (27.7 in)

Select the outboard motor which is correct for the boat transom height of your boat. Location



Install the outboard motor at the stern, at the center line of the boat.

The antiventilation plate of the outboard motor should be 0 - 50 mm (0 - 2 in) below the bottom of the boat. The correct dimensions differ according to the type of the boats and the configuration of the bottom of the boats. Follow the manufacture's recommended installation height.



- While operating the boat, check the tightness of the clamp screws occasionally.
- Tie a rope through the hole in the stern bracket and secure the other end of the rope to the boat. This will prevent accidental loss of the outboard motor.



- 2. Apply the silicone sealant (Three Bond 1216 or equivalent) to the outboard motor mounting holes.
- 3. Set the outboard motor on the boat and secure with the bolts, washers, and lock nuts.

NOTE: Standard torque:

29-39 N·m (3.0-4.0 kgf·m, 22-29 lbf·ft) The standard torque is given just as a guideline. Torque of the nut can be different according to the material of the boat. Consult with an authorized Honda outboard motor dealer.

Install the outboard motor securely. Loosely mounted outboard motor can result in accidental loss of the outboard motor and damage and injury to the equipment and personnel.



\langle Outboard Motor Angle Adjustment \rangle

Adjust the outboard motor so that it is perpendicular to the water surface (i.e. axis of the propeller is parallel with the water surface).



There are five adjusting stages (XH and R type).

There are four adjusting stages (G and T type).

Tilt the outboard motor to the designated tilt angle.



(G type/T type)

Push in the adjusting rod, twist upwards to the unlocked position and pull out to remove.



Battery Connections

Use a battery which has 12V-35 Ah or more specifications. The battery is an optional part (i.e. part to be purchased separately from the outboard motor).

▲WARNING

Batteries produce explosive gases: If ignited, an explosion can cause serious injury or blindness. Provide adequate ventilation when charging.

- CHEMICAL HAZARD: Battery electrolyte contains sulfuric acid. Contact with eyes or skin, even through clothing, may cause severe burns.
 Wear a faceshield and protective clothing.
- Keep flames and sparks away, and do not smoke in the area. ANTIDOTE: If electrolyte gets into your eyes, flush thoroughly with warm water for at least 15 minutes and call a physician immediately.

 POISON: Electrolyte is poison. ANTIDOTE:

ANTIDOTE:

- External: Flush thoroughly with water.
- Internal: Drink large quantities of water or milk.
 Follow with milk of magnesia or vegetable oil, and call a physician immediately.
- KEEP OUT OF REACH OF CHILDREN.

Place the battery in the battery box and fix the battery box securely to the hull.

Install the battery box in a location such that it does not topple over while the boat is cruising or is not exposed to spray or direct of sunlight.



Connect the battery cables:

- 1. Connect the cable with the red terminal cover to the positive (+) terminal of the battery.
- 2. Connect the cable with the black terminal cover to the negative (-) terminal of the battery.

NOTICE

- Be sure to connect the (+) side battery cable first. When disconnecting the cables, disconnect the (-) side first then the (+) side.
- Unless the cables are properly connected to the terminals, the starter motor may fail to operate normally.
- Be careful to avoid connecting the battery in reverse polarity, as this will damage the batterycharging system in the outboard motor.
- Do not disconnect the battery cables while the engine is running. Disconnecting the cables while the engine is running, will damage the outboard motor's electrical system.
- Do not place the fuel tank near the battery.



the (+) plug terminal.

INSTALLATION (R type)

Remote Control Installation

NOTICE

Improperly installed steering system, remote control box, and remote control cable, or installing those of the different types could cause unpredictable accident. Consult an authorized Honda outboard motor dealer for proper installation.



Install the remote control box in the position where is easy to operate the control lever and switches. Be sure that there are no obstacles on the route of the control cable. \langle Remote Control Cable Length \rangle

Measure the distance from the center of the remote control box via the transom corner to the center of the engine.

Recommended cable length is 300 mm (11.8 in) longer than the measured distance.

Set the cable along the predetermined route and be sure that it is long enough to the route. Connect the cable to the engine and be sure it is not kinked, bent sharp, pulled taut, or interfered while steering.

NOTICE

Do not bend the remote control cable as sharp as its route diameter is 400 mm (1-1/6 feet) or less, or it affects the service life of the cable and the remote control lever operation.

BF8D/BF10D/BF15D/BF20D is the 4-stroke, water cooled outboard motor which uses unleaded regular gasoline for fuel. It also requires the engine oil. Check the following before operating the outboard motor.

Perform the following pre-operation checks with the engine stopped.

Removing/Installing Engine Cover



ENGINE COVER LATCH

- To remove, unlatch the engine cover latch and remove the engine cover.
- To install, set the engine cover, hook the front and rear latches, and push down the rear engine cover latch.

AWARNING

Do not operate the outboard motor without the engine cover. Exposed moving parts can cause injury.

Engine Oil Level

NOTICE

- Engine oil is a major factor affecting engine performance and service life. Nondetergent and low quality oils are not recommended, because they have inadequate lubricating properties.
- Running the engine with insufficient oil can cause serious engine damage.

NOTE:

To avoid incorrect gauging of the engine oil level, inspect the oil level when the engine has cooled.

$\langle \, \textbf{Recommended oil} \, \rangle$

Use Honda 4-stroke oil or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for Service Classification SG, SH or SJ. Motor oils classified SG, SH or SJ will show this designation on the container. Select the appropriate viscosity for the average temperature in your area. SAE 10W-30 is recommended for general, all-temperature use.

API Service Grade: Use a Fuel Efficient SG, SH or SJ oil.

NOTE:

This oil is usually identified by words such as: "Energy Conserving II". "Gas Saving", "Fuel Saving", etc.



AMBIENT TEMPERATURE



- 1. Position the outboard motor vertically, and remove the engine cover.
- 2. Remove the oil level dipstick and wipe with a clean rag.
- 3. Reinsert the dipstick all the way in, then pull it out and read the level. If near or below the lower level mark, remove the oil filler cap and fill to the upper level mark with the recommended oil. Tighten the oil filler cap securely.



When the engine oil is contaminated or discolored, replace with the fresh engine oil (see page for replacement interval and procedure).

4. Install the engine cover and lock it securely.

Oil capacity:

1.0 L (1.1 US qt, 0.9 lmp qt) ...when oil filter is not replaced 1.1 L (1.2 US qt, 1.0 lmp qt) ...when oil filter is replaced

NOTICE

Do not overfill the engine oil. Check the engine oil after refilling. Excessive engine oil as well as the insufficient oil could cause damage to the engine.

Fuel Level



FUEL FILLER CAP

Check the fuel gauge and refill the tank if the fuel level is low.

NOTE:

Open the fuel filler cap vent knob before removing the fuel filler cap. When the fuel filler cap vent knob is firmly closed, the fuel filler cap will be difficult to remove.

After refueling, be sure to tighten the fuel filler cap firmly.

Use unleaded gasoline with a Research Octane Number of 91 or

FUEL GAUGE

higher (a Pump Octane Number of 86 or higher). Use of leaded gasoline may cause damage to the engine.

Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust or water in the fuel tank.

Fuel tank capacity (separate tank): 12 L (3.2 US gal, 2.6 Imp gal)

▲WARNING

- Gasoline is extremely flammable and is explosive under certain conditions.
- Refuel in a well-ventilated area with the engine stopped.
- Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.
- Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Avoid repeated or prolonged contact with skin or breathing of vapor.
- KEEP OUT OF REACH OF CHILDREN.

Regarding use of fuel containing lead

- Fuel containing lead produces residue when burned. This residue accumulates in the cylinder head and on the exhaust valve seats and should be removed by an authorized Honda outboard motor dealer every 200 operating hours or every year, whichever comes first (refer to page 111, "Maintenance").
- If carbon removal is not carried out as recommended, engine life and performance may be influenced.

Gasoline Containing Alcohol

If you decide to use a gasoline containing alcohol (gasohol), be sure its octane rating is at least as high as that recommended by Honda. There are two types of "gasohol": one containing ethanol, and the other containing methanol. Do not use gasohol that contains more than 10% ethanol. Do not use gasoline containing more than 5% methanol (methyl or wood alcohol) and that does not also contain co-solvents and corrosion inhibitors for methanol.

NOTE:

- Fuel system damage or engine performance problems resulting from the use of gasoline that contains more alcohol than recommended is not covered under the warranty.
- Before buying gasoline from an unfamiliar station, first determine if the gasoline contains alcohol, if it does, find out the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a particular gasoline. Switch to a gasoline that you know contains less than the recommended amount of alcohol.



NOTICE

Battery handling differs according to the type of the battery and the instructions described below might not be applicable to the battery of your outboard. Refer to the battery manufacturer's instructions.

Check whether the battery fluid is between the upper and lower levels, and check the vent hole in the battery caps for clogging.

If the battery fluid is near or below the lower level, add the distilled water to the upper level.

▲WARNING

Batteries produce explosive gases: If ignited, an explosion can cause serious injury or blindness. Provide adequate ventilation when charging.

- CHEMICAL HAZARD: Battery electrolyte contains sulfuric acid. Contact with eyes or skin, even through clothing, may cause severe burns. Wear a faceshield and protective clothing.
- Keep flames and sparks away, and do not smoke in the area. ANTIDOTE: If electrolyte gets into your eyes, flush thoroughly with warm water for at least 15 minutes and call a physician immediately.
- POISÓN: Electrolyte is poison.
 ANTIDOTE:
 - External: Flush thoroughly with water.

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PRE-OPERATION CHECKS

 Internal: Drink large quantities of water or milk.
 Follow with milk of magnesia or vegetable oil, and call a physician immediately.
 KEEP OUT OF REACH OF CHILDREN.





Other Checks



Check the following items:

- (1)The fuel hose for kinking,
- collapsing or a loose connection. (2)The stern bracket for damage and
- clamp screw tightened.(3)The tool kit for missing spare parts and tools.
- (4)The anode metal for damage,

looseness or excessive corrosion. The anode metal helps to protect the outboard motor from corrosion damage; it must be exposed directly to the water whenever the outboard motor is in use. Replace the anodes when they have been reduced to about two-thirds of their original size, or if they are crumbling.

0

TOOL BAG

NOTICE

The possibility of corrosion damage is increased if the anode metal is painted over or allowed to deteriorate.

(5)The tiller handle for loose installation, wobble, or operation (H type). (6)The remote control lever and switch for operation (R type).

Parts/materials which should be installed on board:
(1)Owner's Manual
(2)Tool kit
(3)Spare Plug(s), engine oil, Spare propeller, Cotter pin(s).
(4)Spare emergency stop switch clip.
(5)Other parts/materials required by laws/regulations.

Fuel Tank and Vent Knob

FUEL FILLER CAP VENT KNOB



The fuel tank must be properly secured in the boat. This will protect the fuel tank from mechanical damage caused by the fuel tank shifting.

The fuel tank must be in a wellventilated area to reduce the chance of a gasoline vapor explosion. Avoid direct sunlight on the fuel tank. Due to the fuel pump capacity, do not place the fuel tank more than 2 meters (6.6 feet) away from the outboard motor or lower than 1 meter (3.3 feet) below the outboard motor end fuel hose connector. 1. Turn the fuel filler cap vent knob counterclockwise all the way to open the vent.

Allow the air pressure inside the fuel tank to equalize with the outside air. With the vent open, air can enter the fuel tank to displace the fuel as the fuel level goes down.

2. Remove the fuel filler cap and inspect the condition of the fuel filler cap and gasket. Replace the fuel filler cap or gasket if they are cracked, damaged or leak fuel.

7. STARTING THE ENGINE

STARTING THE ENGINE

Fuel Line Connection



Inspect the fuel line, and the O-ring seals in the fuel line connectors. Replace the fuel line, or fuel line connectors if they are cracked, damaged or leak fuel. Be sure the fuel line is not kinked. 1. Connect the fuel line connector to the fuel tank. Be sure the fuel line connector is securely snapped in place.

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outboard motor.

STARTING THE ENGINE



Do not touch the priming bulb with the engine running or when tilting up the outboard motor. The carburetors could overflow.

Starting the Engine

EMERGENCY STOP



NOTICE

The propeller must be lowered into the water, running the outboard motor out of the water will damage the water pump and overheat the engine.

1. Engage the emergency stop switch clip (located at one end of the emergency stop switch lanyard) with the engine stop switch. Attach the other end of the emergency stop switch lanyard securely to the operator.

▲WARNING

If the emergency stop switch lanyard is not set, the boat might run out of control when the operator, for example, falls outboard and not able to operate the outboard.

For the sake of the operator's and the passengers' safety, be sure to set the emergency stop switch clip and attach one end of the emergency stop switch lanyard securely to the operator.

NOTE:

The engine does not start unless the emergency stop switch clip is set on the engine stop switch.

Store the spare emergency stop switch clip in the tool bag. Use the spare emergency stop switch clip to make the emergency engine start when the emergency stop switch lanyard is not available as, for example, the operator falls outboard.



SHIFT LEVER

2. Move the shift lever to the N (neutral) position. The engine does not start unless the shift lever is set in the N (neutral) position.



- 3. Align the " ^(b) " mark on the throttle grip with the projected end of the " ▶" mark on the handle.
- 4. (Manual choke type) When the engine is cold or ambient temperature is low, pull the choke knob to the ON position. (It provides rich fuel mixture to the engine.)

CHOKE KNOB

NOTE:

This engine is equipped with an accelerator pump. Do not turn the throttle grip frequently before starting. Hard starting may result. If the throttle grip has been turned frequently before starting, open the throttle grip 1/8 - 1/4 turns and start.

STARTING THE ENGINE (H type)





- 5. Recoil starter
 - Pull the starter grip lightly until you feel resistance, then pull briskly in the direction of the arrow as shown above.

NOTICE

- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.
- Do not pull the starter grip while the engine is running, as that may damage the starter.

NOTE:

The "Neutral Starting System" prevents the starter rope from being pulled out for starting the engine unless the shift lever is set in the N (neutral) position.



6. Electric starter (Electric starter type) Press the engine start button and hold it there until the engine starts.

When the engine starts, release the button.

NOTICE

- The starter motor consumes a large amount of current. Do not therefore run it continuously for more than 5 seconds at a time. If the engine does not start within 5 seconds, wait at least 10 seconds before running the starter motor again.
- Do not press the engine start button while the engine is running. This may damage the starting unit.

NOTE:

The "Neutral Starting System" prevents the engine from being started unless the shift lever is set in the N (neutral) position even though the engine is cranked by the starting motor.







This engine is equipped with an accelerator pump. Do not turn the throttle grip frequently before starting. Hard starting may result. If the throttle grip has been turned frequently before starting, open the throttle grip 1/8 - 1/4 turns and start.

7. If you pulled out the choke knob to the ON position to start the engine, return it slowly to the OFF position (manual choke type), and turn the throttle grip in the SLOW direction to a position where the engine does not stall.



COOLING WATER INTAKE PORT (each side)

8. After starting, check whether the cooling water is flowing out of the cooling water check hole. Amount of water flowing out of the check hole might vary due to the thermostat operation, but this is normal.

NOTICE

If water does not flow out, or if steam comes out, stop the engine. Check to see if the screen in the cooling water intake port is obstructed and remove foreign materials if necessary. Check the cooling water check hole for clogging. If water still does not flow out, have your outboard motor checked by an authorized Honda outboard motor dealer. Do not operate the engine until the problem has been corrected.





OIL PRESSURE INDICATOR LIGHT

9. Check to see if the oil pressure indicator light turns ON.

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STARTING THE ENGINE (H type)

 If it does not turn on, stop the engine and perform the following inspections. 1) Check the oil level (see page 50). 2) If the oil level is normal and the oil pressure indicator light does not turn ON, consult with an authorized Honda outboard motor dealer. 	NOTE: Before leaving the dock, check the operation of the emergency stop switch.	
 10. Warm up the engine as follows: Above 5°C (41°F)—run the engine for 2 or 3 minutes. Below 5°C (41°F)—run the engine for at least 5 minutes at 2,000 min⁻¹ (rpm)—3,000 min⁻¹ (rpm). Failure to completely warm up the engine will result in poor engine performance. 		
In an area where the temperature goes down below 0°C (32°F), the engine cooling system may freeze. High speed operation without proper engine warm up may damage the engine.		

Starting the Engine



EMERGENCY STOP SWITCH LANYARD

EMERGENCY STOP SWITCH CLIP

NOTICE

The propeller must be lowered into the water, running the outboard motor out of the water will damage the water pump and overheat the engine.

1. Engage the emergency stop switch clip (located at one end of the emergency stop switch lanyard) with the emergency stop switch. Attach the other end of the emergency stop switch lanyard securely to the operator.

AWARNING

If the emergency stop switch lanyard is not set, the boat might run out of control when the operator, for example, falls outboard and not able to operate the outboard.

For the sake of the operator's and the passengers' safety, be sure to set the emergency stop switch clip and attach one end of the emergency stop switch lanyard securely to the operator.

NOTE:

The engine does not start unless the emergency stop switch clip is set on the emergency stop switch.



A spare clip is provided on the remote control box. Use the spare clip to make the emergency engine start when the emergency stop switch is not available as, for example, the operator falls outboard.

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N (neutral) FAST IDLE FREE ACCELERATION RANGE CONTROL LEVER INITIAL llo FAST IDLE LEVER 2. Set the control lever in the N 3. When the engine is cold or the (neutral) position. ambient temperature is low, leave The engine does not start unless the fast idle lever in the initial the control lever is set in the N position. (This will provide rich (neutral) position. fuel mixture to the engine by the automatic choke.) When the engine is warm, raise the fast idle lever to the FAST IDLE position and hold it in the position. NOTE: The fast idle lever does not move unless the control lever is set in the N

(neutral) position.

67

STARTING THE ENGINE (R type)



ENGINE SWITCH KEY

4. Turn the engine switch key to the START position and hold it there until the engine starts. When the engine starts, release the key, allowing it to return to the ON position. NOTICE

- The starter motor consumes a large amount of current. Do not therefore run it continuously for more than 5 seconds at a time. If the engine does not start within 5 seconds, wait at least 10 seconds before running the starter motor again.
- Do not turn the engine switch key to the START position while the engine is running.

NOTE:

The "Neutral Starting System" prevents the engine from being started unless the control lever is set in the N (neutral) position even though the engine is cranked by the starting engine.



5. If the fast idle lever is raised, return the fast idle lever slowly to the position where the engine does not stall and hold the lever in the position. 11/09/05 18:06:47 32ZY0620 069



motor checked by an authorized Honda outboard motor dealer. Do not operate the engine until the problem has been corrected.

STARTING THE ENGINE (R type)



7. Check to see if the oil pressure indicator light turns ON.

If it does not turn on, stop the engine and perform the following inspections.

1) Check the oil level (see page 50).

2) If the oil level is normal and the oil pressure indicator light does not turn ON, consult with an authorized Honda outboard motor dealer.

8. Warm up the engine as follows: Above 5°C (41°F)—run the engine for 2 or 3 minutes. Below 5°C (41°F)—run the engine for at least 5 minutes at 2,000 min⁻¹ (rpm)—3,000 min⁻¹ (rpm).

Failure to completely warm up the engine will result in poor engine performance.

In an area where the temperature goes down below $0^{\circ}C$ (32°F), the engine cooling system may freeze. High speed operation without

proper engine warm up may damage the engine.

NOTE:

Before leaving the dock, check the operation of the emergency stop switch.



Emergency Starting RECOIL STARTER $6 \times 22 \text{ mm}$ NEUTRAL START CABLE FLANGE BOLT ASSEMBLY HIIIIIII UNLATCH **FLYWHEEL COVER ENGINE COVER LATCH** 2. Move the shift lever to "F" If the recoil starter does not operate 3. Remove the three 6 \times 22 mm (forward) position. properly for some reasons, the engine flange bolts and recoil starter Loosen the neutral start cable lock can be started using the spare starter assembly. nut and disconnect the neutral start rope in the tool kit. cable. NOTE: 1. Unlatch the engine cover latch and Take care not to lose the bolts. remove the engine cover.

STARTING THE ENGINE



STARTING THE ENGINE



4. Set the shift lever/control lever in the N (neutral) position.

AWARNING

The "Neutral Starting System" will not work in emergency starting. Be sure to set the shift lever/control lever into the N (neutral) position to prevent start-in-gear when starting the engine in emergency. Sudden unexpected acceleration could result in serious injury or death.
11/09/05 18:07:30 32ZY0620 073

STARTING THE ENGINE





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STARTING THE ENGINE



10. Set the knot at the end of the emergency starter rope in the notch in the flywheel, and while pulling the emergency starter rope clockwise around the flywheel. 11. Pull the starter rope lightly until resistance is felt, then pull briskly.



12. If the fast idle lever is raised, return the fast idle lever slowly to the position where the engine does not stall and hold the lever in the position.





13. If you pulled out the choke knob to the ON position to start the engine, return it slowly to the OFF position (manual choke type), and turn the throttle grip in the SLOW direction to a position where the engine does not stall.



14. Reinstall the engine cover.

AWARNING

Take extreme care when installing the engine cover. The flywheel is rotating. Do not operate without the engine cover. Exposed moving parts could cause injury and starter may damage the engine.



- 15. Attach the emergency stop switch lanyard securely to the operator and return to the closest boat landing.
- 16. After returning to the closest boat landing, contact your closest authorized Honda outboard motor dealer and perform the following.
 - Have the starting system and electrical system checked.
 - Have your dealer reassemble the parts removed in the emergency starting procedure.

Troubleshooting Starting Problems

SYMPTOM	POSSIBLE CAUSE	REMEDY
Starter motor doesn't turn over (Electric starter type)	 Engine switch OFF. Shift lever not in NEUTRAL position. Blown fuse. Loose battery connector. 	 Turn engine switch key START. (page 68) Set shift lever in NEUTRAL position. (page 61, 67) Replace fuse. (page 127) Connect battery cable securely. (page 46)
Starter motor turns but the engine doesn't start. (Electric starter type) Pull the starter rope slowly until a resistance is felt, then pull briskly.	 Out of fuel. Vent knob not open. Primer bulb not squeezed. Engine flooded. Weak battery. (Electric starter type) Plug cap is not installed properly. Emergency stop switch clip is not set. 	 Supply fuel. (page 51) Open vent knob. (page 57) Squeeze primer bulb to supply fuel. (page 59) Clean and dry spark plug. (page 117) Start using emergency starter rope. (page 71) Install plug cap securely. (page 118) Set emergency stop switch clip. (page 60, 66) Have your authorized Honda outboard motor dealer charge battery.

8. OPERATION (H type)



OPERATION (H type)

Steering



The boat swings its stern in the opposite direction in which it is to turn. To turn to the right, swing the steering handle to the left. To turn to the left, swing the steering handle to the right.



2. For the sake of fuel economy, open the throttle about 80%.

friction dial counterclockwise.

OPERATION (H type)

NOTE:

This outboard motor is equipped with an over-rev limiter in order to prevent a breakdown due to excessive engine speed.

Depending upon the running condition of the outboard motor (if the force applied to the propeller is light, for example), the limiter may operate, causing the engine speed to become unstable, thus preventing stable running.

If the engine speed becomes unstable when the outboard motor is run with the grip near the full open position, return the grip to the SLOW side until the speed becomes stable.

ACAUTION

Do not operate without the engine cover. Exposed moving parts could cause injury; water may damage the engine.

NOTE:

For best performance, passengers and equipment should be distributed evenly to balance the boat.

OPERATION (**R** type)



OPERATION (**R** type)





OPERATION (**R** type)

NOTE:

This outboard motor is equipped with an over-rev limiter in order to prevent a breakdown due to excessive engine speed.

Depending upon the running condition of the outboard motor (if the force applied to the propeller is light, for example), the limiter may operate, causing the engine speed to become unstable, thus preventing stable running.

If the engine speed becomes unstable when the outboard motor is run with the control lever near the full open position, return the control lever to the LOW side until the speed becomes stable.

ACAUTION

Do not operate without the engine cover. Exposed moving parts could cause injury; water may damage the engine.

NOTE:

For best performance, passengers and equipment should be distributed evenly to balance the boat.

Tilting the Outboard Motor (Common)

Tilt the outboard motor to prevent the propeller and gear case from hitting the bottom when the boat is beached or stopped in shallow water.





OPERATION (Manual Tilt type)

Do not use the throttle grip to tilt the outboard motor.

NOTE:

TILT LEVER

(LOCK)

TILT

Before tilting up, leave the outboard motor in the running position for one minute after stopping the engine to drain the water from inside the engine.

Stop the engine and disconnect the fuel line from the outboard motor before tilting the outboard motor.



OPERATION (Manual Tilt type)



3. Set the tilt lever in the "TILT" position, and raise the outboard motor to either the 30° , 45° and 71° (or 72°) tilt position.

BF8D/BF10D 71° : SH/LH type 72° : XH/R type BF15D/BF20D 71° : SH type 72° : LH/XH/R type 4. To return the outboard motor to the normal "RUN" position, move the tilt lever away from you until it stops, tilt the outboard motor slightly, then lower the outboard motor slowly.

(1)

 71° or 72° (when mooring)

45°

(2)

30° (when cruising in shallow water)

3

ACAUTION

- Make sure water comes out from the cooling water check hole.
- When the outboard motor is tilted up, cruise at low speed.
- Never operate in reverse when the outboard motor is tilted up. The outboard motor will rise up, causing an accident.

OPERATION (G type)



OPERATION (G type)



- To tilt down the outboard motor:
- 2. Check that the tilt lever is in the "TILT" position. Holding the engine cover grip, raise the outboard motor a little and set the tilt lock lever in the "FREE" position (see page 89).
- 3. Holding the engine cover grip, lower the outboard motor slowly to the cruising position.



NOTICE

Be sure to use the tilt lock lever whenever the outboard motor is stored while holding it tilted up.

TILT LEVER

4. Check that the outboard motor is lowered to the cruising position, and set the tilt lever in the "RUN" position.

ACAUTION

Set the tilt lever in the TILT/RUN positions securely.



OPERATION (G type)



Tilt-up using the tilt lock lever. Use this mechanism when mooring the outboard motor.

- 1. Move the tilt lever to the FREE position and raise the outboard motor as far as it goes by holding it by the grip of the engine cover.
- 2. Move the tilt lock lever to the LOCK position and lower the outboard motor slowly.
- 3. Move the tilt lever to the LOCK position.

4. To tilt down, move the tilt lever to the FREE position, and move the tilt lock lever to the FREE position while lifting the outboard motor to the designated position and move the tilt lever to the LOCK position. 11/09/05 18:10:37 32ZY0620 090

OPERATION (T type)

Tilting the Outboard Motor

The outboard motor equipped with the power tilt system can adjust the outboard motor angle only while mooring.

When operating the power tilt switch, stop the boat. Once tilt angle is fixed, it can be kept while cruising both to forward and reverse directions.

NOTE:

Before tilting up, leave the outboard motor in the running position for one minute after stopping the engine to drain the water from inside the engine.

Stop the engine and disconnect the fuel line from the outboard motor before tilting the outboard motor.



- To tilt down the outboard motor:
- 1. Push the "UP" side of the power tilt switch and tilt up the outboard motor to the uppermost position.
- 2. Set the tilt lock lever in the "FREE" position (see page 92).
- 3. Push the "DN" side of the power tilt switch and lower the outboard motor to the cruising position.

ACAUTION

- Improper transom angle results in unstable steering condition.
- Do not tilt while cruising through the rough wave, or it may cause an accident.
- Excessive transom angle can result in cavitation and racing of the propeller, and tilting up the outboard motor excessively can cause damage to the impeller pump.

Manual Relief Valve MANUAL RELIEF VALVE POWER (To fix) MANUAL (To release)

OPERATION (T type)

When power tilt system does not operate because of dead battery or faulty power tilt motor, the outboard motor can be manually tilted up or down by operating the manual relief valve.

To tilt the outboard motor manually, turn the manual relief valve under the stern bracket 2 and a half turns counterclockwise using a screwdriver.

OPERATION (T type)

NOTICE

Do not loosen the manual relief valve more than three turns, or the outboard motor cannot be tilted up when the manual relief valve is retightened.

After tilting up/down manually, close the manual relief valve to lock the outboard motor in the position.

The manual relief valve must be tightened securely before operating the outboard motor or the outboard motor could tilt when operating in reverse.

Moorage



Tilt-up using the tilt lock lever. Use this mechanism when mooring the outboard motor.

- 1. Raise the outboard motor as full as it goes using the power tilt switch.
- 2. Move the tilt lock lever to the LOCK position and lower the outboard motor until the lock lever contacts the stern bracket.

NOTE:

If more clearance is needed to swing the tilt lock lever into the LOCK position, rock the outboard motor back slightly by pulling on the engine cover grip.

3. To tilt down, raise the outboard motor slightly, move the tilt lock lever to the FREE position, and lower the outboard motor to the designated position.





To avoid damaging the outboard motor, use the utmost care when mooring a boat, especially when its outboard motor is tilted up. Don't allow the outboard motor to strike against the pier or other boats.



- When the green light is lit, oil pressure is OK.
- If oil pressure becomes low, the green light will go off, and the engine protection system will limit engine speed.
- Remote control types are also equipped with a buzzer that sounds when the green light goes off. The buzzer sound stops below an engine speed of 1,400 rpm.
- The engine speed does not increase if the throttle is opened widely.
- The engine speed increases gradually as soon as the cause of the warning is removed.

• If the engine overheats, the engine protection system will limit engine speed (All types).

- Remote control types are also equipped with a warning light and a buzzer. Red light will come on and a buzzer sounds if the engine overheats.
- The engine speed does not increase if the throttle is opened widely.
- If the overheat condition continues for 20 seconds, the engine is stopped; if the normal temperature is restored within that time, the engine speed is gradually raised to the normal cruising speed.

System	Low oil pressure			Overheat		
Туре	Warning light	Buzzer sounds	Engine speed	Warning light	Buzzer sounds	Engine speed
			control			control
Н Туре	0	×	0	×	×	0
R Type	0	0	0	0	0	0

\square	System	Warning light		Buzzer	
Symptom		Oil pressure	Overheat (R type)	H type	R type
Normal		ON	OFF	\searrow	
Abnormal	Low oil pressure	OFF	OFF	\searrow	Continuous beep ^{*1}
	Overheat	ON	ON	\searrow	Continuous beep ^{*1}
	Low oil pressure & overheat	OFF	ON	\searrow	Continuous beep ^{*1}

*1: The buzzer sound stops below an engine speed of 1,400 rpm.

When the oil pressure warning system operated (green indicator light turned off):

- 1) Stop the engine immediately and check the engine oil level (see page 50).
- 2) If the oil is up to the recommended level, operate the outboard motor at low speed (within 30 seconds). The warning system is normal if it stops.
- 3) If the warning system is still operating, return to the pier at low speed and service the system.





WATER CHECK HOLE

When the overheat warning system operated (red indicator light turned on):

1) Return the shift lever to the N (neutral) position (idle speed) immediately, and check whether water is flowing out of the cooling water check hole.

NOTICE

Running the engine without water can cause serious engine damage due to overheating. Be sure that water flows from the cooling water check hole while the engine is running. If not, stop the engine and determine the cause of the problem.

- 2) If water is flowing, continue idling (within 30 seconds).The warning system is normal if it
- stops.3) If the warning system is still
- operating, return to the pier at low speed and service the system.

< Over-rev Limiter > BF8D/BF10D/BF15D/BF20D outboard motor is equipped with the over-rev limiter which operates when the engine speed increases excessively for some reasons while cruising or when the propeller races while tilting up the outboard motor or changing the cruising course.

When the over-rev limiter operated:

- 1) Slow down the engine speed immediately and check the tilt angle.
- 2) If the tilt angle is proper but the engine speed is too high, stop the engine and check the outboard motor and propeller for installation condition and damage. Correct or service if necessary.





Cruising in Shallows

NOTICE

Excessive tilt angle during operation can cause the propeller to raise out of the water and cause propeller cavitation and engine over-revving. Excessive tilt angle can also damage the water pump and overheat the engine.

When operating in shallow water, tilt the outboard motor up to prevent the propeller and gear case from hitting the bottom (refer to pages 84, 85, 86, 87 and 90). With the outboard motor tilted up, operate the outboard motor at low speed.

Monitor the cooling system indicator for water discharge. Be sure that the outboard motor is not tilted so high that the water intakes are out of the water.

If an excessive amount of throttle is used when operating in forward gear, the outboard motor will return to the transom angle adjusting rod. (G type)

High Altitude Operation

At high altitude, the standard carburetor fuel/air mixture will be excessively rich. Performance will decrease, and fuel consumption will increase.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate the outboard motor at altitudes higher than 1,500 m (5,000 feet) above sea level, have your authorized Honda dealer perform these carburetor modifications.

Even with suitable carburetor jetting, engine horsepower will decrease approximately 3.5 % for each 300 m (1,000 foot) increase in altitude. The effect of altitude on the horsepower will be greater than this if no carburetor modification is made.

Operation of the outboard motor at an altitude lower than the carburetor is jetted for may result in reduced performance, overheating, and serious engine damage caused by an excessively lean air/fuel mixture.





• In an emergency;

Disengage the emergency stop switch clip from the engine stop switch by pulling the emergency stop switch lanyard.

NOTE:

It is a good idea to stop the engine with the emergency stop switch lanyard from time to time to be sure that the emergency stop switch is operating properly.



9. STOPPING THE ENGINE (H type)

STOPPING THE ENGINE (H type)

STOP

ENGINE STOP SWITCH

2. Press the engine stop switch until the engine stops.

NOTE:

After sailing with the throttle fully open, cool down the engine by running it at the idle speed for a few minutes.

NOTICE

In the event that the engine does not stop when you press the switch, and pull the emergency stop switch lanyard, pull the choke knob to stop the engine. If the engine does not stop by pulling the choke knob, disconnect the fuel line connector (Equipped type).

3. Remove the emergency stop switch lanyard and store it. If you are using a portable fuel tank, disconnect the fuel line if you will be storing or transporting the outboard motor.





Stopping the Engine EMERGENCY STOP SWITCH EMERGENCY STOP SWITCH LANYARD PULL

EMERGENCY STOP SWITCH CLIP

• In an emergency;

Disengage the emergency stop switch clip from the emergency stop switch by pulling the emergency stop switch lanyard.

NOTE:

It is a good idea to stop the engine with the emergency stop switch lanyard from time to time to be sure that the emergency stop switch is operating properly.



• In normal use;

1. Move the control lever to the N (neutral) position and turn the engine switch to the OFF (stop) position.

NOTICE

In the event that the engine does not stop when the engine switch is turned OFF, disconnect the fuel line connector and move the fast idle lever to the upmost position.



NOTE:

After sailing with the throttle fully open, cool down the engine by running it at the idle speed for a few minutes.

2. Remove the engine switch key and store it.

If you are using a portable fuel tank, disconnect the fuel line if you will be storing or transporting the outboard motor.



STOPPING THE ENGINE (R type)

Before transporting the outboard motor, disconnect and remove the fuel line in the following procedure.

▲WARNING

- Be careful not to spill fuel. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before storing or transporting the outboard motor.
- Do not smoke or allow flames or sparks where fuel is drained or stored.



1. While pressing the fuel line connector clip, pull the fuel line connector and disconnect it from the outboard motor side joint.



2. While pulling the fuel line connector cover, pull the fuel line connector to disconnect the fuel line connector from the fuel tank.

Transporting



Carry the outboard motor with more than one person. To carry, hold the outboard motor by the carrying handle, or hold by the carrying handle and the lug beneath the engine cover latch as shown here. Do not carry by the engine cover.

• Do not carry the outboard motor by the engine cover. The engine cover can be unlatched and outboard motor can drop, resulting in an accidental injury and damage.





CARRYING HANDLE

• Do not carry the outboard motor by the carrying handle more than five minutes. Prolonged carrying of the outboard motor by the handle can cause the engine oil leak in the cylinders, make the engine hard starting or smoke when started.

NOTICE

To avoid damaging the outboard motor, never use it as a handle for lifting or moving the boat.



Transport the outboard motor either vertically or horizontally as follows with the steering handle raised.



Horizontal transport



Rest the outboard motor on the case protector. (Tiller handle upside)

Always rest the outboard motor on a protector and be sure to protect it from impact and damage.

INCORRECT



NOTICE

Any other transport or storage position may cause damage or oil leakage.





STEERING FRICTION LEVER

When trailering or transporting the boat with the outboard motor attached always disconnect the fuel line from the portable fuel tank and move the steering friction lever locked position.

NOTICE

Do not trailer or transport the boat with the outboard motor in the tilted position. The boat or outboard motor could be severely damaged if the outboard motor drops.

The outboard motor should be trailed in the normal running position. If there is insufficient road clearance in this position, then trailer the outboard motor in the tilted position using a motor support device such as a transom saver bar, or remove the outboard motor from the boat. Tilt lever should be in the tilted position.

11. CLEANING AND FLUSHING

After each use in salt water or dirty water, thoroughly clean and flush the outboard motor with fresh water.

AWARNING

- Be sure the outboard motor is securely mounted, and do not leave it unattended while running.
- Keep children and pets away from the area, and stay clear of moving parts during this procedure.

With Water Hose Joint (Optional part)



6. Turn on the fresh water supply, and verify that there is good water pressure at the outboard motor.

NOTICE

Be sure that the water is flowing out of the drain port.

- 7. Flush the engine with fresh water for at least 10 minutes.
- 8. After flushing, remove the water hose joint, reinstall the engine cover.
- 9. Tilt up the outboard motor and move the tilt lever to the LOCK position.



CLEANING AND FLUSHING

Without Water Hose Joint



ANTICAVITATION PLATE

When the water hose joint is not used, stand the outboard in a suitable container of fresh water.

▲WARNING

For safety, the propeller must be removed.

NOTICE

Running the engine without water can cause serious engine damage due to overheating. Be sure that water flows from the cooling water check hole while the engine is

running. If not, stop the engine and determine the cause of the problem.

- 1. Tilt down the outboard motor.
- 2. Wash the outside of the outboard motor with clean, fresh water.
- 3. Remove the propeller (see page 127).
- 4. Stand the outboard motor in a suitable container of water. The water level must be at least 100 mm (4 in) above the anticavitation plate.
- 5. Move the shift lever or control lever to the N (neutral) position.
- 6. Turn on the fresh water supply to the hose.
- 7. Start the engine and run in neutral for at least 5 minutes to clean inside of the engine.
- 8. After flushing, stop the engine, and disconnect the fuel line from the outboard motor. Remove the water container, and reinstall the propeller.
- 9. Tilt up the outboard motor and move the tilt lever to the LOCK position.
Periodic maintenance and adjustment are important to keep the outboard motor in the best operating condition. Service and inspect according to the MAINTENANCE SCHEDULE.

▲WARNING

Shut off the engine before performing any maintenance. If the engine must be run, make sure the area is well ventilated. Never run the engine in an enclosed or confined area. Exhaust contains poisonous carbon monoxide gas; exposure can cause loss of consciousness and may lead to death.

Be sure to reinstall the engine cover, if it was removed, before starting the engine. Lock it securely by lowering the engine cover latch.

NOTICE

- If the engine must be run, make sure there is water at least 100 mm (4 in) above the anticavitation plate, otherwise the water pump may not receive sufficient cooling water, and the engine will overheat.
- Use only Honda Genuine parts or their equivalents for maintenance or repair. The use of replacement parts which are not of equivalent quality may damage the outboard motor.

Tool Kit and Spare Parts

The following tools and spare parts are supplied with the outboard motor for maintenance, adjustment, and emergency repairs.



MAINTENANCE SCHEDULE

Per	REGULAR SERVICE PERIOD (3) Perform at every indicated month or operating hour interval, whichever comes first. ITEM			After use	First month or 20 hrs.	Every 6 months or 100 hrs.	Every year or 200 hrs.	Every 2 years or 400 hrs.
*	Engine oil	Check level	0					
		Change			0	0		
	Engine oil filter	Replace					○ (2)	
	Gear case oil	Change			0	0		
	Timing belt	Check					○ (2)	
	Starter rope	Check				0		
*	Carburetor linkage	Check-adjust			○ (2)	○ (2)		
*	Valve clearance	Check-adjust					○ (2)	
*	Spark plugs	Check-adjust/Replace				0		
	Propeller and cotter pin	Check	0					
	Anode (Outside engine)	Check	\bigcirc					
	Anode (Inside engine)	Check						0(2)(6)
	Idling speed	Check-adjust			○ (2)	○ (2)		
	Lubrication Grease				○ (1)	0(1)		
*	Fuel tank and tank filter	Clean					0	
*	* Thermostat Check						○ (2)	
*	Fuel filter	Check				0		
		Replace					0	

* Emission item for Bodensee model.

NOTE:

(1) Lubricate more frequently when used in salt water.

- (2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda Shop Manual for service procedures.
- (3) For professional commercial use, log hours of operation to determine proper maintenance intervals.
- (6) Replace the anodes when they have been reduced to about two-thirds of their original size, or if they are crumbling.

Per	REGULAR SERVICE PERIOD (3) Perform at every indicated month or operating hour interval, whichever comes first. ITEM			After use	First month or 20 hrs.	Every 6 months or 100 hrs.	Every year or 200 hrs.	Every 2 years or 400 hrs.	
*	* Fuel line Check		(8)						
	Replace			Every 2 years (If necessary) (2) (9)					
	Battery and cable connection Check level-tightness		0						
	Bolts and Nuts	Bolts and Nuts Check-tightness			○ (2)	○ (2)			
*	Crankcase breather tube	Check					○ (2)		
	Cooling water passages	Clean		(4)					
	Water pump	Check					○ (2)		
	Emergency stop switch	Check	0						
	Engine oil leak	Check	0						
	Each operation part	Check	0						
	Engine condition (5)	Check	0						
	Power Trim/Tilt	Check				(2)			
	Shift cable	Check-adjust				0(2)(7)			

* Emission item for Bodensee model.

NOTE:

- (2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda Shop Manual for service procedures.
- (3) For professional commercial use, log hours of operation to determine proper maintenance intervals.
- (4) When operating in salt water, turbid or muddy water, the engine should be flushed with clean water after each use.
- (5) Upon starting, check for unusual engine sounds and cooling water flowing freely from the check hole.
- (7) The user who performs shift operation frequently will recommend you exchange of a shift cable around three years.
- (8) Check the fuel line for leaks, cracks, or damage. If it is leaking, cracked, or damaged, take it to your servicing dealer for replacement before using your outboard.
- (9) Replace the fuel line if there are signs of leaks, cracks, or damage.



Engine Oil Change

Insufficient or contaminated engine oil adversely affects the service life of the sliding and moving parts.

Wash your hands with soap and water after handling used oil.

Oil change interval:

20 operating hours after the date of purchase or first month for initial replacement, then every 100 operating hours or 6 months.

Oil capacity: 1.0 L (1.1 US qt, 0.9 lmp qt) ...when oil filter is not replaced.

1.1 L (1.2 US qt, 1.0 lmp qt) ...when oil filter is replaced.

SAE 10W-30 engine oil or equivalent, API Service category SG, SH or SJ.

(Engine Oil Replacement)



Drain the oil while the engine is still warm to assure rapid and complete draining.

1. Position the outboard motor vertically, and remove the engine cover. Remove the oil filler cap.





Gear Oil Check/Change Oil check/change interval

Oil check: Every 6 months or 100 operating hours

Oil change interval:

20 operating hours or first month after initial use for initial change, then every 6 months or 100 operating hours. **Oil capacity:**

0.29 L (0.31 US qt, 0.26 lmp qt)

Recommended Oil:

SAE #90 Hypoid gear oil or equivalent, API Service Classification (GL-4)

- 1. Position the outboard motor vertically.
- 2. Remove the level screw and see if oil flows out.

If no oil comes out, fill oil through the drain screw hole until the oil starts to flow out through the level screw hole.

If there is water in the oil, the water will flow out first when the drain screw is removed, or the oil will be a milky color. Consult with an authorized Honda outboard motor dealer.



NOTE:

We recommend that you use the optional gear oil bottle to fill the gear oil easily.

3. Install and tighten the drain screw and level screw securely.



〈Oil Change〉

Replacement procedure is the same as that of the refilling. Remove the level screw and drain screw to drain the oil. Inject oil through the drain screw hole until it starts flowing out through the level screw hole. Reinstall and tighten the level screw first and then the drain screw securely.

Spark Plug Service

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

ACAUTION

The spark plug becomes very hot during operation and will remain hot to awhile after stopping the engine.

Check-Adjust interval: Every 100 operating hours or 6 months. Replace interval: Every 100 operating hours or 6 months. Recommended spark plug: CR5EH-9 (NGK) U16FER9 (DENSO)

NOTICE

Use only the recommended spark plugs or equivalent. Spark plugs which have an improper heat range may cause engine damage. SPARK PLUG SPARK PLUG CAP



- 2. Remove the spark plug caps.
- 3. Use the wrench and screwdriver supplied in the tool kit to remove the spark plugs.







- 4. Inspect the spark plugs.
- (1) If the electrodes are heavily corroded or carbon-soiled, clean with a wire brush.
- (2) Replace a spark plug if the central electrode is worn. The spark plug can wear out in different ways. If the sealing washer shows signs of wear, or if the insulators are cracked or chipped, replace the spark plugs.



5. Measure the plug gaps with a feeler gauge. The gaps should be 0.8-0.9 mm (0.031-0.035 in). Correct as necessary by carefully bending the side electrode.



- 6. Check that the spark plug washers are in good condition, and thread the plugs in by hand to prevent cross threading.
- 7. After the spark plugs are seated, tighten with a spark plug wrench to compress the washers.



NOTE:

If installing new spark plugs, tighten 1/2 turn after the spark plugs seat to compress the washers. If reinstalling used spark plugs, tighten 1/8 - 1/4 turn after the spark plugs seat to compress the washers.

NOTICE

The spark plugs must be securely tightened. An improperly tightened plug can become very hot and may cause engine damage.

8. Reinstall the spark plug caps.9. Reinstall the engine cover.

Battery Service

NOTICE

Battery handling differs according to the type of the battery and the instructions described below might not be applicable to the battery of your outboard. Refer to the battery manufacturer's instructions.

Check that the battery cables are connected securely. If the battery terminals are contaminated or corroded, remove the battery and clean the terminals.

Battery check interval: Before each use.

AWARNING

Batteries produce explosive gases: If ignited, an explosion can cause serious injury or blindness. Provide adequate ventilation when charging.

- CHEMICAL HAZARD: Battery electrolyte contains sulfuric acid. Contact with eyes or skin, even through clothing, may cause severe burns. Wear a faceshield and protective clothing.
- Keep flames and sparks away, and do not smoke in the area. ANTIDOTE: If electrolyte gets into your eyes, flush thoroughly with warm water for at least 15 minutes and call a physician immediately.
- POISON: Electrolyte is poison.
- ANTIDOTE
- -External: Flush thoroughly with water.
- Internal: Drink large quantities of water or milk.
 Follow with milk of magnesia or vegetable oil, and call a physician immediately.
- KEEP OUT OF REACH OF CHILDREN.



Installation check:

Check that the cables are connected to the battery terminals securely. Tighten the terminals if they are loose.



- 1. Disconnect the battery cable at the battery negative (-) terminal, then at the battery positive (+) terminal.
- 2. Remove the battery and clean the battery terminals and battery cable terminals with a wire brush or sand paper.

Clean the battery with a solution of baking soda and warm water, taking care not to get the solution or water in the battery cells. Dry the battery thoroughly.

MAINTENANCE

3. Connect the battery positive (+) cable to the battery positive (+) terminal, then the battery negative (-) cable to the battery negative (-) terminal. Tighten the bolts and nuts securely. Coat the battery terminals with grease.

When disconnecting the battery cable, be sure to disconnect at the battery negative (-)terminal first. To connect, connect at the positive (+)terminal first, then at the negative (-) terminal. Never dis/connect the battery cable in the reverse order, or it causes a short circuit when a tool contacts the terminals.



Lubrication

Wipe the outside of the engine with a cloth dipped in oil. Apply marine anticorrosion grease to the following parts: 20 operating hours or a month after the date of purchase for initial lubrication, then every 100 operating hours or 6 months.

NOTE:

Apply anticorrosion oil to pivot surfaces where grease cannot penetrate.







Fuel Filter Check/Replacement

The fuel filter is located between the fuel coupling and the fuel pump. Water or sediment accumulated in the fuel filter can cause loss of power or hard starting. Check and replace the fuel strainer periodically. Inspection interval: Every 100 operating hours or 6 months.

Replacement interval:

Every 200 operating hours or every year.

AWARNING

- Gasoline is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks near the outboard motor while draining fuel.
- Always work in a wellventilated area.
- Be sure that any fuel drained from the outboard motor is stored in a safe container.
- Be careful not to spill fuel when replacing the filter. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.



1. Disconnect the fuel line connector from the outboard motor.





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MAINTENANCE



ARROW (Fuel Flow Direction)

2. Install the new fuel filter so that the arrow mark on the fuel filter is toward the fuel pump side.

NOTE:

Fuel flow will be impeded if the filter is installed backward.

3. Connect the fuel lines to the fuel filter securely with the line clips.



FUEL FILLER CAP VENT KNOB

4. Turn the vent knob to OPEN side, squeeze and release the priming bulb to feed the fuel, and check for leaks.



PRIMER BULB

NOTE:

If loss of power or hard starting is found caused by excessive water or sediment accumulated in the fuel filter, inspect the fuel tank. Clean the fuel tank if necessary.



Fuel Tank and Tank Filter Cleaning



Clean the fuel tank and tank filter every year or after every 200 hours of outboard motor operation.

\langle Fuel Tank Cleaning \rangle

- 1. Disconnect the fuel line from fuel tank.
- 2. Empty the tank, pour in a small quantity of gasoline, and clean the tank thoroughly by shaking it. Drain and dispose of the gasoline properly.



(For Bodensee-Lake type) The combustion process produces carbon monoxide and hydrocarbons. Control of hydrocarbons is very important because under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic. Honda Motor Co., Ltd. utilizes lean carburetor settings and other

and hydrocarbons. Problems that May Affect Outboard

Motor Emissions

If you are aware of any of the following symptoms, have the outboard motor inspected and repaired by your authorized Honda

- 2. Hard starting or stalling after
- 3. Misfiring or backfiring during acceleration

4. Poor performance (driveability) and poor fuel economy



Replacing the Fuse (Electric starter type and 6A charge coil type)



20A FUSE FUSE CASE LID If the fuse blows, running the engine will not charge the battery. Before replacing the fuse, check the current ratings of the electrical accessories and ensure that there are no abnormalities.

\langle How to replace the fuse \rangle

- 1. Stop the engine.
- 2. Remove the engine cover.
- 3. Remove the fuse case lid and pull the blown fuse out of the clip with your finger.
- 4. Push a new fuse into the clips.



BLOWN FUSE

(Designated fuse) 20A

AWARNING

Never use a fuse with a different rating from that specified. Serious damage to the electrical system or a fire may result.

NOTICE

If the fuse is blown, check the cause, then replace the fuse with a spare fuse of the same rated capacity. Unless the cause is found, the fuse may blow again.



If the propeller is damaged by striking a rock, or other obstacle, replace the propeller as follows.

1. Remove the cotter pin then remove the 10 mm castle nut, 10 mm plain washer, propeller and thrust washer.

COTTER PIN



2. Install the new propeller in the reverse sequence to removal. Be sure to replace the cotter pin with a new one.

CASTLE NUT TIGHTENING TORQUE: 4.0 N·m (0.4 kgf·m, 2.9 lbf·ft) UPPER LIMIT OF TORQUE: 17 N·m (1.7 kgf·m, 12 lbf·ft)

NOTE:

- Install the thrust washer with the grooved side toward the gear case.
- Tighten the castle nut with your hand first until the propeller has no play. Then, tighten the castle nut

again with a tool until the groove in the castle nut aligns with the cotter pin hole. (Note that this tool is not included in the tools that come together with the outboard motor.)

• Use a genuine Honda cotter pin and bend the pin ends as shown.

Servicing a Submerged Outboard Motor

A submerged outboard motor must be serviced immediately after it is recovered from the water in order to minimize corrosion. If there is a Honda outboard motor dealership nearby, take the outboard motor immediately to the dealer. If you are far from a dealership, proceed as follows:

- 1. Remove the engine cover, and rinse the outboard motor with fresh water to remove salt water, sand, mud, etc.
- 2. Loosen the carburetor drain screw, drain the contents of the carburetor



into a suitable container, then retighten the drain screw (see page 132).

3. Remove the spark plugs. Disengage the emergency stop switch clip from the engine stop switch and pull the recoil starter grip several times to completely expel water from the cylinders.



STARTER GRIP



NOTICE

- When cranking the engine with an open ignition circuit (spark plugs removed from the ignition circuit), disengage the emergency stop switch clip to prevent electrical damage to the ignition system.
- If the outboard motor was running when it submerged, there may be mechanical damage, such as bent connecting rods. If the engine binds when cranked, do not attempt to run the outboard motor until it has been repaired.



- 4. Change the engine oil (see page 113). If there was water in the engine crankcase, or if the used engine oil showed signs of water contamination, then a second engine oil change should be performed after running the engine for 1/2 hour.
- 5. Pour a teaspoon of engine oil into each spark plug hole, then pull the recoil starter grip several times to lubricate the inside of the cylinders. Reinstall the spark plugs.

6. Attempt to start the engine.

▲WARNING

Exposed moving parts can cause injury. Use extreme care when installing the engine cover. Do not operate the outboard motor without the engine cover.

- If the engine fails to start, remove the spark plugs, clean and dry the electrodes, then reinstall the spark plugs and attempt to start the engine again.
- If the engine starts, and no mechanical damage is evident, continue to run the engine for 1/2 hour or longer (be sure the water level is at least 100 mm (4 in) above the anticavitation plate).
- 7. As soon as possible, take the outboard motor to a Honda outboard motor dealer for inspection and service.

13. STORAGE

For longer service life of the outboard motor, have your outboard motor serviced by an authorized Honda outboard motor dealer before storage. However, the following procedures can be performed by you, the owner, with a minimum of tools.

Fuel

NOTE:

Gasoline spoils very quickly depending on factors such as light exposure, temperature and time. In worst cases, gasoline can be contaminated within 30 days. Using contaminated gasoline can seriously damage the engine (carburetor clogged, valve stuck). Such damage due to spoiled fuel is disallowed from coverage by the warranty. To avoid this please strictly follow

these recommendations:

- Only use specified gasoline (see page 51).
- Use fresh and clean gasoline.
- To slow deterioration, keep gasoline in a certified fuel container.
- If long storage (more than 30 days) is foreseen, drain fuel tank and carburetor.

Carburetor Draining

Draining the outboard motor before storing it for a long time.

AWARNING

Gasoline is extremely flammable, and gasoline vapor can explode, causing serious injury or death. Do not smoke or allow flames or sparks in your working area. KEEP OUT OF REACH OF CHILDREN.

- Be careful not to spill fuel. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before storing or transporting the outboard motor.
- Do not smoke or allow flames or sparks where fuel is drained or stored.

How to extract the fuel

This procedure requires maintenance skills. Refrain from doing it yourself. Present this manual to your dealer and have the work carried out by them.

NOTE:

Carry out the removal of fuel by following the procedures described in the manual. If you don't follow the procedures correctly, some fuel may remain in the carburetor and starting enrichment system passage causing damage to the engine.



The maintenance procedure differs depending on which enrichment system you have.

You can tell which system you have according to whether there is a choke knob.

- With choke knob: Manual starting enrichment system.
- Without the choke knob: Automatic starting enrichment system.



- 1. Use up all fuel in the fuel supply pipe.
- (1) Remove the fuel supply hose.
- (2) Submerge the antiventilation plate.
- (3) Start the engine and idle the engine until it stops.
 - Tiller handle type (see page 60)
 - Remote control type (see page 66)
- (4) When using the remote control, turn the engine switch "OFF" after the engine stops.

- 2. Making it possible to discharge the fuel from the starting enrichment system fuel supply pipe.
- (1) Opening up the starting enrichment system outlet.
 - Without the choke knob: Wait for an hour or more after the engine stops. The starting enrichment system opening opens up after about an hour.
- (2) Remove the emergency stop switch clip from the emergency stop switch (see pages 99 and 101).
- (3) Put the shift lever or control lever into the "N" (neutral) position (see pages 61 and 67).



- 3. Remove fuel from the carburetor float.
 - (1) Remove the engine cover (see page 49).
 - (2) Loosen the drain screw and drain off the fuel into a container.
- (3) When the fuel has run out, tighten the screw.





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Battery Storage

NOTICE

Battery handling differs according to the type of the battery. Refer to the battery manufacturer's instructions.

▲WARNING

Batteries produce explosive gases: If ignited, an explosion can cause serious injury or blindness. Provide adequate ventilation when charging.

• CHEMICAL HAZARD: Battery electrolyte contains sulfuric acid. Contact with eyes or skin, even through clothing, may cause severe burns. Wear a faceshield and protective clothing.

- Keep flames and sparks away, and do not smoke in the area. ANTIDOTE: If electrolyte gets into your eyes, flush thoroughly with warm water for at least 15 minutes and call a physician immediately.
- POISON: Electrolyte is poison.

ANTIDOTE

- -External: Flush thoroughly with water.
- Internal: Drink large quantities of water or milk.
 Follow with milk of magnesia or vegetable oil, and call a physician immediately.
- KEEP OUT OF REACH OF CHILDREN.



- 1. Disconnect the battery cable at the battery negative (-) terminal, then at the battery positive (+) terminal.
- 2. Remove the battery and clean the battery terminals and battery cable terminals with a wire brush or sand paper.

Clean the battery with a solution of baking soda and warm water, taking care not to get the solution of water in the battery cells. Dry the battery thoroughly.



- 3. Fill the battery with distilled water to the upper level line. Never overfill the battery.
- 4. Store the battery on a level surface in a cool, dry, well ventilated place out of direct sunlight.
- 5. Once a month, check the specific gravity of the electrolyte and recharge as required to prolong battery life.

Transport/Storage Position of the Outboard Motor



Transport and store the outboard motor either vertically or horizontally, as shown here. Store the outboard motor in a well-ventilated area free from direct sunlight and humidity.

Vertical transport or storage: Attach the stern bracket to a stand.

PROTECTOR CASE PROTECTOR

Horizontal transport or storage: Rest the outboard motor on the case protector.

Always rest the outboard motor on a protector and be sure to protect it from impact and damage.

ACAUTION

Any other transport or storage position may cause damage or oil leakage.





14. DISPOSAL

To protect the environment, do not dispose of this product, battery, engine oil, etc. carelessly by leaving them in the waste. Observe the local laws and regulations or consult your authorized Honda dealer for disposal.

TROUBLESHOOTING 15.

Fill tank with fuel.

line.

terminal.

securely.

procedure.

spark plug cap

bent or pinched fuel

- \langle Engine fails to start \rangle
- 1. No fuel in tank. -
- 2. Fuel line is flattened or Check for excessively kinked.
- Connect properly. 3. Fuel connector is not – connected properly.
- 4. Fuel is contaminated or *—* Replace with new fuel. stale.
- 5. Battery is discharged. Charge battery. (Electric starter type)
- 6. Battery terminal is loose. Tighten battery (Electric starter type) → Install and tighten
- 7. Spark plug cap is loose or disconnected.
- 8. Fuse is blown out. - Replace with new (Electric starter type) fuse.
- 9. Engine is started in Start in correct wrong procedure.
- \langle Engine speed fluctuates or engine stalls \rangle
- 1. Fuel level is low. Add fuel.

- 2. Fuel line is flattened or Check for excessively bent or pinched fuel kinked. line.
- 3. Fuel filter is clogged. Replace fuel filter.
- 4. Spark plug is fouled. Remove spark plug
- and dry and clean it. 5. Spark plug heat range is — Replace with spark plug of proper heat incorrect. range.
- 6. Spark plug gap is Adjust to proper gap. incorrect.

\langle Engine speed does not increase \rangle

1. Fuel line is flattened or — Check for excessively kinked. bent or pinched fuel line.

authorized Honda

passengers equally.

outboard motor dealer.

- 2. Fuel filter is clogged. Replace fuel filter.
- 3. Engine oil level is low. Check engine oil and add to specified level.
- 4. Unmatched propeller is \longrightarrow Consult with an selected.
- 5. Passengers are not - Distribute the distributed equally.
- 6. Outboard motor is not Install the outboard installed properly. motor in the proper position.

TROUBLESHOOTING

 Engine overheats > 1. Water intake port and/or	Clean water intake port and/or water check hole. Distribute the passengers equally. Do not load on the boat excessively.
< Engine overrevs >	
1. Cavitation	Install the outboard motor in the proper position.
2. Propeller is damaged.	Replace propeller.
3. Unmatched propeller is selected.	Consult with an authorized Honda outboard motor dealer.
4. Trim angle is not correct.	Trim to correct angle.

MODEL		BF8D				
Description Code		BAAJ				
Туре		Н	HS	R		
Overall length		610	mm	600 mm		
		(24.	(23.6 in)			
Overall width			345 mm (13.6 in)			
Overall height	S		1,105 mm (43.5 in)			
	L		1,235 mm (48.6 in)			
Transom height	S		433 mm (17.0 in)			
(when transom angle at 12°)	L	563 mm (22.2 in)				
Dry mass	S	42.0 kg (92.6 lbs)	g (92.6 lbs) 45.5 kg (100.3 lbs) 46.0			
(weight) *	L	44.5 kg (98.1 lbs)	98.1 lbs) 48.0 kg (105.8 lbs) 48.5 kg			
Rated power			5.9 kW (8.0 PS)			
Full throttle range		4,500—5,500 min ⁻¹ (rpm)				
Engine type		4 stroke OHC in-line 2 cylinder, water-cooled				
Displacement		222 cm ³ (13.5 cu-in)				
Spark plug gap		0.8-0.9 mm (0.031-0.035 in)				
Starter system		Recoil starter Recoil starter, Electric starter				
Ignition system		C.D.I.				
Lubrication system		Trochoid pump pressure lubrication				
Specified oil		Engine: API standard (SG, SH, SJ) SAE 10W-30				
		Gear case: API standard (GL-4) SAE 90 Hypoid gear oil				

* Without battery cable, with propeller

Honda outboards are power rated in accordance with ISO8665 (propeller shaft output).

Oil capacity	Dil capacity Engine: 1.0 L (1.1 US qt, 0.9 lmp qt) without oil filter change				
1 2	1.1 L (1.2 US gt, 1.0 Imp gt) with oil filter change				
	Gear case: 0.29 L (0.31 US qt, 0.26 Imp qt)				
D.C. output	12V-6A				
Cooling system	V	Vater cooling with thermo	stat		
Exhaust system		Water exhaust			
Spark plugs	CR	5EH-9 (NGK) , U16FER9 (DENSO)		
Fuel pump	Diaphragm type fuel pump				
Fuel	Automotive unleaded gasoline				
	(91 research octane, 86 pump octane, or higher)				
Tank capacity		12 L (3.2 US gal, 2.6 lmp g	al)		
Gear change	Forv	vard-Neutral-Reverse (dog	g type)		
Steering angle	45° right and left				
Transom angle	(Manual tilt type): 5 stages (4°, 8°, 12°, 16°, 20°)				
Tilt angle	(Manual tilt SH and LH type):				
(when transom angle at 12°)	3-stage adjustment (22°, 37° and 63°)				
	(Manual tilt R type):				
3-stage adjustment (22°, 37° and 64°)					
Remote control steering system Motor-mounted					

MODEL		BF10D				
Description Code		BABJ				
Туре		Н	HS	R		
Overall length		610 mm	600 mm (23.6 in)			
Overall width		345 mm (13.6 in)				
Overall height S			1,105 mm (43.5 in)			
	L		1,235 mm (48.6 in)			
	Х			1,375 mm (54.1 in)		
Transom height	S		433 mm (17.0 in)			
(when transom angle at 12°)	L	563 mm (22.2 in)				
	Х			703 mm (27.7 in)		
Dry mass S (weight) * L X		42.0 kg (92.6 lbs)	45.5 kg (100.3 lbs)	46.0 kg (101.4 lbs)		
		44.5 kg (98.1 lbs) 48.0 kg (105.8 lbs)		48.5 kg (106.9 lbs)		
				52.5 kg (115.7 lbs)		
Rated power		7.4 kW (10 PS)				
Full throttle range		5,000-6,000 min ⁻¹ (rpm)				
Engine type		4 stroke OHC in-line 2 cylinder, water-cooled				
Displacement		222 cm ³ (13.5 cu-in)				
Spark plug gap		0.8-0.9 mm (0.031-0.035 in)				
Starter system		Recoil starter Recoil starter, Electric starter				
Ignition system		C.D.I.				
Lubrication system		Trochoid pump pressure lubrication				
Specified oil		Engine: API standard (SG, SH, SJ) SAE 10W-30				
		Gear case: API standard (GL-4) SAE 90 Hypoid gear oil				

* Without battery cable, with propeller

Honda outboards are power rated in accordance with ISO8665 (propeller shaft output).

Oil capacity	Engine: 1.0 L (1.1 US qt, 0.9 Imp qt) without oil filter change				
	1.1 L (1.2 US qt, 1.0 lmp qt) with oil filter change				
	Gear case: 0.29 L (0.31 US qt, 0.26 Imp qt)				
D.C. output	12V-6A 12V-12A	12V-12A			
Cooling system	Water cooling with thermost	at			
Exhaust system	Water exhaust				
Spark plugs	CR5EH-9 (NGK), U16FER9 (DE	NSO)			
Fuel pump	Diaphragm type fuel pump				
Fuel	Automotive unleaded gasoli	ne			
	(91 research octane, 86 pump octane,	or higher)			
Tank capacity	12 L (3.2 US gal, 2.6 Imp gal)			
Gear change	Forward-Neutral-Reverse (dog t	ype)			
Steering angle	45° right and left				
Transom angle	(Manual tilt type): 5 stages (4°, 8°, 12°, 16°, 20°)				
Tilt angle	(Manual tilt SH and LH type):				
(when transom angle at 12°)	3-stage adjustment (22°, 37° and 63°)				
	(Manual tilt R type):				
3-stage adjustment (22°, 37° and 64°)					
Remote control steering system		Motor-mounted			

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MODEL	BF15D						
Description Code	BALJ						
Туре	Н	HS	HG	R	RT		
Overall length		650 mm (25.6 in) 640 mm (25.2 i				(25.2 in)	
Overall width		350 mm (13.8 in)					
Overall height	1,110 mm (43.7 in)						
	L		1,	,240 mm (48.8 i	n)		
	Х					1,380 mm	
						(54.3 in)	
Transom height	S			433 mm (17.0 in			
(when transom angle at 12°)	L		Ę	563 mm (22.2 in)		
	Х					703 mm	
						(27.7 in)	
Dry mass	S	46.5 kg	49.0 kg	56.0 kg	49.5 kg	57.0 kg	
(weight) *		(102.5 lbs)	(108.0 lbs)	(123.5 lbs)	(109.1 lbs)	(125.7 lbs)	
	L	49.5 kg	52.0 kg	57.5 kg	51.0 kg	58.5 kg	
		(109.1 lbs)	(114.6 lbs)	(126.8 lbs)	(112.4 lbs)	(129.0 lbs)	
	Х					61.0 kg	
						(134.5 lbs)	
Rated power		11.0 kW (15 PS)					
Full throttle range		4,500-5,500 min ⁻¹ (rpm)					
Engine type		4 stroke OHC in-line 2 cylinder, water-cooled					
Displacement		350 cm ³ (21.4 cu-in)					
Spark plug gap		0.8-0.9 mm (0.031-0.035 in)					
Starter system		Recoil Recoil starter,					
	starter Electric starter						
Ignition system		C.D.I.					
Lubrication system	Trochoid pump pressure lubrication						
Specified oil		Engine: API standard (SG, SH, SJ) SAE 10W-30					
		Gear case: API standard (GL-4) SAE 90 Hypoid gear oil					

* Without battery cable, with propeller Honda outboards are power rated in accordance with ISO8665 (propeller shaft output).
| 011 | E : 40 | | | |
|---------------------------------------|--|----------------------------------|---------------|--|
| Oil capacity | Engine: 1.0 L (1.1 US qt, 0.9 Imp qt) without oil filter change | | | |
| | 1.1 L (1.2 US qt, 1.0 Imp qt) with oil filter change | | | |
| | Gear case: | 0.29 L (0.31 US qt, 0.26 Imp qt) | | |
| D.C. output | 12V-6A | 12V-12A | 12V-12A | |
| Cooling system | | Water cooling with the | rmostat | |
| Exhaust system | | Water exhaust | | |
| Spark plugs | | CR5EH-9 (NGK), U16FE | R9 (DENSO) | |
| Fuel pump | Diaphragm type fuel pump | | | |
| Fuel | Automotive unleaded gasoline | | | |
| | (91 research octane, 86 pump octane, or higher) | | | |
| Tank capacity | 12 L (3.2 US gal, 2.6 Imp gal) | | | |
| Gear change | Forward-Neutral-Reverse (dog type) | | | |
| Steering angle | 45° right and left | | | |
| Transom angle | (Manual tilt type): 5 stages (4°, 8°, 12°, 16°, 20°) | | | |
| | (G and T type): 4 stages (8°, 12°, 16°, 20°) | | | |
| Tilt angle | (Manual tilt SH type): 3-stage adjustment (22°, 37° and 63°) | | | |
| (when transom angle at 12°) | (Manual tilt LH and R type): 3-stage adjustment (22°, 37° and 64°) | | | |
| | (G and T type): 64° | | | |
| Remote control steering system | | | Motor-mounted | |

MODEL		BF20D					
Description Code			BAMJ				
Туре		H	HS	HG	HT	R	RT
Overall length			650 mm (25.6 in) 640 mm (25.2 ii				(25.2 in)
Overall width				350 mm	(13.8 in)		
Overall height	S	1,1	10 mm (43.7	in)		1,110 mm (43.7 in)	
	L			1,240 mm	n (48.8 in)		
	Х						1,380 mm (54.3 in)
Transom height	S		l.	433 mm	(17.0 in)		
(when transom angle at 12°)	L			563 mm	(22.2 in)		
	Х						703 mm (27.7 in)
Dry mass	S	46.5 kg	49.0 kg	56.0 kg		49.5 kg	57.0 kg
(weight) *		(102.5 lbs)	(108.0 lbs)	(123.5 lbs)		(109.1 lbs)	(125.7 lbs)
	L	49.5 kg	52.0 kg	57.5 kg	59.5 kg	51.0 kg	58.5 kg
		(109.1 lbs)	(114.6 lbs)	(126.8 lbs)	(131.2 lbs)	(112.4 lbs)	(129.0 lbs)
	Х						61.0 kg
							(134.5 lbs)
Rated power				14.7 kW	(20 PS)		
Full throttle range				5,000-6,000) min ^{_1} (rpm)		
Engine type			4 stroke 0	OHC in-line 2	cylinder, wat	er-cooled	
Displacement					21.4 cu-in)		
Spark plug gap			0.	8—0.9 mm (0	.031-0.035 i	n)	
Starter system		Recoil Recoil starter,					
-		starter Electric starter					
Ignition system		C.D.I.					
Lubrication system		Trochoid pump pressure lubrication					
Specified oil		Engine: API standard (SG, SH, SJ) SAE 10W-30 Gear case: API standard (GL-4) SAE 90 Hypoid gear oil					

* Without battery cable, with propeller Honda outboards are power rated in accordance with ISO8665 (propeller shaft output).

Oil capacity	Engine: 1.0 L (1.1 US qt, 0.9 Imp qt) without oil filter change		
	1.1 L (1.2 US qt, 1.0 lmp qt) with oil filter change		
	Gear case:	0.29 L (0.31 US qt, 0.26 Imp qt)	
D.C. output	12V-6A	12V-12A	12V-12A
Cooling system		Water cooling with thermos	stat
Exhaust system		Water exhaust	
Spark plugs		CR5EH-9 (NGK), U16FER9 (I	DENSO)
Fuel pump	Diaphragm type fuel pump		
Fuel	Automotive unleaded gasoline		
	(91 research octane, 86 pump octane, or higher)		
Tank capacity	12 L (3.2 US gal, 2.6 Imp gal)		
Gear change	Forward-Neutral-Reverse (dog type)		
Steering angle		45° right and left	
Transom angle	(Manual tilt type): 5 stages (4°, 8°, 12°, 16°, 20°)		
	(G and T type): 4 stages (8°, 12°, 16°, 20°)		
Tilt angle	(Manual tilt SH type): 3-stage adjustment (22°, 37° and 63°)		
(when transom angle at 12°)	(Manual tilt LH and R type): 3-stage adjustment (22°, 37° and 64°)		
	(G and T ty	/pe): 64°	
Remote control steering system			Motor-mounted



Noise and Vibration

MODEL	BF8D		BF	10D
CONTROL SYSTEM	T (Tiller handle)	R (Remote control)	T (Tiller handle)	R (Remote control)
Sound Pressure level at operator's ears (2006/42/EC, ICOMIA 39-94)	79 dB (A)	76 dB (A)	80 dB (A)	75 dB (A)
Uncertainty	3 dB (A)	3 dB (A)	3 dB (A)	3 dB (A)
Measured sound power level (Reference to EN ISO3744)				
Uncertainty				
Vibration level at hand arm (2006/42/EC, ICOMIA 38-94)	2.7 m/s ²	Not exceed 2.5 m/s ²	3.0 m/s ²	Not exceed 2.5 m/s ²
Uncertainty	1.8 m/s ²		1.8 m/s ²	

MODEL	BF15D		BF	20D
CONTROL SYSTEM	T (Tiller handle)	R (Remote control)	T (Tiller handle)	R (Remote control)
Sound Pressure level at operator's ears (2006/42/EC, ICOMIA 39-94)	81 dB (A)	77 dB (A)	83 dB (A)	77 dB (A)
Uncertainty	2 dB (A)	2 dB (A)	2 dB (A)	2 dB (A)
Measured sound power level (Reference to EN ISO3744)	87 dB (A)		90 dB (A)	
Uncertainty	2 dB (A)		2 dB (A)	
Vibration level at hand arm (2006/42/EC, ICOMIA 38-94)	3.3 m/s ²	Not exceed 2.5 m/s ²	3.0 m/s ²	Not exceed 2.5 m/s ²
Uncertainty	0.7 m/s ²		0.7 m/s ²	

Reference to: ICOMIA Standard: as it specifies the engine operating conditions and measurement conditions.

17. MAJOR Honda DISTRIBUTOR ADDRESSES

For further information, please contact Honda Customer Information Centre at the following address or telephone number:

For European

AUSTRIA Honda Motor Europe (North) Hondastraße 1 2351 Wiener Neudorf Tel.: + 43 (0)2236 690 0 Fax: + 43 (0)2236 690 480 http://www.honda.at

BALTIC STATES (Estonia/Latvia/ Lithuania)

Honda Motor Europe Ltd. Estonian Branch Tulika 15/17 10613 Tallinn Tel. : +372 6801 300 Fax : +372 6801 301 ⊠ honda.baltic@honda-eu.com.

BELGIUM Honda Motor Europe (North) Doornveld 180-184 1731 Zellik Tel. : +32 2620 10 00 Fax : +32 2620 10 01 http://www.honda.be ⊠ BH_PE@HONDA-EU.COM

BULGARIA

Kirov Ltd. 49 Tsaritsa Yoana Blvd 1324 Sofia Tel.: +359 2 93 30 892 Fax: +359 2 93 30 814 http://www.kirov.net ⊠ honda@kirov.net

CROATIA

Fred Bobek d.o.o. Honda-Marine Croatia - Trg. - Ind. zona bb 22211 Vodice Tel. : + 385 22 44 33 00/33 10 Fax : + 385 22 44 05 00 http://www.honda-marine.hr

CYPRUS

Alexander Dimitriou & Sons Ltd. 162, Yiannos Kranidiotis Avenue 2235 Latsia, Nicosia Tel. : + 357 22 715 300 Fax : + 357 22 715 400

CZECH REPUBLIC BG Technik cs, a.s.

U Zavodiste 251/8 15900 Prague 5 - Velka Chuchle Tel. : +420 2 838 70 850 Fax : +420 2 667 111 45 http://www.hondamarine.cz

DENMARK

Tima Products A/S Tårnfalkevej 16 2650 Hvidovre Tel.: +45 36 34 25 50 Fax: +45 36 77 16 30 http://www.tima.dk

FINLAND

OY Brandt AB Tuupakantie 7B 01740 Vantaa Tel. : + 358 207757200 Fax : + 358 (0)9 878 5276 http://www.brandt.fi

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Honda Relations Clients TSA 80627 45146 St Jean de la Ruelle Cedex Tel. : 02 38 81 33 90 Fax : 02 38 81 33 91 http://www.honda-fr.com Sepaceclient@honda-eu.com

GERMANY

Honda Motor Europe (North) GmbH Sprendlinger Landstraße 166 63069 Offenbach am Main Tel.: + 49 69 8309-0 Fax: + 49 69 8320 20 http://www.honda.de

⊠ info@post.honda.de

GREECE

General Automotive Co S.A. 71, Leoforos Athinon 10173 Athens Tel. : +30 210 3483582 Fax : +30 210 3418092 http://www.honda.gr ⊠ info@saracakis.gr



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For further information, please contact Honda Customer Information Centre at the following address or telephone number:

For European (continued)

HUNGARY Motor Pedo Co., Ltd.

Kamaraerdei ut 3. 2040 Budaors Tel. : +36 23 444 971 Fax : +36 23 444 972 http://www.hondakisgepek.hu ⊠ info@hondakisgepek.hu

ICELAND Bernhard ehf.

Vatnagardar 24-26 104 Reykdjavik Tel. : + 354 520 1100 Fax : + 354 520 1101 http://www.honda.is

IRELAND Two Wheels Itd M50 Business Park, Ballymount Dublin 12 Tel. : + 353 1 4381900 Fax : + 353 1 4607851 http://www.hondaireland.ie ⊠ Service@hondaireland.ie

ITALY Honda Italia Industriale S.p.A.

Via della Cecchignola, 5/7 00143 Roma Tel.: +848 846 632 Fax: +39 065 4928 400 http://www.hondaitalia.com ⊠ info.marine@honda-eu.com

MALTA

Associated Motors Company Ltd. New Street in San Gwakkin Road -Mriehel Bypass Mriehel QRM17 Tel. : +356 21 498 561 Fax : +356 21 480 150

NETHERLANDS

Honda Motor Europe (North) Afd. Power Equipment-Capronilaan 1 1119 NN Schiphol-Rijk Tel. : +31 (0)20 7070000 Fax : +31 (0)20 7070001 http://www.honda.nl

NORWAY AS Kellox

Boks 170 - Nygårdsveien 67 1401 Ski Tel. : +47 64 97 61 00 Fax : +47 64 97 61 92 http://www.kellox.no

POLAND Aries Power Equipment Sp. z o.o.

ul. Wroclawska 25 01-493 Warszawa Tel.: +48 (22) 861 43 01 Fax: +48 (22) 861 43 02 http://www.ariespower.pl http://www.mojahonda.pl ⊠ info@ariespower.pl

PORTUGAL

Honda Portugal S.A. Rua Fontes Pereira de Melo 16 Abrunheira, 2714-506 Sintra Tel.: +351 21 915 53 33 Fax: +351 21 915 23 54 http://www.honda.pt ⊠ honda.produtos@hondaeu.com

REPUBLIC OF BELARUS

Scanlink Ltd. Kozlova Drive, 9 220037 Minsk Tel. : + 375 172 999090 Fax : + 375 172 999900 http://www.hondapower.by

RUSSIA

Honda Motor RUS LLC 21. MKAD 47 km., Leninsky district. Moscow region, 142784 Russia Tel. : +7 (495) 745 20 80 Fax : +7 (495) 745 20 81 http://www.honda.co.ru ⊠ postoffice@honda.co.ru

SERBIA & MONTENEGRO

Bazis Grupa d.o.o. Grcica Milenka 39 11000 Belgrade Tel. : + 381 11 3820 295 Fax : + 381 11 3820 296 http://www.hondasrbija.co.rs



MAJOR Honda DISTRIBUTOR ADDRESSES

For further information, please contact Honda Customer Information Centre at the following address or telephone number:

For European (continued)

SLOVAK REPUBLIC Honda Slovakia, s.r.o.

Prievozská 6 821 09 Bratislava Tel.: + 421 2 32131112 Fax: + 421 2 32131111 http://www.honda.sk

SLOVENIA

AS Domzale Moto Center D.O.O. Blatnica 3A 1236 Trzin Tel. : +386 1 562 22 42 Fax : +386 1 562 37 05 http://www.as-domzale-motoc.si

SPAIN & Las Palmas province

(Canary Islands) Greens Power Products, S.L. Poligono Industrial Congost -Av Ramon Ciurans n°2 08530 La Garriga - Barcelona Tel. : + 34 93 860 50 25 Fax : + 34 93 871 81 80 http://www.hondaencasa.com

Tenerife province (Canary Islands) Automocion Canarias S.A. Carretera General del Sur, KM. 8,8 38107 Santa Cruz de Tenerife Tél. : + 34 (922) 620 617 Fax : + 34 (922) 618 042 http://www.aucasa.com ⊠ ventas@aucasa.com ⊠ taller@aucasa.com

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 http://www.honda.se

 ⊠ hpesinfo@honda-eu.com

SWITZERLAND

Honda Suisse S.A. 10 Route des Moulières 1214 Vernier-Genève Tel. : +41 (0)22 939 09 09 Fax : +41 (0)22 939 09 97 http://www.honda.ch TURKEY Anadolu Motor Uretim ve Pazarlama AS Esentepe mah. Anadolu cad. No: 5 Kartal 34870 Istanbul Tel. : +90 216 389 59 60 Fax : +90 216 353 31 98 http://www.anadolumotor.com.tr ⊠ antor@antor.com.tr

UKRAINE

Honda Ukraine LLC 101 Volodymyrska Str. - Build. 2 Kyiv 01033 Tel. : + 380 44 390 14 14 Fax : + 380 44 390 14 10 http://www.honda.ua ⊠ CR@honda.ua

UNITED KINGDOM

Honda (UK) Power Equipment 470 London Road Slough - Berkshire, SL3 8QY Tel. : +44 (0)845 200 8000 http://www.honda.co.uk

For Australian

AUSTRALIA

Honda Australia Motorcycle and Power Equipment Pty. Ltd 1954-1956 Hume Highway Campbellfield Victoria 3061 Tel. : (03) 9270 1111 Fax : (03) 9270 1133 http://www.hondampe.com.au/

18. "EC DECLARATION OF CONFORMITY" CONTENT OUTLINE

THAT THE PROE	DUCT IS IN CONFORMITY V	THE MANUFACTURER, HEREWI	FOLLOWING EC-DIRECTIVES
2006/42/EC, 2004/	(1 0 8/EC	3) Outboard engine, Propulsion sys	stem
4) REFERENCE TO	HARMONIZED STANDARI	DS: EN ISO 8178 En ISO 14509	
5) DESCRIPTION O	OF THE MACHINERY		
6) CATEGORY:	7) Outboard engine	8) MAKE:	Honda
9) TYPE:	7)	10) SERIAL NUMBER:	10)
11) MANUFACTURE	R:	Honda Motor Co., Ltd. 2-1-1 Minamiaoyama Minato-ki	u Tokyo 107- 8 556 Japan
12) AUTHORIZED R	EPRESENTATIVE:	Honda Motor Europe Ltd Aa Wijngaardveld 1 (Noord V), 930	
13) SIGNATURE: 14) NAME: 15) TITLE	13) 14) 16) 16)	17) DAT 18) PLA	· · · · · · · · · · · · · · · · · · ·

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"EC DECLARATION OF CONFORMITY" CONTENT OUTLINE

1) DECLARATION CE DE CONFORMITE 2) LE SOUSSIGNE, (<u>14)</u> , REPRÉSENTANT DU CONSTRUCTEUR, DÉCLARE PAR	
LA PRESENTE QUE LE PRODUIT EST CONFORME AUX DISPOSITIONS DES DIRECTIVES CE SUIVANTES	
3) moteur hors-bord. Sytème de propulsion	
4) REFERENCE AUX NORMES HARMONISEES 5) DESCRIPTION DE MACHINE 6) CATEGORIE 7) moteur hors-bord 8) MARQUE	
9) TYPE 10) NUMERO DI SERIE 11) CONSTRUCTEUR 12) REPRESENTANT HABILITE 13) SIGNATURE 14) NOM 15) TITRE	
16) Directeur Qualite 17) DATE 18) LIEU	français (FRENCH)
1) DICHIARAZIONE DI CONFORMITA' CE 2) IL SOTTOSCRITTO, (14), RAPPRESENTANTE DEL COSTRUTTORE, DICHIARA	
QUI DI SEGUITO CHE IL PRODOTTO E' CONFORME A QUANTO PREVISTO DALLE SEGUENTI DIRETTIVE COMUNITARIE	
3) MOTORE FUORIBORDO, Sistema di propulsione	
4) RIFERIMENTO ALLE NORME ARMONIZZATE 5) DESCRIZIONE DELLA MACCHINA 6) CATEGORIA	
7) MOTORE FUORIBORDO 8) MARCA 9) TIPO 10) NUMERO DI SERIE 11) FABBRICANTE 12) RAPPRESENTANTE AUTORIZZATO	
13) FIRMA 14) NOME 15) TITOLO 16) DIRETTORE DELLA QUALITA' 17) ADDI 18) LUOGO	italiano (ITALIAN)
1) EG-KONFORMITÄTSERKLÄUNG 2) DER UNTERZEICHNER, (14), DER DEN HERSTELLER VERTRITT, ERKLÄRT	-
HIERMIT, DAß DAS PRODUKT IN ÜBEREINSTIMMUNG MIT DEN BESTIMMUNGEN DER NACHSTEHENDEN EG-RICHTLINIEN IS	T
3) Außenbordmotor, Antriebsart	
4) VERWEIS AUF HARMONISIERTE NORMEN 5) BESCHREIBUNG DER MASCHINE 6) ART 7) Außenbordmotor	
8) FABRIKAT 9) TYP 10) SERIEN NUMMER 11) HERSTELLER 12) BEVOLLMÄCHTIGTER 13) UNTERSCHIFT 14) NAME 15) TITEL	
16) Qualitatssi Cherung 17) DATUM 18) ORT	deutsch (GERMAN)
I) EG-VERKLARING VAN OVEREENSTEMMING 2) ONDERGETEKENDE, <u>(14)</u> , VERTEGENWOORDIGER VAN DE	
FABRIKANT, VERKLAART HIERMEE DAT HET PRODUCT VOLDOET AAN DE BEPALINGEN VAN DE VOLGENDE EG-RICHTLIJN	IEN
3) buitenboordmotor, Aandrijfsysteem	
4) REFERENTIE NAAR GEHARMONISEERDE NORMEN 5) BESCHRIJVING VAN DE MACHINE 6) CATEGORIE	
7) buitenboormotor 8) FABRIKAT 9) TYPE 10) SERIEN UMMER 11) FABRIKANT 12) GEMACHTIGDE VAN DE FABRIKANT	
13) HANDTEKENING 14) NAAM 15) TITEL 16) Directeur Kwaliteitszorg 17) DATUM 18) PLAATS	nederlands (DUTCH)
1) ΕΚ-ΔΗΛΩΣΗ ΕΝΑΡΜΟΝΙΣΗΣ 2) Ο ΥΠΟΓΡΑΦΩΝ. <u>(14)</u> , ΕΚΠΡΟΣΩΠΟΝΤΑΣ ΤΟΝ ΚΑΤΑΣΚΕΥΑΣΤΗ, ΔΙΑ ΤΟΥ ΠΑΡΟΝΤΟΣ	
ΔΗΛΩΝΕΙ ΟΤΙ ΤΟ ΠΡΟΪ́ΟΝ ΒΡΙΣΚΕΤΑΙ ΣΕ ΕΝΑΡΜΟΝΙΣΗ ΜΕ ΤΙΣ ΠΡΟΒΛΈΨΕΙΣ ΤΩΝ ΚΑΤΩΘΙ ΟΔΗΓΙΩΝ ΤΗΣ ΕΕ	
3) Εξωλέμβια μηχανή, Σύστημα Πρόωσης	
4) ΠΑΡΑΠΟΜΠΗ ΣΤΑ ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ 5) ΠΕΡΙΓΡΑΦΗ ΜΗΧΑΝΗΜΑΤΟΣ 6) ΚΑΤΗΓΟΡΙΑ 7) Εξωλέμβια μηχανή	
8) ΕΡΓΟΣΤΑΣΙΟ ΚΑΤΑΣΚΕΥΗΣ 9) ΤΥΠΟΣ 10) ΑΡΙΘΜΟΣ ΣΕΙΡΑΣ 11) ΚΑΤΑΣΚΕΥΑΣΤΗΣ 12) ΕΞΟΥΣΙΟΔΟΤΗΜΕΝΟΣ ΑΝΤΙΠΡΟΣΩΠ	
13) ΥΠΟΓΡΑΦΗ 14) ΟΝΟΜΑ 15) ΤΙΤΛΟΣ 16) Υπεύθυνος Ποιότητας 17) ΗΜΕΡΟΜΗΝΙΑ 18) ΤΟΠΟΣ	Ελληνικά (GREEK)
1) EF OVERENSSTEMMELSESERKLÆRING 2) UNDERTEGNEDE, (14), DER PEPRÆSENTERER FABRIKANTEN, ERKLÆRER	
HERMED AT PRODUKTET ER I OVERENSSTEMMELSE MED BESTEMMELSERNE I FØLGE EF DIREKTIVERNE	
3) Utenbordsmotor, Fremdrivningssystem	
4) REFERENCE TIL HARMONISEREDE STANDARDER 5) BESKRIVELSE AF MASKINEN 6) KATEGORI 7) Utenbordsmotor 8) FABRIE	KANT
9) TYPE 10) SERIEN UMMER 11) FABRIKANT 12) FABRIKANTENS REPRÆSENTANT 13) SIGNATURE 14) NAVN 15) TITEL	
16) Kvalitets Leder 17) DATO 18) STED	dansk (DANISH)
1) DECLARACIÓN DE CONFORMIDAD 2) EL ABAJO FIRMANTE, (<u>14)</u> , EN REPRESENTACIÓN DE FABRICANTE, DECLARA	
QUE EL PRODUCTO ES CONFORME CON LAS DISPOSICIONES DE LAS SIGUIENTES DIRECTIVAS CE	
3) Motor fueraborda, Sistema de propulsión	
4) REFERENCIA A ESTÁNDARES ARMONIZADOS 5) DESCRIPCIÓN DE LA MAQUINARIA 6) CATEGORÍA 7) Motor fueraborda 8) M.	ARCA
9) TIPO 10) NUMERO DE SERIE 11) FABRICANTE 12) REPRESENTANTE AUTORIZADO 13) FIRMA 14) NOMBRE 15) CARGO	
16) Director de calidad 17) FECHA 18) LUGAR	español (SPANISH) 15
	13

"EC DECLARATION OF CONFORMITY" CONTENT OUTLINE

4	 4) ODKAZ NA HARMONIZOVANE NORMY: 5) POPIS VÝROBKU 6) KATEGORIE: 7) ZAVÉSNY LODNI MOTOR 8) ZNAČKA: 9) TYP: 10) VÝROBNI ČÍSLO: 11) VÝROBCE: 12) AUTORIZOVANY ZÁSTUPCE: 13) PODPIS: 14) JMENO: 15) POZICE 16) Manažer kvality 17) DATUM: 18) MÍSTO: 		<u>čeština (CZECH)</u>
	1) Holnákoli Oznakol z zákol z zákol k k k k k k k k k k k k k k k k k k		
	16)MINOSEGI IGAZGATO 17)KELTEZES DATUMA 18)KELTEZES HELYE 1) Prohlášení o shodě 2) ZASTUPCE VÝROBCE, (14), SVYM PODPISEM POTVRZUJE, ŽE DANY VÝROBEK JE V		r (HUNGARIAN)
	4)ÖSSZHANGBAN A KÖV. SZABVÁNYOKKAL 5)A GÉP LEÍRÁSA 6)KATEGÓRIA 7)KÜLSŐ CSONAKMOTOR 8)GYÁRTOTTA 9)TÍPUS 10)SORSZÁM 11)GYÁRTÓ 12)ENGEDÉLLYEL RENDELKEZŐ KÉPVISELŐ 13)ALÁÍRÁS 14)NÉV 15)BEO:	SZTÁS	
	3)KÜLSÖ CSÖNAKMOTOR, Hajtás rendszer		
	1)MEGFELELŐSÉGI NYILATKOZAT 2)ALULÍROTT, <u>(14)</u> , MINT A GYÁRTÓ KÉPVISELŐJE NYILATKOZIK, HOGY AZ ALÁBBI TERMÉK MINDENBEN MEGFELEL A KÖVETKEZŐ EC ELŐÍRÁSOK RENDELKEZÉSEINEK: 98/37/EC, 89/336/EEC-93/68/EC:		
	14) NAZWISKO 15) TYTUŁ 16) Menadżer Jakości 17) DATA 18) MIEJSCE		polski (POLISH
	4) ZASTOSOWANE NORMY ZHARMONIZOWANE 5) OPIS URZĄDZENIA 6) KATEGORIA 7) Silnik zaburtowy 8) MARKA 9) TYP 10) NUMERY SERYJNE 11) PRODUCENT 12) UPOWAŻNIONY PRZEDSTAWICIEL PRODUCENTA 13) PODPIS		
	3) Silnik zaburtowy, Układ napędowy		
	1) DEKLARACJA ZGODNOŚCI WE 2) NIŻEJ PODPISANY, <u>(14),</u> REPREZENTUJĄCY PRODUCENTA, DEKLARUJE Z CAŁĄ ODPOWIEDZIALNOŚCIĄ, ŻE PRODUKT SPEŁNIA WYMAGANIA ZAWARTE W NASTĘPUJĄCYCH DYREKTYWACH UNIJNYCH	I	
	13) SIGNATUR 14) NAMN 15) TITEL 16) Kvalitetschef 17) DATUM 18) ORT		nska (SWEDISH
	4) REFERERANDE TILL HARMONISERADE STANDARDER 5) BESKRIVNING AV UTRUSTNINGEN 6) KATEGORI 7) Utomborosmotor 8) MERKKI 9) TYPBETECKNING 10) SERIENUMER 11) TILLVERKARE 12) REPRESENTERANDE TILLVERKAR	RENS	
	3) Utomborosmotor, Framdrivningssystem		
	1) EG-FORSÄKRAN OM OVERENSSTÄMMELSE 2) UNDERTEC KNAD, <u>(14), REPRESENTERANDE TILLVERNARE,</u> FÖRSÄKRAR HÄRMED ATT PRODUKTEN ÖVERENSSTÄMMER MED BESTÄMMELSERNA I FÖLJANDE EG-DIREKTIVE		
	1) EG-FØRSÄKRAN OM ÖVERENSSTÄMMELSE 2) UNDERTECKNAD, (14), REPRESENTERANDE TILLVERKARE,	б ълга р ск	и (BULGARIAN
	12) ОТОРИЗИРАН ПРЕСТАВИТЕЛ 13) ПОДПИС 14) ИМЕ 15) ТИТЛА 16) МЕНИДЖЪР НА КАЧЕСТВОТО 17) ДАТА18) МЯСТО		
	4) СЪОТВЕТСТВИЕ С ХАРМОНИЗИРАНИТЕ СТАНДАРТИ 5) ОПИСАНИЕ НА АРТИКУЛА 6) КАТЕГОРИЯ 7) ИЗВЪНБОРДОВИ ДВИГАТЕЛ 8) МАРКА 9) ТИП 10) СЕРИЕН НОМЕР 11) ПРОИЗВОДИТЕЛ		
	3) ИЗВЪН БОРДОВИ ДВИГАТЕЛ, Задвижваща система от оторотототите су у рубонизиралинате сталидарти су описалине на артисија		
	ДЕКЛАРИРА. ЧЕ ПРОДУКТА СЪОТВЕТСТВА НА ИЗСКВАНИЯТА НА СЛЕДНИТЕ ЕВРОПЕЙСКИ ДИРЕКТИВИ		
	17) РА́ІVĀMĀĀRĀ 18) РАІККА <u>suo</u> 1) ЕО-ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ 2) ДОЛУ ПОДШИСАЛИЯТ СЕ, (14), ПРЕДСТАВЛЯВАЩ ДИСТРИБУТОРА,	omi / suome	n kieli (FINNISH
	10) SARJANUMERO 11) VALMISTAJA 12) VALTUUTETTU EDUSTAJA 13) ALLEKIRJOITUS 14) NIMI 15) TITTELI 16) Laatupäällik		
	(4) VITTAUS YHTEISIII STANDARDEIHIN 5) KUVAUS LAITTEESTA 6) KATEGORIA 7) Peramoottori 8) MERKKI 9) MALLI		
	VAKUUTTAA TÄTEN, ETTÄ TUOTE ON SEURAAVIEN EU-DIREKTIIVIEN VAATIMUSTEN MUKAINEN 3) Peramoottori, Tvöntöiäriestelmä		
	T) EY-VAATIMUSTENMUKAISUUSVAKUUTUS 2) ALLEKIRJOITTANUT, (14), JOKA EDUSTAA VALMISTAJAA,		
	13) ASSINATURA 14) NOME 15) TITULO 16) Director de Qualidade 17) DATA 18) LOCAL	po rtu g uês	(PORTUGUESI
	(4) REFERENCIA AS NORMAS HARMONIZADAS 5) DESCRIÇÃO DA MAQUINA 6) CATEGORIA 7) Motor fora de borda 8) MARCA 9) TIPO 10) NUMERO DE SÉRIE 11) FABRICANTE 12) MANDATARIO AUTORIZADO		
	COMUNITARIAS 3) Motor fora de borda. Sistema propulsor 4) REFERÊNCIA AS NORMAS HARMONIZADAS 5) DESCRICAO DA MAQUINA 6) CATEGORIA		

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"EC DECLARATION OF CONFORMITY" CONTENT OUTLINE

1) ES VYHLÁSENIE O ZHODE 2) DOLUPODPÍSANÝ, <u>(14)</u> , ZASTUPUJÚCI VÝROBCU, TÝMTO DEKLARUJE, ŽE	·	
PRODUKT JE V SÚLADE S USTANOVENIAMI NASLEDOVNÝCH SMERNÍC ES		
3) ZÁVESNÝ LODNÝ MOTOR, Systém pohonu		
4) REFERENCIA K HARMONIZOVANÝM ŠTANDARDOM 5) IDENTIFIKÁCIA STROJOV		
6) KATEGÓRIA 7) ZÁVESNÝ LODNÝ MOTOR 8) VÝROBCA/ZNAČKA 9) TYP 10) SÉRIOVÉ ČÍSLO		
11) VÝROBCA 12) ÁUTORIZOVANÝ ZÁSTUPCA 13) PODPIS 14) MENO 15) POZÍCIA 16) MANAŽÉR KVALITY 17) DÁTUM		
18) MIESTO	slovenčina (SLOVAK)	
1) EF SAMSVARSÆRKLERING 2) UNDERTEGNEDE, (14), SOM REPRESENTERER FABRIKANTEN, ERKLÆRER		
HERVED AT PRODUKTET ER I OVERENSSTEMMELSE MED BESTEMMELSENE I FØLGENDE EU DIREKTIV		
3) Utenbordsmotor, Fremdrifts system		
4) REFERANSER TIL HARMONISEREDE STANDARDER 5) BESKRIVELSE AV MASKINEN 6) KATEGORI 7) Utenbordsmotor 8)		
FABRIKANT 9) TYPE 10) SERIE NUMMER 11) FABRIKANT 12) FABRIKANTENS REPRESENTANT 13) SIGNATUR 14) NAVN		
15) TITTEL 16) Kvalitetssjef 17) DATO 18) STED	norsk (NORWEGIAN)	
1) DECLARATIE DE CONFORMITATE. 2) SUBSEMNATUL, (14), REPREZENTAND PE PRODUCATOR, DECLAR PRIN PREZE NTA CA PRODUSUL ESTE IN CONFORMITATE CU PREVEDERILE URMATOARELOR DIRECTIVE CE		
3) MOTOR IN AFARA BORDULUI (EXTERN). Sistem de propulsie		
4) REFERIRE LA STANDARDELE ARMONIZATE: 5) DESCRIEREA ECHIPAMENTULUI 6) CATEGORIA: 7) MOTOR EXTERN		
8) MARCA 9) TIPUL 10) NUMAR DE SERIE 11) PRODUCATOR 12) REPREZENTANT AUTORIZAT 13) SEMNATURA 14) NUMI	7	
15) TITLUL 16) DIRECTOR DE CALITATE 17) DATA 18) LOCATIE	română (ROMANIAN)	
I)EU VASTAVUSDEKLARATSIOON 2)ALLAKIRJUTANU, P. RENNEBOOG, ESINDADES TOOTJAT, DEKLAREERIB SIINKOHAL.	Tomana (Robin in the s	
ET TOODE ON VASTAVUSES JÄRGMÍSTE EC DIREKTIIVIDE SÄTETEGA		
3)Pardaväline mootor, Tõukursüsteem		
4)VIIDE ÜHTLUSTATUD		
STANDARDITELE: 5)MEHHANISMI KIRJELDUS 6)KATEGOORIA: 7)pardaväline mootor 8)VALMISTAJA: 9)TÜÜP: 10)SEERIANUM	BER:	
11)TOOTJA: 12)VOLITATUD ESINDAJA: 13)ALLKIRI: 14)NIMI: 15)AMET 16)Kvaliteedijuht 17)KUUPÄEV: 18)KOHT:	eesti (ESTONIAN)	
1) EK ATBILSTĪBAS DEKLARĀCIJA 2) ZEMĀK MINĒTAIS, <u>(14),</u> KĀ RAŽOTĀJA PĀRSTĀVIS AR ŠO APSTIPRINA, KA ŠIS		
PRODUKTS PILNĪBĀ ATBILST VISIEM STANDARTIEM, KAS ATRUNĀTI SEKOJOŠAJĀS EC-DIREKTĪVĀS		
3) Piekarināmais laivas dzinējs, Virzošā spēka sistēma		
4) Atsaucoties uz saskaņotajiem standartiem 5) Iekārtas apraksts 6) Kategorija 7) Piekarināmais laivas motors		
8) Preču zīme 9) Tips 10) Sērijas numurs 11) Izgatavotājs 12) Autorizētais pārstāvis 13) Paraksts 14) Vārds, Uzvārds 15) Tituls		
16) Kvalitätes vadītājs 17) Datums 18) Vieta	latviešu (LATVIAN)	
I.EB ATITIKTIES DEKLARACIJA 2.ŽEMIAUI PASIRAŠES, (<u>14)</u> , ATSTOVAUJANTIS GAMINTOJĄ DEKLARUOJA		
KAD PRODUKTAS ATITINKA REIKALAVIMUS PAGAL ŠIAS EB DIREKTYVAS.		
3. PAKABINAMAS VARIKLIS, Varomasis būdas		
4. NUORODA [HARMONIZUOTUS STANDARTUS. 5. MAŠINOS APRAŠYMAS, 6. KATEGORIJA. 7. Pakabinamas variklis. 8. MARKĖ		
9. TIPAS 10. SERIJINIS NUMERIS. 11. GAMINTOJAS. 12. AUTORIZUOTAS ATSTOVAS. 13 PARAŠAS. 14. V. PAVARDĖ		
	lietuvių kalba (LITHUANIAN)	
T) ES-DEKLARACIJA O USTREZNOSTI 2)PODPISANI, (14), PREDSTAVNIK PROIZVAJALCA, IZJAVLJAM DA IZDELKI Ingensezi na nakon primu kana kana kana kana kana kana kana kan		
USTREZAJO NASLEDNJIM DEKLARACIJAM		
3) Izvenkrmni motorji, Pogonski sistem		
4) SKLADNOST Z NASLEDNJIMI STANDARDI 5) OPIS IZDELKOV		
6) KATEGORIJA 7) Izvenkrmni motorji 8) PROIZVAJA 9) TIP 10) SERIJSKA ŠTEVILKA 11) PROIZVAJALEC 12) POOBLAŠČEN		
PREDSTAVNIK 13) PODPIS 14) IME 15) FUNKCIJA 16) Direktor presoje 17) DATUM 18) KRAJ	slovenščina (SLOVENIAN)	15

"EC DECLARATION OF CONFORMITY" CONTENT OUTLINE

1) EB-YFIRLÝSING 2) UNDIRRITAÐUR HR <u>(14),</u> LÝSI YFIR FYRIR HÖND FRAMLEIÐANDA AÐ VARAN UPPFYLLIR	
EFTIRFARANDI EC-TILSKIPANIR 3) Utanborðsmótorar, knúningsafl kerfi 4) TILVÍSUN UM HEILDARSTAÐAL 5) LÝSING Á VÉLBÚNAÐ	I
6) FLOKKUR 7) Utanborðsmótorar 8) FRAMLEIÐSLA 9) GERÐ 10) SERÍAL NÚMER 11) FRAMLEIÐANDI 12) LÖGGILDIR AÐILAR	
13) UNDIRSKRIFT 14) NAFN 15) TITILL 16) Skráningarstjóri 17) DAGSETNING 18) STAÐUR	Íslenska (ICELANDIC)
1) AT UYGUNLUK BEYANI 2) AŞAĞIDA İMZASI BULUNAN VE İMALATÇININ YETKİLİ TEMSİLCİSİ OLAN <u>(14)</u> ,	
ÜRÜNÜN ŞU AT YÖNETMELİKLERİNİN HÜKÜMLERİNE UYGUN OLDUĞUNU BEYAN EDER. 3) Dıştan takma motor, tahrik sistemi	
4) UYUMLAŞTIRILMIŞ STANDARTLARA ATIF 5) MAKİNANIN TARIFİ 6) KATEGORİ 7) Dıştan takma motor 8) MARKA 9) TİP	
10) SERİ NUMARASI 11) İMALATÇI 12) YETKİLİ TEMSİLCİ 13) İMZA 14) ADI 15) ÜNVANI 16) Homologasyon Yöneticisi	
17) TARİH 18) YER	Türk (TURKISH)
I)EK-IZJAVA O SUKLADNOSTI 2)POTPISANI P.RENNEBOOG, PREDSTAVNIK PROIZVOĐAČA, IZJAVLJUJE DA JE PROIZVOD U	
SUKLADNOSTI S ODREDBAMA SLJEDEĆEG EK PROPISA 3)Vanbrodski motor, Pogonski sustav	
4)REFERENCA NA USKLAĐENE NORME 5)OPIS STROJA 6)KATEGORIJA 7)Vanbrodski motor 8)IZRADIO 9)TIP	
10)SERIJSKI BROJ 11)PROIZVOĐAČ 12)OVLAŠTENI PREDSTAVNIK 13)POTPIS 14)IME	
15)TITULA 16)Upravitelj homologacije 17)DATUM 18)MJESTO	hrvatski (CROATIAN)

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