

# INTRODUCTION

Dear Customer,

We thank you for having purchased our riding mower and hope that it will fully meet all your expectations.

This manual has been compiled in order that you may get to know your machine and to be able to use it safely and efficiently. Don't forget that the manual forms an integral part of the machine so keep it handy so that it can be consulted at any time, and pass it on to the purchaser if you resell the machine.

Your new machine has been designed and made in line with current regulations, and is safe and reliable if used for cutting and collecting grass observing the indications given in this manual (**proper usage**). Using the machine in any other way or ignoring the instructions for safe usage, maintenance or repair, is considered "**incorrect usage**" (Chap. 5) which will invalidate the guarantee, and the manufacturer will decline all responsibility, placing the blame with the user for damage or injury to himself or others in such cases.

If you should find any slight differences between the description and your own machine, bear in mind that, since there are continual improvements to the product, information contained in this manual may be modified without prior warning and without the obligation to update it, although the essential safety and function characteristics will remain unaltered. In case of any doubts, do not hesitate to contact your Dealer.

## After-Sales Service


This manual gives all the necessary instructions for using the machine and the basic maintenance that may be carried out by the user. For all information not contained here, contact your Dealer.



Note your machine serial number here

## HOW TO READ THE MANUAL

This manual describes both mechanically and hydrostatically driven machines, as well as versions including equipment and accessories that may not be available in your area.

The symbol  highlights all differences in usage and is followed by the indication of the type of drive or version to which it refers.

Some paragraphs in the manual contain information of particular importance and these are highlighted at various levels of emphasis, and signify the following:

**NOTE** or **IMPORTANT** *These give details or further information on what has already been said, and are aimed at preventing damage to the machine or causing damage.*

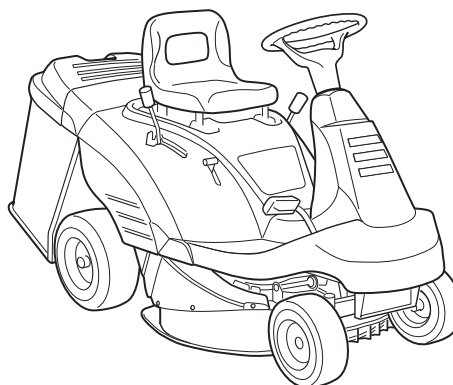
**WARNING!** *Non-observance will result in the risk of injury to oneself or others.*

**DANGER!** *Non-observance will result in the risk of serious injury or death to oneself or others.*

Honda France Manufacturing S.A.S.  
Pôle 45 - Rue des Châtaigniers - 45140 ORMES - FRANCE  
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**HONDA**  
POWER EQUIPMENT

# ORIGINAL INSTRUCTION OPERATOR'S MANUAL Lawn mower HF1211



CE

ENGLISH

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# 1. SAFETY

## GENERAL SAFETY REGULATIONS

 **WARNING!** Read carefully before using the machine.



### A) TRAINING





- 1) Read the instructions carefully. Be familiar with the controls and the proper use of the equipment. Learn how to stop the engine quickly.
- 2) Only use the machine for the purpose for which it was made, that is, the cutting and collection of grass. Any use not specifically indicated in the Operator's Manual can be dangerous and result in damage to the machine, and will also result in the annulling of the warranty and the manufacturer declining all responsibility.
- 3) Never allow children or people unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator.
- 4) Never use the machine:
  - when people, especially children, or pets are nearby.
  - if the operator has taken medicine or substances that can affect his ability to react and concentrate.
- 5) Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- 6) Do not carry passengers.
- 7) The operator of a machine must carefully follow the driving instructions, particularly:
  - the need for care and concentration when using machines;
  - that control of a machine sliding on a slope will not be regained by the application of the brake. The main reasons for loss of control are:
    - insufficient wheel grip;
    - being driven too fast;
    - inadequate braking;
    - the type of machine is unsuitable for its task;
    - lack of awareness of the effect of ground conditions, especially slopes;
- 8) The machine is equipped with a series of safety microswitches and devices which must never be removed, altered or tampered with. Removing these devices invalidates the warranty and the manufacturer declines any responsibility.

### B) PREPARATION


- 1) While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- 2) Thoroughly inspect the area where the equipment is to be used and remove all objects which may be thrown by the machine (stones, sticks, metal wire, bones, etc.)
- 3) **WARNING: DANGER!** - Engine fuel is highly flammable:
  - store fuel in containers specifically designed for this purpose;
  - refuel using a funnel and outdoors only. Do not smoke while refuelling or whenever handling the fuel;
  - add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot;
  - if fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until the fuel has evaporated and the fumes dispersed;
  - replace caps of all fuel tanks and containers securely.
- 4) Replace faulty silencers.
- 5) Before using, always carry out a visual inspection, particularly of the blade, seeing that the screws and cutter assembly are not worn or damaged. Replace a worn or damaged blade and screws as a set to preserve balance.
- 6) Before mowing, attach the discharge opening guards (grass-catcher or stone-guard).

### C) OPERATION

- 1) Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- 2) Mow only in daylight or good artificial light.
- 3) Avoid operating the equipment in wet grass, where feasible.
- 4) Before starting the engine, disengage the blade, shift the gear lever ( *mechanical drive models*) or the speed change lever ( *hydrostatic drive models*) into neutral and engage the parking brake.
- 5) Do not use on slopes of more than 10° (17%).
- 6) Remember there is no such thing as a "safe" slope. Travel on grass slopes

- requires particular care. To guard against overturning:
- do not stop or start or change direction suddenly when on slopes, and keep to a moderate speed;
  - engage clutch slowly, always keep the machine in gear ( *mechanical drive models*) or engage the speed change lever slowly both for forward and reverse movement ( *hydrostatic drive models*), especially when travelling downhill;
  - reduce speed before taking a slope and during tight turns;
  - stay alert for humps and hollows and other hidden hazards;
  - never mow across the face of the slope.
- 7) Stop the blade rotating and put the cutting deck into the highest position before crossing surfaces other than grass.
  - 8) Never use the machine to cut grass if the guards are defective, or without the stone-guard and/or grass-catcher in place.
  - 9) Do not change the engine governor settings or overspeed the engine.
  - 10) Before leaving the operator's position:
    - disengage the blade;
    - change into neutral ( *mechanical drive models*) or make sure that the speed change lever has returned to the neutral position ( *hydrostatic drive models*) and engage the parking brake;
    - stop the engine and remove the key.
  - 11) Disengage the blade, stop the engine and remove key:
    - before carrying out any work beneath the cutting deck or unclogging the collector channel;
    - before checking, cleaning or working on machine;
    - after striking a foreign object. Inspect the machine for damage and make repairs before restarting and operating the machine;
    - if the machine starts to vibrate abnormally (immediately check and remove the cause of the vibration).
  - 12) Disengage the blade when transporting or not in use. Disengage the blade and wait for it to stop before emptying the grass-catcher.
  - 13) Stop the engine and disengage the blade:
    - before refuelling;
    - every time the grass-catcher is removed or replaced.
  - 14) Reduce the throttle setting before stopping the engine and turn the fuel off at the conclusion of mowing, following the instructions in the manual.
  - 15) Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
  - 16) The usage of accessories different from those recommended by Honda may cause damage to the machine that is not covered by the warranty.

### D) MAINTENANCE AND STORAGE

- 1) Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition. Regular maintenance is essential for safety and for maintaining performance levels.
- 2) Never store the equipment with fuel in the tank inside a building where fumes may reach a flame or a spark or a source of extreme heat.
- 3) Allow the engine to cool before storing in an enclosed space.
- 4) To reduce the fire hazard, keep the engine, exhaust silencer, battery compartment and fuel storage area free of grass, leaves, or excessive grease. Always empty the grass-catcher and do not leave garden rubbish containers inside a room.
- 5) Frequently check the stone-guard, the grass-catcher and the air intake grill for wear and deterioration. Replace if damaged.
- 6) For reasons of safety, do not use equipment with worn or damaged parts. Parts are to be replaced and not repaired. Use genuine spare parts (the blade should always bear the symbol ). Parts which are not of an equivalent quality can damage the equipment and may adversely affect your safety.
- 7) If the fuel tank has to be drained, this should be done outdoors and when the engine is cool.
- 8) Wear strong work gloves when removing and reassembling the blade.
- 9) Check the blade's balance after sharpening.
- 10) When the machine is to be parked, stored or left unattended, lower the cutting deck.
- 11) The ignition key must never be left inserted in the machine, or where children or persons not familiar to the machine may reach it. Before any maintenance or repair, remove the ignition key.

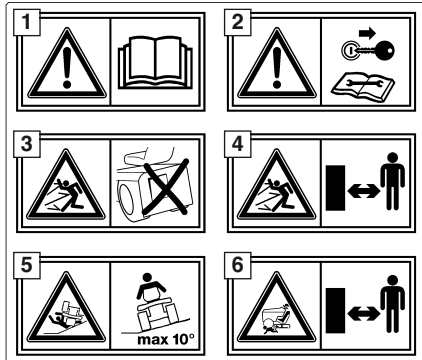
### E) TRANSPORTING

- 1) If the machine is transported on a truck or trailer, lower the cutting deck, engage the parking brake and fasten the machine securely with ropes, cables or chains to the hauling device.

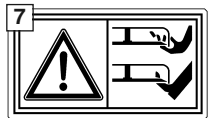
## SAFETY DECALS

Your machine must be used with care. Therefore, decals have been placed on the machine, to remind you pictorially of the main precautions to take during use. These decals are to be considered an integral part of the machine.

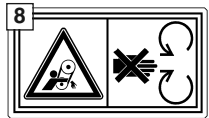
If a decal should fall off or become illegible, contact your retailer to replace it. Their meaning is explained below.



- 1 = **Warning:** Read Operator's Manual before operating this machine.
- 2 = **Warning:** Disconnect the ignition key and read the instructions before carrying out any repair or maintenance work.
- 3 = **Danger! Ejected objects:** Do not operate without either stone-guard or grass-catcher in place.
- 4 = **Danger! Ejected objects:** Keep bystanders away.
- 5 = **Danger! Machine rollover:** Do not use this machine on slopes greater than 10°.
- 6 = **Danger! Dismemberment:** Make sure that children stay clear of the machine all the time when engine is running.



- 7 = **Risk of being cut.** Blade in movement. Do not insert hands or feet inside the blade housing.



- 8 = **Avoid injury from getting caught in belt:** Do not operate the machine without shields in place. Stay clear of belts.



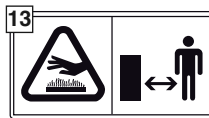
- 9 = **Warning!** Do not manipulate the microswitch



- 10 = **Warning:** Read the owner's manual before using the mower.

- 11 = **Warning:** The engine emits toxic carbon monoxide. Do not run in an enclosed area.

- 12 = **Warning!** Petrol is highly flammable. Stop the engine before refueling.



- 13 = **Warning:** The muffler becomes very hot during operation and remains hot for a while after stopping the engine.



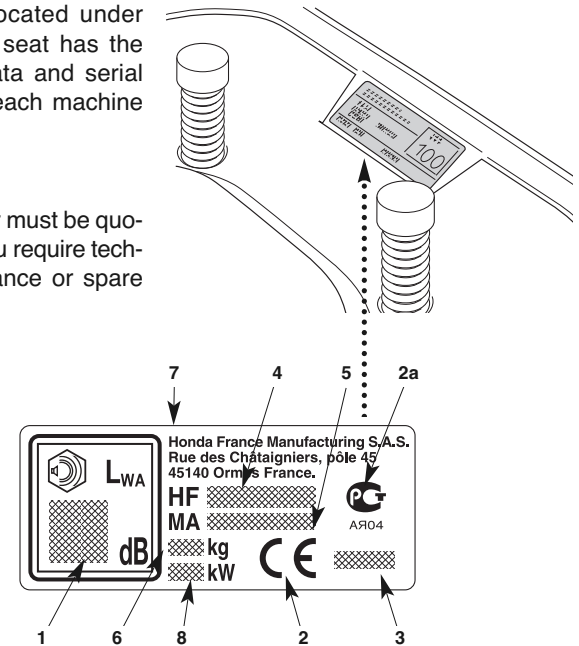
- 14 = **This is a recyclable product.** It contains lead. Do not discard it in the environment and dispose of in compliance with the laws in force.

## 2. IDENTIFICATION OF THE MACHINE AND PARTS

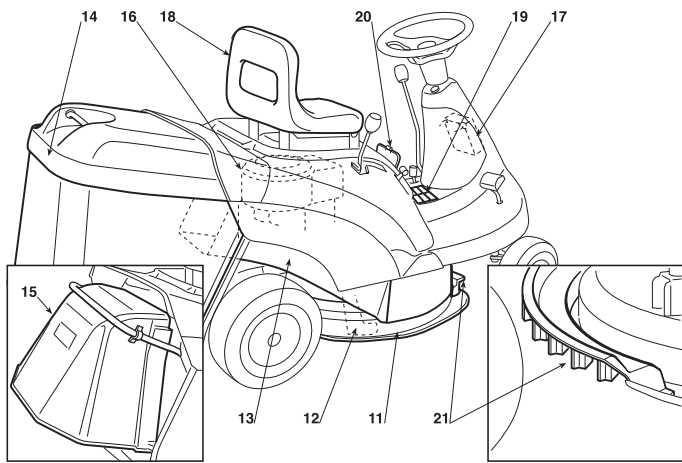
### IDENTIFICATION OF THE MACHINE

The plate located under the driver's seat has the essential data and serial number of each machine (5).

This number must be quoted when you require technical assistance or spare parts.



- 1. Acoustic power level according to directives 2000/14/EC, 2005/88/EC
- 2. Conformity mark according to directives 98/37/EC, 2006/42/EC, 2005/88/EC, 2004/108/EC
- 2a. Russian Conformity Mark
- 3. Year of manufacture
- 4. Type of machine
- 5. Serial number
- 6. Weight in kgs
- 7. Name and address of Manufacturer
- 8. Engine nominal power



### IDENTIFICATION OF MAIN COMPONENTS

Various main components can be seen on the machine, and these have the following functions:

11. **Cutting deck:** this is the guard enclosing the rotating blade.
12. **Blade:** this is what cuts the grass. The wings at the ends help convey the cut grass towards the collector channel.
13. **Collector channel:** this is the part connecting the cutting deck to the grass-catcher.
14. **Grass-catcher:** as well as collecting the grass cuttings, this is also a safety element in that it stops any objects drawn up by the blade from being thrown outside of the machine.
15. **Stone-guard or deflector:** this can be fitted in place of the grass-catcher and prevents objects drawn up by the blade from being thrown outside of the machine.
16. **Engine:** this moves the blade and drives the wheels. It is fully described in a specific booklet.
17. **Battery:** provides the energy for starting the engine. It is fully described in a specific booklet.
18. **Driver seat:** this is where the machine operator sits. It has a sensor for detecting the presence of the operator which is a safety device.
19. **Decals for regulations and safety:** give reminders on the main provisions for working safely, each of which is explained in chapter 1.
20. **Access hatch:** gives easy access to the spark plug and the fixing nut for the engine cover.
21. **Air intake grill:** helps air to flow inside the cutting deck and prevents objects from being thrown out at the front.

## 3. UNPACKING AND ASSEMBLY

For storage and transport reasons, some components of the machine are not directly installed in the factory, but have to be assembled after their removal from the packing. Final assembly is carried out by following these simple instructions.

**IMPORTANT** For transport reasons the machine is supplied without engine oil or fuel. Before starting up the engine, fill with oil and fuel following the instructions given in the engine booklet.

**WARNING!** Unpacking and completing the assembly should be done on a flat and stable surface, with enough space for machine handling and its packaging, always making use of suitable equipment.

### UNPACKING

When unpacking the machine, take care to gather all individual parts and fittings, and do not damage the cutting deck when taking the machine off the base pallet.

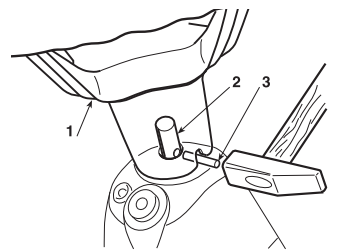
The standard packing contents:

- the machine;
- steering wheel;
- seat;
- grass-catcher components;
- an envelope containing the instruction manual, documents and the nuts and bolts with two starter keys, a pin for blocking the steering wheel and a spare 6.3 Ampere fuse.

Disposal of the packaging should be done in accordance with the local regulations in force.

### FITTING THE STEERING WHEEL

Put the machine on a flat surface and straighten up the front wheels. Fit the steering wheel (1) onto the protruding shaft (2) with the spokes directed towards the seat.



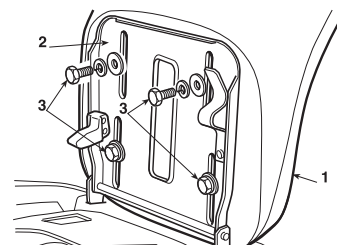
Line up the hole in the steering wheel hub with the hole in the shaft and insert the pin supplied (3).

Push the pin in using a hammer, ensuring that it comes completely through to the opposite side.

**NOTE** To avoid damaging the steering wheel with the hammer, use an awl of the same size as the pin to push it in the last part.

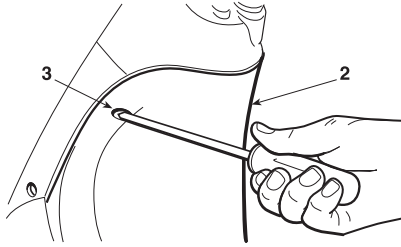
### FITTING THE SEAT

Fit the seat (1) onto the plate (2) using the screws (3).

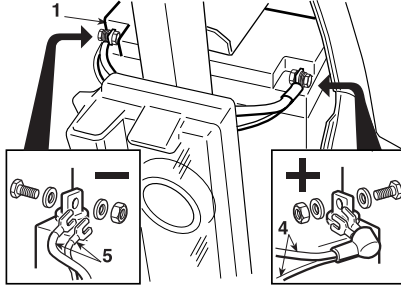


## CONNECTING THE BATTERY

The battery (1) is situated in a compartment under the steering wheel and is reached by removing the plastic cover (2) held on by two screws (3).



Connect the two red cables (4) to the positive terminal (+) and the two black cables (5) to the negative terminal (-) using the supplied screws and following the illustrated sequence.

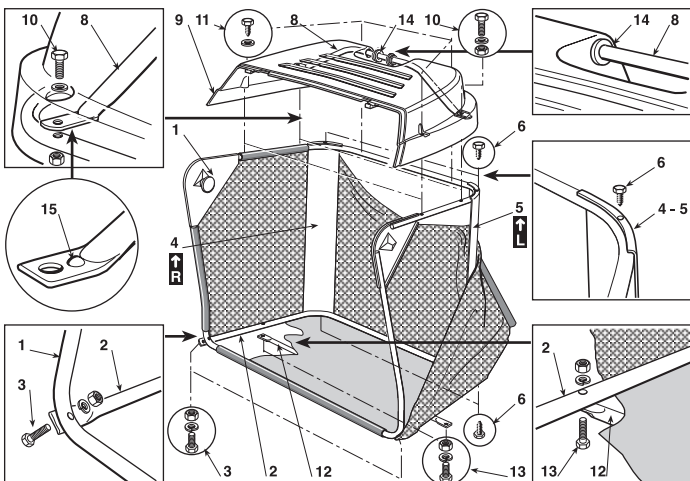


Recharge the battery according to the manufacturer's instructions.

**IMPORTANT** To prevent the safety device in the electronics card from cutting in, never start the engine until the battery is fully charged!

**WARNING!** Follow the battery manufacturer's instructions regarding safe handling and disposal.

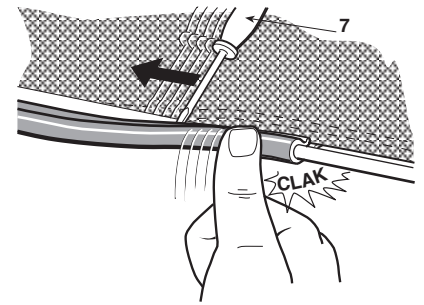
## FITTING THE GRASS-CATCHER



First of all assemble the frame, joining the upper part (1), including the opening, to the lower part (2), using the supplied nuts and screws (3) and following the indicated sequence.

Position the angle supports (4) and (5), respecting the right (R ↑) and left (L ↑) sides, and attach them to the frame using the four self-tapping screws (6).

Insert this frame into the canvas cover, ensuring that it is correctly positioned along the base perimeter.

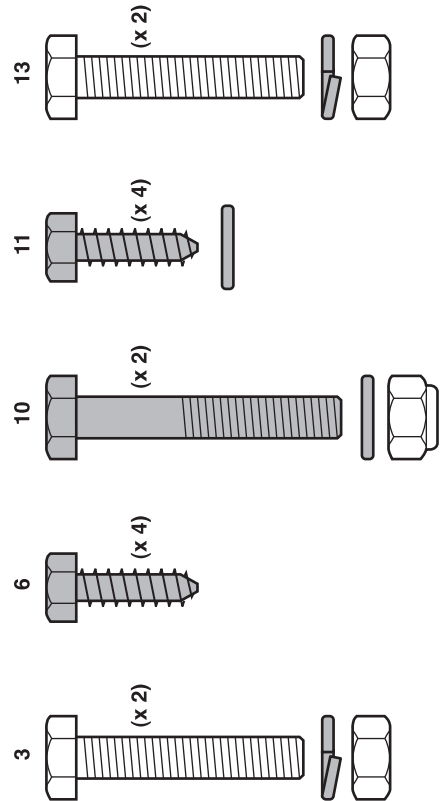


Hook all the plastic profiles to the frame tubes with the help of a screwdriver (7).

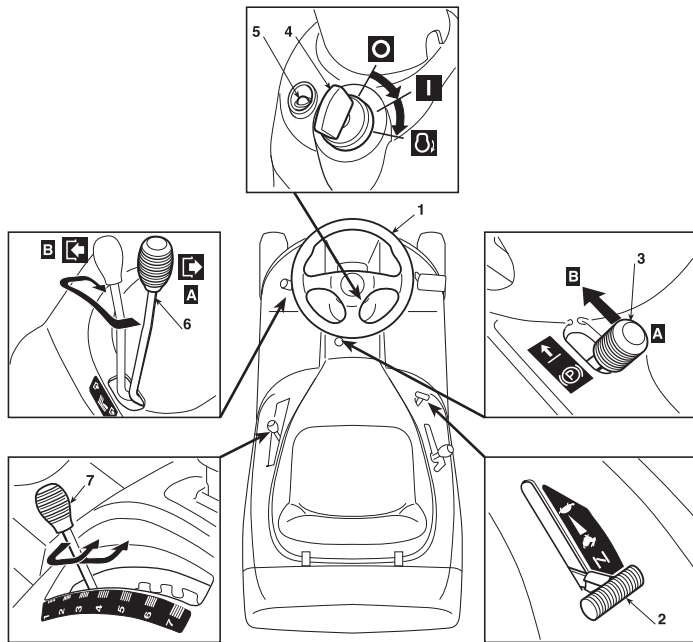
Insert the handle (8) with the grommets (14) into the holes of the canvas (9) making sure that the end with the lump (15) is on the right. Attach this to the frame using the screws (10), following the indicated sequence, and complete the assembly screwing the four front and rear self-threading screws (11).

Position the grommets (14) in their respective holes in the canvas (9).

Lastly, fit the stiffening bar (12) on the outside of the frame base, keeping the flat part towards the canvas and using the nuts and screws supplied (13) in the sequence indicated.



## 4. COMMANDS AND CONTROL INSTRUMENTS






### 1. STEERING WHEEL

Turns the front wheels.

### 2. ACCELERATOR LEVER

Regulates the engine's r.p.m. The positions are indicated on a plate showing the following symbols:

-  Position «CHOKE» for starting up
-  Position «SLOW» for minimum engine speed
-  Position «FAST» for maximum engine speed

When moving from one area to another, put the lever in a position between «SLOW» and «FAST». When cutting, go to the «FAST» position.

### 3. PARKING BRAKE LEVER




This lever is to stop the machine from moving when it has been parked, and must always be engaged before leaving the machine.

The brake is engaged by fully pressing the pedal (11 - 21) and moving the lever to position «A». When you take your foot off the pedal it will be blocked by the lever in the down position.

To disengage the parking brake, press the pedal again so that the lever returns to position «B».

## 4. KEY IGNITION SWITCH

This key operated control has three positions:

-  «OFF» means everything is switched off
-  «ON» activates all parts
-  «START» engages the starter motor. On being released, the key will automatically return to «ON» from this position.

## 5. PILOT LAMP AND SIGNAL



This light comes on when the key (4) is in the «ON» position and remains constantly lit while the machine is operating.

When it starts flashing this means that the engine is being prevented from starting (see 5.3).

The audible warning indicates that the grass-catcher is full (see 5.3).

## 6. BLADE ENGAGEMENT AND BRAKE LEVER

This lever has two positions, as shown on the label:

-  Position «A» = BLADE DISENGAGED
-  Position «B» = BLADE ENGAGED

If the blade is engaged when safety conditions have not been complied with, the engine shuts down (see 5.3).

On disengaging the blade (Pos. «A»), a brake is simultaneously activated which stops it rotating in five seconds.

## 7. CUTTING HEIGHT ADJUSTING LEVER

There are seven positions for this lever, shown as «1» to «7» on the label, which correspond to various heights of between 3 and 8 cm.

To go from one height to another, move the lever sideways and put into one of the seven notches.

### For mechanical drive models:

#### 11. Clutch / brake pedal

- This pedal has a double function - during the first part of its travel it acts as a clutch, engaging and disengaging drive to the wheels, and in the second part it acts as a brake on the rear wheels.

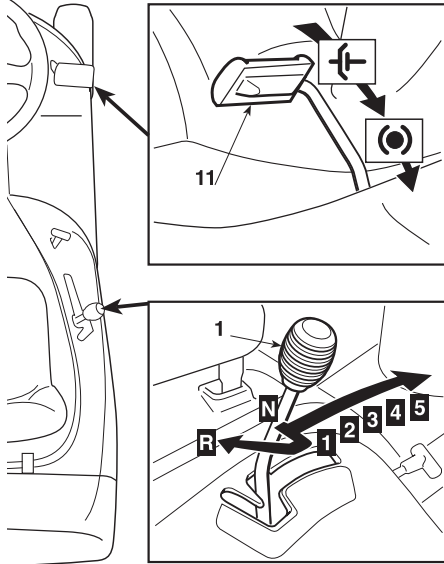
**NOTE** When the machine is in movement, keep your foot off the pedal.

## 12. Speed change lever

This lever has seven positions for the 5 forward speeds, the neutral position «N», and reverse «R». To go from one speed to another, press the pedal (11) about half way and move the lever as per the indications on the label.

### ⚠ WARNING!

**Reverse must only be engaged when the machine is stopped.**



## 23. Lever to release the hydrostatic drive

- Position «A» = Drive engaged: for all operating conditions, when moving and during cutting;
- Position «B» = Drive released: considerably reduces the effort required for moving the machine manually, **when the engine is not running.**

### IMPORTANT

*When the parking brake (3) is engaged the speed change lever is locked in the «N» position and cannot be moved until the parking brake and the pedal have been released.*

## ► For hydrostatic drive models:

## 21. Brake pedal

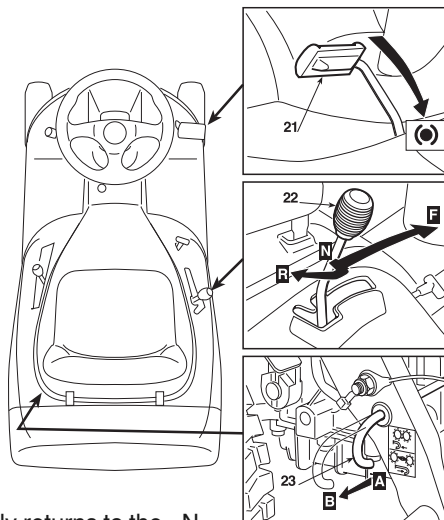
In hydrostatically driven models this pedal is solely for braking and works on the rear wheels.

## 22. Speed change lever

This lever engages drive to the wheels and changes the machine's forward and reverse speed. The machine's forward speed gradually increases by moving the lever towards «F». Reverse is engaged by moving the lever to «R».

When the brake pedal (21) is pressed the lever automatically returns to the «N» (neutral) position.

It can also be moved there manually even without pressing the brake.



### IMPORTANT

*When the parking brake (3) is engaged the speed change lever is locked in the «N» position and cannot be moved until the parking brake and the pedal have been released.*

## 5. HOW TO USE

### SAFETY RECOMMENDATIONS

**⚠ DANGER!** The machine must only be used for the purpose for which it was designed (cutting and collection of grass).

Using the machine in any other way is considered "improper use" which will invalidate the warranty, relieve the manufacturer from all liabilities, and the user will consequently be liable for all and any damage or injury to himself or others.

Examples of improper use may include, but are not limited to:

- transport people, children or animals on the machine or on a trailer;
- tow or push loads;
- use of the machine for moving over unstable, slippery, icy, stony, rough, marshy ground and puddles that do not allow for evaluation of the consistency of the ground;
- use of the machine for leaf or debris collection;
- use of the blades on surfaces other than grass.

**⚠ DANGER!** Do not tamper with or remove the safety devices fitted to the machine. REMEMBER THAT THE USER IS ALWAYS RESPONSIBLE FOR DAMAGE AND INJURIES TO OTHERS.

Before using the machine:

- read the general safety regulations (Chap. 1), paying particular attention to driving and cutting on slopes;
- carefully read the instructions for use, become familiar with the controls and on how to quickly stop the blades and engine.
- never put your hands or feet next to or beneath the rotating parts and always keep away from the discharge opening.

Do not use the machine when in a precarious state of health or under the effect of medicines or other substances that can reduce your reflex actions and your ability to concentrate. It is the user's responsibility to assess the potential risk of the area where work is to be carried out, as well as to take all the necessary steps to ensure his own safety and that of others, particularly on slopes or rough, slippery and unstable ground. Do not leave the machine stopped in high grass with the engine running in order to avoid the risk of starting a fire.

**⚠ WARNING!** This machine must not be used on slopes greater than 10° (17%).

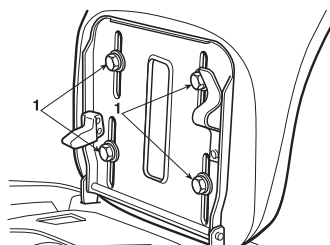
**IMPORTANT** All the references relating to the positions of controls are those described in chapter 4.

### 5.1 DIRECTIONS BEFORE STARTING

#### SEAT ADJUSTMENT

The seat is held by four screws (1) which have to be loosened for changing the position of the seat which is done by sliding it along the slots in the base.

When you have got in a comfortable position, fully tighten the four screws.

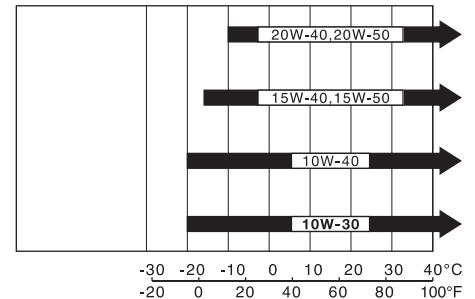


### OIL LEVEL AND REFUELLING

**IMPORTANT** Engine oil is a major factor affecting engine performance and service life. Non-detergent oils and vegetable oils are not recommended. Be sure to check the engine on a level surface with the engine stopped.

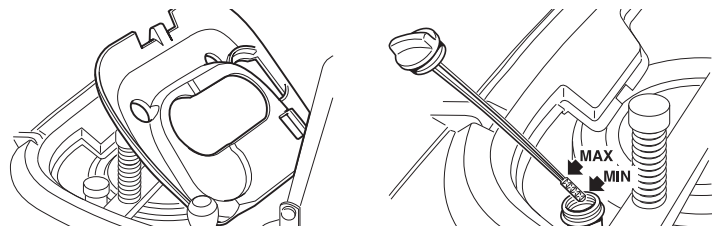
Use Honda 4-stroke, or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for service classification SG, SF. Motor oils classified SG, SF will show this designation on the container.

SAE 10W-30 is recommended for general, all temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area.



To reach the oil level dipstick, lift up the seat and open the hatchway beneath.

With engine stopped, check its oil level which must be between the MIN and MAX marks on the dipstick when not screwed in. Do not forget to screw down the dipstick when replacing it.



#### IMPORTANT

- Never use a gas-oil mixture.
- Only use unleaded petrol 95 or 98.
- Do not let dirt, clippings, etc. get into the tank.
- Do not use dirty or contaminated fuel (water, dust, ...), or fuel which is too old. The quality of unleaded petrol deteriorates with time. Do not keep fuel for more than one month.



Refuel using a funnel, but be sure to not exceed the max level shown in the figure.

The tank's capacity is about 3.6 litres.

**⚠ DANGER!** Refuelling should be carried out in an open or well ventilated area with engine stopped. Always remember that petrol fumes are inflammable. DO NOT TAKE FLAMES TO THE TANK MOUTH TO VERIFY ITS CONTENTS AND DO NOT SMOKE WHEN REFUELLING.

**IMPORTANT** Do not drip petrol onto the plastic parts to avoid ruining them. In the event of accidental leaks, rinse immediately with water.



## Fuel containing alcohol

**IMPORTANT** If you intend to use fuel with alcohol, ensure that its octane number is at least as high as that recommended by Honda (86). There are two types of fuel/alcohol mixtures: one contains ethanol and the other methanol.

Do not use mixtures containing more than 10% ethanol, or fuel containing methanol (methyl or wood alcohol), which do not contain cosolvents, or corrosion inhibitors for methanol.

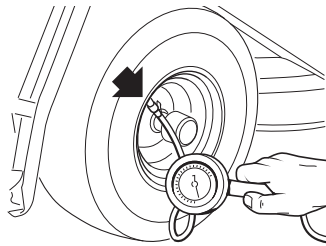
In the case of a mixture containing methanol with addition of cosolvents and corrosion inhibitors, limit the proportion to 5% of methanol.

The guarantee does not cover damage caused to the fuel system or engine performance problems resulting from the use of fuel containing alcohol. Honda does not give its approval to the use of fuels containing methyl alcohol since their suitability is not yet proven.

## TYRE PRESSURE

Having the correct tyre pressure is essential for keeping the cutting deck horizontal and thus achieving uniform mowing.

Unscrew the valve protection cap and connect the valves to a compressed air line with a gauge.



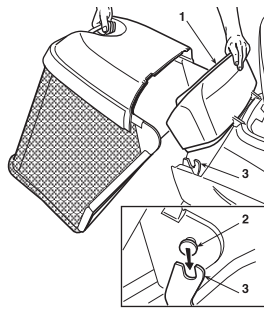
Pressures are:

FRONT	1.5 bar
REAR	1.0 bar

## FITTING THE PROTECTION AT THE EXIT (GRASS-CATCHER OR STONE-GUARD)

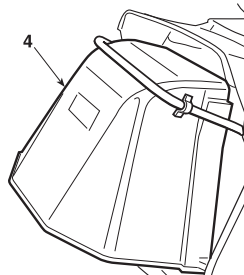
**WARNING!** Never use the machine without having fitted the exit protection!

**WARNING!** There is a micro-switch which stops the engine or prevents starting when the blade is engaged if either the grass-catcher or stone-guard is not in position. IT IS VERY DANGEROUS TO TAMPER WITH OR LIMIT THE EFFECTIVENESS OF THIS DEVICE!



Lift the removable cover (1) and hook on the grass-catcher by inserting the two pivots (2) into the slots on the two supports (3).

If you want to work without using the grass-catcher, a stone-guard kit (4) is available on request which is fitted as shown in the figure.



## CHECKING THE SAFETY SYSTEMS

Every time before using, check that the safety systems are working properly. To do so, simulate the various situations of usage shown in the table on page 11, making sure that the correct result is achieved for each situation.

## CHECKING THE BRAKING SYSTEM

Make sure that the machine's braking capacity is adequate for the conditions of usage. Avoid starting the machine if you have doubts on the brake efficiency. If necessary, adjust the brake and if you still have doubts on its efficiency, consult your dealer.

## BLADE CHECK

Check that the blade is sharpened properly and firmly fixed to the hub. A badly sharpened blade pulls at the grass and causes the lawn to turn yellow.

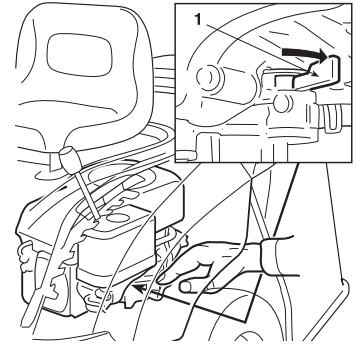
## 5.2 STARTING AND MOVING

### STARTING

**WARNING!** All starting operations have to be effected in an open or well ventilated area! ALWAYS REMEMBER THAT EXHAUST GASES ARE TOXIC!

Before starting the engine:

- open the fuel stop-cock (1), which is reached through the around the right back wheel;
- put the gear lever (▶ for mechanical drive models) or the speed change lever pedal (▶ for hydrostatic drive models) into neutral («N»);
- on slopes, engage the parking brake;
- put the blade engagement lever into the disengage position («A»).



Afterwards:

- put the accelerator lever to «CHOKE», as shown on the label, if the engine is cold. If the engine is already warm, put the lever between «SLOW» and «FAST»;
- put in the key and turn to «ON» to make electrical contact, then turn to «START» to start the engine. Release once the engine has started.

When the engine is running, put the accelerator into the «SLOW» position.

**NOTE** Should you have difficulties in starting do not continue to use the starter motor for a long time as this can run down the battery or flood the engine. Turn the key to the «OFF» position, wait for a few seconds and then repeat the operation. If the malfunction continues, refer to chapter «8» of this manual.

**IMPORTANT** Always bear in mind that the safety devices prevent the engine from starting when:

- the blade is engaged;
  - the transmission is not in neutral («N»).
  - the operator is absent with the parking brake disengaged.
- While trying to start the engine in one of the above situations, the pilot lamp will start blinking.

### MOVING WITHOUT MOWING

**WARNING!** The machine has not been approved for use on public roads. It has to be used (as indicated by the highway code) in private areas closed to traffic.

**NOTE**

When moving the machine, the blade must be disengaged and the cutting deck put at its highest position (position «7»).

► **For mechanical drive models:**

- Put the accelerator control between the «SLOW» and «FAST» positions, and the gear change lever in the 1st speed position.
- Keep the pedal pressed down and disengage the parking brake.
- Slowly release the pedal which will turn from «brake» to «clutch», thus operating the rear wheels.
- The pedal has to be released gradually as a sudden engagement may cause tipping up and loss of control of the vehicle.
- The pedal must be moved in a progressive manner without hesitation in order to prevent the belt slipping too much and thus overheating.
- Gradually reach the desired operating speed using the accelerator and gear lever. To change the gear speed the clutch must be used pushing the pedal down half way.

► **For hydrostatic drive models:**

- Put the accelerator control between the «SLOW» and «FAST» positions. Press the brake pedal to disengage the parking brake and release the pedal.
- Move the speed change lever in the «F» direction and go to the required speed by using the lever and the accelerator.
- The lever must be moved gradually as a sudden engagement of drive to the wheels may cause tipping and loss of control of the machine.

**BRAKING**

► **For mechanical drive models:**

- To brake, first reduce the speed on the accelerator to avoid overloading the brake assembly and then push the pedal down fully.

► **For hydrostatic drive models:**

- To brake, press the brake pedal which will simultaneously make the speed change lever return to the «N» position.

**REVERSE**

► **For mechanical drive models:**

- The machine **MUST** be stopped before reverse can be engaged.
- Push down the pedal until the machine stops and then insert reverse by moving the lever sideways and putting it into position «R». Gradually release the pedal to engage the clutch and then begin moving in reverse.

► **For hydrostatic drive models:**

- The machine **MUST** be stopped before reverse can be engaged.
- When the machine is stopped, start the reverse movement by putting the speed change lever in the «R» direction.

**5.3 GRASS CUTTING****ENGAGING THE BLADE AND FORWARD MOVEMENT**

When you have reached the area to be mowed,

- put the accelerator into the «FAST» position;
- engage the blade by putting the lever into position «B»;
- to begin moving, operate the speed regulation controls taking care to release the pedal with caution as already described.

Engage the blade with the cutting deck in the highest position, and then gradually lower to the height required. To achieve good collection and even cutting of the grass, choose a forward speed to suit the quantity of grass to be cut (height and density) and the lawn's humidity, in line with the following indications (► *for mechanical drive models*):

- |                                   |  |
|-----------------------------------|--|
| – High and dense grass - wet lawn | <b>1<sup>st</sup> speed</b>                  |
| – Average condition grass         | <b>2<sup>nd</sup> - 3<sup>rd</sup> speed</b> |
| – Low grass - dry lawn            | <b>4<sup>th</sup> speed</b>                  |

**NOTE**

The fifth gear is solely for moving from one area to another on horizontal surfaces

► **For hydrostatic drive models**

- The speed has to be adapted to the condition of the grass in a gradual and progressive way by moving the speed change lever.

A lower speed should always be selected if you note a reduction in engine speed, since a forward speed that is too fast will not cut the grass well.

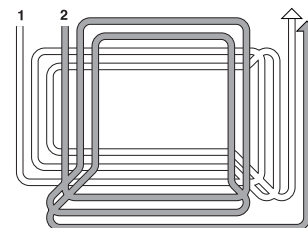
Disengage the blade and put the cutting deck in the highest position whenever you need to get past an obstacle.

**CUTTING HEIGHT ADJUSTMENT**

The height is adjusted by moving the lever with 7 height positions.

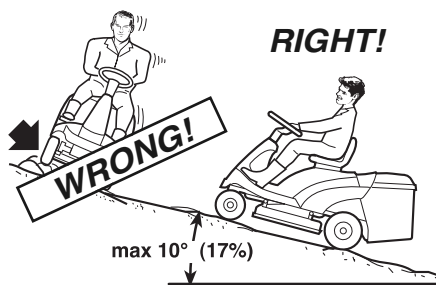
**HOW TO OBTAIN A GOOD CUT**

1. The lawn's appearance will be best if you cut in alternate directions, always at the same height.
2. If the collector system blocks up you should reduce the forward speed as it could be too high for the lawn conditions. If this does not solve the problem, it is probably due to unsharpened cutting edges or the wings on the blade having become deformed (see chapter 8).
3. If the grass is very tall it should be mowed twice - once at the maximum cutting height, and perhaps reducing the cutting width, followed by a second cut at the required height.
4. Be very careful when mowing near bushes or kerbs which could alter the horizontal position of the cutting deck or damage its edge or the blade.



## SLOPES

Complying with the slope limits already mentioned, lawns on a slope have to be mowed moving up and down and never across them, taking great care when changing direction that the first wheels do not hit obstacles (such as stones, branches, roots, etc.), that may cause the machine to slide sideways, roll over or otherwise cause loss of control.



**⚠ DANGER!** **REDUCE SPEED BEFORE ANY CHANGE OF DIRECTION ON SLOPES and always engage the parking brake before leaving the machine stopped and unattended.**

**⚠ WARNING!** **Take care when beginning forward movement on sloping ground to prevent the risk of tipping up. Reduce the forward speed before going on a slope, particularly downhill.**

▶ **For mechanical drive models:**

**⚠ DANGER!** **Never ride the machine on slopes in neutral gear or with the clutch out! Always engage a low gear before leaving the machine stopped and unattended.**

▶ **For hydrostatic drive models:**

• Move on slopes with the speed change lever in the lowest forward speed to take advantage of the hydrostatic unit's braking effect.

**⚠ DANGER!** **Never use reverse for reducing speed going downhill. Control of the machine could be lost, particularly on slippery surfaces.**

## EMPTYING THE GRASS-CATCHER

**NOTE** *This operation can only be done with the blade disengaged, otherwise the engine stops.*

When the grass-catcher is full an audible warning is given. STOP FORWARD MOVEMENT, in order not to block the collector channel, and disengage the blade which will stop the audible signal. Empty the grass-catcher by lifting it using the handle.



**NOTE** *At times the audible warning may be heard on engaging the blade even when the grass-catcher has been emptied. This is due to grass cuttings left on the sensor of the micro-switch. To stop the signal, either remove the remaining grass or disengage the blade and then immediately engage it again.*

## EMPTYING THE COLLECTOR CHANNEL

Cutting very tall or wet grass, particularly at too high a speed, can cause the collector channel to become blocked. Should this happen, it will be necessary to:

- stop forward movement, disengage the blade and stop the engine;
- take off the grass-catcher or stone-guard;
- remove the accumulated cuttings going in through the exit of the collector channel.

**⚠ WARNING!** **This must only be done when the engine is stopped.**

## SUMMARY OF THE MAIN CONDITIONS WHEREBY THE SAFETY DEVICES PERMIT OR STOP WORK

The safety devices work in two ways:

- by preventing the engine from starting if all the safety requirements have not been met;
- stopping the engine if even just one of the safety requirements is lacking.

To start the engine it will be necessary that:

- the transmission is in “neutral”;
- the blade is not engaged;
- the operator is seated or the parking brake is engaged.

The engine stops when:

- the operator leaves his seat when the blades are engaged;
- the operator leaves his seat when the transmission is not in “neutral”;
- the operator leaves his seat with the transmission in “neutral” but without engaging the parking brake;
- the grass-catcher is lifted or the stone-guard is removed when the blades are engaged

The table below shows various operating conditions, **highlighting** why the safety device shuts down the engine.

OPERATOR	GR.-CATCHER	BLADES	TRANSMISSION	BRAKE	ENGINE
<b>A) WHEN STARTING</b> (Key in «START» position)					
Sitting	–/–	Disengaged	<b>1... 5 F/R</b>	Engaged	Does NOT start
Sitting	–/–	<b>Engaged</b>	«N»	Engaged	Does NOT start
<b>Absent</b>	–/–	Disengaged	«N»	<b>Disengaged</b>	Does NOT start
<b>B) WHEN CUTTING</b> (Key in «ON» position)					
Sitting	<b>NO</b>	<b>Engaged</b>	–/–	Disengaged	Stops
<b>Absent</b>	YES	Disengaged	«N»	<b>Disengaged</b>	Stops
<b>Absent</b>	YES	<b>Engaged</b>	–/–	Engaged	Stops

## CARD PROTECTION DEVICE

The electronic card has a self-resetting protector which breaks the circuit if there is a fault in the electrical system. It results in the stopping of the engine and is signalled by the pilot lamp turning off.

The circuit automatically resets after a few seconds but the cause of the fault should be ascertained and dealt with to avoid re-activating the protection device.

**IMPORTANT** *To avoid activating the protection device:*

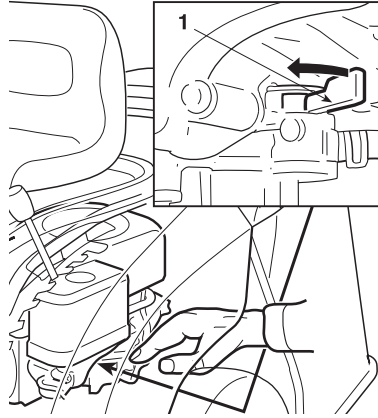
- do not reverse the cables on the battery terminals;
- do not use the machine without its battery or damage may be caused to the charging regulator;
- be careful to not cause short-circuits.

## END OF MOWING

When you have finished mowing, disengage the blade and ride the machine with the cutting deck in the highest position.

Stop the machine, engage the parking brake and turn off the engine by turning the ignition key to «OFF».

When the engine is stopped, close the fuel cock (1).



**WARNING!** Always take out the ignition key if leaving the machine unattended!

**IMPORTANT** To keep the battery charged, do not leave the key in the «ON» position when the engine is not running.

## 5.4 CLEANING AND STORAGE

### CLEANING

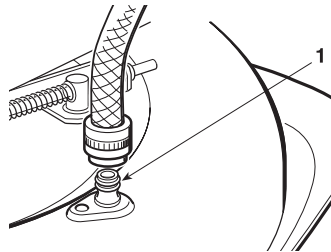
After each mowing, clean the outside of the machine, empty the grass-catcher and shake it to remove residual grass and earth. Clean the plastic parts of the body with a damp sponge using water and detergent, taking care not to wet the engine, the electrical parts or the electronic card located under the dashboard.

**IMPORTANT** Never use hose-nozzles or harsh detergents for cleaning the body and engine!

### WASHING THE INSIDE OF THE CUTTING DECK

The machine has to be put on firm ground with the stone-guard or grass-catcher in position. Washing the inside of the cutting deck and the collector channel is done by attaching a water hose to the connector (1) and running water through for a few minutes, with:

- the operator seated;
- the engine running;
- the drive in neutral;
- the parking brake on;
- the blade engaged.



When washing, the cutting deck should be in the fully lowered position. Take off the grass-catcher, empty and rinse it, and then put it in a position to assist quick drying.

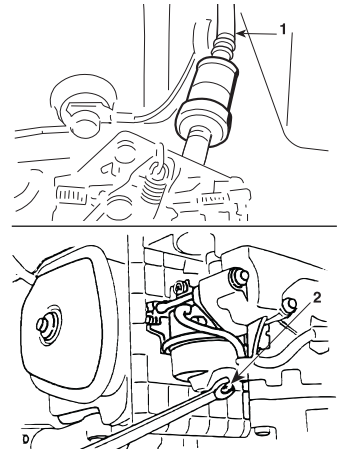
### STORAGE AND INACTIVITY FOR LONG PERIODS

If the machine is likely to be unused for a long period (more than 1 month). Lubricate all joints as directed in chapter 6.

**WARNING!** Carefully remove any dry grass cuttings which may have been accumulated around the engine or silencer to prevent them from catching fire the next time the machine is used!

Before storing the unit for an extended period:

1. Be sure the storage area is free of excessive humidity and dust.
2. Drain the fuel tank and carburetor into a suitable gasoline container.
  - Remove the fuel tube (1) and drain the fuel tank.
  - Loosen the carburetor drain screw (2) to drain the carburetor.
  - Retighten the drain screw (2), connect the fuel tube (1) and turn the fuel valve OFF.



3. Change the engine oil.
4. Remove the spark plug and pour about a tablespoon of clean engine oil into the cylinder.

**DANGER!** Engine fuel is highly flammable. Store fuel in containers specifically designed for this purpose. Replace caps of all fuel tanks and containers securely.

**IMPORTANT** The battery must be kept in a cool and dry place. Before a long storage period (more than 1 month), always charge the battery. Recharge the battery before the next usage (chapter 6).

The next time the machine is used, check that there are no fuel leaks from the tubes, fuel cock or carburetor.

## 6. MAINTENANCE

**⚠ WARNING!** Before cleaning, maintenance or repair work, take out the ignition key and read the relevant instructions. Wear suitable clothing and strong gloves.

**IMPORTANT** Never get rid of used oil, fuel or other pollutants in unauthorised places!

### ACCESS TO MECHANICAL PARTS

Lift the engine cover (1) to access the engine and mechanical parts below it.

To do so:

- put the machine on level ground, bring the cutting deck into the highest position and put blocks (2) of around 65 - 70 mm beneath the edge to hold up the deck during the following stages.

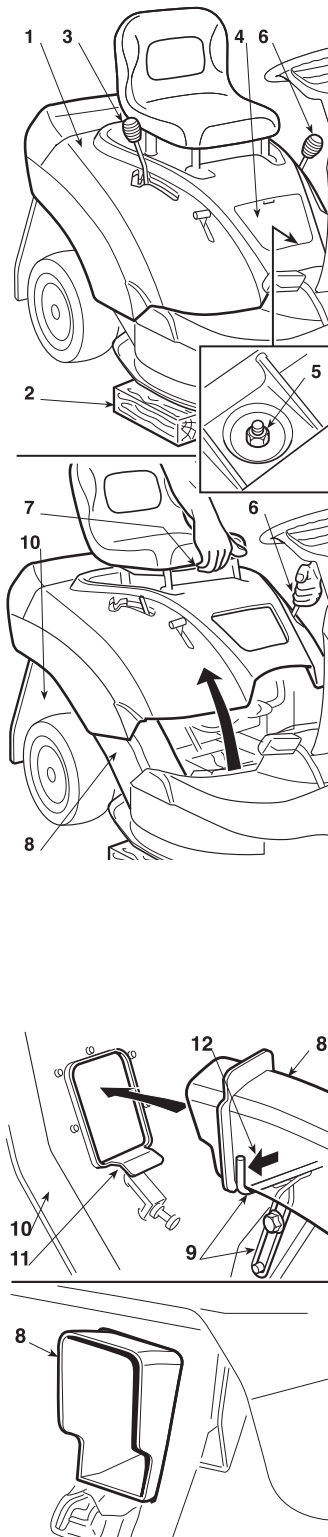
**▶ For mechanical drive models:**

- engage the parking brake;

**▶ For hydrostatic drive models:**

- put the drive release lever into the «ENGAGED» position (see chap. 4, n° 23), since it is necessary for the parking brake to be disengaged to ensure that the speed change lever has enough movement;

- remove the grass-catcher or stone-guard;
- unscrew the knob on the lever (3) and put the lever into neutral «N» (▶ *mechanical drive models*), or in «R» (▶ *hydrostatic drive models*);
- open the access hatch (4) and unscrew the nut (5) with a 13 mm spanner;
- release the lever (6) so that the deck rests on the blocks and keep the lever moved sideways so that it is not in any of the notches. Hold the base of the seat (7) and tip the cover back.



On closing:

- check that the collector channel (8) is properly fitted onto its support (9) and resting on the guide as shown by the arrow (12);
- put the lever (3) into the «R» position and lower the cover (1) to the height of the levers (3) and (6);
- first put the lever (6) into its housing followed by lever (3). Lower the cover in line with the fastening screw (5).

**⚠ WARNING!** When the cover (1) has been lowered check that the channel exit (8) is correctly lined up with the opening in the rear plate (10) and that it is resting on the support (11). The support (9) must never be removed or tampered with. What above mentioned is very important. If grass cuttings get into the engine area, its performance can be seriously impaired.

Then:

- fully tighten the fixing nut (5);
- put the lever (6) into the notch at position «7»;
- take the blocks (2) away, and reassemble the knob on the lever (3) and the access hatch (4).

### ENGINE

The purpose of the maintenance schedule and adjustment is to keep the engine in the best operating condition. Inspect or service as scheduled in the table below.

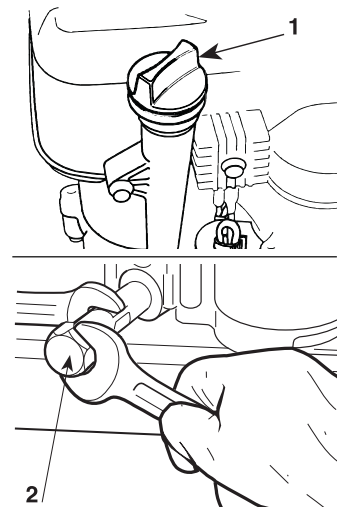
**⚠ WARNING!** Shut off the engine before performing any maintenance. If the engine must be run, make sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas; exposure can cause loss of consciousness and may lead to death.

**IMPORTANT** Use only genuine Honda parts or their equivalent. The use of replacement parts which are not of equivalent quality may damage the engine.

### OIL CHANGE

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

1. Remove the oil filler cap (1) and drain plug (2) to drain the oil. When refitting the plug (2), carefully re-position the seal.
2. Refill with the recommended oil (see page 18) and check the oil level.



ENGINE OIL CAPACITY: 1.1 liters

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

**NOTE** Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash, pour it on the ground, or down a drain.

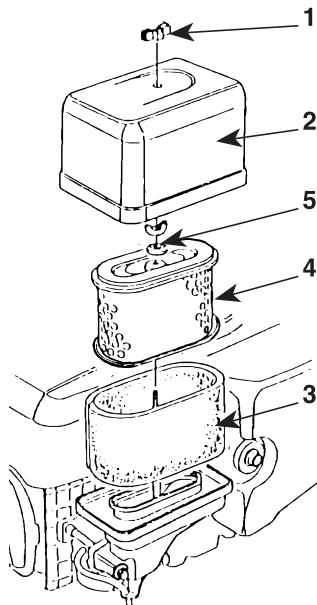
## AIR CLEANER SERVICE

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the engine in extremely dusty areas.

**⚠ WARNING!** *Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.*

**IMPORTANT** *Never run the engine without the air cleaner. Rapid engine wear will result.*

1. Remove the wing nut (1) and the air cleaner cover (2). Remove the elements and separate them. Carefully check both elements for holes or tears and replace if damaged.



2. Foam element (3): Clean in warm soapy water, rinse and allow to dry thoroughly. Or clean in high flash-point solvent and allow to dry. Dip the element in clean engine oil and squeeze out all the excess. The engine will smoke during initial start-up if too much oil is felt in the foam.

3. Paper element (4): Tap the element lightly several times on a hard surface to remove excess dirt, or blow compressed air through the filter from the inside out. Never try to brush the dirt off; brushing will force dirt into the fibers. Replace the paper element if it is excessively dirty. Clean in warm, soapy water and rinse. Dry using compressed air blown from the inside out, or shake the element and allow it to air dry thoroughly. (Or clean in high flash point solvent, remove immediately, and allow to dry.)

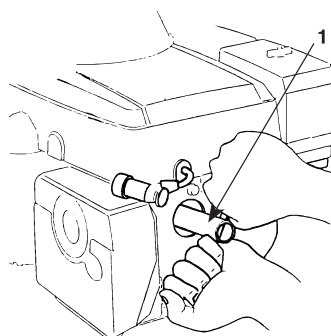
**NOTE** *Remember to reinstall the air cleaner grommet (5), replace the grommet if necessary.*

## SPARK PLUG SERVICE

RECOMMENDED SPARK PLUG: BPR5ES (NGK)

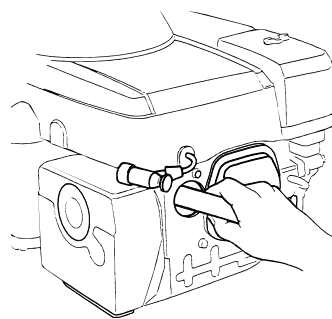
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Remove the spark plug cap and use the proper size spark plug wrench (1) to remove the spark plug.

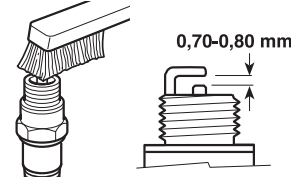


**⚠ WARNING!** *If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.*

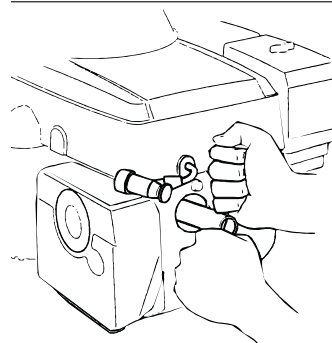
2. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.



3. Measure the plug gap with a feeler gauge. Correct as necessary by bending the side electrode. The gap should be: 0.70 - 0.80 mm.



4. Check that the spark plug washer is in good condition and thread the spark plug in by hand to prevent cross-threading.



5. When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. When reinstalling a used spark plug, tighten 1/8 1/4 turn after the spark plug seats to compress the washer.

**IMPORTANT** *The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may damage the engine.*

## REAR AXLE

These are permanently lubricated with grease that does not need changing.

## BATTERY

To ensure long life to the battery it is essential to keep it carefully maintained.

The machine battery must always be charged:

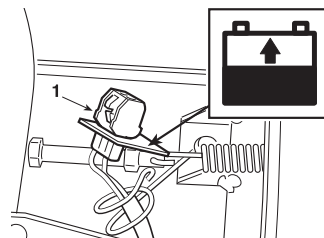
- before using the machine for the first time after purchase;
- before leaving the machine for a prolonged period of disuse;
- before starting up the machine after a prolonged period of disuse.

Carefully read and comply with the procedure for recharging described in the booklet coming with the battery. If the procedure is not followed or the battery is not charged, irreparable damage could be caused to the elements inside the battery. A flat battery **must** be recharged as soon as possible.

**IMPORTANT** *Recharging must be done by using the "CB01" battery charger supplied with your machine. Other recharging systems can irreversibly damage the battery.*

- follow the instructions given in the relative instruction booklet,
- follow the instructions given in the battery booklet.

The machine has a connector (1) for recharging, to be connected to the corresponding connector of the special "CB01" maintenance battery-charger.

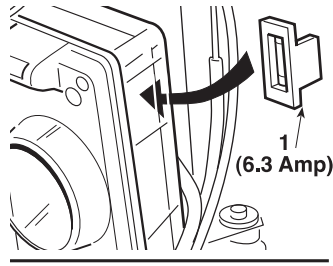


**IMPORTANT** Do not connect any other device than the "CB01" charger to this connector.

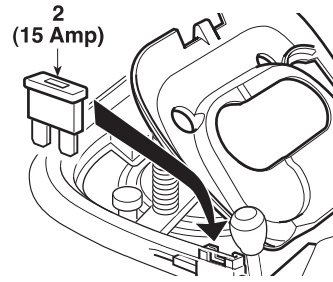
## ELECTRICAL SYSTEM

The electronic card and the electrical system are protected by:

- a self-resetting device which breaks the circuit when there is a function fault, and is accompanied by an audible signal which continues until the key is removed. When the problem has been resolved the system automatically resets after a few seconds;



- a 6.3 A delayed fuse (1) for the protection of the general and power circuits of the system. This must be replaced after having eliminated the fault.



A 15 A fuse (2) is also provided for protecting the recharge circuit.

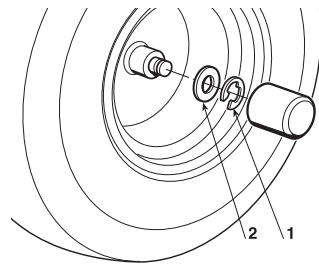
When any of these devices are activated, the machine stops.

**IMPORTANT** A blown fuse must always be replaced by one of the same type and ampere rating, and never one of a different rating.

If you cannot find the cause of the protection device's activation, consult your Dealer.

## CHANGING WHEELS

Stop the machine on a flat surface and put blocks under a load-bearing part of the frame on the side that the wheel is to be changed. The wheels are held by a snap ring (1) which can be taken off with a screwdriver.



The rear wheels are directly coupled to the axle shafts and fastened by a key that forms part of the wheel's hub.

Before re-fitting a wheel, smear some grease on the axle and carefully re-fit the snap ring and washer (2).

**NOTE** Should you substitute one or both rear wheels, ensure that they are of the same diameter, and check that cutting deck is horizontal to prevent an uneven cut.

## CHANGING AND REPAIRING TYRES

Tyres are of the «Tubeless» type and therefore all puncture repairs will have to be carried out by a tyre-repair expert in accordance with the methods for this kind of tyres.

## CHANGING BELTS

The motion from the engine to the rear axle and from the motor to the blade is obtained by two "V" belts, whose duration largely depends on how the machine is used.

Replacing belts is quite complicated because of dismantling and adjustments and must only be carried out by your Dealer.

**NOTE** Belts must always be replaced as soon as they are seen to be worn! ALWAYS USE MANUFACTURER'S GENUINE SPARE BELTS!

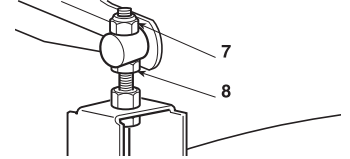
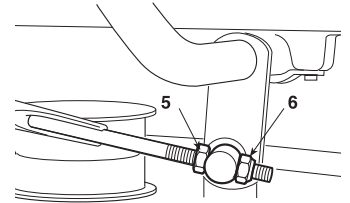
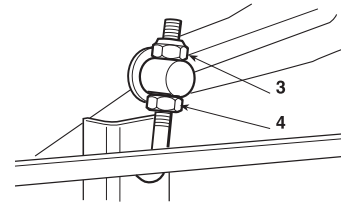
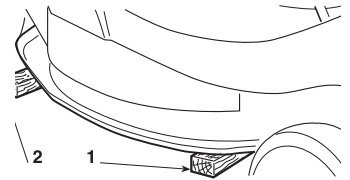
## CUTTING DECK ADJUSTMENT

The cutting deck should be properly adjusted to obtain a good cut. Height adjustments to the cutting deck are made through three linkages. Such adjustments are to be made on a flat surface after having ensured that the tyre pressures are correct.

**NOTE** For achieving good results from cutting, the front part should always be 2 - 4 mm lower than the rear.

To adjust the cutting deck so that it is parallel with the ground:

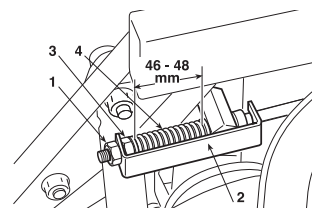
- put one 26 mm block (1) under the edge of the deck and one 32 mm block (2) under the rear edge, then put the lifting lever into the notch at position «1»;
- loosen the nuts (3 - 5 - 7) and the locknuts (4 - 6 - 8) so that the deck is resting firmly on the blocks;
- turn the nut (3) until the right-hand rear part of the deck starts to rise, and then tighten the relative locknut (4);
- screw down the nut (5) on the rod until the right-hand front part of the deck begins to rise, and then tighten the relative locknut (6);
- screw the nut (7) on the front left support until the deck in that area begins to rise, and then tighten the nut (8).



If you are unable to get the cutting deck parallel, consult your Dealer.

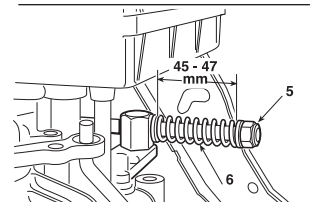
## BRAKE ADJUSTMENT

The adjustment will need to be made while the parking brake is engaged.



▶ For mechanical drive models:

- Loosen the nut (1) which holds on the bracket (2) and turn the nut (3) until the length of the



- spring (4) is 46 - 48 mm inside the washers. When the adjustment has been made, tighten the nut (1).

► **For hydrostatic drive models:**

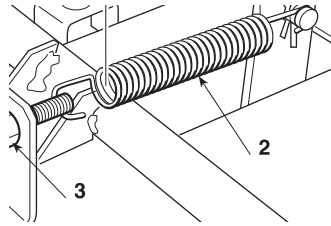
Turn the nut (5) until the length of the spring (6) is 45 - 47 mm inside the washers.

**IMPORTANT** Do not screw to below these values to avoid overloading the brake unit.

**ADJUSTING DRIVE ENGAGEMENT**

► **For mechanical drive models:**

If you should notice that forward drive power has dropped, you can adjust the regulating screw (1) which is accessible through the hatchway beneath the seat. Undoing the screw and then lengthening the spring (2) will increase the drive ability. The best length for the spring is 86 mm measured from the outer ends of the spring. Once the adjustment has been made, tighten the locknuts (3). Excessive spring tension may cause too sudden engagement of the clutch, resulting in the machine tipping up.



**ADJUSTMENT TO BLADE ENGAGEMENT AND BRAKE**

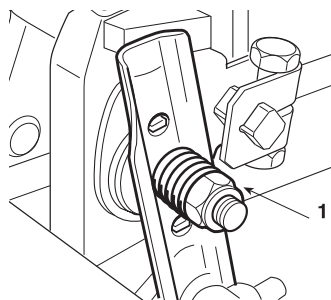
If there seem to be problems in engaging the blade or the time for stopping when it has been disengaged is over 5 seconds, ask your Dealer for adjustment.

► **For hydrostatic drive models:**

**ADJUSTING THE SPEED CHANGE LEVER**

The speed change lever has a clutch device which keeps it in the position selected during forward movement and which returns the lever to neutral when brake is operated.

If the lever does not stay in position during working and has difficulty in returning to neutral, the adjuster nut (1) will need to be registered to restore normal functioning.



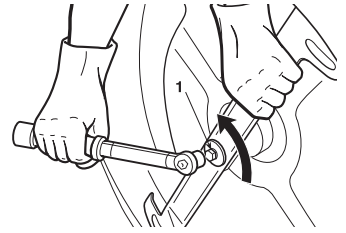
**SHARPENING THE BLADE**

Check that the blade is sharpened properly and firmly fixed to the bracket.

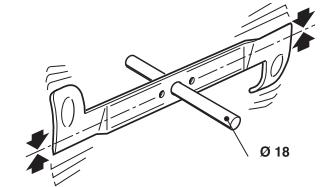
- A badly sharpened blade pulls at the grass and causes the lawn to turn yellow.
- A loose blade causes unusual vibrations and can be dangerous.

**⚠ WARNING!** All operations on the blade (dismantling, sharpening, balancing, remounting and/or replacing) require a certain familiarity and special tools. For safety reasons, go to a specialized centre if you do not have the right tools or experience.

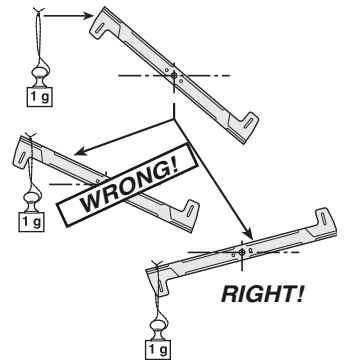
To remove the blade, hold it firmly wearing strong gloves and undo the central screw (1).



Sharpen the two cutting edges using a medium grade grinding wheel and check the balance by holding the blade up with a round 18 mm diameter bar inserted in the central hole.

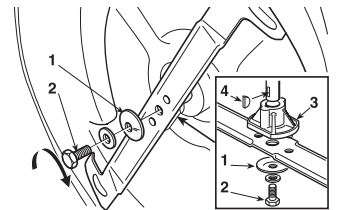


To ensure that it works properly without unusual vibrations any imbalance between the two parts of the blade must be below one gram.



This can be easily ascertained by putting a one gram weight on the lightest end of the blade. If it tends to go below the balanced position it means that the balance is correct, while if it stays up then the other end will have to be made lighter.

**⚠ WARNING!** A damaged or bent blade must always be replaced; never try to repair it! ALWAYS USE MANUFACTURER'S GENUINE SPARE BLADES ⚠!



Only blades with the following codes must be used on this machine:  
**84109503/0**

**⚠ WARNING!** When re-fitting the blade, always follow the indicated sequence, making sure that the blade's wings are facing towards the interior of the cutting deck and that the concave part of the cup spring (1) is pressing against the blade. Tighten the fixing screw (2) using a torque wrench set to 45-50 Nm. If the shaft hub (3) came off when dismantling the blade, make sure that the key (4) is firmly in its right position.

**GUIDE TO SCHEDULED MAINTENANCE**

This table is to help you maintain your machine's safety and performance. It shows the main maintenance and lubrication work, indicating the frequency with which it should be carried out.

To the right of each one there is a box where you can write the date or after how many hours of operation the work was carried out.



WORK	HOURS	DATE OR N° OF HOURS								
<b>1. MACHINE</b>										
1.1 Check of tight fixing and sharpness of blade	25									
1.2 Blade replacement	100									
1.3 Check of the transmission belt <sup>1)</sup>	25									
1.4 Transmission belt replacement <sup>1)</sup>	–									
1.5 Checking the blade drive belt <sup>1)</sup>	25									
1.6 Blade drive belt replacement <sup>1)</sup>	–									
1.7 Check and adjustment of brake	10									
1.8 Check and adjustment of drive	10									
1.9 Check blade engagement and brake	10									
1.10 Check of tight fixing of all the elements	25									
1.11 General lubrication <sup>1) 2)</sup>	25									
<b>2. ENGINE</b>										
2.1 Check oil level <sup>3)</sup>	–									
2.2 Engine oil change <sup>4)</sup>	100									
2.3 Oil filter replacement <sup>4)</sup>	–									
2.4 Check <sup>3)</sup> and cleaning of air filter <sup>5) 6)</sup>	50									
2.5 Air filter replacement <sup>6)</sup>	200									
2.6 Check fuel filter <sup>1)</sup>	200									
2.7 Fuel filter replacement <sup>1)</sup>	–									
2.8 Check and cleaning of spark plug points	100									
2.9 Replacement of spark plug	200									

<sup>1)</sup> Contact your Dealer.

<sup>2)</sup> General lubrication should be carried out whenever the machine is to be left unused for a long period.

<sup>3)</sup> Check each time used.

<sup>4)</sup> Operation to be performed also after the first 20 hours of operation.

<sup>5)</sup> Carry out maintenance of the air filter more frequently in the case of use on dusty ground.

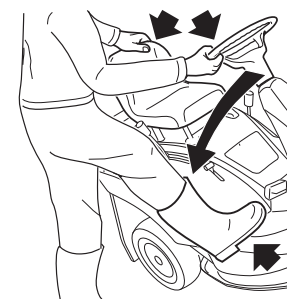
<sup>6)</sup> Replace the paper element only.

## LAYING ON ITS SIDE

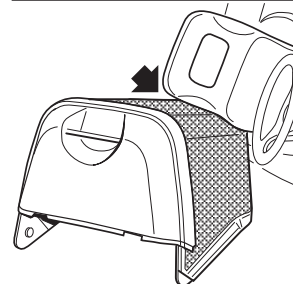
In order to easily reach beneath the machine, it can be turned onto its side after having removed the grass-catcher and completely emptied the fuel tank.

**⚠ WARNING!** *This operation is to be performed with the assistance of another person.*

Having put the machine onto a firm and flat surface, engage the parking brake, put the cutting deck into position «7», firmly grip the steering wheel and the seat, and turn the machine onto its right hand side so that it rests on the grass-catcher (as shown), taking care not to damage plastic parts.



**⚠ WARNING!** *Make sure that the machine is stable before starting any work and do not carry out work that may cause it to fall.*



## 7. ENVIRONMENTAL PROTECTION

Environmental protection should be a priority of considerable importance when using the machine, for the benefit of both social co-existence and the environment in which we live.

- Try not to cause any disturbance to the surrounding area.
  
- Scrupulously comply with local regulations and provisions for the disposal of waste materials after sawing.
  
- Scrupulously comply with local regulations and provisions for the disposal of oils, petrol, damaged parts or any elements which have a strong impact on the environment; this waste must not be disposed of as normal waste, it must be separated and taken to specified waste disposal centres where the material will be recycled.
  
- At the time of decommissioning, do not pollute the environment with the machine, hand it over to a disposal centre, in accordance with the local laws in force.

## 8. TROUBLESHOOTING

PROBLEM	SITUATION	LIKELY CAUSE	SOLUTIONS
1. Pilot lamp off	Key is in «ON» position, engine stopped	Electronic card in safety alert, due to: <ul style="list-style-type: none"> <li>– badly connected battery</li> <li>– completely flat battery or eroded battery plates</li> <li>– battery terminals crossed</li> <li>– fuse blown</li> <li>– badly earthed</li> <li>– electronic card wet</li> <li>– earthed micro-switches</li> </ul>	Put the key in the «OFF» position and look for the cause of the problem: <ul style="list-style-type: none"> <li>– check connections</li> <li>– recharge battery</li> <li>– connect properly</li> <li>– replace fuse (6.3 A - delayed)</li> <li>– check connections</li> <li>– dry by air</li> <li>– check connections</li> </ul>
2. Starter motor not working	Key in «START» position and pilot lamp on  Key in «START» position and pilot lamp flashing	<ul style="list-style-type: none"> <li>– insufficiently charged battery</li> <li>– badly earthed</li> <li>– you are not ready for starting</li> </ul>	<ul style="list-style-type: none"> <li>– recharge battery (if the problem continues, consult your Dealer)</li> <li>– check the 15 A fuse (if the problem continues, consult your Dealer)</li> <li>– check connections</li> <li>– check that the blade is disengaged (if the problem continues, check relevant micro-switch)</li> <li>– put the gear (▣ <i>mechanical</i>) or the lever (▣ <i>hydrostatic</i>) in neutral (N)</li> </ul>
3. Engine does not start	Key in «START» position	<ul style="list-style-type: none"> <li>– no fuel supply</li> <li>– faulty ignition</li> <li>– insufficiently charged battery</li> </ul>	<ul style="list-style-type: none"> <li>– check fuel level</li> <li>– open fuel stop-cock</li> <li>– check fuel filter</li> <li>– check that spark plug cap are firmly fitted</li> <li>– check that the electrodes is clean and have the correct gap</li> <li>– recharge battery (if the problem continues, consult your Dealer)</li> </ul>
4. Starting is difficult or the engine runs erratically	Key in «ON», engine running	– fuel fault	<ul style="list-style-type: none"> <li>– clean or replace the air filter</li> <li>– flush out the float chamber</li> <li>– empty fuel tank and refill with new fuel</li> <li>– check and, if necessary, replace fuel filter</li> </ul>
5. Weak engine performance during cutting	Key in «ON», engine running	– forward speed too high in relation to cutting height	– reduce the forward speed and/or raise the cutting deck
6. Engine stops when blade is engaged	Key in «ON», engine running	– you are not ready to engage the blade	<ul style="list-style-type: none"> <li>– sit firmly on seat (if problem continues, check micro-switch)</li> <li>– check that grass-catcher or stone-guard are correctly in position (if problem continues, check micro-switch)</li> </ul>
7. Engine stops	Key in «ON», engine running	Electronic card in safety alert, due to: <ul style="list-style-type: none"> <li>– earthed micro-switches</li> <li>– flat battery</li> <li>– overload caused by the charge regulator</li> <li>– badly connected battery (poor contact)</li> <li>– engine badly earthed</li> </ul>	Put the key in the «OFF» position and look for the cause of the problem: <ul style="list-style-type: none"> <li>– check connections</li> <li>– recharge battery</li> <li>– contact your Dealer</li> <li>– check battery connections</li> <li>– check engine earth connection</li> </ul>

PROBLEM	SITUATION	LIKELY CAUSE	SOLUTIONS
8. Uneven cut and poor grass collection	Key in «ON», engine running	<ul style="list-style-type: none"> <li>– cutting deck not parallel to the ground</li> <li>– blade cutting badly</li> <li>– forward speed too high compared to height of grass</li> <li>– collector channel is obstructed</li> <li>– cutting deck full of grass</li> </ul>	<ul style="list-style-type: none"> <li>– check tyre pressures</li> <li>– re-align the cutting deck to the ground</li> <li>– check that the blade is fitted properly</li> <li>– sharpen or replace the blade</li> <li>– check the tension of the belt</li> <li>– reduce forward speed and/or raise the cutting deck</li> <li>– wait for grass to dry</li> <li>– remove the grass-catcher and empty the collector channel</li> <li>– clean the cutting deck</li> </ul>
9. Unusual vibrations while working	Key in «ON», engine running	<ul style="list-style-type: none"> <li>– the blade is imbalanced</li> <li>– blade loose</li> <li>– fixing screws loose</li> <li>– cutting deck is obstructed</li> </ul>	<ul style="list-style-type: none"> <li>– balance or replace the damaged blade</li> <li>– check that the blade is firmly fitted</li> <li>– check and tighten all the fixing screws of engine and the machine</li> <li>– remove the grass-catcher, empty the collector channel and clean the inside of the cutting deck</li> </ul>

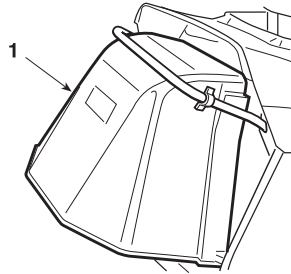
If problems continue after having carried out these operations, contact your Dealer.

**⚠ WARNING!** *Do not take on complicated repair work if you don't have the necessary equipment and the technical knowledge. The guarantee is automatically revoked and the manufacturer declines all responsibility for any repairs which are badly done.*

## 9. ACCESSORIES ON REQUEST

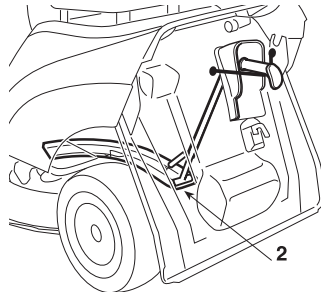
### 1. STONE-GUARD KIT

For use in place of the grass-catcher when the cuttings are not to be collected.



### 2. KIT FOR “MULCHING”

It finely chops the grass cuttings and leaves them on the lawn, instead of collecting them in the grass-catcher



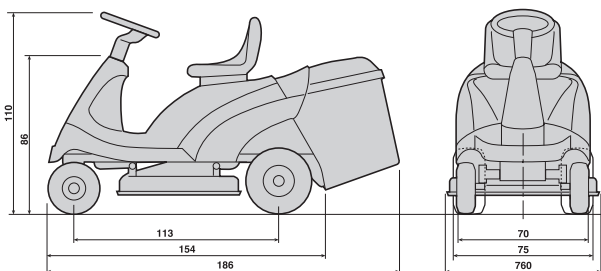
**⚠ WARNING!** *For your safety it is strictly prohibited to fit any other accessory other than those included in the above list, they have been exclusively designed for the model and type of machine you are using.*

## 10. SPECIFICATIONS

MODELS	HF1211	HF1211 H
Function	Cutting of grass	
Electrical system	12 V	12 V
Battery	20 Ah	20 Ah
Engine: HONDA type	GXV 340	GXV 340
Operating engine speed	3100 r.p.m.	3100 r.p.m.
Net Engine Power (*)	6.6 kW / 3600	6.6 kW / 3600
Nominal Engine Power	6.4 kW / 3100	6.4 kW / 3100
Front tires	11 x 4-4	11 x 4-4
Rear tires	15 x 6-6	15 x 6-6
Front tire pressure	1.5 bar	1.5 bar
Rear tire pressure	1.0 bar	1.0 bar
Fuel tank capacity	3.6 liters	3.6 liters
Weight	168 kg	177 kg
Speed		
in Forward drive	—	from 0 to 8.0 km/h
in 1 <sup>st</sup>	1.6 km/h	—
in 2 <sup>nd</sup>	2.8 km/h	—
in 3 <sup>rd</sup>	4.2 km/h	—
in 4 <sup>th</sup>	4.7 km/h	—
in 5 <sup>th</sup>	7.0 km/h	—
in Reverse	2.0 km/h	from 0 to 3.7 km/h
Inside turning circle (minimum diameter of uncut area), Left side	1.4 m	1.4 m
Cutting height	from 3 to 8 cm	from 3 to 8 cm
Cutting width	71 cm	71 cm
Grass-catcher capacity	170 liters	170 liters

### Maximum noise and vibration levels

MODELS		HF1211	HF1211 H
Guaranteed acoustic power level (2000/14/EC, 2005/88/EC)	dB(A)	100	100
Measured acoustic power level (2000/14/EC, 2005/88/EC)	dB(A)	99.0	99.0
Measuring uncertainty	dB(A)	0.4	0.4
Sound pressure level at the ear (EN836:1997 / AC:2006)	dB(A)	83.6	83.6
Measuring uncertainty	dB(A)	0.4	0.4
Real measured value of acceleration on steering wheel (EN836:1997 / AC:2006)	m/sec <sup>2</sup>	2.6	2.6
Measuring uncertainty	m/sec <sup>2</sup>	0.4	0.4
Real measured value of acceleration on seat (EN 1032)	m/sec <sup>2</sup>	0.4	0.4
Measuring uncertainty	m/sec <sup>2</sup>	0.2	0.2



(\*) The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine models GX 340 and measured in accordance with SAE J1349 at 3600 r.p.m (Net Power) and at 2800 r.p.m (Net Torque). Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.



# Major Honda distributor addresses

## Adresses des principaux concessionnaires Honda

## Adressen der wichtigsten Honda-Haupthändler

## Elenco dei maggiori distributori Honda in Europa

## Adressen van Honda-importeurs

## Direcciones de los principales concesionarios Honda

### 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](mailto: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](mailto: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](mailto:honda@kirov.net)

### CROATIA

**Hongoldonia d.o.o.**  
Jelkovecka Cesta 5  
10360 Sesvete – Zagreb  
Tel. : +385 1 2002053  
Fax : +385 1 2020754  
<http://www.hongoldonia.hr>  
✉ [jure@hongoldonia.hr](mailto:jure@hongoldonia.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.honda-stroje.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 9 878 5276  
<http://www.brandt.fi>

### FRANCE

**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>  
✉ [espaceclient@honda-eu.com](mailto:espaceclient@honda-eu.com)

### GERMANY

**Honda Motor Europe (North) GmbH**  
Spredlinger Landstraße 166  
63069 Offenbach am Main  
Tel. : +49 69 8309-0  
Fax : +49 69 8320 20  
<http://www.honda.de>  
✉ [info@post.honda.de](mailto:info@post.honda.de)

### GREECE

**General Automotive Co S.A.**  
71 Leoforos Athinon  
10173 Athens  
Tel. : +30 210 3497809  
Fax : +30 210 3467329  
<http://www.honda.gr>  
✉ [info@saracakis.gr](mailto:info@saracakis.gr)

### HUNGARY

**Motor.Pedo Co., Ltd.**  
Kamaraerdei út 3.  
2040 Budaors  
Tel. : +36 23 444 971  
Fax : +36 23 444 972  
<http://www.hondakisgepek.hu>  
✉ [info@hondakisgepek.hu](mailto:info@hondakisgepek.hu)

### ICELAND

**Bernhard ehf.**  
Vatnagarðar 24-26  
104 Reykjavík  
Tel. : +354 520 1100  
Fax : +354 520 1101  
<http://www.honda.is>

### IRELAND

**Two Wheels Ltd.**  
M50 Business Park, Ballymount  
Dublin 12  
Tel. : +353 1 4381900  
Fax : +353 1 4607851  
<http://www.hondaireland.ie>  
✉ [service@hondaireland.ie](mailto: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.power@honda-eu.com](mailto:info.power@honda-eu.com)

### MALTA

**The Associated Motors Company Ltd.**  
New Street in San Gwakkinn 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 20 7070000  
Fax : +31 20 7070001  
<http://www.honda.nl>

### NORWAY

**Berema AS**  
P.O. Box 454  
1401 Ski  
Tel. : +47 64 86 05 00  
Fax : +47 64 86 05 49  
<http://www.berema.no>  
✉ [berema@berema.no](mailto:berema@berema.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> - [www.mojahonda.pl](http://www.mojahonda.pl)  
✉ [info@ariespower.pl](mailto: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@honda-eu.com](mailto:honda.produtos@honda-eu.com)

### REPUBLIC OF BELARUS

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

### ROMANIA

**Hit Power Motor Srl**  
Calea Giulesti N° 6-8 - Sector 6  
060274 Bucuresti  
Tel. : +40 21 637 04 58  
Fax : +40 21 637 04 78  
<http://www.honda.ro>  
✉ [hit\\_power@honda.ro](mailto:hit_power@honda.ro)

### 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](mailto: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>

### SLOVAK REPUBLIC

**Honda Slovakia, spol. 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.**  
Avda. Ramon Ciurans, 2  
08530 La Garriga - Barcelona  
Tel. : +34 3 860 50 25  
Fax : +34 3 871 81 80  
<http://www.hondaencasa.com>

### SWEDEN

**Honda Nordic AB**  
Box 50583 - Västkvägen 17  
20215 Malmö  
Tel. : +46 (0)40 600 23 00  
Fax : +46 (0)40 600 23 19  
<http://www.honda.se>  
✉ [hepsinfo@honda-eu.com](mailto:hepsinfo@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>

### TENERIFE PROVINCE

(Canary Islands)  
**Automocion Canarias S.A**  
Carretera General del Sur, KM 8.8  
38107 Santa Cruz de Tenerife  
Tel. : 34 (922) 620 617  
Fax : 34 (922) 618 042  
<http://www.aucasa.com>  
✉ [ventas@aucasa.com](mailto:ventas@aucasa.com)  
✉ [taller@aucasa.com](mailto:taller@aucasa.com)

### 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://anadolumotor.com.tr>  
✉ [antor@antor.com.tr](mailto: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](mailto: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>

**EC - Декларация за съответствие**

- Долуподписалият се Г-н Канемюра, представляващ производителя, с настоящия документ декларира че машина описана по-долу е в съответствие с всички изисквания на директивите за машини и съоръжения - Съоръжението също съответства с изискванията на:
  - Директива за нивото на шума: - EMC директива:
- Описание на оборудването:**
  - Общо наименование: косачка
  - Функция: косене на трева
  - Тип:
  - Сериен номер:
- Външен шум:**
  - измерена сила на звука - b) максимална сила на звука - c) параметри на шума; нетна инсталирана мощност - d) процедура на измерването - e) измерено на купе
- Производител:
- Оторизиран представител, който може да съставя техническата документация:
- Съответствие с хармонизирани етандарти:
- Други национални стандарти и спецификации:
 

Място на изготвяне:                      Дата на изготвяне:                      Мениджър по качество:                      Подпис:

**EC - Prohlášení o shodě**

- Zástupce výrobce, Takayoshi Fukai svým podpisem potvrzuje, že daný výrobek splňuje požadavky Směrnice pro strojní zařízení. Daný výrobek rovněž splňuje požadavky následujících Směrnic:
  - Hluková směrnice:
  - Směrnice pro elektromagnetickou kompatibilitu:
- Popis zařízení:**
  - Všeobecné označení: Sekačka na trávu
  - Funkce: Sekání trávy
  - Typ:
  - Výrobní číslo:
- Hluková směrnice:**
  - Naměřený akustický výkon - b) Garantovaný akustický výkon
  - Parametry: Nominální výkon - d) Způsob stanovení shody - e) Notifikovaná osoba:
- Výrobce:
- Autorizovaná osoba pověřená schvalováním technické dokumentace:
- Odkazy na harmonizované normy:
- Ostatní použité národní normy a specifikace:
 

Podepsáno v:                      Datum:                      Prezident:                      Podpis:

**EG-Konformitätserklärung**

- Der Unterzeichner, Takayoshi Fukai, der den Hersteller vertritt, erklärt hiermit dass die unten genannte Maschine den Bestimmungen aller relevanten Maschinenrichtlinien entspricht. Die Maschine entspricht ebenfalls den Vorschriften der:
  - Outdoor Richtlinie:
  - EMV Richtlinie:
- Beschreibung der Maschine:**
  - Allgemeine Bezeichnung: Rasenmäher
  - Funktion: Gras schneiden
  - Typ:
  - Seriennummer:
- Richtlinie zu Geräuschemissionen im Freien:**
  - Gemessener Schalleistungspegel - b) Garantierter Schalleistungspegel - c) Geräusch Vorgabe : Tatsächliche Leistung - d) Angewandtes Konformitätsbewertungsverfahren
  - Benannte Stelle
- Hersteller:
- Bevollmächtigter zur Erstellung der technischen Unterlagen:
- Verweis auf harmonisierte Normen:
- Andere herangezogene nationale Normen, Bestimmungen oder Vorschriften:
 

Ort:                      Datum:                      Präsident:                      Unterschrift:

**EU Overenstemmelseerklæring**

- Undertegnede, Takayoshi Fukai, som repræsenterer producenten erklærer herved, at produktet beskrevet nedenfor opfylder alle retningslinier i maskindirektivet. Produktet opfylder også bestemmelserne i:
  - Direktiv om støjemission fra maskiner til udedørs brug:
  - EMC direktiv:
- Beskrivelse af produktet:**
  - Fællesbetegnelse: Plæneklipper
  - Anvendelse: Græsklipning
  - Typ:
  - Stelnummer:
- Direktiv om støjemission fra maskiner til udedørs brug:**
  - Målt støjniveau - b) Garanteret støjniveau - c) Støjparameter: installeret motoreffekt
  - Overenstemmelsens vurderingsprocedure - e) Bemyndiget organ
- Producent:
- Autoriseret repræsentant for udfærdigelsen af den tekniske dokumentation:
- Reference til harmoniserede standarder:
- Ondre nationale standarder eller specifikationer:
 

Sted:                      Dato:                      Formand:                      Underskrift:

**Declaracion de conformidad CE.**

- El firmante, Takayoshi Fukai, en representación del fabricante, adjunto declara que la máquina descrita más abajo cumple con todas los requisitos relevantes de la Directiva de Maquinaria. La máquina también cumple con los requisitos de la:
  - Directiva sobre Ruido exterior:
  - Directiva EMC:
- Descripción de la máquina:**
  - Denominación genérica: Cortacésped
  - Función: Cortar el césped
  - Tipo:
  - Número serie:
- Directiva Ruido Exterior:**
  - Potencia medida sonido - b) Potencia sonido garantizada - c) Parámetros ruido: Potencia neta instalada - d) Procedimiento valoración conformidad - e) Organismo notificado.
- Fabricante:
- Representante autorizado para recopilar la Documentación Técnica:
- Referencia de los estándar armonizados:
- Otros estándar nacionales o especificaciones:
 

Realizado en:                      Fecha:                      Presidente:                      Firma:

**EÜ Vastavusavaldus**

- Allkirjutane, Takayoshi Fukai, kinnitab tootja volitatud esindajana, et alltoodud seadmed vastavad kõikidele tehniliste seadmete direktiivnõuetele. Lisaks sellele vastavad seadmed järgmistele direktiivide nõuetele:
  - Müratase välistingimustes:
  - EMC direktiiv:
- Seadmete kirjeldus:**
  - Üldnimetus: Muruniiduk
  - Funktsioon: Mura niitmine
  - Tüüp:
  - Seerianumber:
- Müratase välistingimustes:**
  - Möödetav helivõimsuse tase - b) Tegelik helivõimsuse tase - c) Müra mõjutavad tegurid: Toite võimsus - d) Vastavushindamise menetlus - e) Teavitatud asutus
- Tootja:
- Volitatud esindaja, kes on kvalifitseeritud koostama tehnilist dokumentatsiooni:
- Viiide ühtlustatud standardite:
- Siseriiklikud seadusaktid:
 

Koht:                      Kuupäev:                      President:                      Allkiri:

**Déclaration CE de conformité**

- Le soussigné, Mr Takayoshi Fukai, représentant du constructeur, déclare par la présente que la machine décrite ci-dessous est conforme aux dispositions de la Directive Machine. Cette machine répond également aux dispositions de :
  - Directive relative aux émissions sonores dans l'environnement des matériels destinés à être utilisés à l'extérieur des bâtiments :
  - Directive relative à la compatibilité électromagnétique des équipements électriques et électroniques :
- Description de la machine :**
  - Dénomination générique : Tondeuse à gazon
  - Fonction : Couper de l'herbe
  - Type :
  - Numéro de série :
- Directive relative aux émissions sonores dans l'environnement des matériels destinés à être utilisés à l'extérieur des bâtiments :**
  - Puissance acoustique mesurée b) Puissance acoustique garantie c) Paramètres de bruit: Puissance nette installée d) Procédure d'évaluation de la conformité e) Organisme notifié.
- Constructeur :
- Représentant autorisé à valider la documentation technique :
- Référence aux normes harmonisées :
- Autres normes et spécifications techniques nationales :

Fait à :                      Date :                      Président :                      Signature :

**EU-vaatimusten mukaisuusvakuutus**

- Allekirjoittanut valmistajan edustaja Takayoshi Fukai vakuuttaa täten, että tuote on kaikkien EU: n koneidirektiivin vaatimusten mukainen. Tuote on lisäksi seuraavien EU: n direktiivien vaatimusten mukainen:
  - Meludirektiivi:
  - Sähkömagneettista yhteensopivuutta koskeva direktiivi:
- Tuotteen kuvaus:**
  - Yleisarvomäärä: Ruohonleikkuri
  - Toiminto: Ruohon leikkaus
  - Tyyppi:
  - Sarjanumero:
- Meludirektiivi:**
  - Mitattu äänitehotaso - b) Taattu äänitehotaso - c) Meluparametri: Asennettu nettoteho
  - Vaatimustenmukaisuuden arviointimenettely - e) Ilmoitettu laitos
- Valmistaja:
- Teknisen dokumentaation laatinut valmistajan edustaja:
- Viittaus yhdenmukaistettuihin standardeihin:
- Muut kansalliset standardit tai tekniset eritelmät:
 

Laadittu:                      Päivämäärä:                      Pääjohtaja:                      Allekirjoitus:

**EC-Declaration of Conformity**

- The undersigned, Mr Takayoshi Fukai, representing the manufacturer, herewith declares that the machinery described below complies with all the relevant provisions of the Machinery Directive **2006/42/EC, 98/37/EC**. The machinery also complies with the provisions of the:
  - Outdoor noise Directive: **2000/14/EC, 2005/88/EC**
  - EMC Directive: **2004/108/EC**
- Description of the machinery:**
  - Generic denomination: **Lawn mower**
  - Function: **Cutting of grass**
  - Type: **HF1211K2 (SE, SF) - HF1211K2 (HE, HF)**
  - Serial number:
 

<b>HF1211K2</b>	<b>SE, SF</b>	<b>2010001 to 2019999</b>
<b>HF1211K2</b>	<b>HE, HF</b>	<b>2010001 to 2019999</b>
- Outdoor noise Directive**
  - Measured sound power: **99 dB(A)**
  - Guaranteed sound power: **100 dB(A)**
  - Noise parameter: **L = 71 cm**
  - Conformity assessment procedure: **Annex VI**
  - Notified body: **TÜV RHEINLAND PRODUCT SAFETY GMBH**  
**Am Grauen Stein - 51105 Köln**  
**Germany**

**Πιστοποιητικό συμμόρφωσης Ε.Ε.**

- Ο υπογράφων, Takayoshi Fukai εκπροσωπώντας τον κατασκευαστή, δια του παρόντος δηλώνει ότι το μηχάνημα που αναφέρεται πιο κάτω βρίσκεται σε εναρμόνιση με τις προβλέψεις των οδηγιών της ΕΕ. Τα μηχανήματα βρίσκονται σε εναρμόνιση με τις προβλέψεις των:
  - Οδηγιών θορύβου εξωτερικού χώρου:
  - Οδηγίας EMC:
- Περιγραφή μηχανήματος:**
  - Γενική ονομασία: Χλοοκοπτική μηχανή
  - Λειτουργία: για κόψιμο γρασιδιού
  - Τύπος:
  - Αριθμός παραγωγής:
- Οδηγία θορύβου εξωτερικού χώρου:**
  - Ισχύς μετρηθέντος θορύβου - β) Εγγυημένο επίπεδο θορύβου - γ) Παραμέτροι θορύβου: ισχύς κινητήρα - δ) Διαδικασία αξιολόγησης συμμόρφωσης - ε) Όνομα κοινοποιημένου οργανισμού
- Κατασκευαστής:
- Εγγεκριμένος αντιπρόσωπος ικανός για σύσταση τεχνικού συγγράμματος:
- Αναφορά σε εναρμονισμένα πρότυπα:
- Αναφορά σε άλλα εθνικά πρότυπα ή προδιαγραφές:
 

Η δοκιμή έγινε:                      Ημερομηνία:                      Πρόεδρος:                      Υπογραφή:

**EK-Megfelelőeségi nyilatkozat**

- Alulírott Takayoshi Fukai, mint a gyártó képviselője nyilatkozom, hogy az alábbi berendezés mindenben megfelel a Gépekre irányuló rendelkezéseknek: A berendezés megfelel a Külső Hangbocsátási és a EMC Direktíváknak
- A gép leírása:**
  - Általános megnevezés: Fűnyíró
  - Funkció: Fű levágása
  - Típus:
  - Sorozatszám:
- Külső hangbocsátási előírások:**
  - Mért hangerő - b) Garantált hangerő - c) Zaj paraméter: Üzembehelyezett zajszint
  - Becslési eljárás megfeleléshez - e) Bejegyzett teszt
- Gyártó:
- Műszaki dokumentáció összeállítására jogosult képviselő:
- Hivatkozással a szabványokra:
- Más belföldi előírások, megjegyzések:
 

Keltezés helye:                      Keltezés ideje:                      Elnök:                      Aláírás:



### Dichiarazione di conformità

- Il sottoscritto, Takayoshi Fukai in rappresentanza del costruttore, dichiara qui di seguito che la macchina sotto descritta è conforme con tutte le condizioni pertinenti della Direttiva Macchine. La macchina è anche conforme alle condizioni della:
    - Direttiva sulle emissioni acustiche delle macchine destinate a funzionare all'aria aperta:
    - Direttiva sulla compatibilità elettromagnetica:
  - Descrizione della macchina:**
    - Denominazione generica: Rasaerba
    - Funzione: Taglio di erba
    - Tipologia:
    - Numero di serie:
  - Direttiva emissioni acustiche:**
    - Livello di potenza sonora misurata - b) Livello di potenza sonora garantita
    - Parametri rumorosità: Potenza netta installata - d) Procedura di valutazione conformità
    - Organismo notificato
  - Costruttore:
  - Rappresentante Autorizzato idoneo a compilare la documentazione tecnica:
  - Riferimento agli standard armonizzati:
  - Altri standard o specifiche nazionali
- Fatto a: \_\_\_\_\_ Data: \_\_\_\_\_ Presidente: \_\_\_\_\_ Firma: \_\_\_\_\_

### EB Atitikties Deklaracija.

- Žemiau pasirašęs, p. Takayoshi Fukai atstovaujantis gamintoją, deklaruoja, kad įranga atitinka reikalavimus pagal direktyvą:
  - Mašinos aprašymas:**
    - Bendras pavadinimas: Vejapjovė
    - Funkcija: Žolės pjovimas
    - Tipas:
    - Serijsinis numeris:
  - Triukšmo direktyva:**
    - Išmatuotas triukšmo lygis - b) Garantuotas triukšmo lygis - c) Triukšmo parametrai: Nominali instaliuota galia - d) Atitikties įvertinimo procedūra - e) Atstovas.
  - Gamintojas:
  - Įgaliotas atstovas turintis techninę dokumentaciją:
  - Nuoroda į harmonizuotus standartus:
  - Kiti nacionaliniai standartai ir specifikacijos:
- Atlikta: \_\_\_\_\_ Data: \_\_\_\_\_ Prezidentas: \_\_\_\_\_ Parašas: \_\_\_\_\_

### 4) Manufacturer:

**Honda France Manufacturing S.A.S.**  
**Pôle 45 - Rue des Chataigniers**  
**45140 ORMES - FRANCE**

### 5) Authorized Representative able to compile the technical documentation:

**Honda France Manufacturing S.A.S.**  
**Pôle 45 - Rue des Chataigniers**  
**45140 ORMES - FRANCE**

### 6) Reference to harmonized standards

**EN 836 : 1997 / AC : 2006**  
**EN ISO 14982 : 1998**

### 7) Other national standards or specifications

N/A

Done at: \_\_\_\_\_ Date: \_\_\_\_\_ President: \_\_\_\_\_ Signature: \_\_\_\_\_  
ORMES 01 12 2009 Takayoshi Fukai

### EK Atbilstības deklarācija

- Zemāk minētais Takayoshi Fukai, kā ražotāja pārstāvis ar šo apstiprina, ka atrunātā iekārta pilnībā atbilst visiem standartiem, kas atrunāti EC-Direktīvā Kā arī šī iekārta atbilst:
    - Trokšņa līmeņa direktīvai:
    - EMC direktīvai:
  - Lekārtas apraksts:**
    - Vispārējais nosaukums: Zāles plāvējs
    - Funkcija: Zāles plāušana
    - Tipa:
    - Serijs numurs:
  - Trokšņa līmeņa direktīva:**
    - Nomērītā trokšņa jauda - b) Garantētā trokšņa jauda - c) Trokšņa parametri: Kopējā uzstādītā jauda - d) Atbilstības noteikšanas procedūra - e) Atbildīgā iestāde
  - Ražotājs:
  - Autorizētais pārstāvis, kas ir kompetents apkopot tehnisko dokumentāciju:
  - Atsauces uz saskaņotajiem standartiem:
  - Citi valsts noteiktie standarti vai specifikācijas:
- Vieta: \_\_\_\_\_ Datums: \_\_\_\_\_ Prezidents: \_\_\_\_\_ Paraksts: \_\_\_\_\_

### EU-Conformiteitsverklaring

- Ondergetekende, Takayoshi Fukai, vertegenwoordiger van de constructeur, verklaart hierbij dat de hieronder beschreven machine in overeenstemming is met de bepalingen van de Veiligheidsrichtlijn voor machines. De machine voldoet eveneens aan de bepalingen van de richtlijnen voor geluidsemissie van materieel voor gebruik buitenshuis en elektromagnetisme
  - Beschrijving van de machine:**
    - Algemene benaming: Motorgazonmaaier
    - Functie: Gras maaien
    - Type:
    - Serienummer:
  - Geluidsemissie materieel voor gebruik buitenshuis:**
    - Gemeten geluidsvermogen - b) Gegarandeerd geluidsvermogen - c) Geluidsparameter: Geïnstalleerd vermogen - d) Conformiteitsbeoordelingsprocedure - e) In kennis gestelde instantie
  - Konstruktuer:
  - Vertegenwoordiger die gemachtigd is om de technische documentatie samen te stellen:
  - Verwijzing naar geharmoniseerde normen:
  - Andere nationale normen of technische specificaties:
- Opgemaakt te: \_\_\_\_\_ Datum: \_\_\_\_\_ President: \_\_\_\_\_ Handtekening: \_\_\_\_\_

### Declaração CE de conformidade

- O abaixo assinado, Takayoshi Fukai, representante do fabricante, declara que a maquinaria abaixo descrita cumpre com todas as normas referentes à Diretiva de Maquinaria. A maquinaria também cumpre as diretivas de:
    - Diretiva de ruído no exterior:
    - Diretiva EMC:
  - Descrição da maquinaria:**
    - Denominação genérica: Cora-relvas
    - Função: Corte de relva
    - Tipologia:
    - Número série:
  - Diretiva de ruído no exterior:**
    - Potência de som medida - b) Potência de som garantida - c) Parâmetros de ruído: d) Procedimento da avaliação da conformidade - e) Organismo notificado
  - Fabricante:
  - Representante autorizado e apto para confirmar a documentação técnica:
  - Referência aos padrões harmonizados:
  - Outras normas nacionais ou especificações:
- Feito em: \_\_\_\_\_ Data: \_\_\_\_\_ Presidente: \_\_\_\_\_ Assinatura: \_\_\_\_\_

### Deklaracija zgodnosti výrobu

- Nižej podpisany, Takayoshi Fukai reprezentující producenta, deklaruje iż urządzenie opisane poniżej jest zgodne z wszystkimi zasadniczymi wymaganiami Dyrektywy Maszynowej. Urządzenie spełnia dodatkowo wymagania:
    - Dyrektywy Halasowej:
    - Dyrektywy EMC:
  - Opis urządzenia:**
    - Ogólne określenie: Kosiarka
    - Funkcja: Ścinanie trawy
    - Typ:
    - Numer seryjny:
  - Dyrektywa Halasowa:**
    - Zmierzony poziom mocy akustycznej - b) Gwarantowany poziom mocy akustycznej
    - Parametry charakterystyczne: Zainstalowana moc netto
    - Zastosowana procedura oceny zgodności - e) Jednostka Notyfikowana
  - Producent:
  - Upoważniony Przedstawiciel posiadający dostęp do dokumentacji technicznej:
  - Zastosowane normy zharmonizowane:
  - Pozostałe normy i przepisy krajowe:
- Miejsce: \_\_\_\_\_ Data: \_\_\_\_\_ Prezes: \_\_\_\_\_ Podpis: \_\_\_\_\_

### UE -Declaratie de Conformitate

- Subsemnatul Takayoshi Fukai, reprezentand producatorul, declara prin prezenta ca echipamentele mai de jos respecta toate prevederile relevante din Directiva privind echipamentele Echipamentele respecta de asemenea prevederile Directivei privind nivelul de zgomot exterior si Directiva EMC:
  - Descrierea echipamentului:**
    - Denumire generica: Cositoare gazon
    - Domeniu de utilizare: Tunderea ierbiilor
    - Tip:
    - Numar de serie:
  - Directiva privind zgomotul exterior:**
    - Puterea sonora masurata: - b) Puterea sonora garantata: - c) Parametrii de zgomot putere instalata neta - d) Procedura de evaluare a conformitatii: - e) Organismul notificat
  - Producator:
  - Reprezentantul Autorizat in masura sa intocmeasca documentatia tehnica:
  - Referinta la standardele armonizate:
  - Alte standarde nationale sau specificatii:
- Emisa la: \_\_\_\_\_ Data: \_\_\_\_\_ Prezident: \_\_\_\_\_ Semnatura: \_\_\_\_\_

### EG-deklaration för överensstämmande

- Undertecknad, Takayoshi Fukai, representant för tillverkaren, försäkras härmed att maskinerna beskrivna nedan uppfyller alla relevanta stadgar i Maskin Direktivet eller Maskinerna uppfyller också stadgarna för:
    - Utomhus bullerdirektiv:
    - EMC direktiv:
  - Maskinbeskrivning:**
    - Allmän benämning: Gräsklippare
    - Funktion: Gräsklippning
    - Typ:
    - Serie nummer:
  - Utomhus bullerdirektiv:**
    - Uppmätt ljudeffekt - b) Garanterad ljudeffekt - c) Bullerparameter: Installerad nettoeffekt
    - Utfärderingsprocedur för överensstämmande - e) Anmälda organ
  - Tillverkare:
  - Auktoriserad representant som kan sammanställa den tekniska dokumentationen:
  - Referens till överensstämmande standarder:
  - Andra nationella standarder eller specifikationer:
- Utfärdat vid: \_\_\_\_\_ Datum: \_\_\_\_\_ Ordförande: \_\_\_\_\_ Underskrift: \_\_\_\_\_

### Vyhlasenie o súlade s predpismi ES

- Dolupodpisany pán Takayoshi Fukai zástupujúci výrobcu týmto vyhlasuje, že stroje popísané nižšie vyhovujú všetkým relevantným predpisom smernice Stroje vyhovujú predpisom:
    - EMC direktíva:
  - Popis stroja:**
    - Druhové označenie: Kosačky na trávu
    - Funkcia: Kosenie trávy
    - Typ:
    - Sériové číslo:
  - Smernica emisii hluku vo voľnom priestranstve:**
    - Nameraný akustický tlak - b) Garantovaný akustický tlak - c) Parameter hluku: Nominálny čistý výkon - d) Proces posudzovania zhody - e) Notifikovaný orgán
  - Výrobca:
  - Autorizovaný zástupca schopný predložiť technickú dokumentáciu:
  - Referencia k harmonizovaným štandardom:
  - Ďalšie národné štandardy alebo špecifikácie:
- Miesto: \_\_\_\_\_ Dátum: \_\_\_\_\_ Predseda: \_\_\_\_\_ Podpis: \_\_\_\_\_

### ES-Izjava o skladnosti

- Spodaj podpisani, Takayoshi Fukai, ki predstavljam proizvajalca, izjavljam da so spodaj navedene naprave v skladu z direktivo. Naprave prav tako ustrezajo naslednjim direktivam:
    - Direktiva o hrupnosti:
    - EMC direktiva:
  - Opis naprave:**
    - Vrsta stroja: Vrtno kosilnica
    - Funkcija: Košenje trave
    - Tip:
    - Serijska številka:
  - Direktiva o hrupnosti:**
    - Izmerjena zvočna moč - b) Garantirana zvočna moč - c) Parameter: Neto moč
    - Postopek meritve - e) Testiranje opravi
  - Proizvajalec:
  - Pooblaščen predstavnik, ki hrani tehnično dokumentacijo:
  - Upoštevanje harmonizirani standardi:
  - Ostali standardi:
- Kraj: \_\_\_\_\_ Datum: \_\_\_\_\_ Predsednik: \_\_\_\_\_ Podpis: \_\_\_\_\_

### EU samsvarserklæring

- Undertegnede, Takayoshi Fukai representerer produsenten og erklærer herved at produktet beskrevet nedenfor er i samsvar med relevante forskrifter i Maskindirektivet. Produktet samsvarer også med forskrifter vedr:
    - Rammedirektiv for utendørs støy:
    - EMC direktiv
  - Produktbeskrivelse:**
    - Felles benevnelse: Gressklipper
    - Funksjon: Klippe gress
    - Typ:
    - Serienummer:
  - Rammedirektiv om utendørs støy:**
    - Målt lyd effekt - b) Garantert lyd effekt - c) Støyparameter: Netto installert effekt
    - Valgt samsvarsprosedyre - e) Teknisk kontrollorgan
  - Produsent:
  - Autorisert representant/innhaver av teknisk dokumentasjon:
  - Referanse til harmoniserte standarder:
  - Øvrige nasjonale standarder eller spesifikasjoner:
- Sted: \_\_\_\_\_ Dato: \_\_\_\_\_ Formann: \_\_\_\_\_ Underskrift: \_\_\_\_\_

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