

FOREWORD

You are now the owner of a Honda generator: thank you for your confidence in us.

This manual has been written to help you to become familiar with your generator. We advise you to read it carefully before starting the machine so that you are aware of the precautions you need to take when using it; the manual also contains the information you need to carry out proper maintenance.

So that you benefit fully from our experience and from the latest developments in technology, equipment or materials, our models are regularly improved; for this reason the information contained in this manual is subject to change without notice and without any obligation to update it.

If a problem should arise, or if you have any questions about the generator, please contact your dealer or an approved Honda stockist.

Keep this manual to hand, so that you can consult it at any moment.

If the generator is re-sold, the manual should be included with it.

We recommend that you read the guarantee to understand your rights and responsibilities.

The guarantee is a separate document supplied by your dealer.

This Honda generator is designed to give safe and reliable service if operated in accordance with the instructions.

Before using the generator, please read the contents of this manual and make sure you have understood them. Failure to do so could result in injury to yourself and damage to the equipment.

SAFETY INSTRUCTIONS

To ensure your safety and the long life of the equipment, please pay particular attention when reading this manual to the sections preceded by the following headings:

WARNING :

Warning against risk of severe personal injury or death if instructions are not followed.

CAUTION:

• Warning against risk of personal injury or damage to equipment if instructions are not followed.

NOTE: Source of helpful information.

The model of your machine is indicated on its "identification label", by a series of letters and figure see page 2

 _____
Write down your machine's serial number here

Write down your machine's model here



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3RZD5603
00X3R-ZD5-6031

EC2000K2
EC3600K1
EC5000K1
ECT7000K1

0212
Printed in France

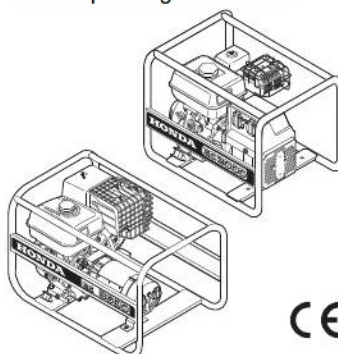


OWNER'S MANUAL

Original instructions

EC2000 - EC3600
EC5000- ECT7000

Lower power generator set



DISPOSING OF GENERATOR

(Applicable to Germany and Austria)

The symbol on the generator means that this product must not be treated as household waste. Instead it must be handed over to an applicable collection point for the recycling of generator.

Recycling will help to reduce the waste and radiant quantities of the harmful matter contained in the generator components, and thereby it will help prevent potential negative consequences for the environment and human health. Recycling of the material will help conserve the natural resources.

Please contact your local city office, your household waste disposal service or the shop where you purchased this product for the detailed information about recycling of this generator.

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ENGLISH

FRANÇAIS

DEUTSCH

ITALIANO

NEDERLANDS

ESPAÑOL

SAFETY INSTRUCTIONS

To ensure your safety and the long life of the equipment, please pay particular attention when reading this manual to the sections preceded by the following headings:

⚠ WARNING :

Warning against risk of severe personal injury or death if instructions are not followed.

SAFETY STICKERS

Your generator must be used with care. Therefore, decals have been placed on the machine, to remind you pictorially of main precautions to take during use. Their meaning is explained below.

These decals are considered as a part of the generator. Should one become detached or unreadable, contact your Honda dealer for its replacement.

We also strongly recommend you carefully read the safety



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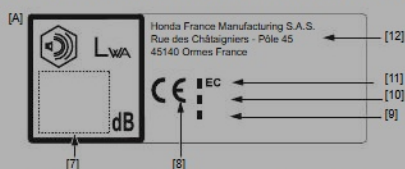
compliant with explosion proof.

- Do not touch rotating parts, the spark plug lead or the muffler when the generator is in operation.
Some parts of the internal combustion engine are hot and may cause burns. Pay attention to the warnings on the generator.
- A generator can cause electrocution when not used correctly; do not handle it with wet hands.
Do not get the generator wet or use it in the rain or snow.
- In cases where stand-by connection to existing electrical systems is intended, it shall only be performed by a qualified electrician in accordance with all laws and regulations in force in your country (*) for electrical installations. Improper connections to a building's electrical system can allow current from the generator to backfeed into the utility lines. Such backfeed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored. Consult the utility company or a qualified electrician prior to making any power connections.
- Electrical equipment (including lines and plug connections) should not be defective.
- Instructions for use relating to the safety of persons are given in the chapter entitled "GENERATING SET USE" in this manual. It is essential to refer to those instructions.
- If you work nearby an operating generator, we strongly recommend to wear some ear protectors.
- Using any attachments other than those recommended in this manual may cause damage to your generator and such damage will not be covered by your guarantee.

(*) Please contact our official distributor who will inform you about the applicable guidelines.

2 EN

IDENTIFICATION OF MACHINE



- Sound power level guaranteed according to the directives 2000/14/EC, 2005/88/EC
- Conformity mark according to the directives 2000/14/EC, 2004/108/EC, 2005/88/EC, 2006/42/EC
- Year of manufacture
- Serial number
- Model - Type
- Name and address of the manufacturer

GENERAL DESCRIPTION

(The illustrations in this presentation are based on F, GV, GVW, types).

EC2000



EC3600



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- [1] Fuel tank cap
- [2] Fuel tank
- [3] Recoil starter grip
- [4] Fuel valve
- [5] Choke lever
- [6] Earth braid
- [7] Spark plug cap
- [8] Oil filler cap / dipstick
- [8'] Oil filler cap (choice of [8] or [8'] as required)
- [9] Air cleaner
- [10] Label with list of specifications
- [11] Muffler
- [12] Thermal circuit breakers

- [13] Engine oil drain plug
- [14] Engine switch
- [15] Voltage selector switch 115 / 230V, B type
- [16] Receptacles 230 V / 16 A (blue) B, IT types
- [17] Receptacles 230 V / 16 A (black) F type, (blue) GV, GVW, IT types
- [18] Receptacles 230 V / 10 A (black) W type
- [19] Receptacles 115 V / 16 A (yellow) B type
- [20] Receptacles 115 V / 32 A (yellow) B type
- [21] Receptacles 230 V / 16 A (blue) F, GV, GVW, RG types
- [22] Receptacles 400 V / 16 A (red) J, F, GV, GVW, IT, RG types
- [23] Receptacles 230 V / 32 A (blue) IT, F types
- [24] Earth terminal
- [A] "Serial number" identification plate

PRE-OPERATION CHECK

WARNING:

To carry out this series of checks, place the generator on stable and horizontal ground, with the engine off and the spark plug cap removed.

Be careful not to touch the hot metallic parts of the engine when checking the oil level.

CHECKING THE OIL LEVEL

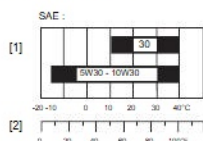
CAUTION:

- The engine oil is an important factor which affects the engine's performance and its operational life.
- Running the engine with insufficient oil can seriously damage the engine.
- Use of non-detergent or vegetable oils is not recommended.

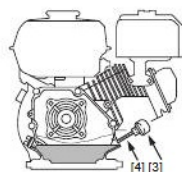
Use Honda 4-stroke oil or a highly detergent engine oil of equivalent quality, classified as API categories SE, SF, SG, SH. SAE 10W30 oil is recommended for general use at all temperatures, but it is suggested that a viscosity appropriate to the average temperature in the area of use is chosen from the table.

[1] Multigrade

[2] Ambient temperature



- Remove the oil filler cap [3] and wipe the dipstick [4] with a clean cloth.
- Insert the dipstick into the filler hole without screwing it in.
- If the level is too low, add the recommended oil until the level reaches the top of the filler neck.



CHECKING THE PETROL LEVEL

WARNING:

Do not fill the tank above the red mark [5] located in the filling port. After filling up, check that the fuel tank cap is properly and fully screwed in.

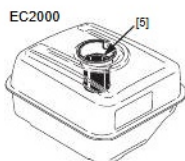
DO NOT LEAVE PETROL WITHIN THE REACH OF CHILDREN.

CAUTION:

- Never use a gas-oil mixture.
- Only use unleaded petrol 95 or 98.
- Take care to ensure that no dirt or water gets in the fuel 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. Capacity of fuel tank.

Capacity of fuel tank:

EC2000: 3.3 l / EC3600: 5.3 l / EC5000 - ECT7000: 6.2 l



FUEL CONTAINING ALCOHOL

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.



NOTE: 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.

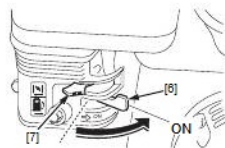
STARTING THE ENGINE

CAUTION:

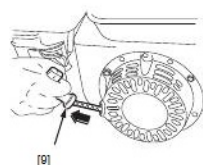
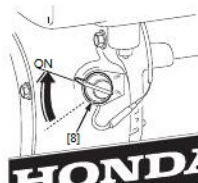
- Check that no appliances are connected to the generator receptacles.

- Turn the fuel valve "ON" [8] (direction of the arrow "ON"), close the choke by turning the lever [7] towards the symbol.

NOTE: Do not use the choke when the engine is warm or the ambient temperature is high.



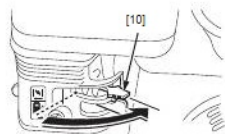
- Turn the engine switch "ON" [8].
- Pull the starter grip [9] lightly until resistance is felt, then give a sharp tug. This precaution is necessary to reduce the dangers of injury caused by the sudden change of rotation resistance of the engine starter.



CAUTION:

- Do not allow the starter grip to fly back against the engine; bring it back gently to avoid damaging the starter.
- Never use starting additives composed of flammable and volatile substances which might cause an explosion on starting the engine.

- As the engine begins to warm up, bring the choke lever [10] gradually round to the position on the opposite side to the symbol.



HIGH ALTITUDE OPERATION

At high altitude, the carburettor air / petrol mixture is very rich, causing a drop in engine performance and an increase in fuel consumption.

When using the generator at an altitude of over 1 800 metres above sea level, a smaller diameter jet needs to be fitted to the carburettor and the mixture screw adjusted. This must be carried out by your Honda dealer.

In spite of a proper adjustment to the fuel system, engine power will still decrease by 3.5 % for every 300 metres increase in altitude.



GENERATING SET USE

Your Honda generator is a reliable piece of equipment, developed to ensure your safety. It can help you carry out work more easily and bring improvements to your leisure time, but there is also a risk of electrocution if you do not follow strictly the instructions for use given in this chapter.

The generator produces enough electric power to cause a serious shock or electrocution if misused. Be sure to ground the generator [1] when the connected appliance is grounded.

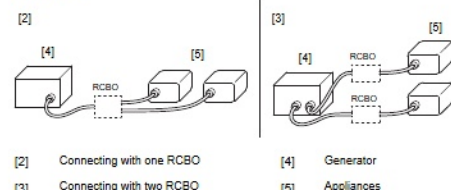
To ground the terminal of the generator, use a copper wire with same or larger diameter than the cord of the connected appliance.

Use extension cord set with ground conductor when connecting an appliance with ground conductor.

To identify the Ground pin in the plug, see "Receptacle" page 6.

Connect a RCBO (Residual current circuit breaker with overload protection) of 30 mA ground fault detection and cut-off of less than 0.4 seconds at more than 30 A of out put current, if you are using two or more appliance.

Follow the instructions provided by each RCBO manufacturer before use.



⚠ WARNING :

- Improper connections to a building's electrical system can allow current from the generator to backfeed into the utility lines. Such backfeed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored. Consult the utility company or a qualified electrician prior to making any power connections.
- Do not connect any appliances to the receptacles before starting the generator.
- Do not alter the internal wiring of the generator.
- Do not alter the engine settings: the voltage and frequency of the generator output are directly linked to the engine speed; these settings are adjusted in the factory.
- Only connect appliances in good working order: most portable electrical tools are Class II (double insulation). Equipment that does not meet this standard (tools with metallic casing) has to be powered via 3 conductor cable (with an earth conductor) to ensure correct earthing in the event of an electrical fault.
- Supply only machines whose voltage, as specified on their rating plates, corresponds to that produced by the generator.
- Due to high mechanical stresses only tough rubber-sheathed flexible cable (in accordance with IEC 245-4) or the equivalent should be used.

- The generator meets the protective measure "electrical separation with equipotential bonding" as stated in the IEC 60364-4-41: dec 2005 §413. (and VDE0100 part 728).
- The used power system is the IT system
 - with neutral conductor N (for 3 phase machine) and
 - non earthed equipotential bonding conductor PE, connecting all exposed conductive parts of the generator together.
- Earthing of the generator is for the proper function of this protective measure not required.
- Only connect appliances in good working condition; most portable electrical tools are Class II (double insulation). Equipment that do not meet this standard (tools with metallic casing) have to be powered via 3-conductor cable (equipotential conductor PE conductor).
- If the neutral conductor shall be earthed anyway, this may only be performed by a professional electrician, implementing the additional safety devices required together with the new protective measure (cf. IEC 364-4-41).
- Electric extension cables must be carefully selected, fitted and maintained. Good condition insulators will ensure the safety of the user. Cables must be inspected regularly; they should be replaced, and not repaired, in the event of a defect. Choose the length and cross-section of the extension cables according to the work to be done (see table below for indications).

Cable (mm ²)	Max. Length (m)	Current (A)	Single-phase (kW) (Cos φ = 1)	Three-phase (kW) (Cos φ = 0,8)
1.5	25	10	2.3	5.5
2.5	40	16	3.7	8.8
4	60	28	6.5	15.5

- Value for an admissible voltage drop on-line of 7 V and an admissible current of 7 A per mm² of cable section:
 - ambient temperature: 20° C,
 - completely unwind the cable to avoid deterioration of the insulation by over-heating,
 - comply with the cable manufacturer's instructions.
- This generator is not recommended for use with electronic apparatus, such as televisions, hi-fis, or microcomputers, which might not be compatible with it.
- Avoid overloading the generator; the following rules must be respected if the generator is to perform properly:
 - the sum of the power outputs of the machines connected simultaneously to the generator must be compatible with the characteristics given in the page 14 of this manual,
 - some appliances draw more power when starting up than their nominal power rating (electric motors and compressors are examples). We recommend that you contact a Honda dealer in case of doubt,
 - do not exceed the maximum current specified for each receptacle.
- The generator must not be loaded to its nominal power if conditions are such that the normal cooling requirements are not met (atmospheric pressure: 100 kPa [1 bar]).
- When using the generator in unfavourable conditions, take care to reduce the power load.
Example: 28 A* (* limited to x A by the circuit breaker).

INFORMATION ON THE CONSTRUCTION OF THE GENERATOR

- The generator windings are not connected to the earth; the system is thus safe by construction and limits the risks of electrocution. It is strictly forbidden to connect the coils to the generator earth, except when using a 30 mA differential circuit breaker for the protection of persons. The installation of such a device must be carried out by a specialist electrician and requires all appliances to be earthed.
- The differential circuit breaker acts as a check against faulty insulation. It cuts off the power when there is a detectable fault in the insulation between a voltage-bearing conductor and any part of the earth, on the output side of the differential circuit breaker.

ECT7000 (230 / 400 V)

- The two 230 V single-phase receptacles are connected in parallel to the terminals of a winding specially reinforced to withstand a current of 20 A. The single-phase 230 V power output given on the rating plate, and also indicated in the table of characteristics, is available only on these receptacles and when no other three-phase load is connected to the generator outputs. Never connect the generator three-phase receptacle to a singlephase splitter box.
- When using simultaneously 230 V single-phase and 400 V three-phase current, the current intensity per phase must not exceed 10 A.

Ex: Power available from receptacles for simultaneous three-phase and single-phase use.

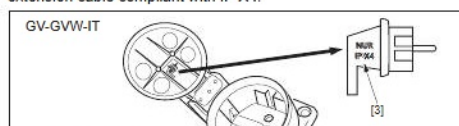
Three-phase	0	3000 W	4000 W	5000 W	6000 W	7000 W
Single-phase 4000 W	1300 W	950 W	650 W	300 W	0	

- This type of generator is fitted with a thermal circuit breaker which acts as a protection against overload. If the distribution of electric current is interrupted during use, this might be caused by an overload tripping the thermal circuit breaker. If this happens, wait a few moments, eliminate the cause of the overload, then reset the circuit breaker by pressing the button [1] sited near to the AC receptacles. The thermal circuit breaker is rated according to the specifications of the machine, if it needs replacing, use an original Honda component.

RECEPTACLES

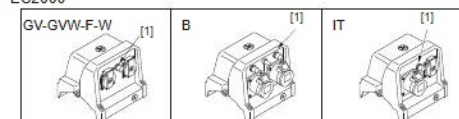
⚠ WARNING :

When an extension cable is used equipped with a angled plug, be sure to use a tough rubber sheathed flexible cable and a extension cable compliant with IP X4.

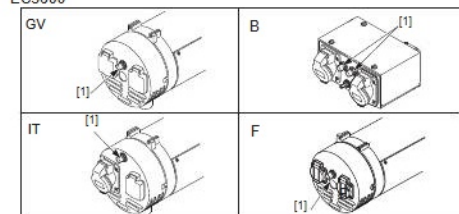


[3] Angled plug - IP X4 only

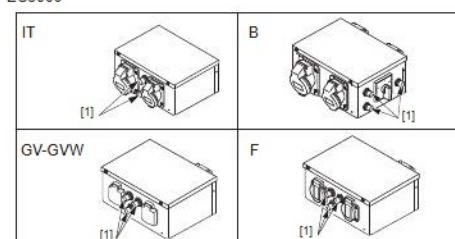
EC2000



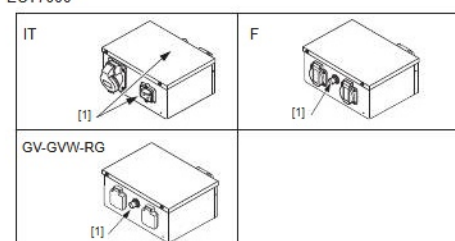
EC3600



EC5000



ECT7000

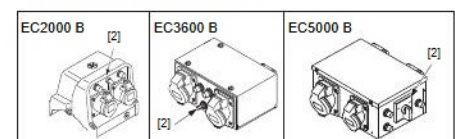


Types	Shape	Plug
B		
F		
GV, GVW, RG		
IT, W		

OPERATION

NOTE: Do not use the voltage change over switch while the alternator is on load. This may create a failure of the switch.

- Models EC2000 B, EC3600 B, EC5000 B: select the appropriate voltage using the voltage selector [2].



- Connect machines to the receptacles, taking care not to exceed the maximum current specified for each receptacle.
- Ensure that the circuit breaker is reset.

⚠ WARNING :

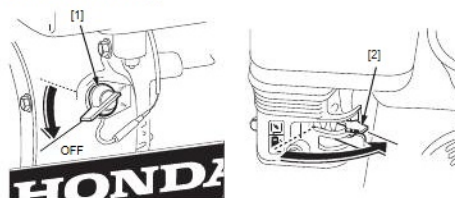
- Do not connect any appliances to the receptacles before starting the generator.
- Do not alter the internal wiring of the generator.
- Do not alter the engine settings: the voltage and frequency of the generator output are directly linked to the engine speed; these settings are adjusted in the factory.

OIL ALERT SYSTEM

The oil alert system is designed to prevent any risk of damage to the engine caused by insufficient oil in the crankcase. As soon as the oil level drops below the safe limit, the oil alert system automatically shuts down the engine (the engine switch remains in the "ON" position). Use of the starter will not restart the engine until the oil level has been topped up.

STOPPING THE ENGINE

1. Disconnect all appliances connected to the generator receptacles.
2. Turn the engine switch "OFF" [1].
3. Close the fuel valve [2].



The generator performance will also suffer when used at an altitude below that for which the fuel system has been adjusted; a too weak petrol / air mixture will result in the engine overheating and possibly suffering serious damage.

MAINTENANCE**⚠ WARNING :**

The engine and the muffler reach temperatures sufficient to cause burns if touched and to start a fire if adjacent to inflammable material. Allow the engine to cool before carrying out any maintenance.

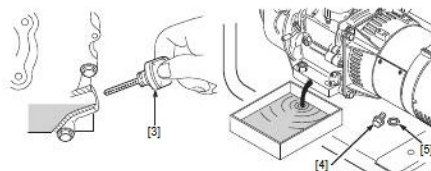
CAUTION:

- Only use original Honda parts. Parts that do not meet the Honda design specifications can cause damage to the generator.

ENGINE OIL CHANGE**CAUTION:**

- Prolonged and frequent contact with used engine oil can cause skin cancer. Although this is unlikely, it is sensible to wash your hands thoroughly after handling used engine oil.
- Drain the oil while the engine is still warm so that the oil flows out quickly and completely.

1. Remove the oil filler cap [3] and the drain plug [4].
2. Drain the oil in an appropriate container.
3. Put the drain plug [4] back on, complete with its ring seal [5] and tighten fully.
4. Refill with a recommended oil (see page 4) type and check that the oil is level with the filler neck.

**Oil capacity:**

EC2000 : 0,6 □□/DEC3600 - EC5000 - ECT7000 : 1,1 □

NOTE: Protection of the environment: Waste oil is a serious source of pollution of our environment; we strongly recommend that you take it in a leak-proof container to a service station or a waste disposal site, which will recycle it. Do not throw oil away with household waste, and do not dispose of it by pouring it away on the ground or down the drain.

AIR CLEANER MAINTENANCE

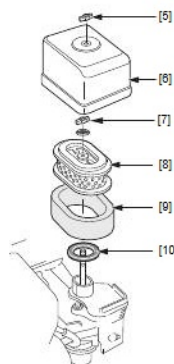
The engine will not run properly if the air cleaner is dirty: it is very important that the air cleaner is serviced regularly.

⚠ WARNING :

Never use petrol or inflammable solvents to clean air cleaner elements: these products can cause fire and damage the air cleaner elements.

EC2000

1. Remove the wing nut [5] and the air cleaner cover [6]. Remove the wing nut [7] and remove the elements [8] and [9] and separate them. Check carefully that the elements are not torn or blocked; replace them if they are damaged.
2. **Paper element [8]:** Tap the element lightly several times on a hard surface to get rid of any loose dirt, or blow through with compressed air from the inside towards the outside. Never brush the element, as this causes impurities to penetrate the fibres. Replace the paper element if it is very dirty.
3. **Foam element [9]:**
 - wash the element in a solution of warm water containing non-foaming household detergent, rinse it and allow it to dry thoroughly.
 - dip the element in clean engine oil, then squeeze it to remove excess oil. If too much oil is left in the foam, the engine will smoke the next few times it is started.
4. Refit the ring seal [10], the air cleaner elements [8] and [9] the wing nut [7], and the cover [6] and tighten the wing nut [5] fully.

**CAUTION:**

- Do not use the generator without its air cleaner, as this can damage the engine.

EC3600 / EC5000 / ECT7000

1. Remove the wing nut [1] and the air cleaner cover [2]. Remove the wing nut [5], remove the elements [3] and [4] and separate them. Check carefully that the two elements are not torn or blocked; replace them if they are damaged.

2. Paper element [3]: Tap the element lightly several times on a hard surface to get rid of any loose dirt, or blow through with compressed air from the inside towards the outside. Never brush the element, as this causes impurities to penetrate the fibres. Replace the paper element if it is very dirty.

3. Foam element [4]:

- wash the element in a solution of warm water containing non-foaming household detergent, rinse it and allow it to dry thoroughly, or clean it in a nonflammable solvent and allow it to dry thoroughly,
- dip the element in clean engine oil, then squeeze it to remove excess oil. If too much oil is left in the foam, the engine will smoke the next few times it is started.

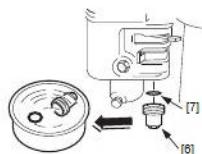
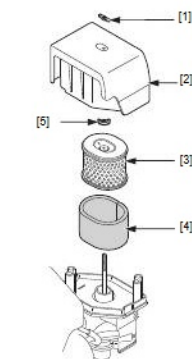
4. Refit the air cleaner element [3] and [4] the wing nut [5], and the cover [2] and tighten the wing nut [1] fully.

CAUTION:

- Do not use the generator without its air cleaner, as this can damage the engine.

CLEANING THE SEDIMENT CUP

Close the fuel valve. Remove the cup [6] and the Oring [7] and wash them in a non-flammable solvent. Dry them thoroughly and refit them. Open the fuel valve and check that there is no fuel leakage.



CHECKING THE SPARK PLUG

Recommended sparking plugs:

BPR6ES (NGK), W20EPR-U (NIPPONDENSO Co., Ltd.)

CAUTION:

- Only use the recommended type of spark plug.
- The use of plugs with an incorrect rating can cause damage to the engine.

WARNING:

If the engine has been running, do not touch the muffler or the spark plug as you risk burning yourself.

1. Remove the cap and unscrew the spark plug using a spark plug spanner.
2. Examine the spark plug carefully, and replace it if there are thick deposits on the electrodes or if the insulator is cracked or broken. Clean the spark plug with a wire brush.
3. Measure the gap between the electrodes with a set of feeler gauges: it must be between 0.7 and 0.8 mm. If the gap has to be adjusted, bend the side electrode carefully.
4. Check the state of the sealing washer, then thread the plug back in by hand until it is hand-tight and seated properly.
5. Using a spark plug spanner, screw the plug in an extra 1/2 turn for a new spark plug, to compress its washer, or between 1/8 and 1/4 turn in the case of a plug being reused. Put the spark plug cap back on.

0.7 ~ 0.8 mm

**CAUTION:**

- The spark plug must be properly tightened or else it is likely to overheat considerably, causing damage to the engine.

8 EN

MAINTENANCE SCHEDULE

To ensure that the generator performs correctly and has a long working life, it is essential that the maintenance schedule be observed.

Item	Intervention	Frequency				
		On each use	1st month or after 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Every year or 300 hours
Engine oil	Check level					
	Change		(3)		(3)	
Air cleaner element	Change					
	Check					
	Clean			(1)		
Sediment cup	Clean					
Spark plug	Clean / Adjust				(3)	
Combustion chamber and valves	Clean		After every 500 hours (2)			
Valve clearance	Check / Adjust					(2)
Fuel tank and filter	Clean					(2)
Fuel line	Check		Every 2 years (replace if necessary) (2)			
Spark arrester	Check			(3)		
	Clean				(3)	

(1) Clean more often if used in a dusty environment.

(2) These operations must be carried out by a Honda dealer.

(3) In Europe and other countries where the machinery directive 2006/42/EC is enforced, this cleaning should be done by your servicing dealer.

TROUBLESHOOTING

Problem	Probable cause	Page
Engine will not start.	1. The engine switch is "OFF".	4
	2. The fuel valve is closed or there is no petrol in the tank.	4
	3. The engine oil level is too low.	7
	4. The spark plug is faulty or the gap between the electrodes is incorrect.	8
	5. Electrical appliances are connected to the receptacles.	-
The engine is difficult to start or is losing power.	1. The air cleaner is dirty.	7
	2. There are impurities in the fuel system or the petrol filter is dirty.	8
	3. The fuel tank cap vent hole is blocked.	-
No current from the receptacles.	1. The thermal circuit breaker has not been reset.	8
	2. The equipment connected to the generator is faulty.	-

If you fail to solve the problem, contact your Honda dealer.

TRANSPORT AND STORAGE

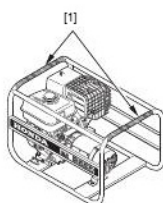
TRANSPORT THE GENERATOR

WARNING:

Before transporting the generator make sure that the engine switch is set to "OFF". During transport, always keep the generator level and the fuel valve closed to avoid any risk of leakage of fuel.



[1] Handle for transportation



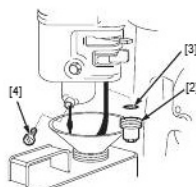
According to EUROPEAN STANDARD EN 12601 : 2010, carrying the generating set is considered that a 140 kg set should be provided with the means of carrying by 4 persons.

STORAGE FOR AN EXTENDED PERIOD

1. Ensure that the storage area is not damp or dusty.

2. Drain the fuel:

- Close the fuel valve and remove and empty the sediment cup [2].
- Open the fuel valve ("ON" position). Drain the petrol in the fuel tank, collecting it in a suitable container.
- Refit the O-ring [3] and tighten the sediment cup [2] securely.
- Drain the carburettor by undoing the drain screw [4], collecting the petrol in a suitable container.



3. Change the engine oil (see page 7).

4. Remove the spark plug and tip a spoonful of clean engine oil into the cylinder. Turn the engine gently using the starter grip, in order to spread the oil out. Pull the starter slowly until a resistance is felt. This closes the valves and protects them from dust and corrosion.

After spark plug is seated, lighten with a spark plug wrench to compress the washer.

NOTE: Environment protection: Contaminated petrol is a major source of pollution for the environment. It is therefore strongly recommended that it should be placed in a sealed container and taken to a service station or waste disposal plant for recycling. Petrol must not be disposed of along with household waste, poured onto the ground, or poured into sewers or rainwater drains.

FUEL STORAGE

NOTE:

- Petrol will oxidize and deteriorate in storage. Old petrol will cause hard starting, and it leaves gum deposits that clog the fuel system. If the petrol in your engine deteriorates during storage, you may need to have the carburetor and other fuel system components serviced or replaced.
- Ensure that you use containers or drums specifically designed for hydrocarbons [5]. This will prevent polluting the fuel through the dissolution of the container walls, which will lead to poor functioning of the engine.



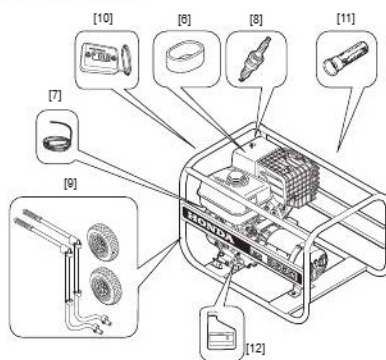
- Store the fuel in a dark place, in a room at constant temperature (avoid garden sheds).
- The warranty does not cover a blocked carburetor or valves jammed by old or polluted fuel.
- The quality of unleaded petrol alters very quickly (2 to 3 weeks in some cases). Do not use fuel more than 1 month old. Store the absolute minimum required for your monthly consumption.

USEFUL INFORMATION

FIND AN APPROVED DEALER

Please refer to the European Internet site:

<http://www.honda-eu.com>



CURRENT PARTS, OPTIONAL ACCESSORIES AND CONSUMABLES

To buy one of the original parts listed below, or any other part, please contact an approved Honda reseller.

	EC2000	EC3600	EC5000 ECT7000
Current parts			
[6] Air cleaner - Foam	17218-ZE1-821	17218-ZE3-000	17218-ZE3-000
[7] Recoil starter	28462-ZH8-003	28462-ZE2-W11	28462-ZE3-W01
[8] Spark plug (NGK BPR8ES)	98079-56876		
Optional part			
[9] Wheel kit	08174-ZL8-000HE		
[10] Usage meter / Tachometer	08174-ZL8-000HE		
[11] Spark arrester	18355-ZE1-000	-	
Consumables			
[12] Oil for 4-stroke engines, SAE 10W30	08221-888-100HE 0.6 []	08221-888-080HE 1.1 []	

WARNING:

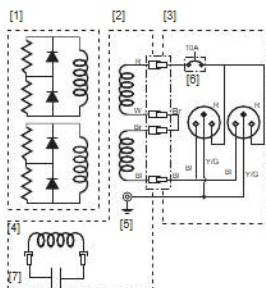
For your safety, it is strictly prohibited to install any other attachment than the ones listed above and especially designed for your generator model and type.



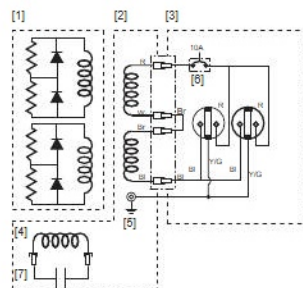
WIRING DIAGRAMS

EC2000

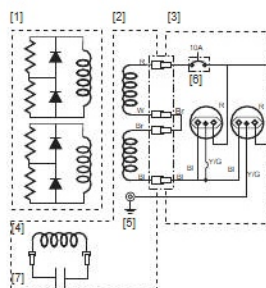
F



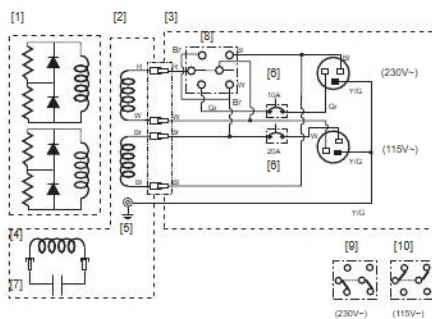
GV, GVW



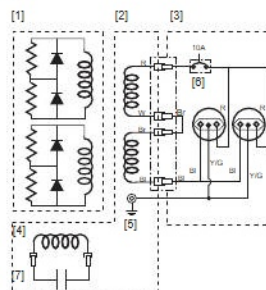
IT



B



W

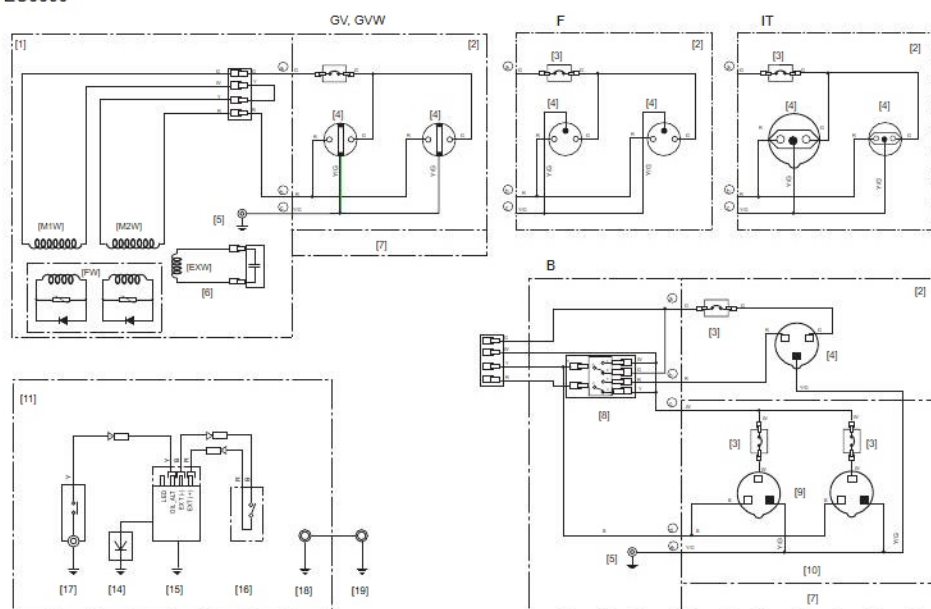


- [1] Rotor
- [2] Stator
- [3] Socket box
- [4] Field coil
- [5] Ground
- [6] Circuit breaker
- [7] Condensor
- [8] Switch (115 V~ / 230 V~)
- [9] Switch in 230 V~ position
- [10] Switch in 115 V~ position

Wiring color codes

Br	Brown
G	Green
Gr	Grey
Bl	Blue
R	Red
W	White
Y	Yellow

EC3600



- [1] Generator block
- [2] AC outlet
- [3] Thermal circuit breakers
- [4] Receptacle 230 V / 16 A (blue)
- [5] Earth terminal
- [6] Capacitor 22 μ F
- [7] Control box block
- [8] Voltage selector switch 115 / 230V
- [9] Receptacle 115 V / 16 A (yellow)
- [10] AC outlet 115 V

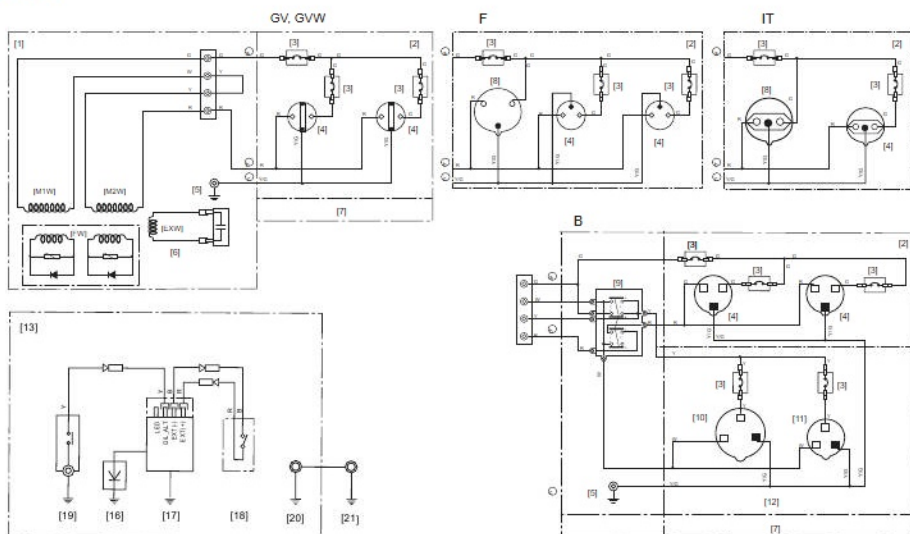
[M1W] [M2W] Stator winding
 [EXW] Excitation winding
 [FW] Field winding

- [11] Engine block
- [12] Tr-mag unit
- [13] Oil alert unit
- [14] Spark plug
- [15] Ignition coil
- [16] Engine switch
- [17] Oil level switch
- [18] Engine earth
- [19] Frame earth

Wiring color codes

B	Black
Bl	Blue
G	Green
R	Red
W	White
Y	Yellow
Y/G	Yellow / Green

EC5000



- [1] Generator block
- [2] AC outlet
- [3] Thermal circuit breakers
- [4] Receptacle 230 V / 16 A (blue)
- [5] Earth terminal
- [6] Capacitor 35 μ F
- [7] Control box block
- [8] Receptacle 230 V / 32 A (blue)
- [9] Voltage selector switch 115 / 230V
- [10] Receptacle 115 V / 32 A (yellow)
- [11] Receptacle 115 V / 16 A (yellow)

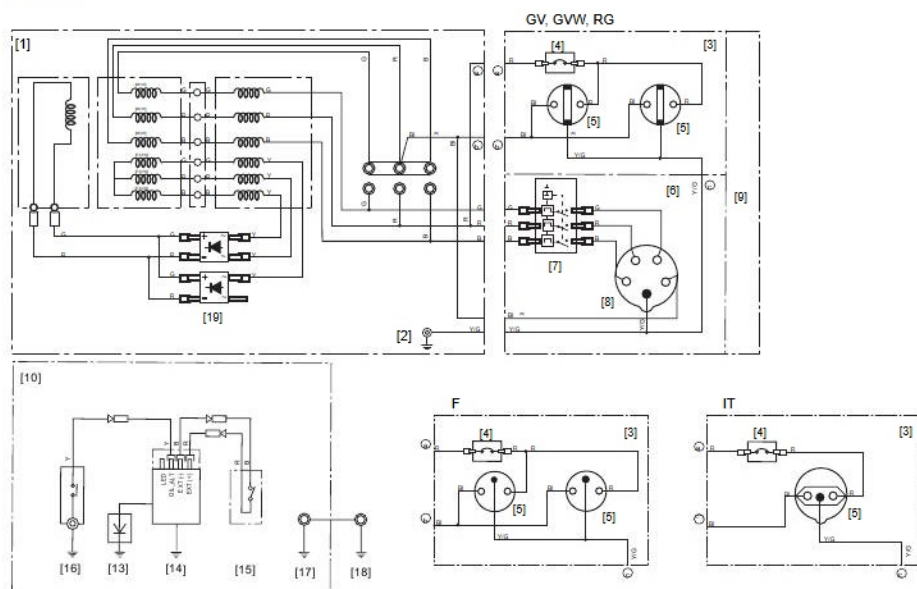
- [12] AC outlet 115 V
- [13] Engine block
- [14] Tri-mag unit
- [15] Oil alert unit
- [16] Spark plug
- [17] Ignition coil
- [18] Engine switch
- [19] Oil level switch
- [20] Engine earth
- [21] Frame earth

[M1W] [M2W] Stator winding
 [EXW] Excitation winding
 [FW] Field winding

Wiring color codes

B	Black
Bl	Blue
G	Green
R	Red
W	White
Y	Yellow
Y/G	Yellow / Green

ECT7000



- [1] Generator block
 [2] Earth terminal
 [3] AC outlet 230 V
 [4] Thermal circuit breakers
 [5] Receptacle 230 V / 16 A (blue)
 [6] AC outlet 400 V
 [7] Protector switch 400 V / 10 A
 [8] Receptacle 400 V / 16 A (red)
 [9] Control box block
 [10] Engine block

[M1W] [M2W] [M3W] Stator winding
 [EX1W] [EX2W] [EX3W] Excitation winding

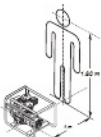
- [11] Tr-mag unit
 [12] Oil alert unit
 [13] Spark plug
 [14] Ignition coil
 [15] Engine switch
 [16] Oil level switch
 [17] Engine earth
 [18] Frame earth
 [19] Diodes
 (N) Neutral

Wiring color codes

B	Black
B1	Blue
G	Green
R	Red
W	White
Y	Yellow
Y/G	Yellow / Green

TECHNICAL SPECIFICATIONS

DIMENSIONS AND WEIGHTS		EC2000		EC3600		EC5000		ECT7000	
TYPES		F-GV-GVW-W-IT	B	F-GV-GVW-IT	B	B-F-GV-GVW-IT		F-GV-GVW-IT-RG	
L x W x h (overall)	mm	585 x 435 x 440		800 x 550 x 540		800 x 550 x 540			
Dry weight	kg	36		58		75		77	
Tank capacity	□	3.3		5.3		6.2			

GENERATOR		EC2000		EC3600		EC5000		ECT7000	
TYPES		F-GV-GVW-W-IT	B	F-GV-GVW-IT	B	F-GV-GVW-IT	B	F-GV-GVW-IT-RG	
Code description		EABF		EZDJ		EZDL		EZDP	
Function		Producing electrical power							
Phase		Single							Three-phase
Rated voltage	V	230	115/230	230	115/230	230	115/230	230	400
Rated frequency	Hz	50							
Rated current	A	7.5	15/7.5	15	30/15	19.5	19.5/39	16	9.5
Rated output	kVA	1.7		3.4		4.5		3.6	6.5
Maximum output	kVA	2.0		3.6		5.0		4.0	7.0
Sound pressure level at operator's ears 		In accordance with directive 2006/42/EC							
	dB(A)	81		83				82	
Measuring uncertainty	dB(A)	1							
Sound power level guaranteed		In accordance with directives 2000/14/EC, 2005/88/EC							
	dB(A)	95		96		97			
Sound power level measured		In accordance with directives 2000/14/EC, 2005/88/EC							
	dB(A)	92		95		97		96	
Measuring uncertainty	dB(A)	1							

The figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of work-force include the characteristics of the work room, the other sources of noise, etc. i.e. the number of machines and other adjacent processes, and the length of time for which an operator is exposed to the noise. Also the permissible exposure level can vary from country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

ENGINE		EC2000		EC3600		EC5000 - ECT7000	
Model		Petrol engine GX160T2		Petrol engine GX270T2		Petrol engine GX390T2	
Engine type		4-stroke, 1 cylinder, overhead valves					
Displacement (bore x stroke)		cc mm	163 (68 x 45)	270 (77 x 58)		389 (88 x 64)	
Compression ratio		8.5 : 1				8.0 : 1	
Engine speed		rpm	3 000				
Cooling system		Forced air					
Ignition system		Flywheel magneto					
Oil capacity (see page 4)		□	0.6	1.1			
Spark plug		BPR6ES (NGK) - W20EPR-U (NIPPONDENSO Co., Ltd.)					
Fuel consumption		□/h	1.2	2.32		2.7	2.8

INTRODUCTION

CONSIGNES DE SÉCURITÉ

▲ ATTENTION :

PRÉCAUTION :

HONDA
POWER EQUIPMENT

Vous vous invitez à prendre contact avec votre municipalité, le service chargé de l'élimination des déchets de votre lieu de résidence ou le commerçant chez qui vous avez acheté ce produit pour toutes informations détaillées quant au recyclage de ce groupe électrogène.

CONSIGNES DE SÉCURITÉ

Pour garantir votre sécurité et la longévité du matériel, nous vous invitons à prêter toute votre attention, lors de la lecture de ce manuel, aux rubriques précédées des mentions suivantes :

ATTENTION :

Mise en garde contre un risque de blessures corporelles graves ou même de mort, en cas de non observation des instructions.

PRÉCAUTION :

Mise en garde contre un éventuel risque de blessures corporelles ou d'endommagement du matériel, en cas de non-observation des instructions.

NOTE : Source d'informations utiles.



Ce signe vous appelle à la prudence lors de certaines opérations. Se reporter aux consignes de sécurité des pages suivantes, au(x) point(s) indiqué(s) dans le carré.

- Il est impératif de savoir arrêter le groupe électrogène rapidement et de connaître le fonctionnement de toutes les commandes. Ne jamais permettre d'utiliser le groupe électrogène à une personne non familiarisée aux instructions.
- Ne pas laisser s'approcher les enfants de moins de quatorze ans et les animaux du groupe électrogène lorsqu'il est en fonctionnement.
- Effectuer systématiquement les vérifications d'usage avant de mettre en marche le groupe électrogène, afin d'éviter un accident ou des dommages à l'équipement.
- Placer le groupe électrogène à au moins 1 mètre des bâtiments ou équipements lorsqu'il doit être utilisé.
- Ne pas faire fonctionner le moteur dans un local clos ; les gaz d'échappement contiennent du monoxyde de carbone, un gaz mortel et sans odeur. Lorsque le groupe électrogène est placé dans un local ventilé, les exigences supplémentaires relatives à la protection contre les risques d'incendie et d'explosion doivent être observées.
- Faire fonctionner le groupe électrogène sur une surface horizontale. De l'essence peut se renverser lorsque le groupe électrogène est incliné.
- L'essence est une substance extrêmement inflammable qui peut exploser dans certaines conditions. Conserver le carburant dans des récipients spécialement destinés à cette utilisation. Ne pas stocker l'essence ou la machine contenant de l'essence dans un endroit à risque. Ne pas fumer pendant la manipulation du carburant ou approcher de flammes vives près du groupe électrogène. Faire le plein dans un endroit bien aéré. Ne jamais ouvrir le réservoir de carburant moteur en marche ou encore chaud. Si de l'essence s'est répandue, déplacer la machine, attendre l'évaporation complète et la dissipation des vapeurs avant de démarrer le moteur. Après utilisation du groupe électrogène, fermer le robinet de carburant. Éviter tout contact répété ou prolongé avec la peau ainsi que toute inhalation des vapeurs d'essence. L'huile pour moteur et l'essence sont des produits toxiques et inflammables. Prenez garde de ne pas en renverser. En cas d'incendie du groupe électrogène, ne pas verser d'eau directement dessus. Utiliser un extincteur d'incendie approprié spécialement conçu pour les incendies électriques ou d'huile. Suivre les instructions fournies par chaque fabricant d'extincteurs avant l'utilisation. Ce générateur n'est pas conforme aux normes de protection contre les explosions.
- Ne pas toucher aux pièces en rotation, au fil de bougie et au pot d'échappement lorsque le groupe électrogène est en fonctionnement. Certaines parties du moteur à combustion interne sont chaudes et peuvent entraîner des brûlures. Bien observer les avertissements sur le groupe électrogène.
- Un groupe électrogène représente un danger potentiel d'électrocution lorsqu'il n'est pas utilisé correctement. Ne pas le manipuler avec les mains mouillées. Ne pas faire fonctionner le groupe électrogène sous la pluie ou dans la neige et ne pas le mouiller.
- Dans les cas où l'on souhaite établir une connexion de réserve à des systèmes électriques existants, celle-ci ne devra être exécutée que par un électricien qualifié, dans le respect de toutes les lois et réglementations en vigueur dans votre pays (*) pour les installations électriques. Une erreur de connexion au système électrique du bâtiment peut provoquer un retour de courant du générateur dans les lignes du réseau. Ce retour peut électrocuter les agents de la compagnie d'électricité ou toute autre personne qui toucherait les lignes lors d'une coupure d'alimentation ; de plus, le générateur peut exploser, s'enflammer ou provoquer un incendie lorsque l'alimentation est restaurée. Consultez la compagnie d'électricité ou un électricien qualifié avant toute connexion électrique.
- L'équipement électrique (y compris les fils et les prises) doit être sans défaut.
- Des conseils d'utilisation relatifs à la sécurité des personnes sont traités dans le chapitre "UTILISATION" de ce manuel. Il convient de s'y référer impérativement.
- Si vous travaillez à proximité d'un groupe électrogène en fonctionnement, nous vous conseillons vivement de porter un casque antibruit ou autre protection auditive.
- L'utilisation d'accessoires autres que ceux recommandés par Honda peut occasionner des dommages sur votre groupe électrogène qui ne seront pas couverts par votre garantie.

(*) Prenez contact avec votre distributeur officiel qui vous informera de toutes les normes applicables.

ÉTIQUETTES DE SÉCURITÉ

Votre groupe électrogène doit être utilisé avec prudence. Dans ce but, des étiquettes destinées à vous rappeler les principales précautions d'utilisation ont été placées sur l'appareil sous forme de pictogrammes. Leur signification est donnée ci-après.

Ces étiquettes sont considérées comme partie intégrante de l'appareil. Si l'une d'entre elles se détache ou devient difficile à lire, contactez votre concessionnaire pour la remplacer.

Nous vous recommandons également de lire attentivement les consignes de sécurité données au chapitre suivant du présent manuel.



[1]



[2]



[3]



[4]



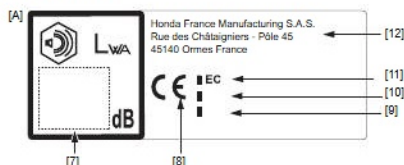
[5]



[6]

- Une erreur de connexion au système électrique du bâtiment peut provoquer un retour de courant du générateur dans les lignes du réseau. Ce retour peut électrocuter les agents de la compagnie d'électricité ou toute autre personne qui toucherait les lignes lors d'une coupure d'alimentation ; de plus, le générateur peut exploser, s'enflammer ou provoquer un incendie lorsque l'alimentation est restaurée. Consultez la compagnie d'électricité ou un électricien qualifié avant toute connexion électrique.
- ATTENTION : Lire le manuel d'utilisateur avant utilisation.
- Le moteur dégage du monoxyde de carbone qui est un gaz toxique. Ne jamais le faire fonctionner dans un endroit clos.
- Toujours laisser le moteur refroidir avant de stocker la machine à l'intérieur.
- L'essence est très inflammable et explosive. Avant de faire le plein de carburant, arrêter le moteur et le laisser refroidir.
- ATTENTION : Dès le démarrage, le pot d'échappement devient très chaud et le reste après l'arrêt du moteur.

IDENTIFICATION DE LA MACHINE



- Niveau de puissance acoustique garanti selon les directives 2000/14/EC, 2005/88/EC
- Marquage de conformité selon les directives 2000/14/EC, 2004/108/EC, 2005/88/EC, 2006/42/EC
- Année de fabrication
- Numéro de série
- Modèle - Type
- Nom et adresse du constructeur