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Honda EM25-EM30

OWNER'S MANUAL



ECOLOGY CONSCIOUS TECHNOLOGY

The "e-SPEC" mark symbolizes environmentally responsible technologies applied to Honda power equipment, which contains our wish to "preserve nature for generations to come."

Thank you for purchasing a Honda generator.

This manual covers operation and maintenance of the EM25 and EM30 generators.

All information in this publication is based on the latest product information available at the time of approval for printing.

Honda Motor Co., Ltd. reserves the right to make changes at any time without notice and without incurring any obligation.

No part of this publication may be reproduced without written permission.

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

Pay special attention to statements preceded by the following words:

▲WARNING Indicates a strong possibility of severe personal injury or death if instructions are not followed.

CAUTION: Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information.

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

▲WARNING

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

- The illustration may vary according to the type.

1. SAFETY INSTRUCTIONS

▲WARNING

To ensure safe operation –



- Honda generator is designed to give safe and dependable service if operated according to instructions.

Read and understand the Owner's Manual before operating the generator. Failure to do so could result in personal injury or equipment damage.



- Exhaust gas contains poisonous carbon monoxide. Never run the generator in an enclosed area. Be sure to provide adequate ventilation.

When installed inside, adequate ventilation should be provided.



- The muffler becomes very hot during operation and remains hot for a while after stopping the engine.


Be careful not to touch the muffler while it is hot. Let the engine cool before storing the generator indoors.


- The engine exhaust system will be heated during operation and remain hot immediately after stopping the engine.

To prevent scalding, pay attention to the warning marks attached to the generator.

⚠ WARNING

To ensure safe operation —

	<ul style="list-style-type: none">• Gasoline is extremely flammable and explosive under certain conditions. Refuel in a well ventilated area with the engine stopped.• Keep away from cigarette, smoke and sparks when refueling the generator. Always refuel in a well-ventilated location.• Wipe up spilled gasoline at once.
<ul style="list-style-type: none">Ⓢ STOP THE ENGINE BEFORE REFUELING.Ⓢ ARRÊTEZ LE MOTEUR AVANT DE REFAIRE LE PLEIN.Ⓢ VOR ALUFTANDEN MOTOR ABSTELLEN.Ⓢ ARRESTARE IL MOTORE PRIMA DI FARE RIFORMIMENTO.Ⓢ STOP DE MOTOR ALVORRENI ILJ TE TANKEN.Ⓢ PARE EL MOTOR ANTES DE REPOSTAR.Ⓢ DESLIGUE O MOTOR ANTES DE ABASTECER.Ⓢ ITÄMÄTÄ TY MIKÄÄN ÖRN TÖN AIEÄÄLÄÄNDI NE KÄYTIMÄ.Ⓢ STÄNG AV MOTORN FÖRE BRÄNSLEPÅFYLNING.Ⓢ STOP MOTOREN FÖR BRÄNSLETÖPPÅFYLNING.Ⓢ ISÄÄ AV MOTOREN FÖR PÅFYLNING.Ⓢ SAMMILTA MÖTTÖRN ENNE TÄNKAUSTA.	

	<ul style="list-style-type: none">• Connections for standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers or others who contact the lines during a power outage, and when utility power is restored, the generator may explode, burn, or cause fires in the building's electrical system.
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⚠ WARNING**To ensure safe operation —**


- **Always make a pre-operation inspection (page 10) before you start the engine. You may prevent an accident or equipment damage.**
- **Place the generator at least 1 m (3 ft) away from buildings or other equipment during operation.**
- **Operate the generator on a level surface.
If the generator is tilted, fuel spillage may result.**
- **Know how to stop the generator quickly and understand operation of all the controls. Never permit anyone to operate the generator without proper instructions.**
- **Keep children and pets away from the generator when it is in operation.**
- **Keep away from rotating parts while the generator is running.**
- **The generator is a potential source of electrical shocks when misused; do not operate with wet hands.**
- **Do not operate the generator in rain or snow and do not let it get wet.**


2. SAFETY LABEL LOCATIONS


These labels warn you of potential hazards that can cause serious injury. Read the labels and safety notes and precautions described in this manual carefully.


If a label comes off or becomes hard to read, contact your Honda dealer for a replacement.

**For European model
(G, GW, F, B type):**

EXHAUST CAUTION → 

READ OWNER'S MANUAL → 

CONNECT CAUTION → 

FUEL CAUTION → 

STOP THE ENGINE BEFORE REFUELLING
 ⓐ ARRÊTEZ LE MOTEUR AVANT DE RÉFRAIR LE PLEIN.
 ⓑ VOR AUFHÄNGEN MOTOR ABSTELLEN.
 ⓒ ARRESTARE IL MOTORE PRIMA DI FARE RIFORMIDAMENTO.
 ⓓ STOP DE MOTOR ALVORÉNS BIJ TE TANKEN.
 ⓔ PARE EL MOTOR ANTES DE REPOSTAR.
 ⓕ DESLIGUE O MOTOR ANTES DE ABASTECER.
 ⓖ ETÄMÄTÄE TH MOOTTOR ENNEN ASENOLLAIMO ME KÄYI MA.
 ⓗ STÄNG AV MOTORN FÖRE BRÄNSLEPÅFYLLNING.
 ⓘ STOP MOTOREN FÖR BRÄNSLORPÅFYLLNING.
 ⓘ SLÄ AV MOTOREN FÖR PÅFYLLNING.
 ⓘ SAHMUTA MOOTTORI ENNEN TANKKAUSTA.

**For Australian model
(U type):**

CAUTION

- DO NOT USE REPAIRS OR TO DAMAGE OR HARMFUL TO THE ENGINE.
- DO NOT REMOVE THE FUEL TANK COVER UNLESS THE ENGINE IS OFF.
- STOP THE ENGINE BEFORE REFUELLING.
- ENGLISH TOP-PLATED FUEL TANK IS USED.
- DO NOT USE THE FUEL TANK FOR OTHER PURPOSES.
- FOR DETAILED INFORMATION, READ THE OWNER'S MANUAL.

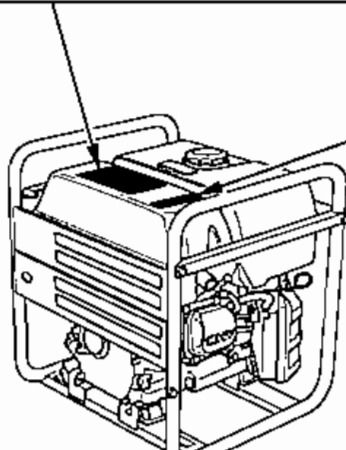
ATTENTION

- N'ÉTAZ PAS À RÉPARER NI À ENDOMMAGER NI À FAIRE MAL À L'ÉQUIPEMENT.
- NE PAS ENLEVER LE COUVERCLE DU RÉSERVOIR À CARBURANT SAUF SI LE MOTEUR EST ÉTEINT.
- NE PAS UTILISER LE RÉSERVOIR À CARBURANT À D'AUTRES FINS QUE LA PRISE DE CARBURANT.
- ARRÊTEZ LE MOTEUR AVANT DE FAIRE LE RÉFUELLEMENT.
- NE PAS ENLEVER LE COUVERCLE DU RÉSERVOIR À CARBURANT SAUF SI LE MOTEUR EST ÉTEINT.
- NE PAS RÉUTILISER LE RÉSERVOIR À CARBURANT À D'AUTRES FINS QUE LA PRISE DE CARBURANT.
- POUR PLUS D'INFORMATIONS, LIRE LE MANUEL DE L'UTILISATEUR.

ATENCIÓN

- NO LOQUE EN LAS PARTES REPARABLES, DEGRADAR NI DAÑAR EL MOTOR O DE LOS COMPONENTES DEL MOTOR.
- NO SQUELE LA CUBIERTA DE ENTELECOLEDO PARA LA INSTALACIÓN DEL TUBO DE CARBURANTE.
- PARAR EL MOTOR ANTES DE ENLACE CARBURANTE AL PUNTO DE REPOSTAR.
- NO USAR PARA OTROS FINES DEL RESERVOIR DE CARBURANTE.
- NO REUTILIZAR EL RESERVOIR DE CARBURANTE PARA OTROS FINES QUE LA TOMA DE CARBURANTE.
- CONSULTE EL MANUAL DEL PROPIETARIO PARA OTRAS DETALLAS SOBRE EL MANTENIMIENTO.

تنبه لا تستخدمه به إصلاح الأجزاء التي يمكن إصلاحها أو تضر المحرك أو مكونات المحرك.
 لا تخلص غطاء خزان الوقود الكهربائي من شبكة الإمداد الكهربائي.
 أوقف المحرك قبل إعادة تلوينه بالوقود.
 اجمع من أجل وجود وقود مستخدم أو تسميات الوقود.
 لا تخل خزان الوقود أكثر من الحد الأقصى للحدود للحصول على مزيد من التفاصيل اقرأ دليل المالك.



For European model (G, GW, F, B type):

HOT CAUTION



For Australian model (U type):

**HOT • EXHAUST
ECHAPPEMENT • CHAUD**



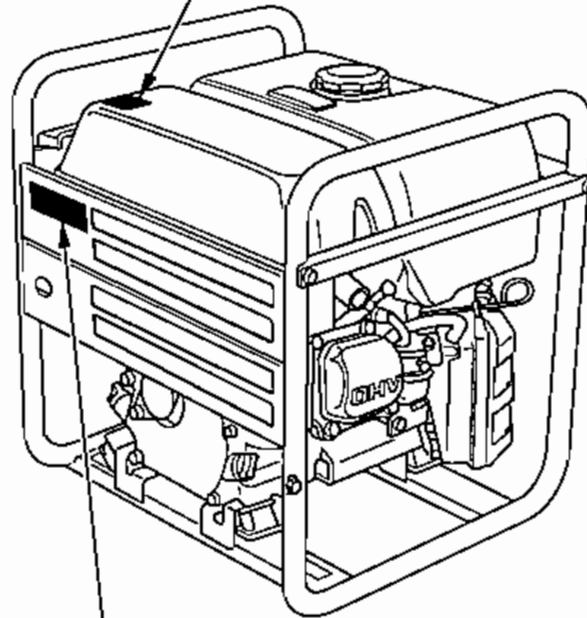
• CE mark and noise label locations

For European model (G, GW, B, F types):

NOISE LABEL



[Example: EM30 NOISE LABEL]

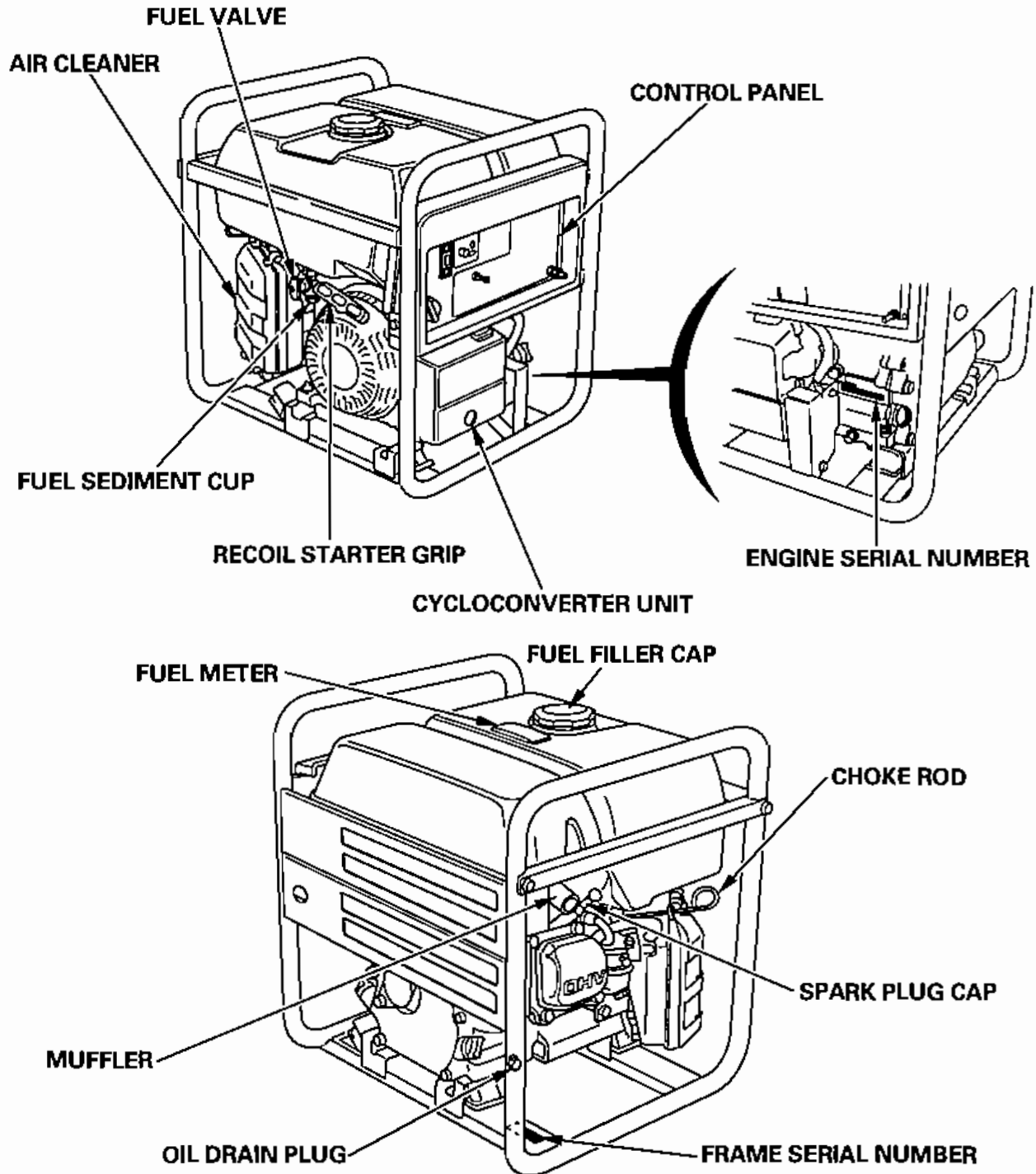


• CE MARK

CE	Generating set		Manufacturer and address		Maximum ambient temperature
	ISO 8528		EM30 Honda Motor Co., Ltd. 2-1-1 Minami Aoyama, Minato-ku, Tokyo, Japan		
	Rated power COP	2.6 kW	50 Hz	Max. 40°C	
Rated power factor	1.0	230V	Max. 1000m	IP code	
Year of Mfg.		11.4A	Mass 32kg		IP23S
		Maximum altitude	Dry weight		

[Example: EM30 CE MARK]

3. COMPONENT IDENTIFICATION



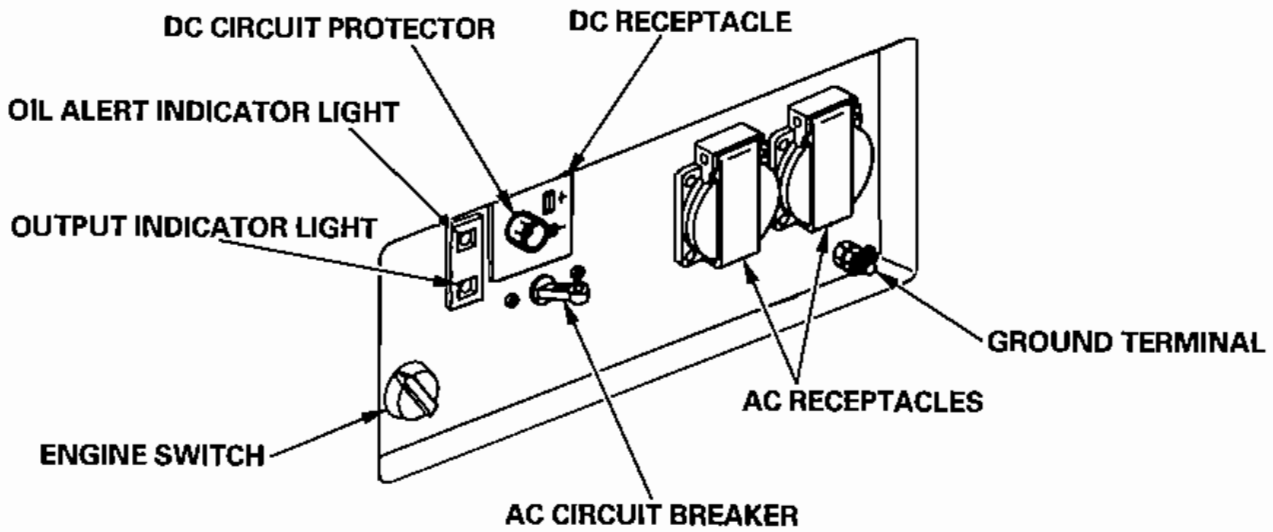
Record the frame serial number and the engine serial number in the space below. You will need these numbers when ordering parts.

Frame serial number: _____

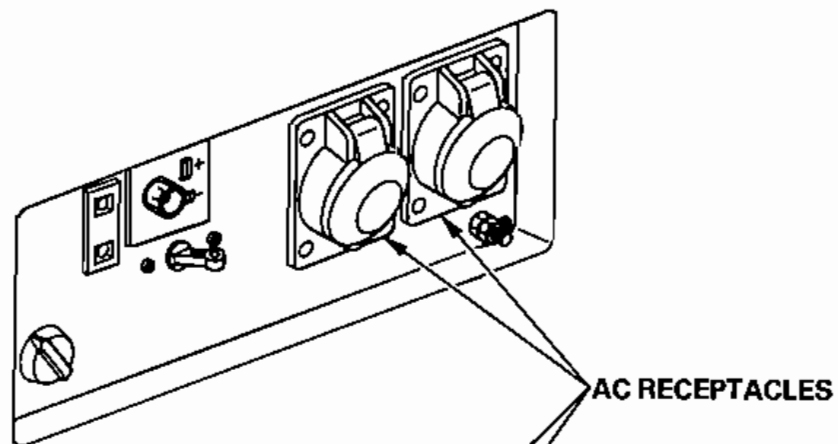
Engine serial number: _____

CONTROL PANEL

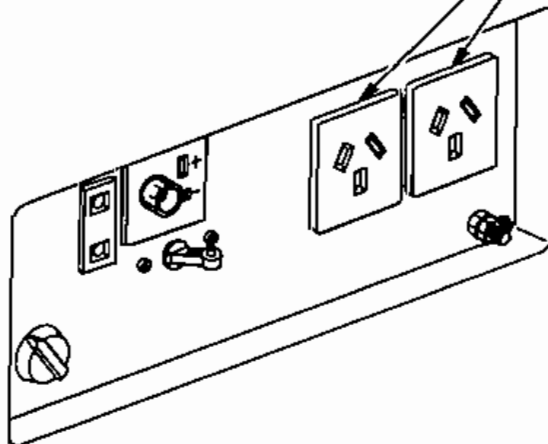
G, GW, F types:



B type:



U type:



4. PRE-OPERATION CHECK

CAUTION:

Be sure to check the generator on a level surface with the engine stopped.

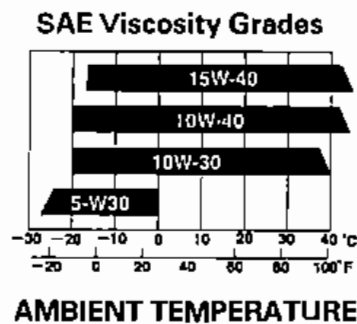
1. Check the engine oil level.

CAUTION:

Using nondetergent oil or 2-stroke engine oil could shorten the engine's service life.

Use high-detergent, premium quality 4-stroke engine oil, certified to meet or exceed U.S. automobile manufacturer's requirements for API Service Classification SG, SF.

Select the appropriate viscosity for the average temperature in your area.

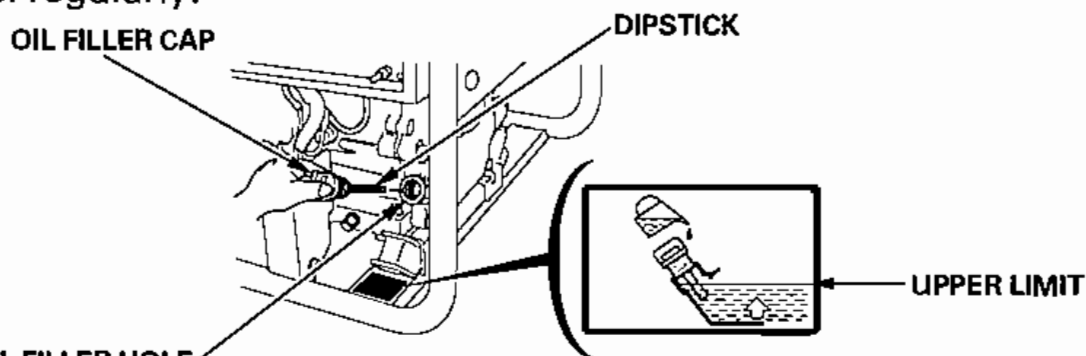


Remove the oil filler cap, and wipe the dipstick with a clean rag. Check the oil level by inserting the dipstick in the filler hole without screwing it in.

If the oil level is below the end of the dipstick, refill with recommended oil up to the top of the oil filler hole.

NOTE:

The Oil Alert System will automatically stop the engine before the oil level falls below the safe limit. However, to avoid the inconvenience of an unexpected shutdown, it is still advisable to visually inspect the oil level regularly.



2. Check the fuel level.

If the fuel level is low, refill to the shoulder of the fuel strainer.

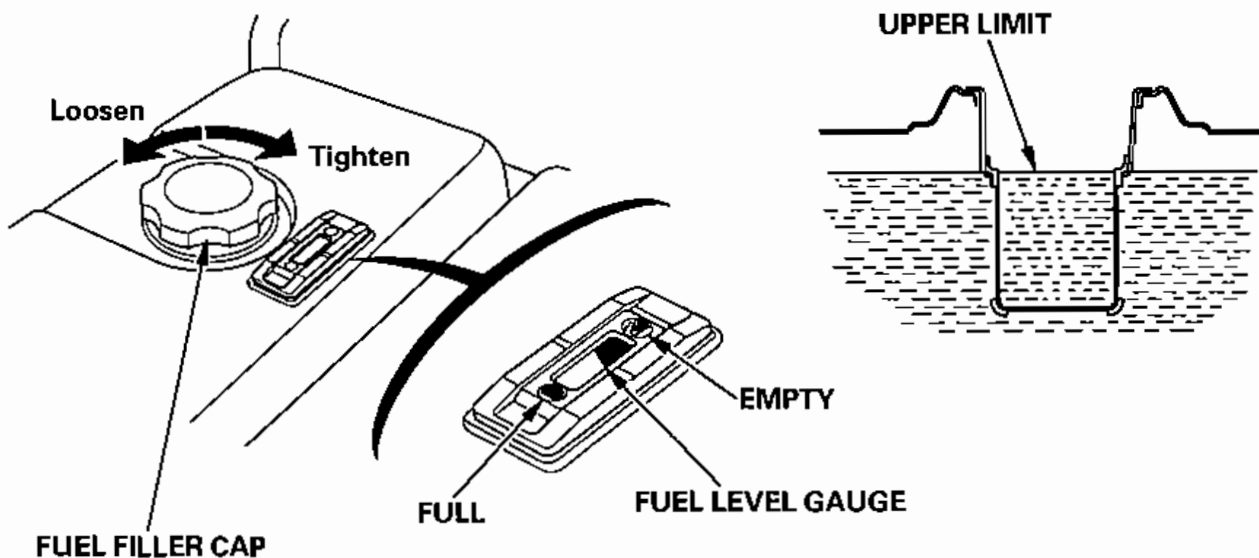
After refueling, tighten the fuel filler cap securely.

Use automotive unleaded gasoline with a Research Octane Number of 91 or higher (a Pump Octane Number of 86 or higher).

Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

▲WARNING

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



NOTE:

Gasoline spoils very quickly depending on factors such as light exposure, temperature and time.

In worst cases, gasoline can be contaminated within 1 month.

Using contaminated gasoline can seriously damage the engine (carburetor clogged, valve stuck).

Such damage due to spoiled fuel is disallowed from coverage by the warranty.

To avoid this please strictly follow these recommendations:

- Only use specified gasoline (see page 11).
- To slow deterioration, keep gasoline in a certified fuel container.
- If long storage (more than 1 month) is foreseen, drain fuel tank and carburetor.

Gasolines containing alcohol

If you decide to use a gasoline containing alcohol (gasohol), be sure it's octane rating is at least as high as that recommended by Honda. There are two types of "gasohol": one containing ethanol, and the other containing methanol.

Do not use gasohol that contains more than 10% ethanol. Do not use gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

NOTE:

- Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty.

Honda cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.

- Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol, if it does, confirm the type and percentage of alcohol used.

If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.

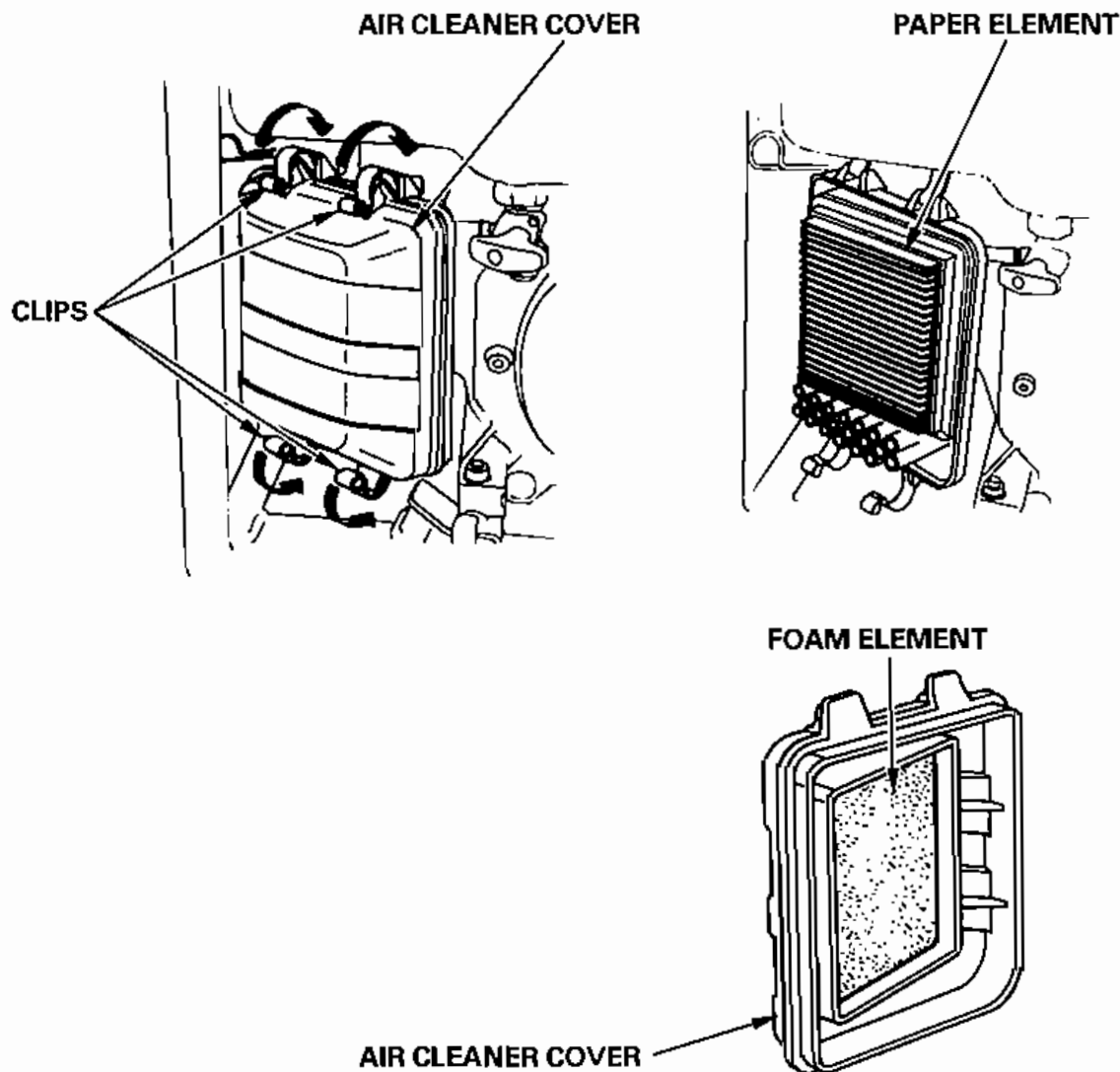
3. Check the air cleaner.

Check the air cleaner elements to be sure they are clean and in good condition.

Unsnap the four clips, remove the air cleaner cover, remove the foam element from the air cleaner cover, and check the both elements. Clean or replace the element(s) if necessary. (see page 30)

CAUTION:

Never run the engine without the air cleaner element. Rapid engine wear will result from contaminants, such as dust and dirt, being drawn through the carburetor, into the engine.



5. STARTING THE ENGINE

CAUTION:

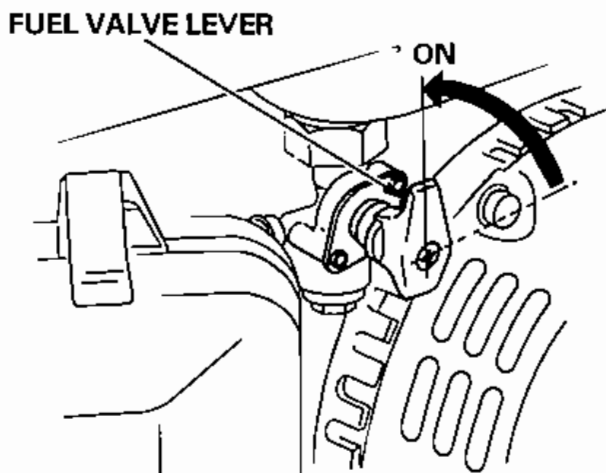
When starting the generator after adding fuel for the first time, after long-term storage, or after running out of fuel, turn the fuel valve lever to the "ON" position, then wait for 10 to 20 seconds before starting the engine.

Before starting the engine disconnect any load from the AC receptacle.

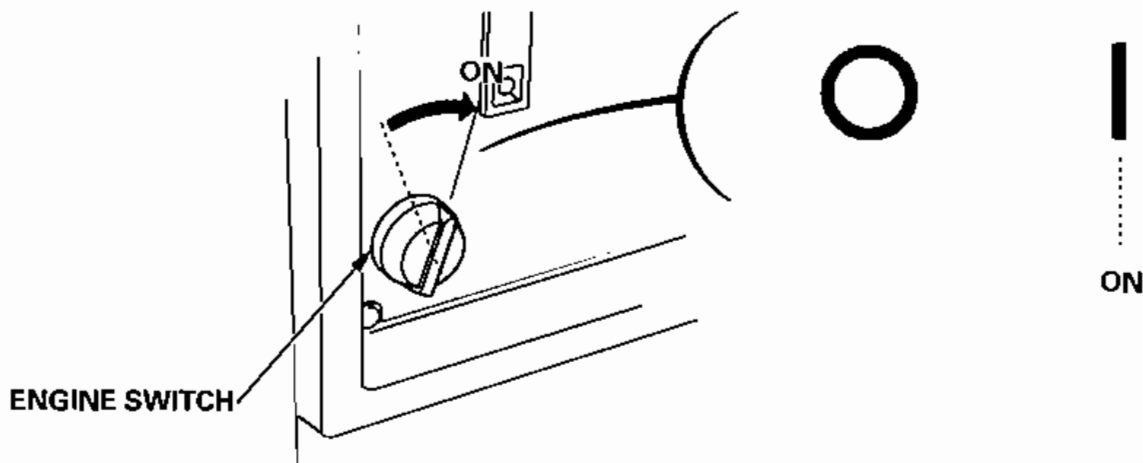
1. Turn the fuel valve lever to the ON position.

NOTE:

Turn the fuel valve lever to the OFF position when transporting the generator.



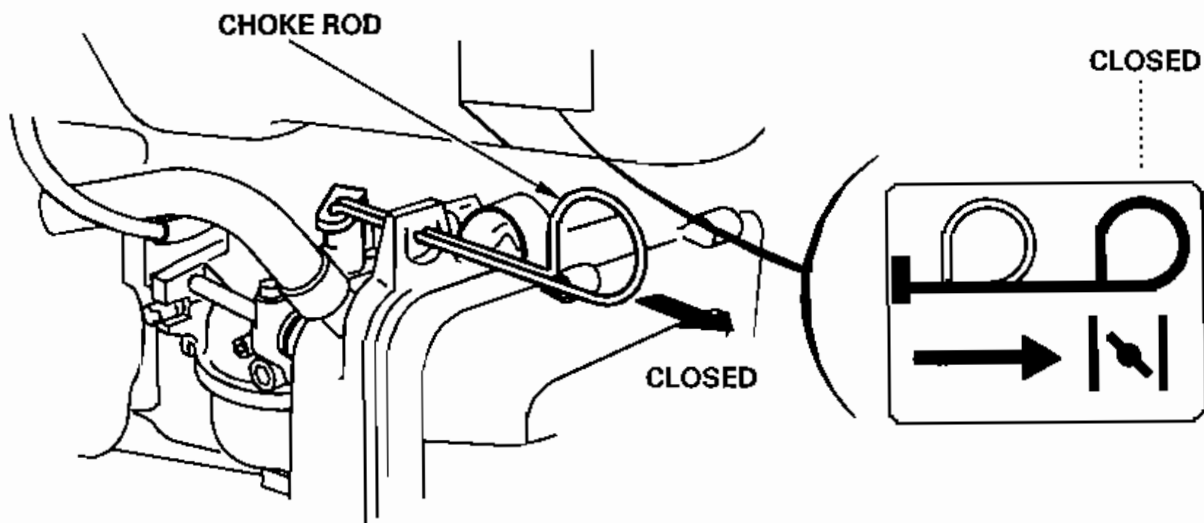
2. Turn the engine switch to the ON position.



3. Move the choke rod to the CLOSED position.

NOTE:

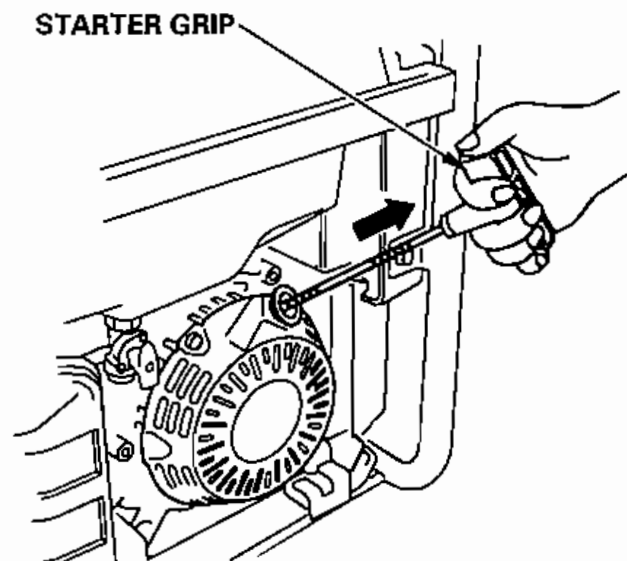
- Do not use the choke when the engine is warm or the air temperature is high.



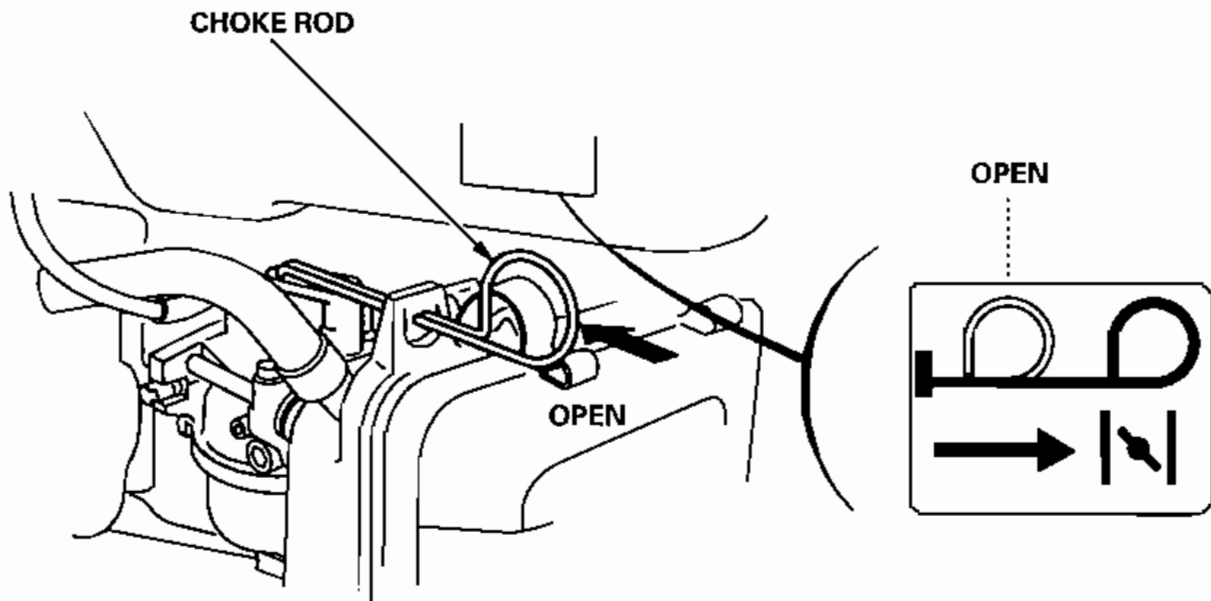
4. Pull the starter grip lightly until you feel resistance, then pull the starter grip briskly toward the arrow as shown below.

CAUTION:

Do not allow the starter grip to snap back. Return it slowly by hand.



5. Move the choke rod to the OPEN position as the engine warms up.



NOTE:

If the engine stops and will not restart, check the engine oil level (see page 10) before troubleshooting in other areas.

- **High altitude operation**

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

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

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

CAUTION:

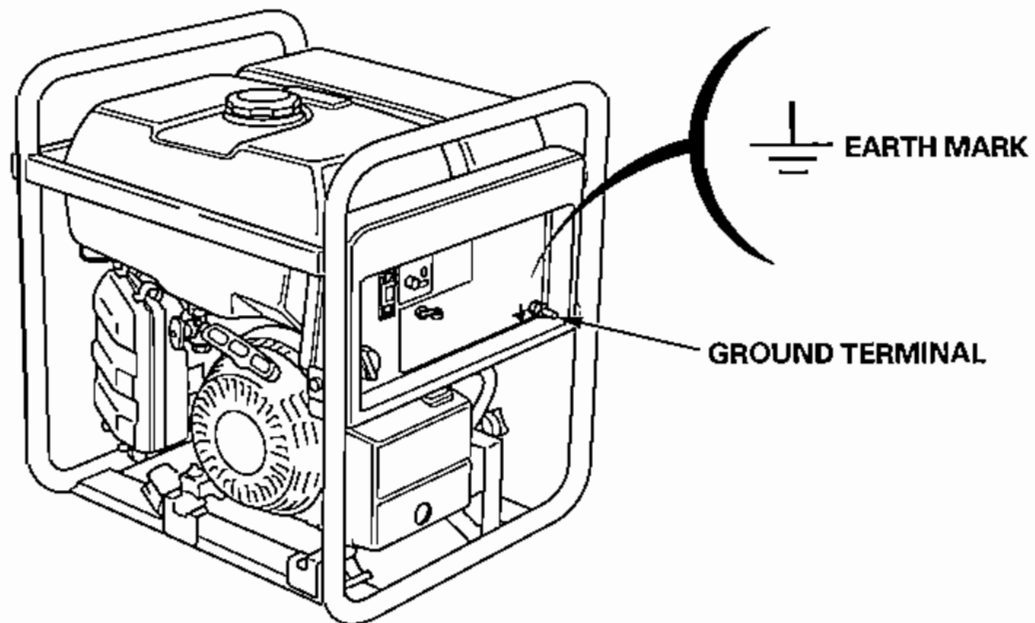
Operation of the generator at an altitude lower than the carburetor is jetted for may result in reduced performance, overheating, and serious engine damage caused by an excessively lean air/fuel mixture.

6. GENERATOR USE

Be sure to ground the generator when the connected equipment is grounded.

▲WARNING

Connections for standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can allow electrical 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 when utility power is restored, the generator may explode, burn, or cause fires in the building's electrical system.



CAUTION:

- **Limit operation requiring maximum power (see page 40) to 30 minutes.**
For continuous operation, do not exceed the rated power (see page 40).
In either case, the total wattage of all appliances connected must be considered.
- **Do not exceed the current limit specified for any one receptacle.**
- **Do not connect the generator to a household circuit. This could cause the damage to the generator or to electrical appliances in the house.**
- **Do not modify or use the generator for other purposes than it is intended for. Also observe the following when using the generator.**
 - **Do not connect generators in parallel.**
 - **Do not connect an extension to the exhaust pipe.**
- **When an extension cable is required, be sure to use a tough rubber sheathed flexible cable (IEC 245 or equivalent).**
- **Limit length of extension cables; 60 m for cables of 1.5 mm² and 100 m for cables of 2.5 mm². Long extension cables will lower usable power due to resistance in the extension cable.**
- **Keep the generator away from other electric cables or wires such as commercial power supply lines.**

NOTE:

- The DC receptacle may be used while the AC power is in use. If you use both at the same time, be sure not to exceed the AC power specified below.

Otherwise, the DC output power will be reduced and the battery will not be charged.

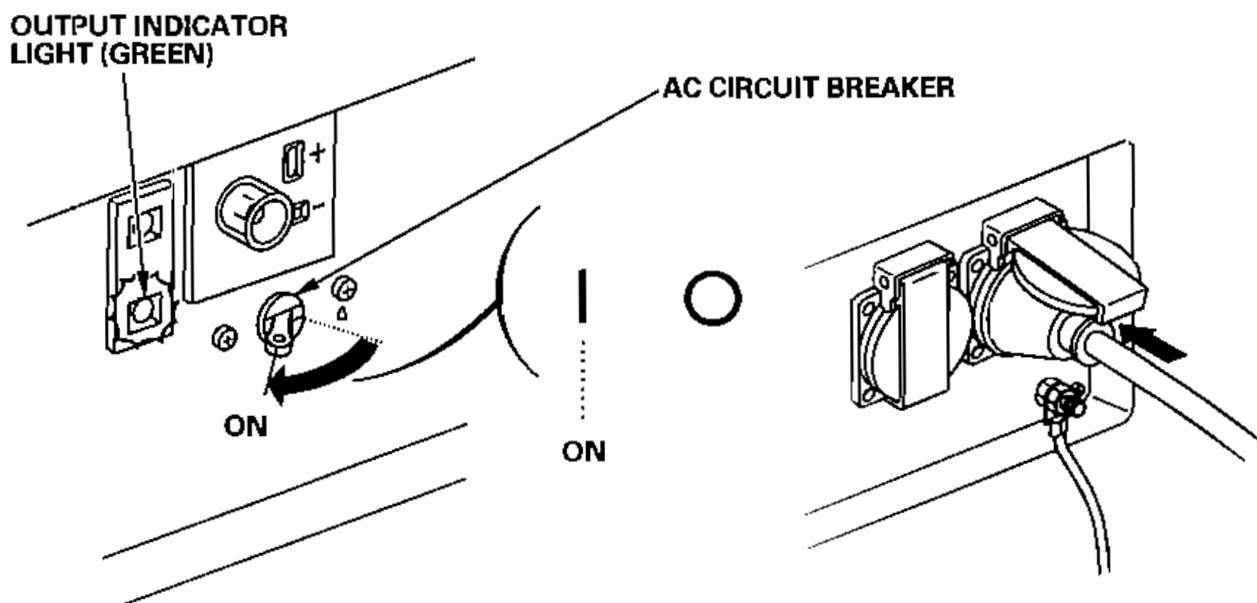
EM25: 2.15 kVA

EM30: 2.45 kVA

- Most appliance motors require more than their rated wattage for startup.

AC applications

1. Start the engine and make sure the Output indicator (green) comes on.
2. Switch ON the AC circuit breaker.
3. Confirm that the appliance to be used is switched off, and plug in the appliance.



CAUTION:

- Substantial overloading will switch off the AC circuit breaker. Marginal overloading may not switch off the AC circuit breaker, but it will shorten the service life of the generator.
- Be sure that all appliances are in good working order before connecting them to the generator. If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn off the generator engine switch immediately. Then disconnect the appliance, and examine it for signs of malfunction.

NOTE:

If an overloaded circuit trips the AC circuit breaker, reduce the electrical load on the circuit, and wait a few minutes before resuming operation.

Output Indicator

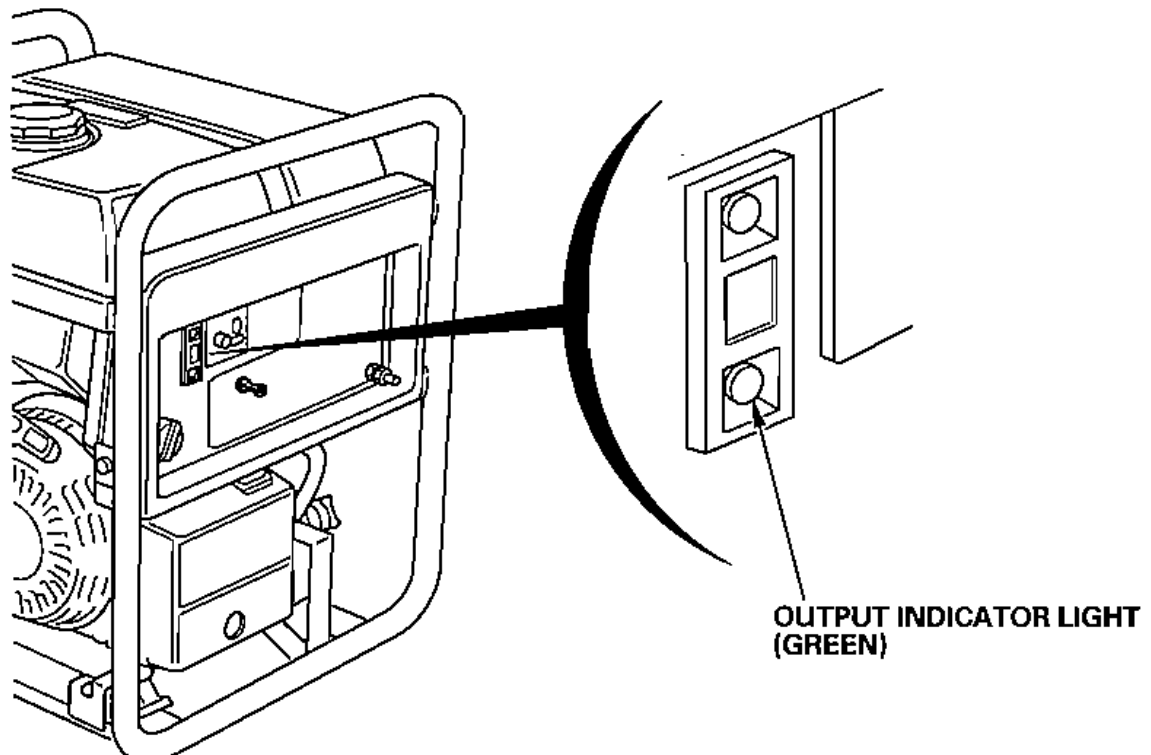
The Output indicator (green) will remain ON during normal operating conditions.

If there is a short circuit in a connected appliance or if the cycloconverter unit overheats, the output indicator light (green) blinks and current to the connected appliance(s) will shut off. When this happens, disconnect the appliance(s) and stop the engine to investigate the problem.

Determine if the cause is a short circuit in a connected appliance or an overheated cycloconverter unit. Correct the problem and restart the engine.

If the output indicator light (green) blinks again, consult your Honda generator dealer.

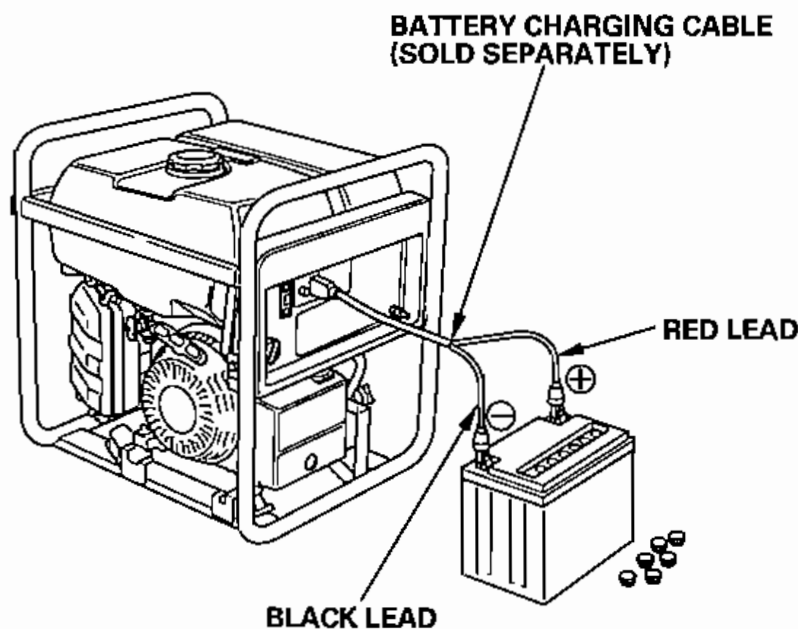
The output indicator light (green) may blink at intervals of 2.5 seconds depending on connected appliance(s) to the AC receptacles, it indicates that the output voltage has dropped slightly. It does not matter as long as the connected appliances work properly.



DC Application

The DC receptacle may be used for charging 12 volt automotive-type batteries only.

1. Connect the charging cables to the DC receptacle of the generator and then to the battery terminals.



⚠ WARNING

- To prevent the possibility of creating a spark near the battery, connect charging cable first to the generator, then to the battery. Disconnect cable first at the battery.
- Before connecting charging cables to a battery that is installed in a vehicle, disconnect the vehicle's grounded battery cable. Reconnect the vehicle's grounded battery cable after the charging cables are removed. This procedure will prevent the possibility of a short circuit and sparks if you make accidental contact between a battery terminal and the vehicle's frame or body.

CAUTION:

- Do not attempt to start an automobile engine with the generator still connected to the battery. The generator may be damaged.
- Connect the positive charging lead (red) to the positive battery terminal. Do not reverse the charging leads, or serious damage to the generator and/or battery may occur.

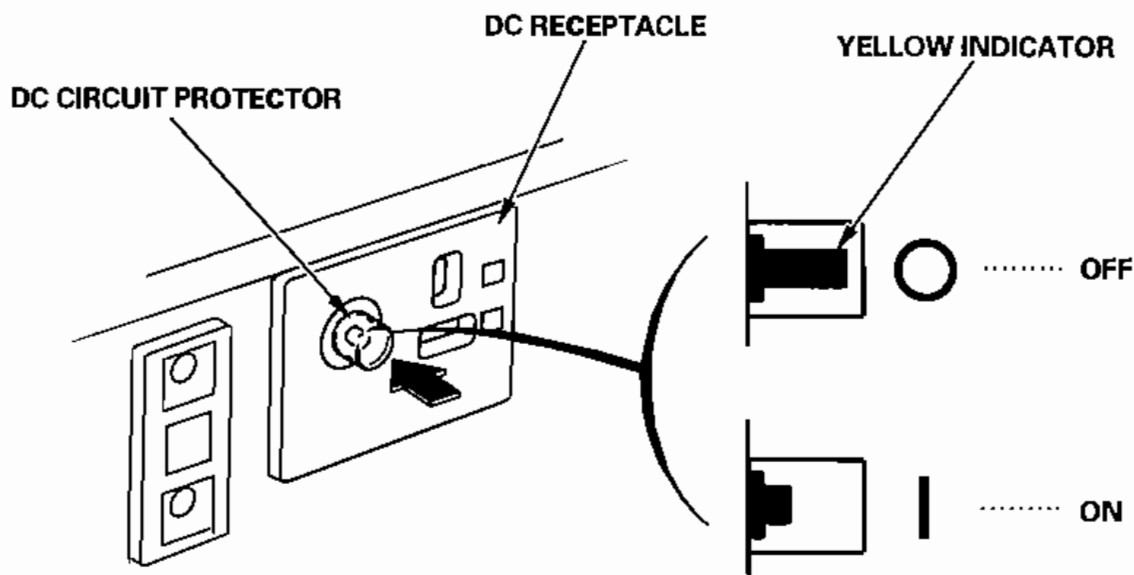
▲ WARNING

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

2. Start the engine.

NOTE:

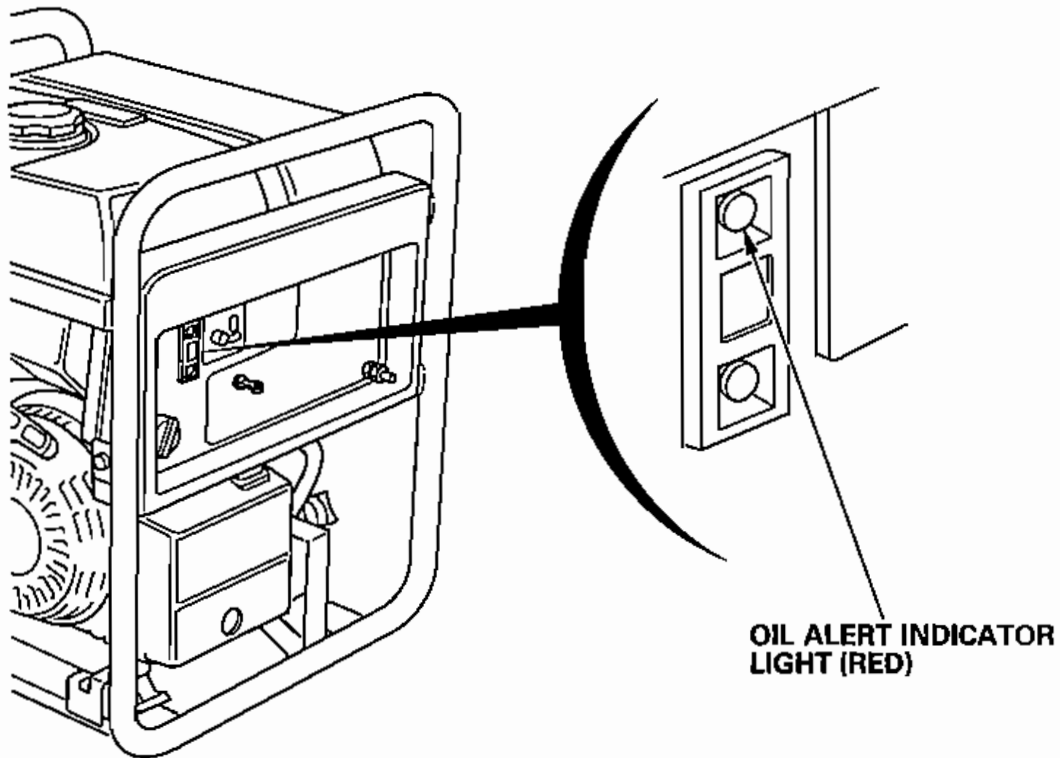
- The DC receptacle may be used while the AC power is in use.
- An overloaded DC circuit will trip the DC circuit protector (the yellow indicator inside the clear circuit protector button will pop out). If this happens, wait a few minutes before pushing in the circuit protector to resume operation.



Oil alert system

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase falls below a safe limit, the Oil Alert system will automatically shut down the engine (the engine switch will remain in the ON position).

If the Oil Alert system shuts down the engine, the Oil Alert indicator light (red) will come on when you pull the starter grip, and the engine will not run. If this occurs, add engine oil (p. 10).

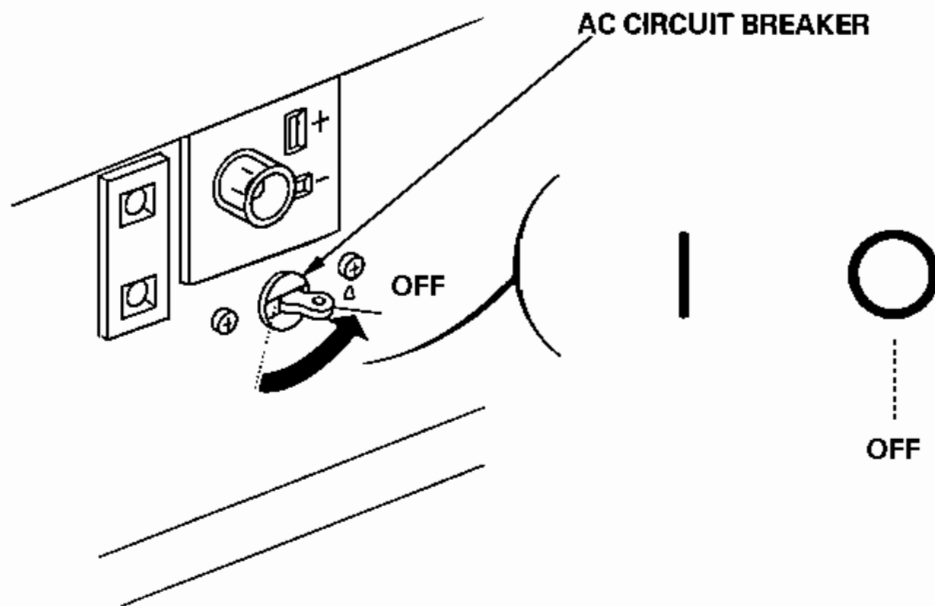


7. STOPPING THE ENGINE

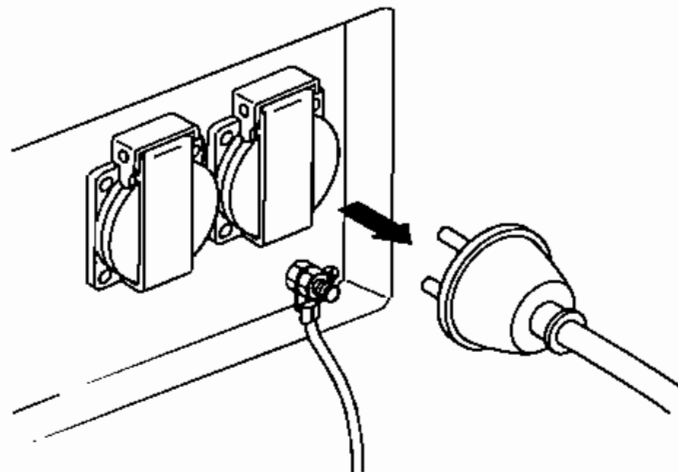
To stop the engine in an emergency, turn the engine switch to the OFF position.

IN NORMAL USE:

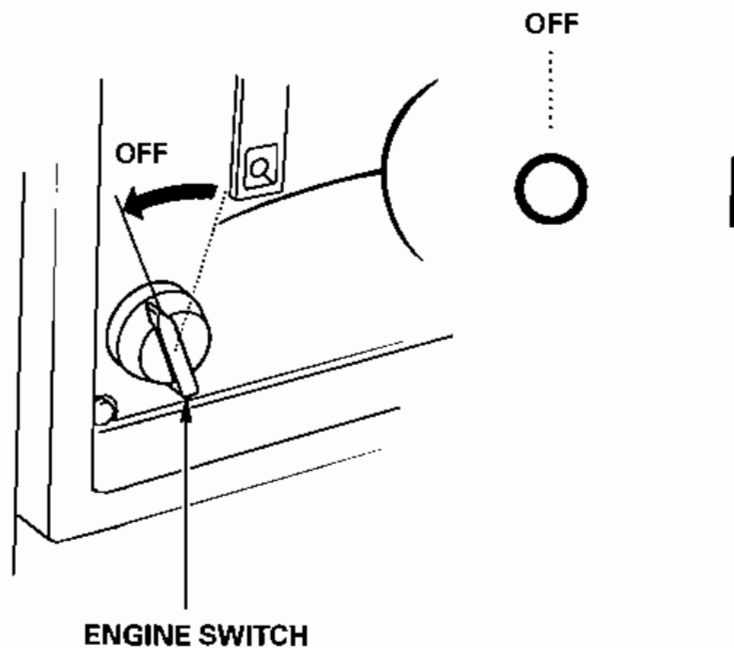
1. Turn the AC circuit breaker to the OFF position.



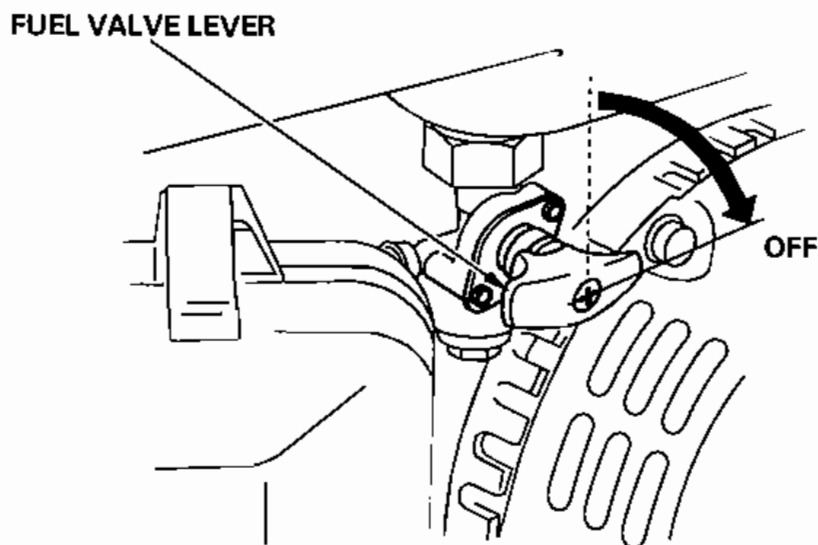
2. Switch off the connected equipment and pull the inserted plug.



3. Turn the engine switch to the OFF position.



4. Turn the fuel valve lever to the OFF position.



CAUTION:
Be sure the fuel valve lever and the engine switch are turned OFF when stopping, transporting and/or storing the generator.

8. MAINTENANCE

The purpose of the maintenance and adjustment schedule is to keep the generator 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.

CAUTION:

Use genuine Honda parts or their equivalent. The use of replacement parts which are not of equivalent quality may damage the generator.

Maintenance Schedule

REGULAR SERVICE PERIOD (3)		Each use	First month or 20 hrs.	Every 3 months or 50 hrs.	Every 6 months or 100 hrs.	Every year or 300 hrs.
Engine oil	Check level	○				
	Change		○		○	
Air cleaner	Check	○				
	Clean			○ (1)		
	Replace					○*
Sediment cup	Clean				○	
Spark plug	Check-adjust				○	
	Replace					○
Valve clearance	Check-adjust					○ (2)
Combustion chamber	Clean	After every 500 hrs. (2)				
Fuel tank and filter	Clean					○ (2)
Fuel line	Check	Every 2 years (Replace if necessary) (2)				

NOTE: * Replace paper element type only.

(1) Service more frequently when used in dusty areas.

(2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to Honda shop manual for service procedures.

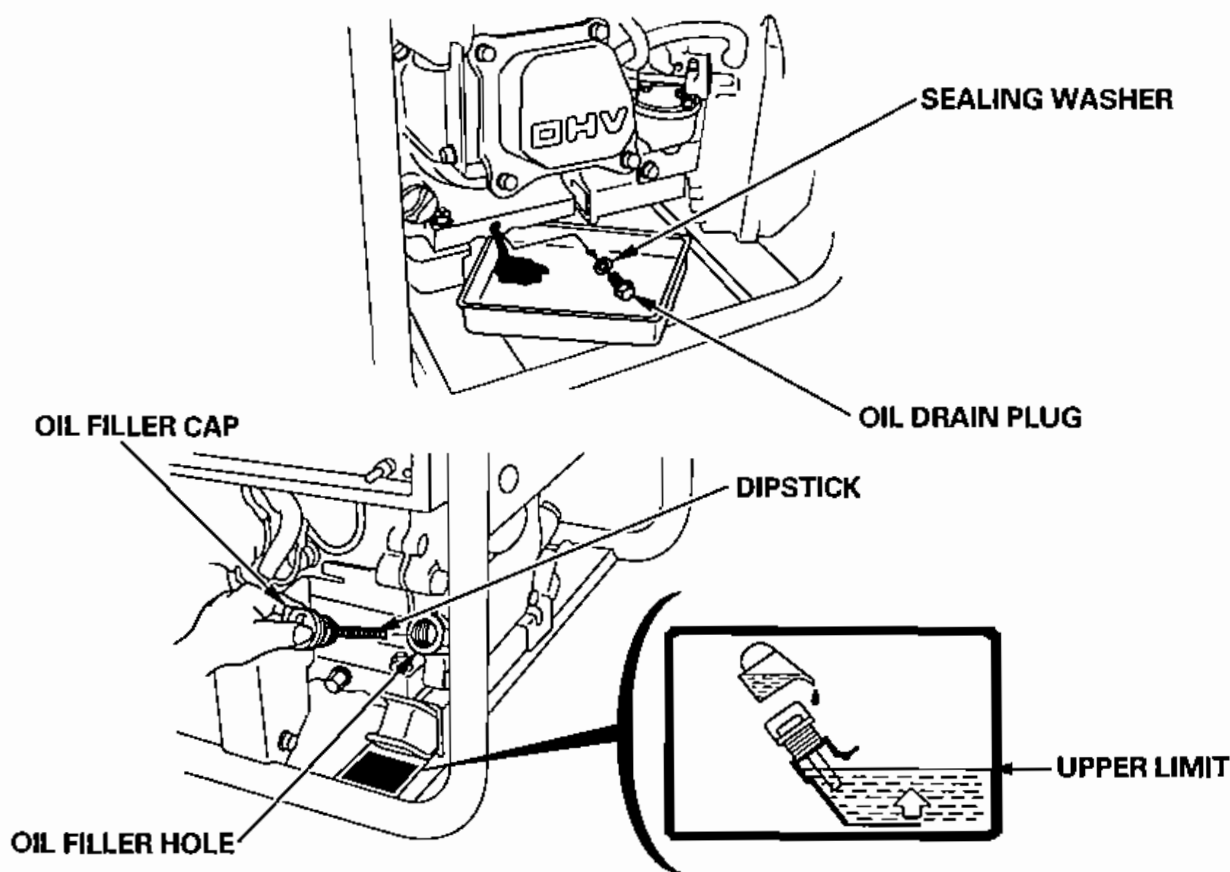
(3) For commercial use, log hours of operation to determine proper maintenance intervals.

1. CHANGING OIL

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

1. Remove the oil filler cap and oil drain plug to drain the oil.
2. Install the oil drain plug, and tighten it securely.
3. Refill with the recommended oil (see page 10) and check the oil level.
4. Reinstall the oil filler cap and tighten it securely.

ENGINE OIL CAPACITY: 0.55 l (0.58 US qt , 0.48 Imp qt)



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 or pour it on the ground.

2. 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 generator in extremely dusty areas.

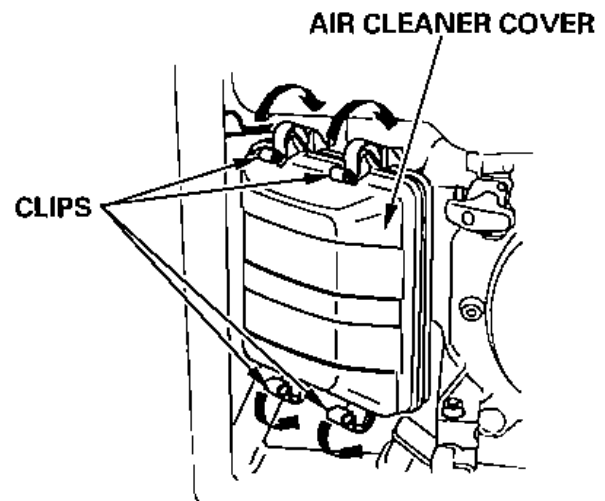
▲WARNING

Do not use gasoline or low flash point solvents for cleaning. They are flammable and explosive under certain conditions.

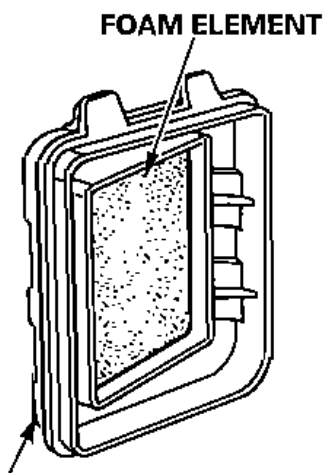
CAUTION:

Never run the generator without the air cleaner. Rapid engine wear may result.

1. Unsnap the clips, remove the air cleaner cover.

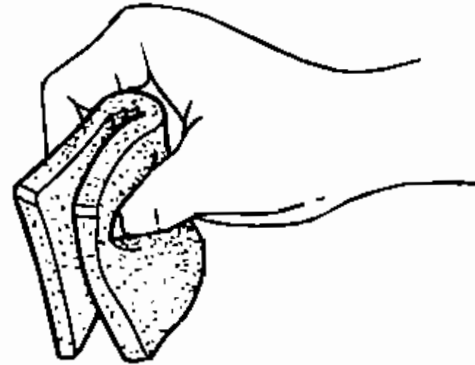


2. Foam element:
 - a. Remove the foam element from the air cleaner cover.
 - b. Wash the foam element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flashpoint solvent. Allow the foam element to dry thoroughly.

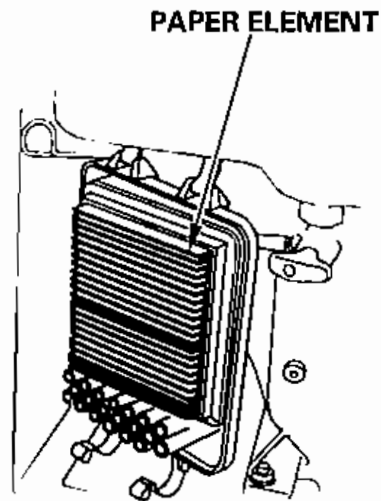


AIR CLEANER COVER

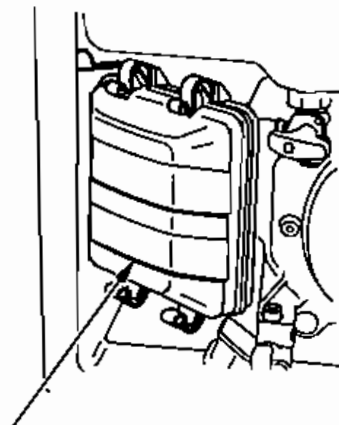
-
- c. Soak the foam element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial startup if too much oil is left in the foam element.
 - d. Reinstall the foam element to the air cleaner cover.



- 3. Paper element:
If the paper element is dirty, replace it with a new one. Do not clean the paper element.



- 4. Reinstall the air cleaner cover.



3. FUEL SEDIMENT CUP SERVICE

⚠ WARNING

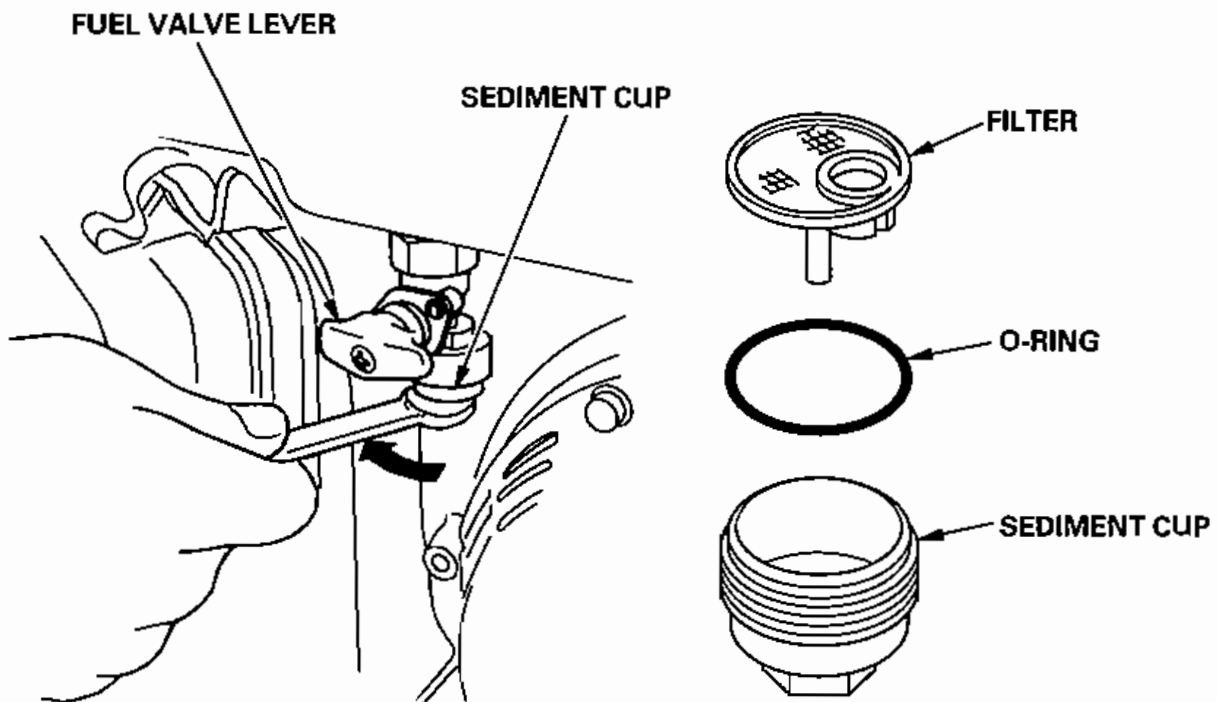
Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in the area.

The filter prevents dirt or water which may be in the fuel tank from entering the carburetor. If the engine has not been run for a long time, the filter should be cleaned.

1. Turn the fuel valve lever to the OFF position.
2. Remove the sediment cup by turning it counterclockwise.
3. Clean the cup and filter thoroughly.
4. Reassemble. Do not damage the O-ring.

⚠ WARNING

After installing the sediment cup, be sure to tighten it securely. Check for fuel leaks and make sure the area is dry before starting the engine.

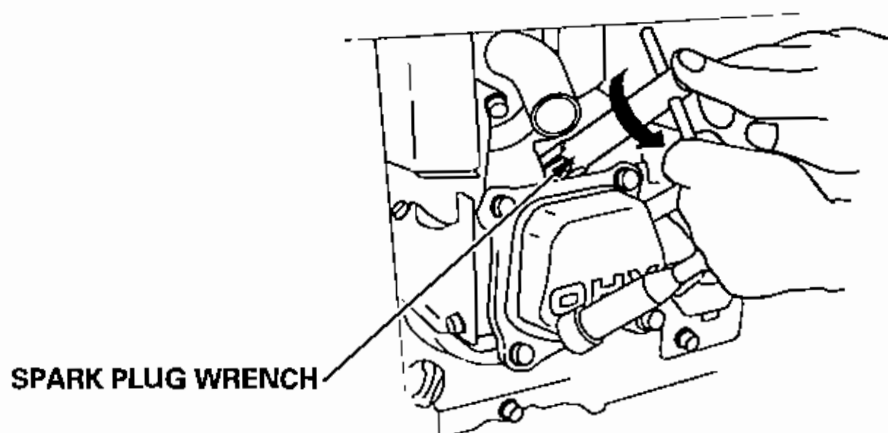


4. SPARK PLUG SERVICE

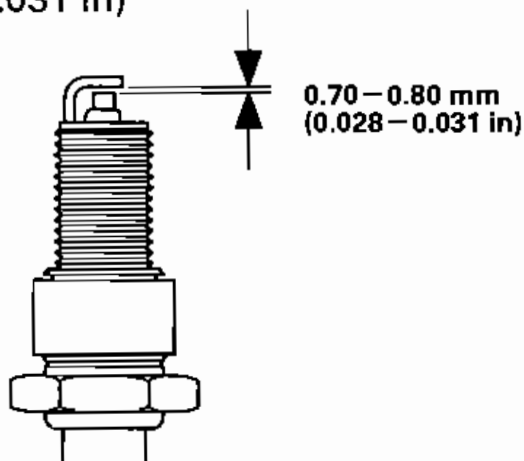
**RECOMMENDED SPARK PLUG: BPR6ES (NGK)
W20EPR-U (DENSO)**

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

1. Remove the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Use a spark plug wrench to remove the spark plug.



4. 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.
5. Measure the plug gap with a feeler gauge. Correct as necessary by carefully bending the side electrode. The gap should be:
0.70–0.80 mm (0.028–0.031 in)



-
6. Install the spark plug carefully, by hand, to avoid cross-threading.
 7. After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress its washer.
If a used plug is being reinstalled, it should only require 1/8 to 1/4 turn after being seated.
 8. Reinstall the spark plug cap on the spark plug securely.

CAUTION:

- **The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the generator.**
- **Never use a spark plug with an improper heat range.**

9. TRANSPORTING/STORAGE

To prevent fuel spillage when transporting or during temporary storage, the generator should be secured upright in its normal operating position, with the engine switch OFF. The fuel valve lever should be turned OFF.

▲WARNING

When transporting the generator:

- Do not overfill the tank.
- Do not operate the generator while it is on a vehicle. Take the generator off the vehicle and use it in a well ventilated place.
- Avoid a place exposed to direct sunlight when putting the generator on a vehicle. If the generator is left in an enclosed vehicle for many hours, high temperature inside the vehicle could cause fuel to vaporize resulting in a possible explosion.
- Do not drive on a rough road for an extended period with the generator on board. If you must transport the generator on a rough road, drain the fuel from the generator beforehand.

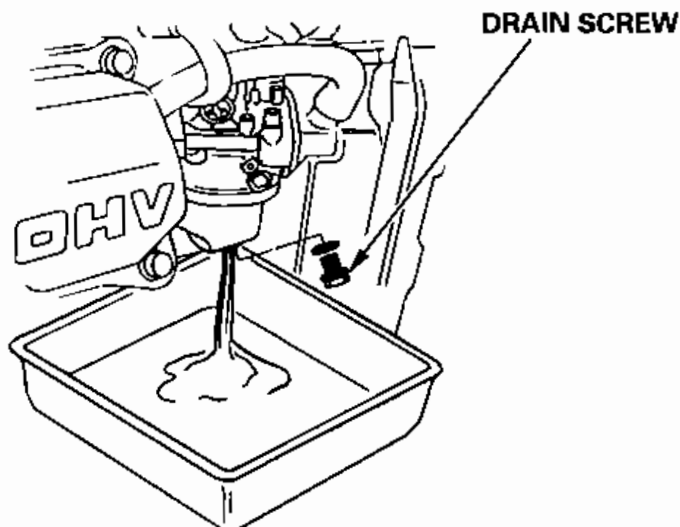
Before storing the unit for an extended period:

1. Be sure the storage area is free of excessive humidity and dust.
2. Drain the fuel.

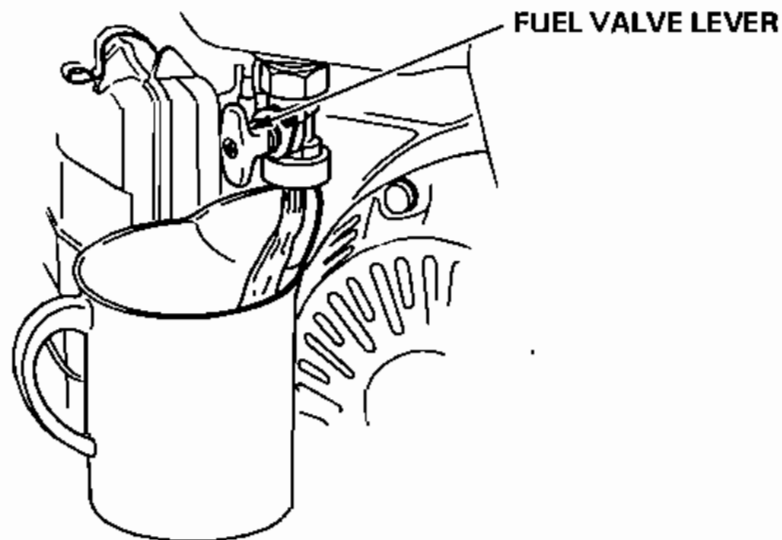
▲WARNING

Gasoline is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in the area.

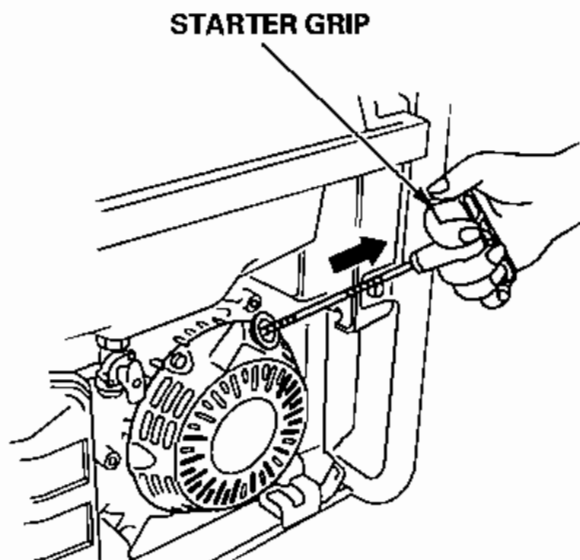
- a. Remove the carburetor drain screw and drain the gasoline from the carburetor into a suitable container.
- b. Install and tighten the drain screw securely.



-
- c. Turn the fuel valve OFF and remove the fuel sediment cup (see page 32).
 - d. Turn the fuel valve ON and drain the gasoline from the fuel tank into a suitable container.
 - e. Install and tighten the fuel sediment cup.

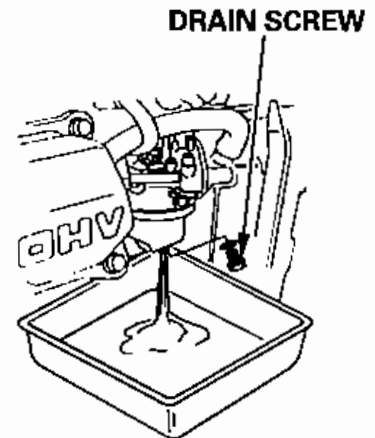
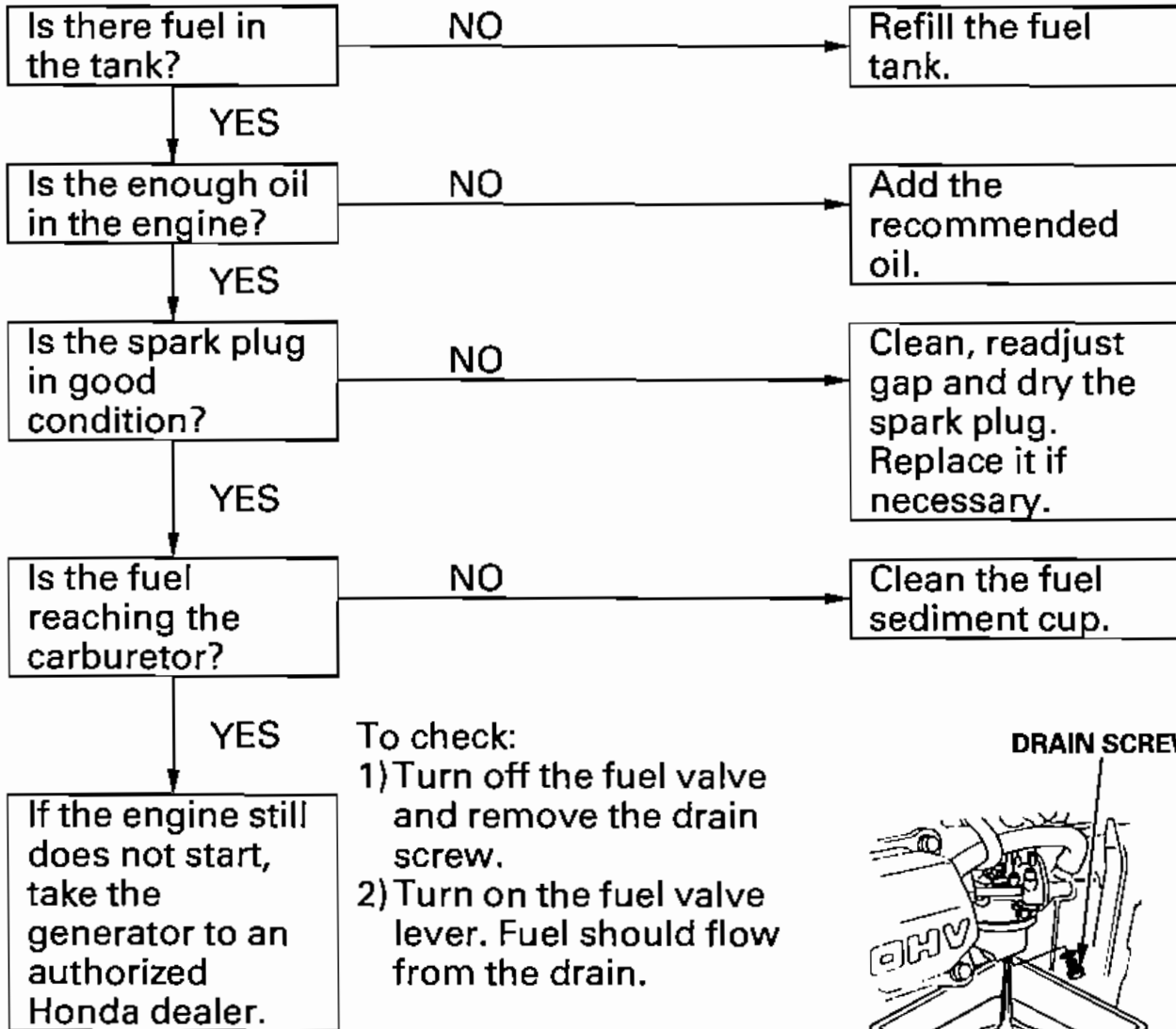


3. Change the engine oil.
4. Remove the spark plug and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.
5. Slowly pull the starter grip until resistance is felt. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to protect it from internal corrosion.

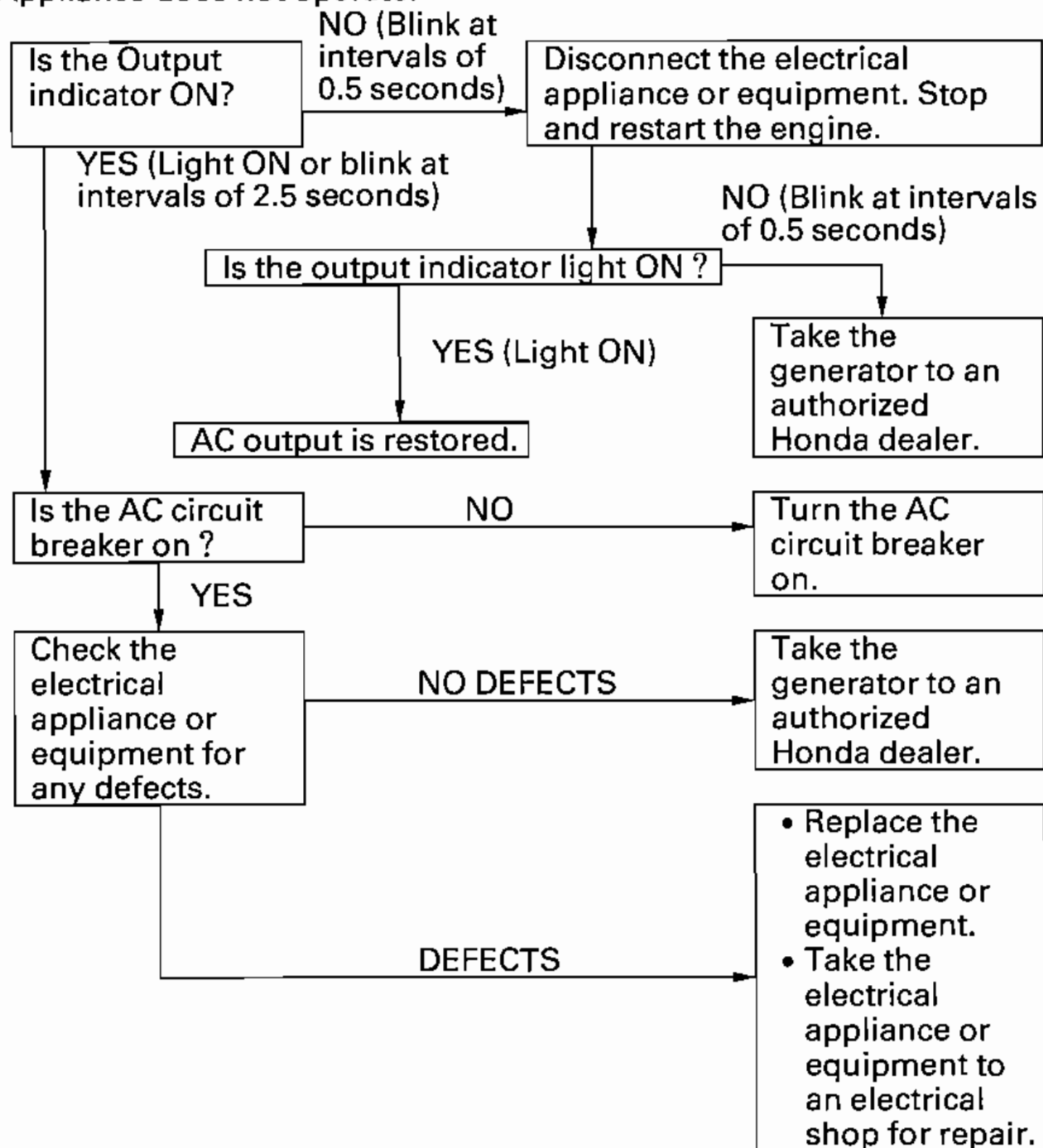


10. TROUBLESHOOTING

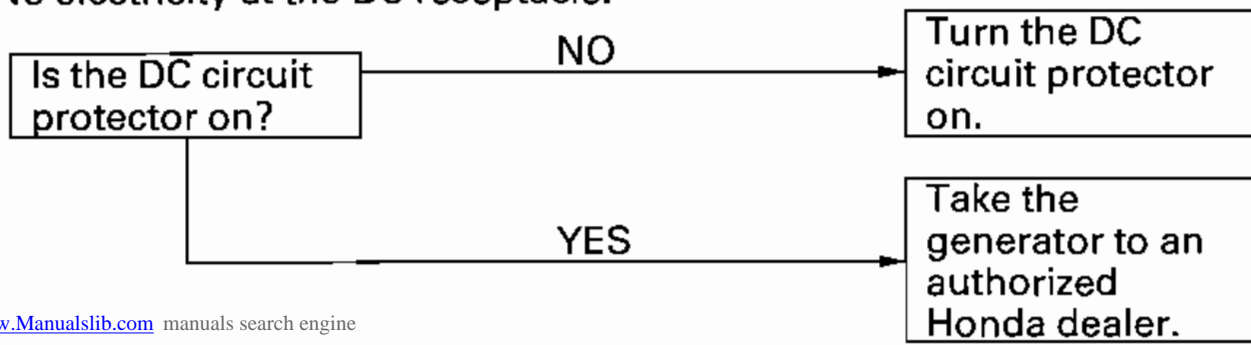
When the engine will not start:



Appliance does not operate:



No electricity at the DC receptacle:



11. SPECIFICATIONS

Dimensions and Weight

Model	EM25	EM30
Description code	EZGK	EZGL
Length	440 mm (17.3 in)	
Width	400 mm (15.7 in)	
Height	480 mm (18.9 in)	
Dry weight	30 kg (66 lbs)	32 kg (71 lbs)

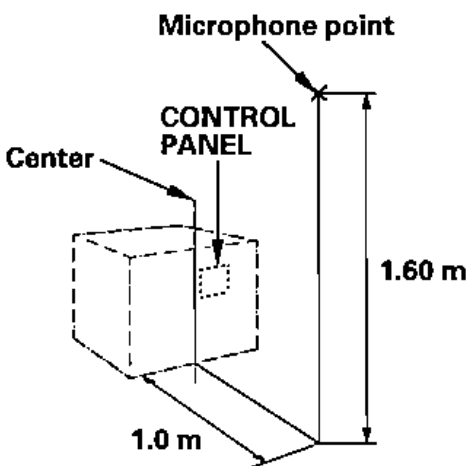
Engine

Model	GX160K1	GX200
Engine type	4-stroke, overhead valve, single cylinder (25°-inclined)	
Displacement	163 cm ³ (9.9 cu-in)	196 cm ³ (12.0 cu-in)
Bore × Stroke	68 × 45 mm (2.7 in × 1.8 in)	68 × 54 mm (2.7 in × 2.1 in)
Compression ratio	8.5:1	
Engine speed	3,600 rpm	
Cooling system	Forced air	
Ignition system	Transistorized magneto	
Oil capacity	0.55 ℓ (0.58 US qt , 0.48 Imp qt)	
Fuel tank capacity	10.2 ℓ (2.69 US gal , 2.24 Imp gal)	
Spark plug	BPR6ES (NGK) W20EPR-U (DENSO)	

Generator

Model		EM25		EM30	
Type		G, GW, B, F	U	G, GW, B, F	U
AC output	Rated voltage (V)	230	240	230	240
	Rated frequency (Hz)	50	50	50	50
	Rated Ampere (A)	10.0	9.6	11.4	10.9
	Rated Output (kVA)	2.3		2.6	
Max. Output (kVA)		2.5		3.0	
DC Rated Output		Only for charging 12 V automotive batteries. EM25: 12 V, 10 A EM30: 12 V, 12 A			

Noise

Model		EM25		EM30	
Type		G, GW, B, F	U	G, GW, B, F	U
Sound pressure level (LpA) According to 98/37/EC 		80 dB	—	80 dB	—
Guaranteed sound power level (LWA) Tested by 2000/14/EC		96 dB	—	96 dB	—

NOTE:
Specifications are subject to change without notice.

12. WIRING DIAGRAM

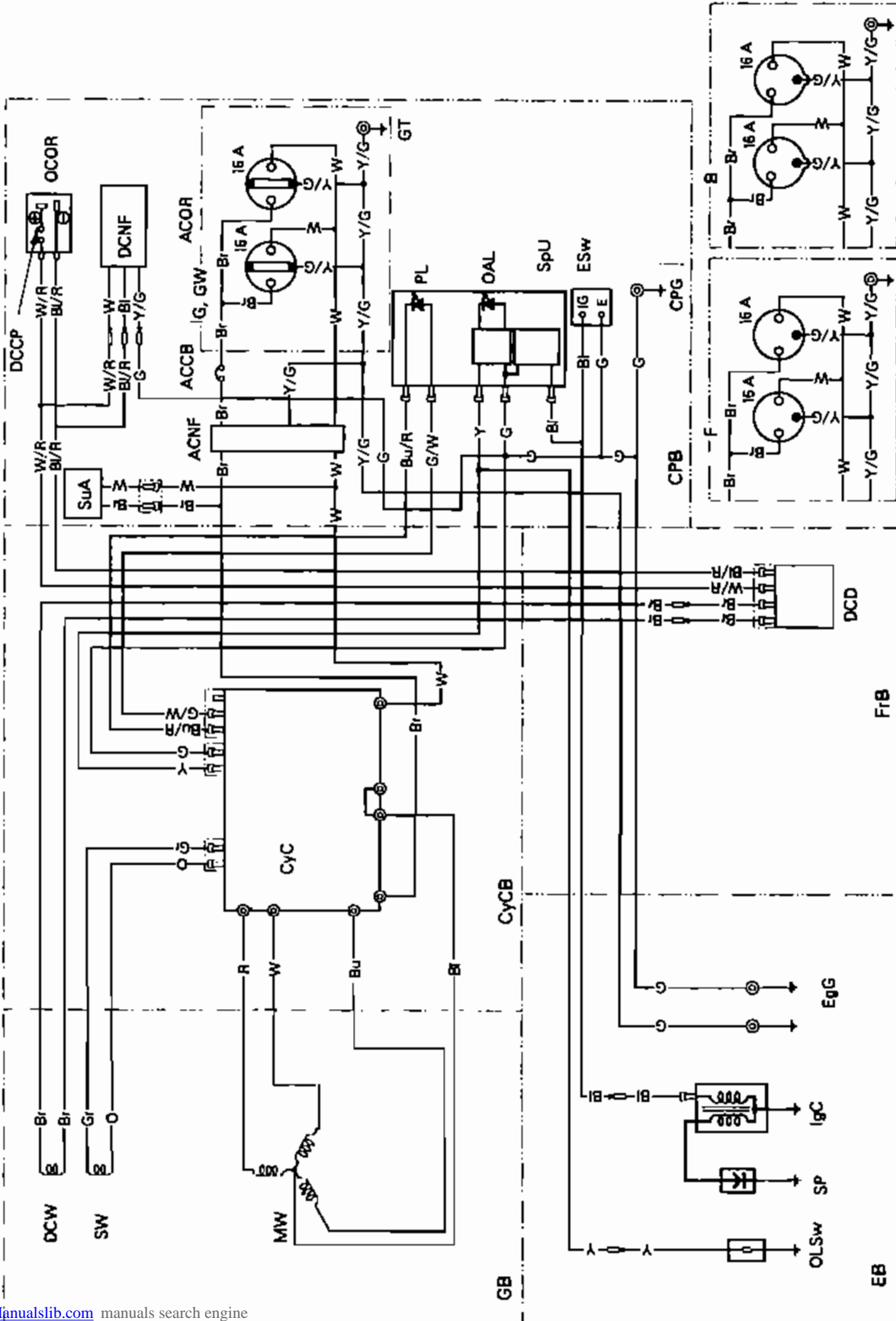
AC CB	AC Circuit Breaker
AC NF	AC Noise Filter
ACOR	AC Output Receptacle
CPB	Control Panel Block
CPG	Control Panel Ground
CyC	Cycloconverter Unit
CyCB	Cycloconverter Block
DC CP	DC Circuit Protector
DC D	DC Diode
DC NF	DC Noise Filter
DCOR	DC Output Receptacle
DC W	DC Winding
EB	Engine Block
EgG	Engine Ground
ESw	Engine Switch
FrB	Frame Block
GB	Generator Block
GT	Ground Terminal
IgC	Ignition Coil
MW	Main Winding
OAL	Oil Alert Indicator
OLSw	Oil Level Switch
PL	Output Indicator
SP	Spark Plug
SpU	Spark Unit
SuA	Surge Absorber
SW	Sub Winding

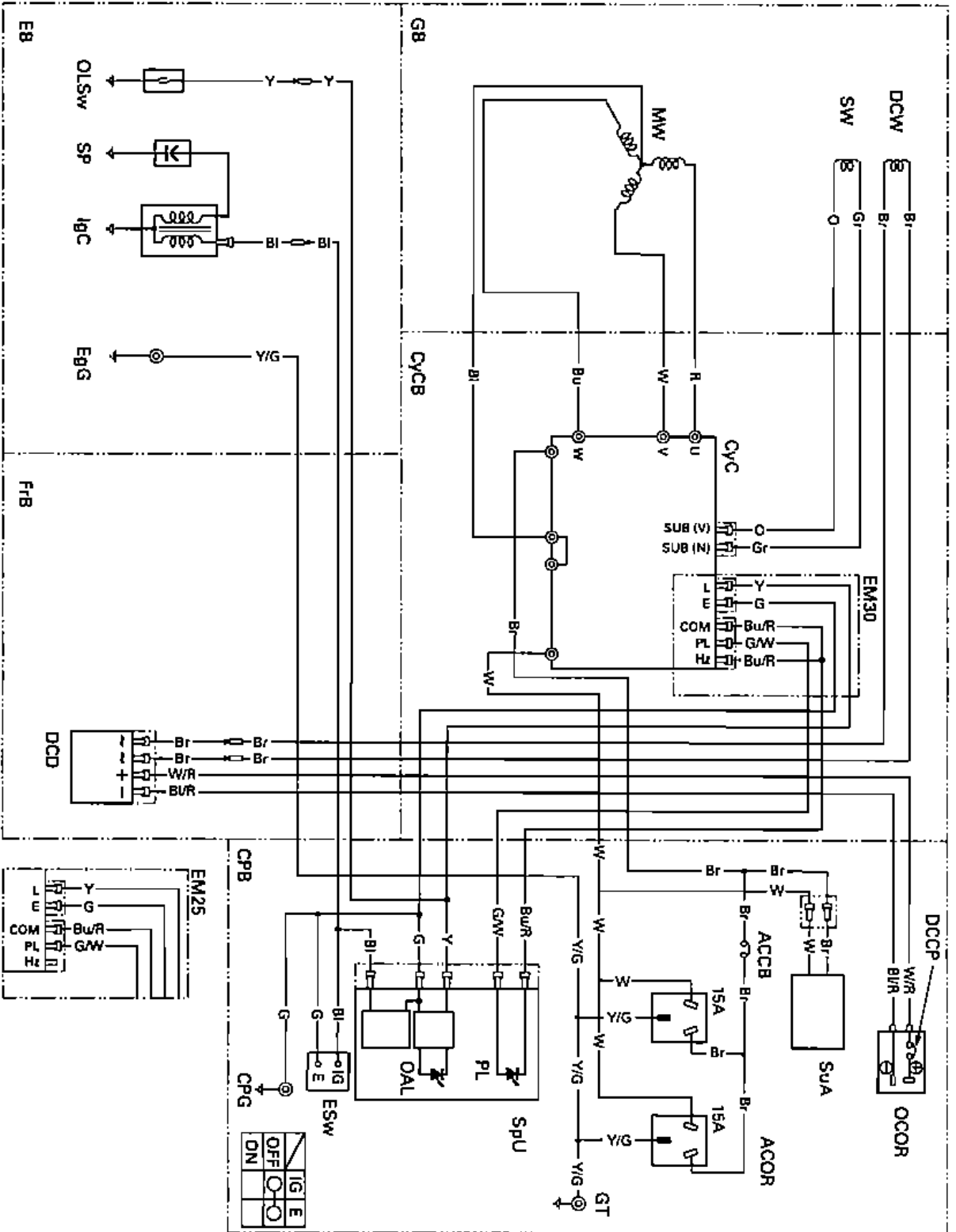
Bl	BLACK
Y	YELLOW
Bu	BLUE
G	GREEN
R	RED
W	WHITE
Br	BROWN
Lg	LIGHT GREEN
Gr	GRAY
Lb	LIGHT BLUE
O	ORANGE
P	PINK

ENGINE SWITCH

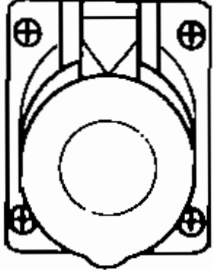
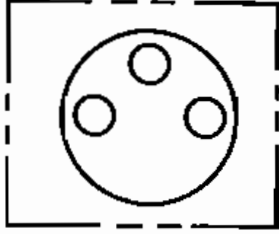
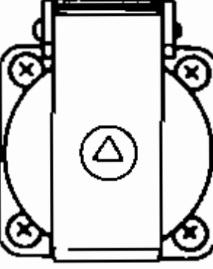

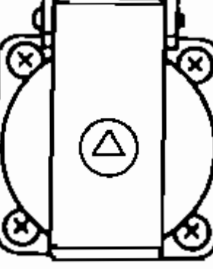
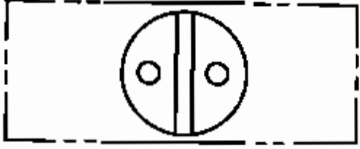
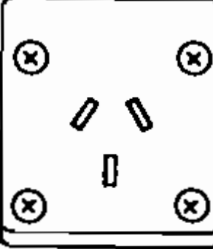
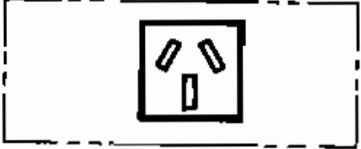
	IG	E
OFF	○	○
ON		

G, GW, B, F types





RECEPTACLE

	Shape	Type
		B
		F
		G, GW
		U

13. MAJOR Honda DISTRIBUTOR ADDRESSES

For European

NAME OF FIRM (COMPANY)	ADDRESS	TEL: FAX:
Honda (U.K.) Limited	470 London Road, Slough, Berkshire, SL38QY, United Kingdom	Tel: 01753-590-590 Fax: 01753-590-000
Honda Europe Power Equipment S.A.	Pole 45 Rue des Chataigniers 45140 Ormes France	Tel: 2-38-65-06-00 Fax: 2-38-65-06-02
Honda Motor Europe (North) GmbH.	Spredlinger, Landstraße 166 D-63069 Offenbach/Main Germany	Tel: 069-63-09-0 Fax: 069-83-09-519
Honda Belgium H.V.	Wijngaardveld 1, 9300 Aalst Belgium	Tel: 053-725-111 Fax: 053-725-100
Honda Italia Industriale S.P.A.	Via delle Cecchignola, 5/7 00143 ROMA	Tel: 06-54928-1 Fax: 06-54928-400
Honde (Suisse) S.A.	Route des Moulières 10 Case postale Ch 1214 Vernier-Geneve, Switzerland	Tel: 022-341-22-00 Fax: 022-341-09-72
Honda Nederland B.V.	Capronilaan 1 1119 NN Schiphol-Rijk Netherlands	Tel: 020-7070000 Fax: 020-7070001
Honda Austria G.M.B.H.	Honda Strasse 1 A-2351 Wiener Neudorf Austria	Tel: 223-66-900 Fax: 223-66-4130
Honda Power Equipment Sweden AB	Västkustvägen 17 202 15 Malmö, Sweden	Tel: 040-600 23 00 Fax: 040-600 23 19
Honda Produtos De Força, Portugal, S.A.	Lugar da Abrunheira S. Pedro de Penaferrim 2710 Sintra, Portugal	Tel: 351-1-9150374 Fax: 351-1-9111021
Berema A/S	Berghagan 5, Langhus Box 454, 1401 Ski Norway	Tel: 64-86-05-00 Fax: 64-86-05-49

For European (continued)

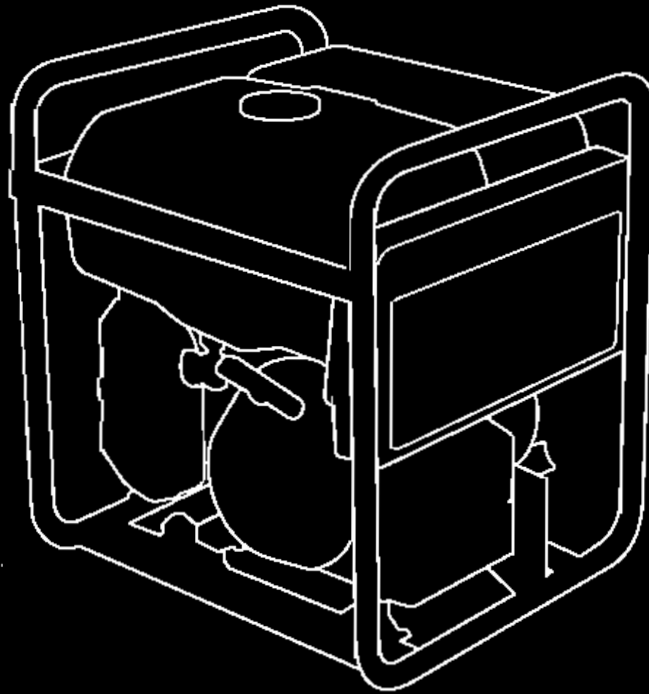
NAME OF FIRM (COMPANY)	ADDRESS	TEL: FAX:
OY Brandt AB	Tuupakantie 4 SF-01740, Vantaa Finland	Tel: 90-895-501 Fax: 90-878-5276
TIMA PRODUCTS A/S	Tårnfalkevej 16, Postboks 511 OK 2650 Hvidovre Denmark	Tel: 31-49-17-00 Fax: 36-77-16-30
Greens	Polig. Industrial Congost 08530, La Garriga (Barcelona), Spain	Tel: 93-871-84-50 Fax: 93-871-81-80
Automocion Canarias S.A. (AUCASA)	Apartado de Correos, num 206 Santa Cruz de Tenerife Canary Island	Tel: 922-61-13-50 Fax: 922-61-13-44
The Associated Motors Company Ltd.	148, Rue D'Argens, Msida Malta	Tel: 356-333001 Fax: 356-340473
Two Wheels Ltd.	Crosslands Business Park, Ballymount Road, Dublin 12, Ireland	Tel: 4602111 Fax: 4566539
General Automotive Co., S.A.	P.O. Box 1200, 101 73 Athens Greece	Tel: 346-5321 Fax: 346-7329
8G Technik s.r.o	Radlická 117/520 158 01 Praha 5 Czech Republic	Tel: 2-5694 573 Fax: 2-5694 571
Aries Power Equipment Ltd.	01-493 Warszawa, ul Wroclawske 25a Poland	Tel: 22-685 17 06 Fax: 22-685 16 03
MO. TOR. PEDO Ltd.	2040 Buda-rs, Kamaraerdei-t 3, Hungary	Tel: 23-444-971 Fax: 23-444-972

For Australian

NAME OF FIRM (COMPANY)	ADDRESS	TEL: FAX:
Honde Austrelia Motorcycle and Power Equipment Pty. Ltd	1954-1956 Hume Highway Campbellfield Victoria 3061	Tel: (03) 9270 1111 Fax: (03) 9270 1133

HONDA
POWER PRODUCTS

GENERATOR EM25/EM30



**OWNER'S MANUAL
MANUEL DE L'UTILISATEUR
BEDIENUNGSANLEITUNG**

