HONDA

PORTABLE GENERATOR

EG1500

OWNER'S MANUAL

This manual covers operation and maintenance of the EG1500 generator. 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.

The manual should be considered a permanent part of the generator and remain with the generator when sold.

Read the manual carefully. Pay special attention to statements preceded by the following words:

WARNING

Indicates a possibility of personal injury or loss of life if instructions are not followed.

CAUTION

Indicates a possibility of equipment damage if instructions are not followed.

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

Thank you for purchasing a Honda Generator.

WARNING

The 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.

CONTENTS

GENERATOR SAFETY

WARNING

To ensure safe operation.

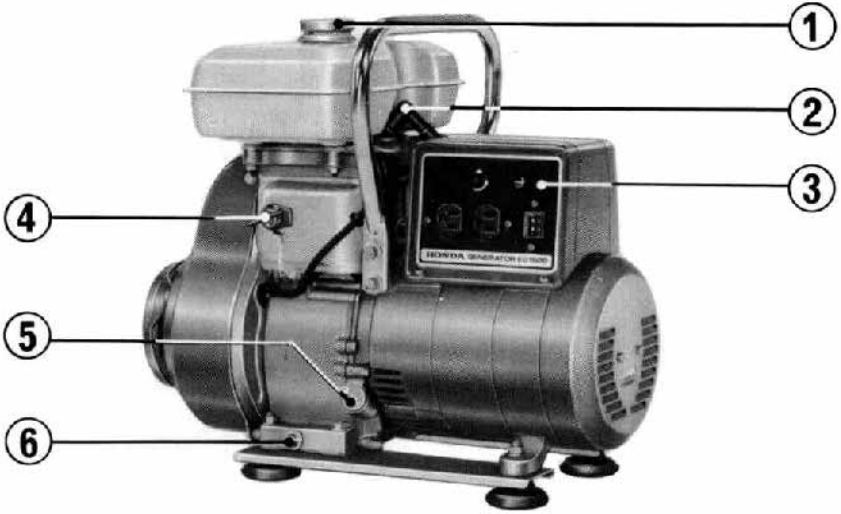
- *Know how to stop the generator quickly and understand operation of all the controls. Never permit anyone to operate the generator without proper instruction.*

- *Keep children and pets away from the generator when in operation.*

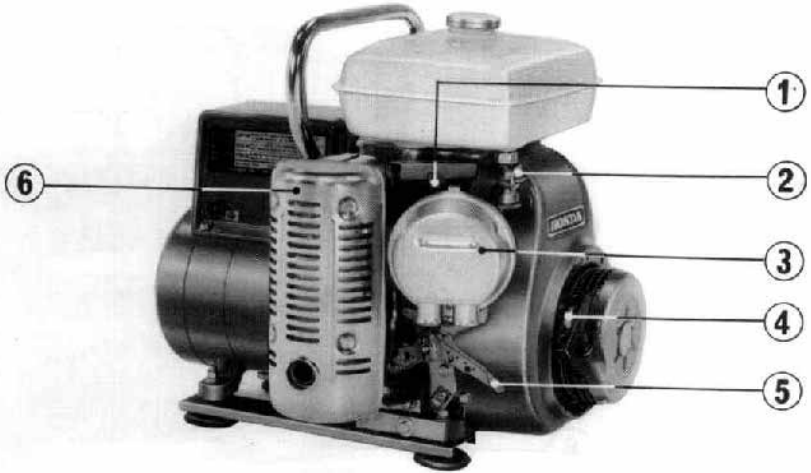
- *The generator is a potential source of electrical shock when misused: Do not operate with wet hands. Do not operate in rain or snow.*

COMPONENT IDENTIFICATION

1. Fuel Filler Cap
2. Spark Plug Cap
3. Controle Box
4. Engine Switch
5. Oil Filler Cap
6. Oil Drain Plug



1. Choke Lever
2. Fuel Valve
3. Air Cleaner
4. Starter
5. Throttle Lever
6. Muffler



CONTROL BOX

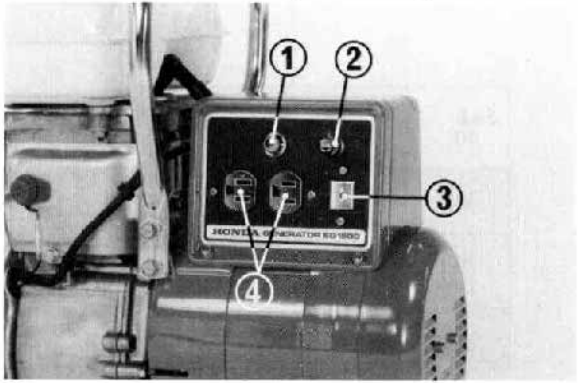
1. PILOT LAMP. Lights when the engine is running.

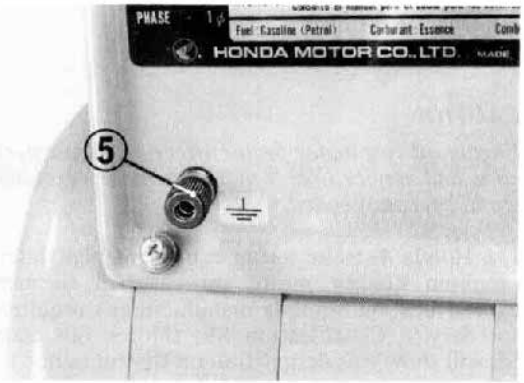
2. FUSE HOLDER. Houses a 15A fuse for the AC circuit.

3. FREQUENCY METER. Indicates generator frequency by oscillation.

4. AC RECEPTACLES. The maximum power available is 1.5 KVA (1500 watts).

5. GROUND TERMINAL.





OPERATION

WARNING

- *Exhaust gas contains poisonous carbon monoxide. Never run the generator in an enclosed area. Be sure to provide adequate ventilation.*
- *Operate the generator on a level surface. If the generator is tilted, fuel spillage may result.*
- *Keep away from rotating parts while the generator is running.*

CAUTION

The generator is air-cooled and may be damaged if ventilation is inadequate.

Pre-Operation Check

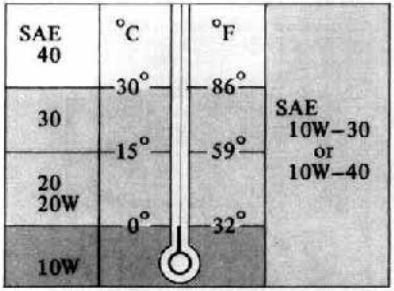
1. Check the engine oil level.

CAUTION

Engine oil is a major factor affecting engine performance and service life. Non-detergent or vegetable oils are not recommended.

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

SAE 10W-40 is recommended for general, all-temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area.



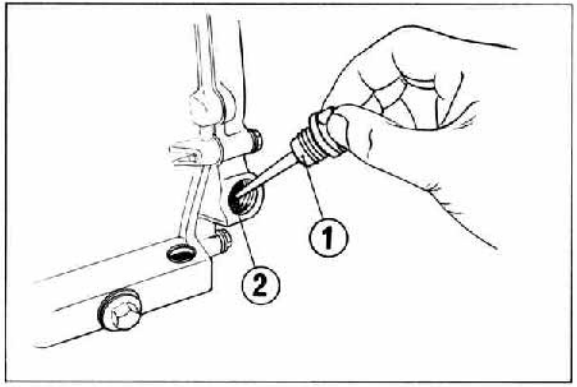
A. With the generator on a level surface, remove the oil filler cap and check the oil level.

B. If the level is below the lower limit, fill to the upper limit. Do not overfill; excess oil will result in power loss and smoking.

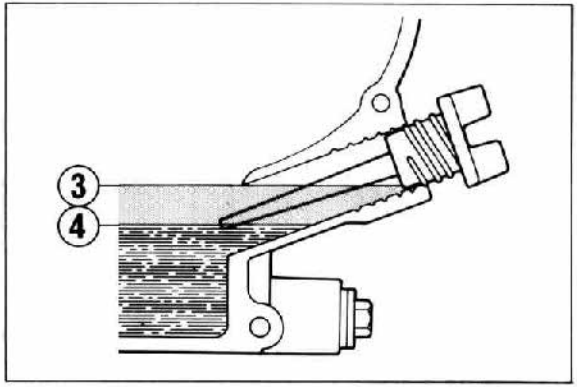
CAUTION

Running the engine with insufficient oil can cause serious engine damage.

(1) Oil filler cap
(2) Oil filler hole



(3) Upper limit
(4) Lower limit



2. Check the fuel level

Use automotive gasoline with a research octane of 91 or higher or a pump octane $(\frac{R+M}{2})$ of 86 or higher.

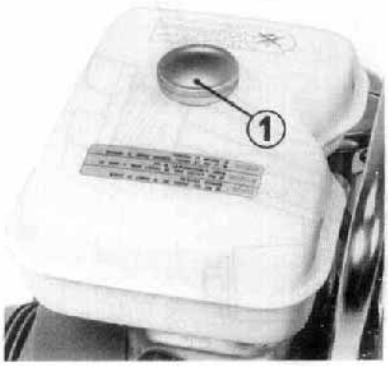
Fill to half-way up the filler screen.
Never use an oil/gasoline mixture or dirty gasoline.
Avoid getting dirt, dust or water in the fuel tank.

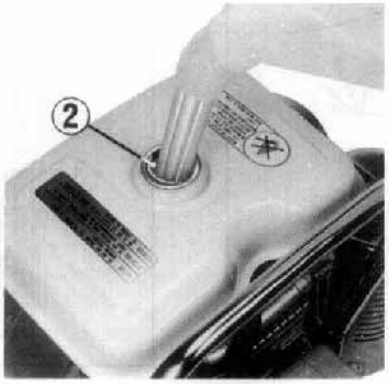
WARNING

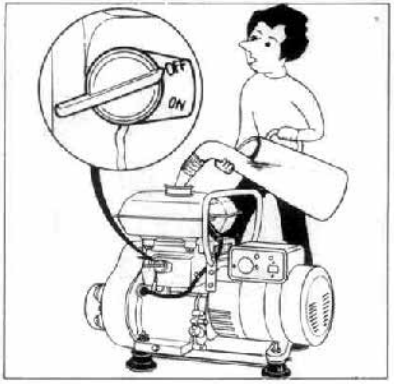
- *Gasoline is extremely flammable and explosive under certain conditions. Refuel in a well ventilated area with the engine stopped.*
- *Do not smoke or allow open flames or sparks in the area where the generator is refueled or where gasoline is stored.*
- *Do not overfill the tank.*
- *Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. Wipe up any spilt gasoline and let the area dry before starting the engine.*
- *Make sure the filler cap is securely closed after refueling.*

3. Disconnect any appliances. The generator may be difficult to start if a load is connected.

(1) Fuel filler cap (2) Fuel filler hole







Starting the Engine

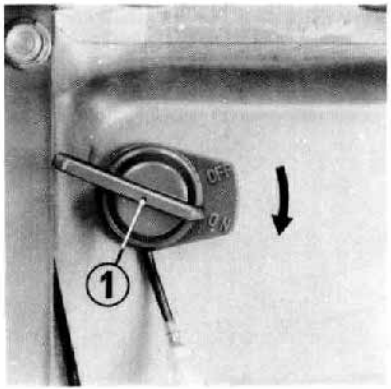
1. Turn the engine switch "ON" and turn the fuel valve to "ON".

2. Close the choke fully.

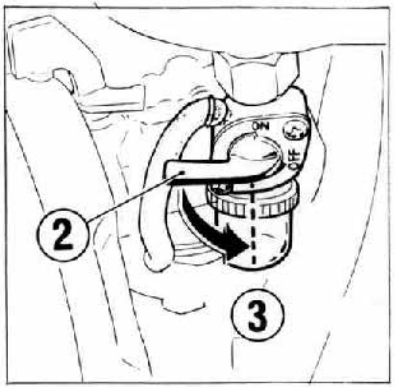
NOTE:

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

(1) Engine switch



(2) Fuel valve
(3) "ON" position



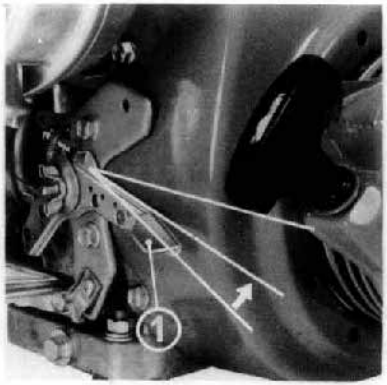
(4) Choke lever
(5) "CLOSE" position

3. Raise the throttle lever slightly.

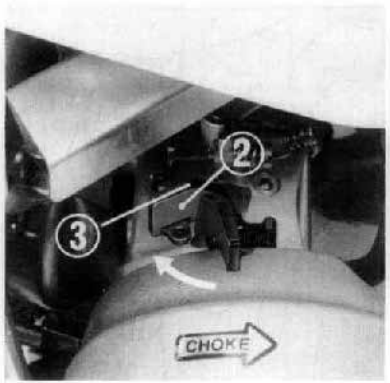
4. Pull the starter rope lightly until compression is felt, then pull briskly.

5. Open the choke as the engine warms up. Move the throttle to "NORMAL".

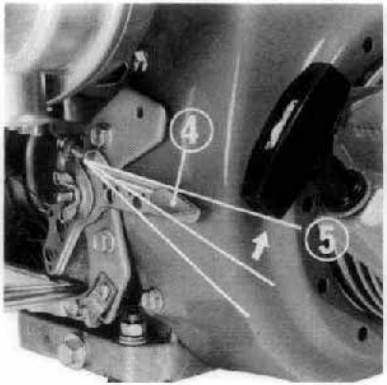
(1) Throttle lever



(2) Choke lever
(3) "OPEN" position



(4) Throttle lever
(5) "NORMAL" position



Stopping the Engine

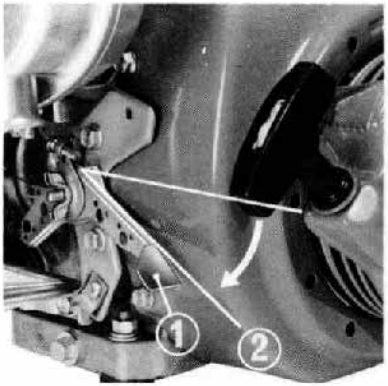
Reduce engine speed to an idle before stopping the engine. Shutting off abruptly from high speed operation can cause flooding and difficult starting.

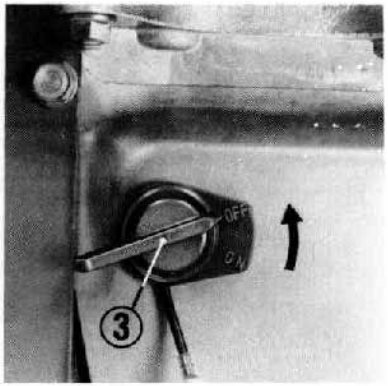
1. Adjust the throttle to "LOW".
2. Allow the engine to idle 1–2 minutes and switch "OFF".
3. Turn the fuel valve to "OFF".

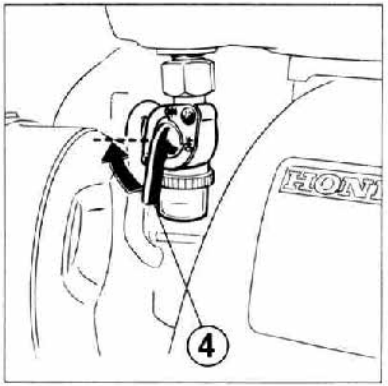
NOTE:

To stop the engine in an emergency, switch the engine "OFF".

(1) Throttle lever
(2) "LOW" position
(3) Engine switch
(4) Fuel valve







GENERATOR USE

WARNING

To prevent electrical shock from faulty appliances the generator should be grounded. Connect a length of heavy wire between the ground source and the terminal at the rear of the control box.

CAUTION

Do not connect the generator to a household electrical circuit. This could cause an overload and seriously damage the generator.

1. Start the engine and make sure that the pilot lamp lights. If it does not, the filament may be burnt out.

(1) Pilot lamp

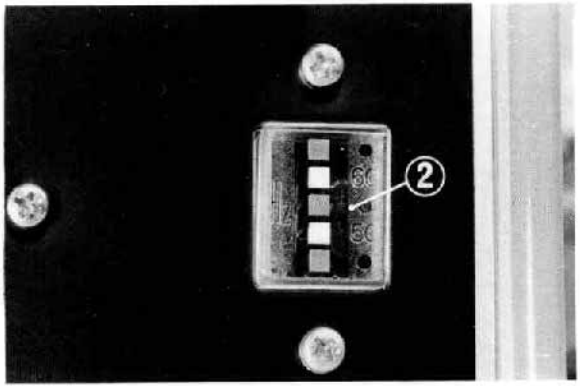
2. Verify that the generator is operating at 60Hz. If not,turn the throttle adjusting screw to obtain the proper frequency.
3. Plug in the appliance.

NOTE:

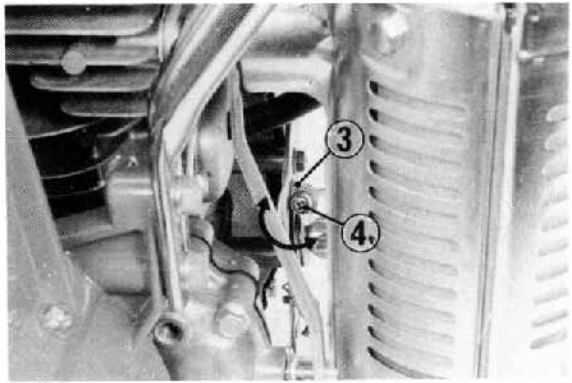
Watch the frequency meter carefully when connecting a tape recorder or radio. If the frequency drops, readjust the throttle as required.

The generator is equipped with an AVR (Auto Voltage Regulator). Voltage need not be adjusted if the frequency is adjusted properly. If the generator does not produce the specified voltage at the proper frequency, consult an authorized HONDA dealer.

(2) Frequency meter



(3) Throttle lever
(4) Throttle adjusting screw



MAINTENANCE

The purpose of the maintenance schedule and adjustment is to keep the generator in the best operating condition.
Perform inspections as scheduled in the table on page 17.

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

Maintenance Schedule

ITEM / REGULAR SERVICE PERIOD (Perform at every indicated month or operating hour intervals, whichever occurs first.)		Daily	First 1 month or 20 Hrs. operating	Every 3 months or 50 Hrs. operating	Every 6 months or 150 Hrs. operating	Every one year or 300 Hrs. operating
Engine oil	Inspection	○				
	Change		○		○	
Air cleaner element	Inspection	○				
	Cleaning			○ (1)		
Fuel filter cleaning					○	
Spark plug maintenance					○	
Ignition timing adjustment						○ (2)
Valve clearance adjustment						○ (2)
Combustion chamber and valve cleaning						○ (2)
Fuel tube inspection (Replace if necessary)						○

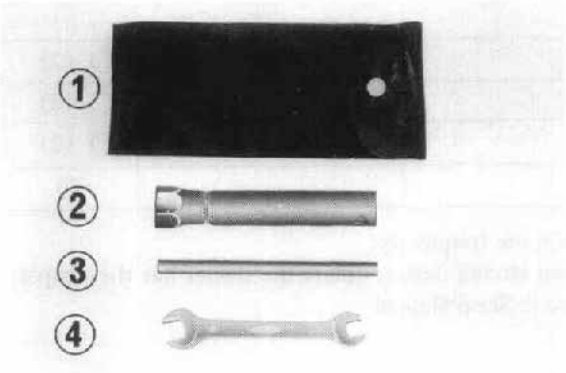
NOTE (1): When used in dusty areas, service the air cleaner more frequently.

(2): These items should be serviced by an authorized Honda dealer, unless the owner has the proper tools and is mechanically proficient. See the Honda Shop Manual.

Tool Kit

The tools supplied are necessary for performing periodic maintenance, simple adjustments and repairs. Always keep the kit with the generator.

(1) Tool bag
(2) Plug wrench
(3) Plug wrench handle
(4) End wrench, 10x12 mm

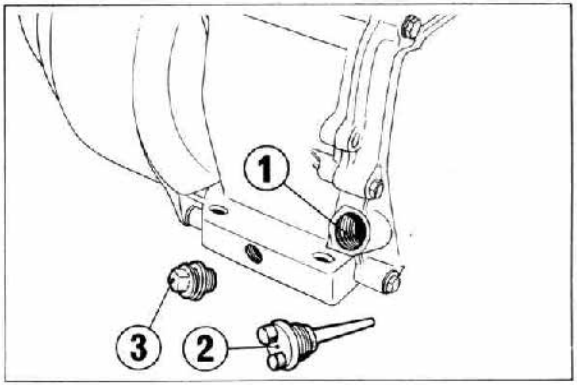


Changing Oil

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

1. Remove the drain plug, drain the oil, and re-tighten the plug securely.
2. Refill with the recommended oil (see p. 8) and check the level.

(1) Oil filler hole
(2) Oil filler cap
(3) Drain plug



Air Cleaner Service

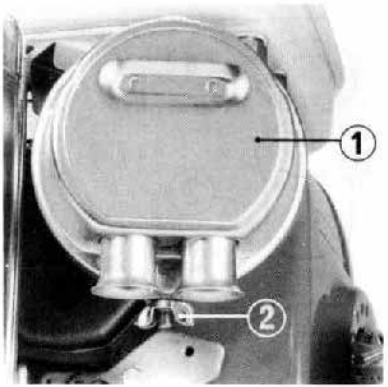
A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly.

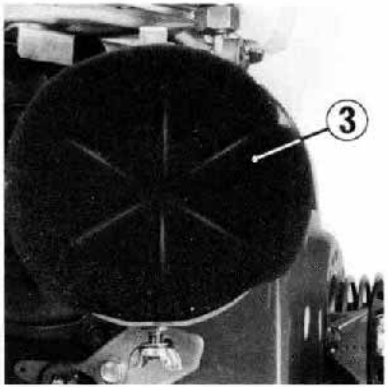
WARNING

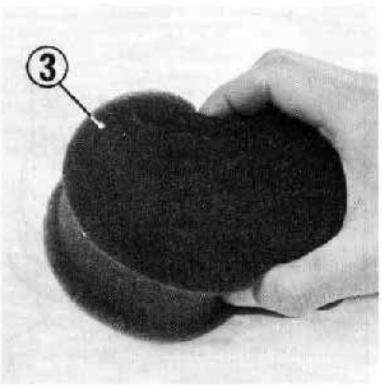
Do not use gasoline or low flash point solvents for cleaning. They are flammable and explosive under certain conditions.

1. Loosen the wing nut, remove the air cleaner cover and remove the element.
2. Wash the element in a non-flammable or high flashpoint solvent and dry it thoroughly.
3. Soak the element in clean engine oil and squeeze out the excess oil.

(1) Air cleaner cover
(2) Wing nut
(3) Element





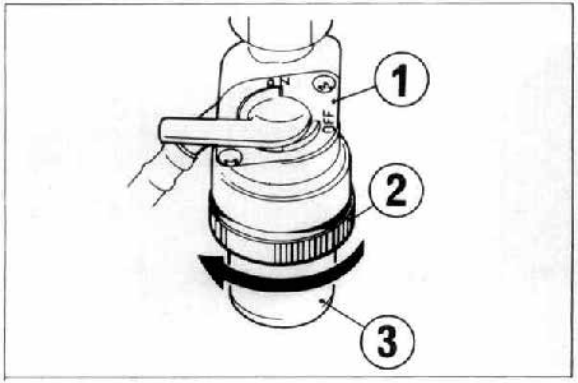


Fuel Filter Service

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 to "OFF". Remove the ring nut and strainer cup.
2. Clean the cup thoroughly. Remove any sediment with a cloth.
3. Re-assemble. Do not damage the rubber gasket.

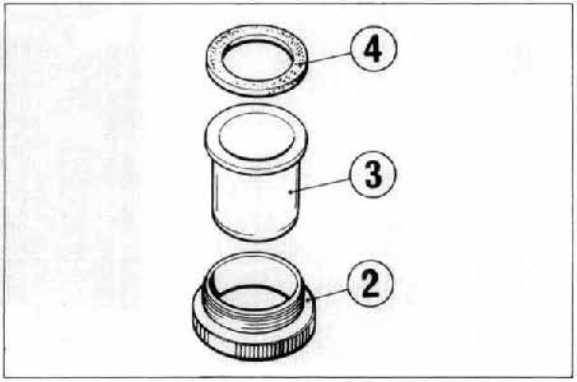
(1) Fuel valve (2) Ring nut (3) Filter cup



WARNING

After installing the filter cup, be sure to tighten the ring nut securely. Check for fuel leaks and remove any spilled fuel prior to starting.

(4) Rubber gasket

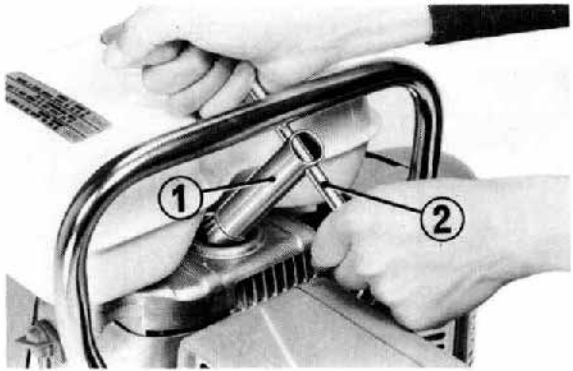


Spark Plug Service

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

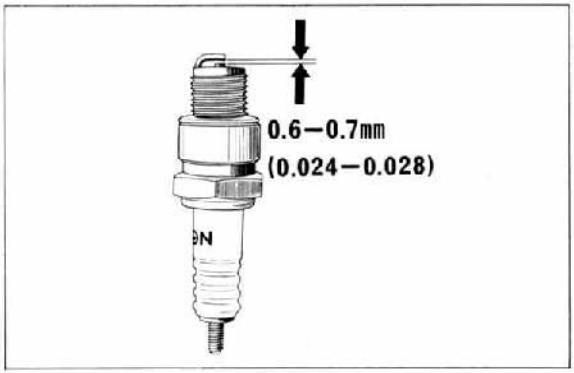
1. Remove the spark plug with the plug wrench.
2. Use a wire brush to remove carbon deposits. Do not damage the electrodes.
3. Check the plug gap with a feeler gauge. Correct as necessary. Do not bend the center electrode.

(1) Spark plug wrench
(2) Plug wrench handle



CAUTION

The spark plug must be securely tightened. An improperly tightened plug can damage the generator.



Ignition Timing Adjustment

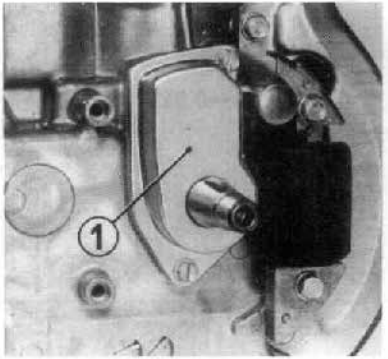
Check the timing when specified by the periodic maintenance chart. Improper timing can cause starting difficulty and loss of power.

1. Remove the fan shroud and flywheel, and the point cover.
2. Using the woodruff key remount the flywheel on the crankshaft and check that the points start to open when the "F" mark on the flywheel passes the aligning mark on the crankcase.

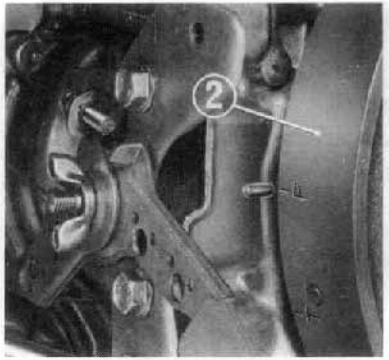
If timing is not correct ———

3. Loosen the 5 mm screw and move the breaker plate to the right or left as required. Retighten the screw and recheck the timing.

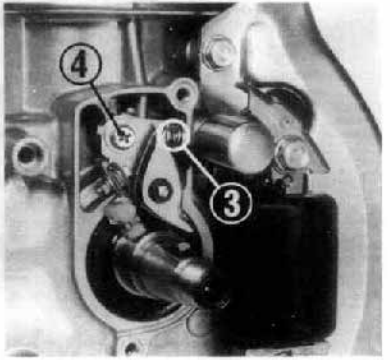
(1) Point cover



(2) Flywheel



(3) Contact breaker points
(4) 5 mm screw



TRANSPORTING/STORAGE

WARNING

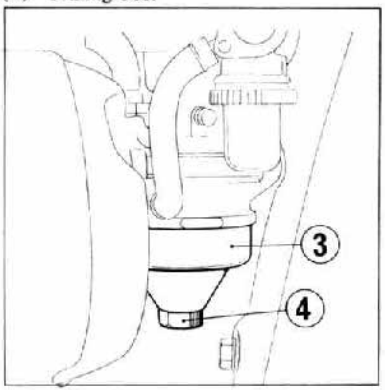
When transporting the generator, shut off the fuel valve and keep the generator level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

Before storing the unit for an extended period:

1. Assure that the storage area is free of excessive humidity and dust.
2. Drain the fuel tank –
   a. With the fuel valve at "OFF", remove the fuel filter cup.
   b. Turn the valve to "ON" and allow the tank to drain completely.
3. Drain the carburetor –
   Loosen the carburetor sealing bolt. The gas will drain through the bolt hole.
4. Pull the starter rope so that the mark on the pulley is aligned with the index on the fan shroud. With the mark in this position on the compression stroke, the valves and points are closed. This helps protect the engine from corrosion.

(1) Fuel valve
(2) Fuel filter cup

(3) Carburetor
(4) Sealing bolt



(5) Marks

TROUBLESHOOTING

A) Difficult Starting

(1) Remove any appliances that may be connected to the generator.
(2) Check the fuel level.
(3) Check choke position.

B) No Electricity at the Outlet Receptacles

(1) Be sure the A.C. fuse is good.
(2) Check the electrical appliance or equipment for any defects.

C) Generator Voltage is Low

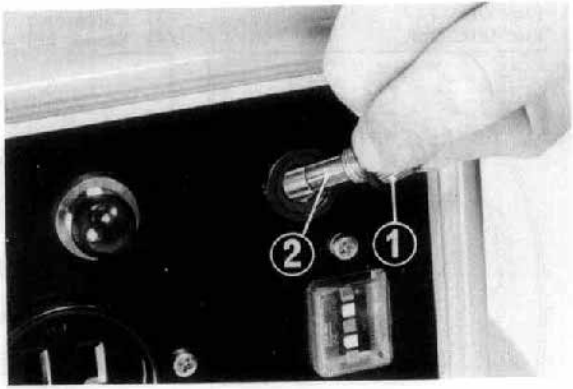
(1) Check for correct frequency and adjust engine speed as required.

D) Fuse Replacement

Before replacing a blown fuse, determine the cause and correct the problem.
Remove the old fuse by turning the holder counterclockwise.

Specified fuse: 15A

(1) Fuse holder
(2) Fuse



SPECIFICATIONS

Dimension and Weight

Length x Width x Height	525 x 390 x 450 mm (20.7 x 15.4 x 17.7 in.)
Dry weight	34.5kg (76 lbs)

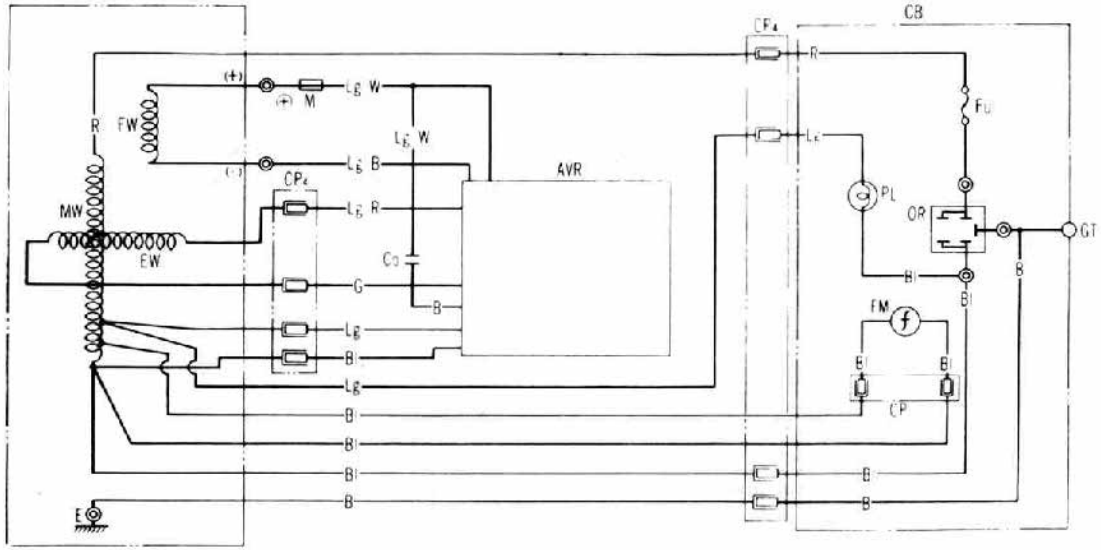
Engine

Model	Honda G200
Engine Type	4 cycle side valve, 1 cylinder, forced air cooled
Displacement [Bore x Stroke]	197cc (12.0 cu.in.) [67 x 56 mm (2.6 x 2.2 in.)]
Ignition timing	BTDC 20° (fixed)
Ignition	Flywheel magneto
Oil capacity	0.7ℓ(1.5 US.pt.)
Fuel tank capacity	3.5ℓ(0.93US.gal.)
Spark plug	BR-4HS (NGK)

Generator

AC output	Rated voltage	115V
	Rated output	1.2 KVA(1200W) [10.4A]
	Max output	1.5KVA(1500W)
	Cycles	60 Hz

WIRING DIAGRAM



	Part Name
AVR	Automatic Voltage Regulator
CB	Control Box
Co	Condenser
CP_2	2P Connector
CP_4	4P Connector
E	Ground
GT	Ground Terminal
EW	Exciter Winding
FM	Frequency Meter
Fu	Fuse
FW	Field Winding
Ge	Generator Block
MW	Main Winding
OR	Output Receptacle
PL	Pilot Lamp
⊕ M	+ Mark

	Color
B	Black
Bℓ	Blue
Br	Brown
G	Green
Lg	Light Green
Lg/B	Light Green/Black
Lg/R	Light Green/Red
Lg/W	Light Green/White
R	Red
W	White

Current customer service contact information:

United States, Puerto Rico, and U.S. Virgin Islands:

Honda Power Equipment dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Power Equipment Customer Relations Office. You can write:

American Honda Motor Co., Inc.
Power Equipment Division
Customer Relations Office
4900 Marconi Drive
Alpharetta, GA 30005-8847

Or telephone: (770) 497-6400 M-F, 8:30 am - 5:00 pm EST

When you write or call, please provide the following information:

- Model and serial numbers
- Name of the dealer who sold the Honda power equipment to you
- Name and address of the dealer who services your equipment
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

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