HONDA



This manual covers operation and maintenance of the E1500 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.

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

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 4	
COMPONENT IDENTIFICATION	,
CONTROL BOX	7
OPERATION 8	}
GENERATOR USE14	
MAINTENANCE	į
TRANSPORTING/STORAGE	
TROUBLESHOOTING	į
SPECIFICATIONS	
WIRING DIAGRAM	7

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.

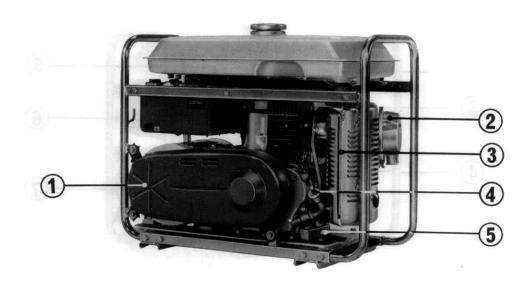


COMPONENT IDENTIFICATION

- (1) Fuel filler cap
- (2) Fuel valve
- (3) Choke rod
- (4) Recoil starter
- (5) Control box
- (6) Cord hanger
- (7) Generator

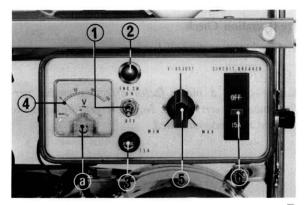


- (1) Belt cover
- (2) Air cleaner
- (3) Muffler
- (4) Oil filler cap
- (5) Oil drain plug



CONTROL BOX

- ENGINE SWITCH. Turn "ON" before starting the engine. Turn "OFF" to stop the engine.
- (2) PILOT LAMP. Lights when the engine is running.
- FUSE HOLDER. Houses a 15A fuse for the D.C. circuit.
- (4) VOLTMETER. Indicates voltage being generated. If the meter does not register "0" when the motor is not running, turn the adjusting screw (a) in the meter face to zero the needle.
- (5) VOLTAGE CONTROL KNOB. Fine adjustments can be made by use of the knob.
- (6) A.C. SWITCH (CIRCUIT BREAKER). The switch has two functions:
 - A) It switches A.C. power "ON" or "OFF" when the generator is running.
 - B) As a safety device (circuit breaker), the switch will automatically snap "OFF" if the A.C. circuit is overloaded.



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

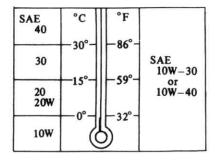
The generator is air-cooled and may be damaged if ventilation is inadequate.

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.

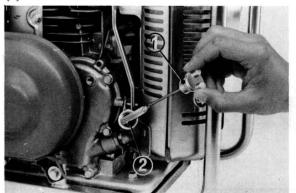


- A. With the generator on a level surface, remove the oil filler cap and check the oil level.
- B. If the level is below the lower limit, fill to the upper limit. Do not overfill; excess oil will result in power loss and smoking.

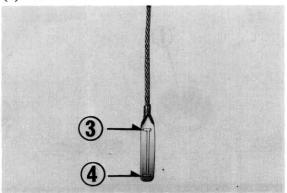
CAUTION

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.

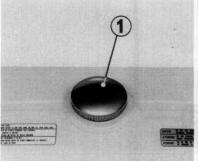
Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust or water in the fuel tank.

WARNING

* Gasoline is extremely flammable and explosive under certain conditions: Refuel in a well ventilated area with the engine stopped.

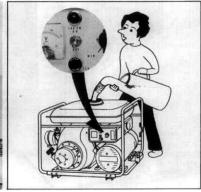
- * Do not smoke or allow open flames or sparks in the area where the generator is re-fueled or where gasoline is stored.
- * Do not overfill the tank.
- * Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. Wipe up any spilt gasoline and let the area dry before starting the engine.
- * Make sure the filler cap is securely closed after refueling.
- 3. Be sure that the A.C. switch is "OFF."

(1) Fuel filler cap



(2) Fuel filler hole





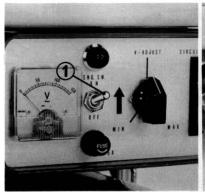
Starting the Engine

- Turn the engine switch "ON" and turn the voltage control knob to the middle of its range.
- Turn the fuel valve to "ON". Close the choke fully.

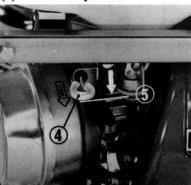
(1) Engine switch

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

- (4) Choke rod
- (5) "CLOSE" position

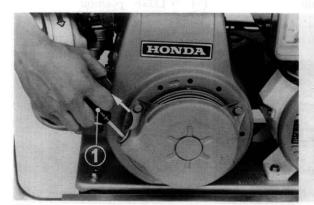




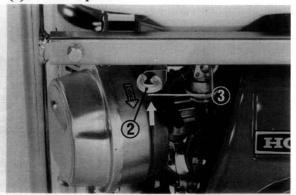


- 3. Pull the recoil starter rope lightly until resistance is felt, then pull swiftly.
- 4. Open the choke as the engine warms up.

(1) Starter rope



- (2) Choke rod
- (3) "OPEN" position

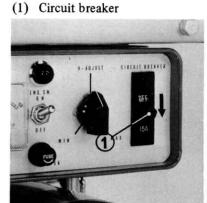


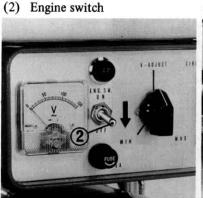
Stopping the Engine

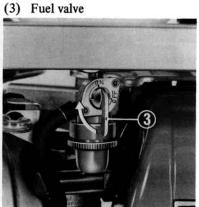
To stop the engine in an emergency, turn the engine switch "OFF".

In normal use:

- 1. Switch the A.C. power "OFF".
- 2. Turn the engine switch "OFF".
- 3. Turn the fuel valve to "OFF".







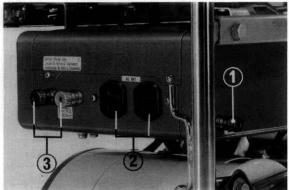
GENERATOR USE

A.C. Applications

The maximum power available at the A.C. receptacle is 1.5 KVA (1,500 watts).

CAUTION

- * Operation requiring maximum power should be limited to 30 minutes. For continuous operation, a maximum of 1.25 KVA (1,250 watts) should be observed.
- (1) Ground terminal
- (3) D.C. terminals
- (2) A.C. receptacles



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

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 generator.

1. Plug the appliance cord into the A.C. receptacle; switch the A.C. power "ON".

2. If the voltage drops, reset the voltage adjust knob as required.

A cord hanger is provided to prevent the cord from being accidentally pulled from the receptacle. Wind the cord around the hanger several times.

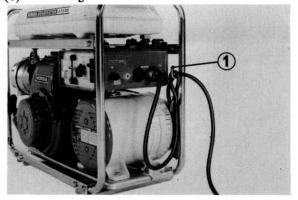
D.C. Application

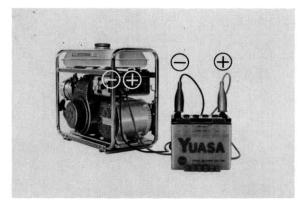
CAUTION

Use the D.C. terminals for charging 12 volt automotive type batteries only. Check the positive (+) and negative (-) side and make a proper connection. Do not reverse the polarity of the terminals when charging a battery. Serious damage to the generator and/or battery may occur.

NOTE: The D.C. terminals may be used while the A.C. outlet is in use.

(1) Cord hanger





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

operating	VICE PERIOD very indicated month or hour intervals, which-ccurs 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	0				
Engine oil	Change		0		0	
Air cleaner element	Inspection	0				
	Cleaning			0(1)		
Fuel filter cleaning					0	
Spark plug maintenance					0	
Drive belt adjustment					0	
Ignition timing adjusts	ment					0 (2)
Valve clearance adjust	ment					0 (2)
Combustion chamber and valve cleaning						0 (2)
Fuel tube inspection (Replace if necessary)						0

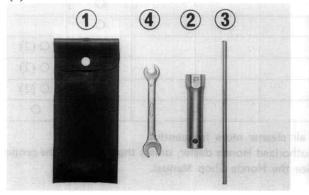
NOTE (1): When used in dusty areas, service the air cleaner more frequently.

(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

A tool kit is supplied with every new generator and should always be kept with the generator.

- (1) Tool bag
- (2) Plug wrench
- (3) Plug wrench handle
- (4) End wrench 12x10 mm

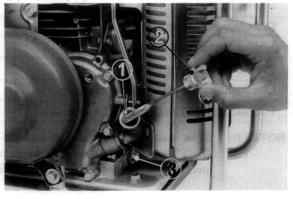


Changing Oil

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

- Remove the drain bolt, drain the oil, and retighten the bolt securely.
- 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

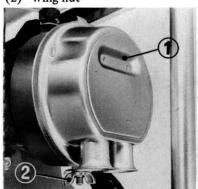
WARNING

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

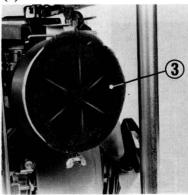
- Loosen the wing nut to remove the cover. Remove the cleaner element.
- 2. Wash the element in a non-flammable or high flashpoint solvent and dry thoroughly.
- 3. Soak the element in clean engine oil and squeeze out the excess.

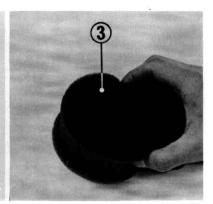
(1) Air cleaner cover

(2) Wing nut



(3) Element

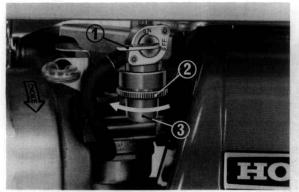




Fuel Filter Service

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.

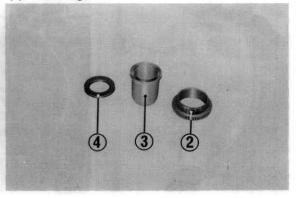
- Turn the fuel valve to "OFF". Remove the ring nut and cup.
- 2. Clean the cup thoroughly.
- 3. Re-assemble. Do not damage the rubber gasket.
- (1) Fuel valve
- (2) Ring nut



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.

- (3) Filter cup
- (4) Rubber gasket



Spark Plug Service

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

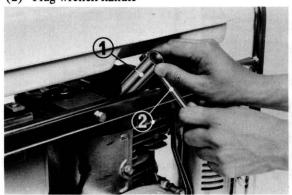
- 1. Remove the spark plug with the plug wrench.
- 2. Use a wire brush to remove deposits from the electrodes. Do not damage the electrodes.
- Check the plug gap with a feeler gauge. Correct as necessary. Do not bend the center electrode.
- 4. Replace the plug.

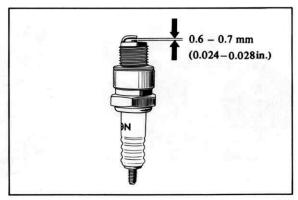
CAUTION

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

(1) Spark plug wrench

(2) Plug wrench handle





Drive Belt Adjustment

A loose or slipping belt will cause a drop in output power.

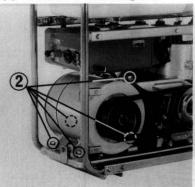
- Remove the belt cover and check tension by pushing the middle of the belt. There should be approximately 3 mm (0.12 in.) of slack.
- To adjust tension, loosen the generator mounting bolts, loosen the lock nut on the adjusting bolt, and turn the bolt.

CAUTION

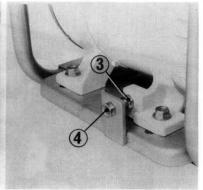
An overtightened drive belt will cause rapid bearing wear.

Retighten the lock nut and mounting bolts securely.

- (1) Belt
- 3 mm (012 in)
- (2) Generator mounting bolt



- (3) Lock nut
- (4) Adjusting bolt



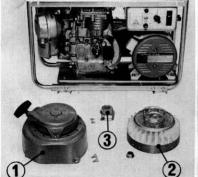
Ignition Timing Adjustment

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

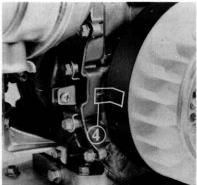
- Remove the fan shroud and flywheel, and the point cover.
- 2. Using the woodruff key remount the flywheel on the crankshaft and check that the points

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

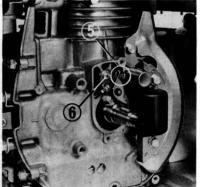
- (1) Fan'shroud
- (2) Flywheel
- (3) Point cover



(4) "F" mark and aligning mark



- (5) Contact breaker points
- (6) 5mm screw



TRANSPORTING/STORAGE

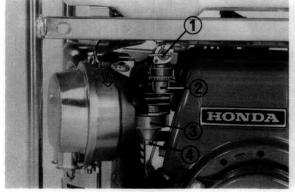
WARNING

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:

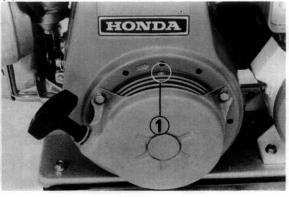
1. Assure that the storage area is free of excessive humidity and dust.

- (1) Fuel valve (3) Carburetor
- Strainer cup (4) Sealing bolt



- 2. Drain the fuel tank -
 - A. Turn the fuel valve "OFF" and disconnect the fuel tube at the carburetor.
 - B. Turn the valve "ON" and drain the gasoline into a suitable container.
 - C. Remove the filter cup.
- 3. Drain the carburetor by loosening the sealing bolt. Drain the gasoline into a suitable container.
- 4. Pull the starter rope so that the mark is aligned with the index mark on the fan shroud on the compression stroke. This helps protect the engine from corrosion.

(1) Marks



TROUBLESHOOTING

A) Difficult Starting

- 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. switch is "ON".
- Check the electrical appliance or equipment for any defects.

C) Generator Voltage is Low

1) Check for slipping drive belt.

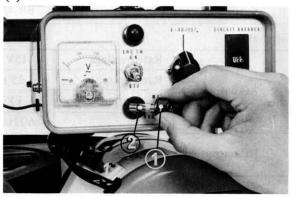
D) Fuse Replacement

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	610 x 350 x 505 mm (24.0 x 13.8 x 19.9 in.)
Dry weight	47.5 kg (105 lbs)

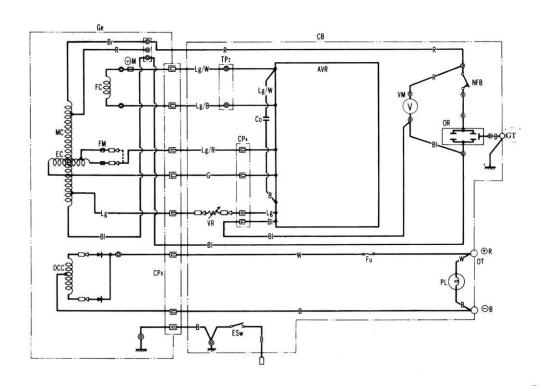
Engine

Model	Honda G200
Engine Type	4 cycle, side valve, 1 cylinder, forced air cooled
Displacement [Bore x Stroke]	197.3 cc (12.0 cu.in.) [67 x 56 mm (2.6 x 2.2 in.)]
Ignition timing	20° BTDC, fixed
Ignition	Flywheel magneto
Oil capacity	0.78 (1.5 US. pt.)
Fuel tank capacity	9.28 (2.4 US. gal.)
Spark plug	BR-4HS (NGK)

Generator

	Rated voltage	115V
	Rated output	1.25 KVA (1,250W) [10.9A]
AC output	Max output	1.5 KVA (1,500W)
	Cycles	60 Hz
DC output		Only for charging 12V automotive batteries.
		Maximum charging output: 8.3A

WIRING DIAGRAM



	Part Name		
MC	Main Coil		
EC	Exciter Coil		
FC	Field Coil		
Ge	Generator Block	Generator Block	
DCC	DC Armature Coil		
⊕ M	① Mark		
FM	Frequency Mark		
CP ₈	8P Connector		
TP ₂	2P Outer Terminal		
Co	Condenser		
CP ₄	4P Connector		
VR	Variable Resistor		
ESw	Engine Switch		
СВ	Control Box Block		
Fu	Fuse		
VM	Volt Meter		
NFB	Circuit Breaker		
OR	AC Output Receptacle		
GT	Ground Terminal		

	Color	
В	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



K4

AH MB20007807 PRINTED IN JAPAN