

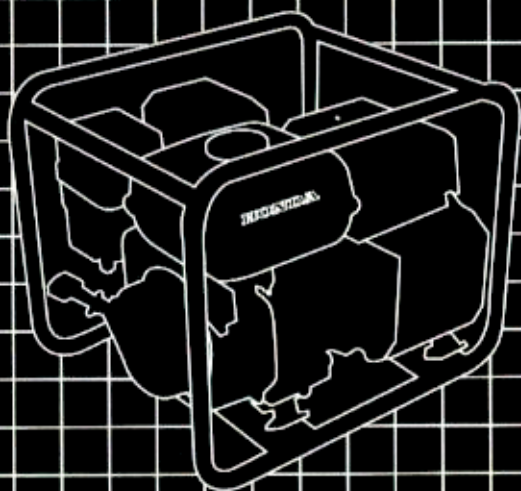
**HONDA**

**Power**

**Equipment**

# Owner's Manual

## EG1400X • EG2500X



**⚠ WARNING** The generator is a potential source of electrical shock if misused. Do not expose the generator to moisture, rain or snow. Do not let the generator get wet, and do not operate it with wet hands.

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Thank you for purchasing a Honda generator. We want to help you get the best results from your new generator and to operate it safely. This manual contains the information on how to do that; please read it carefully.

This owner's manual describes the operation and maintenance of the EG1400X and EG2500X Honda Generators. All information in this publication is based on the latest product information available at the time of 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.

### Safety Messages

Your safety and the safety of others is very important. We have provided important safety messages in this manual and on the generator. Please read these messages carefully.

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol  and one of three words: DANGER, WARNING, or CAUTION.

These mean

** DANGER** You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

** WARNING** You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

** CAUTION** You CAN be HURT if you don't follow instructions.

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury.

### Damage Prevention Messages

You will also see other important messages that are preceded by the word NOTICE.

This word means:

**NOTICE** Your generator or other property could be damaged if you don't follow instructions.

The purpose of these messages is to help prevent damage to your generator, other property, or the environment.

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# SAFETY

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## SAFETY LABEL LOCATIONS

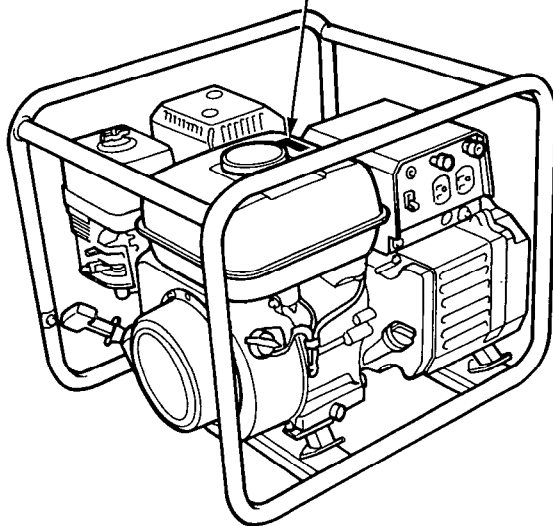
These labels warn you of potential hazards that can cause serious injury. Read them carefully.

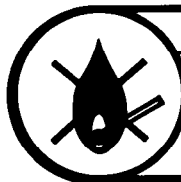
If a label comes off or becomes hard to read, contact your Honda Generator dealer for a replacement.

**WARNING** DO NOT USE INDOORS. EXHAUST GAS CONTAINS POISONOUS CARBON MONOXIDE.

**ATTENTION** NE PAS UTILISER DANS UN ENDROIT FERME A CAUSE DU RISQUE D'EMPOISONNEMENT DU GAZ.

**ATENCION** NO LO USE EN LUGARES CERRADOS PORQUE EL MONOXIDE DE CARBONO ES VENENOSO.

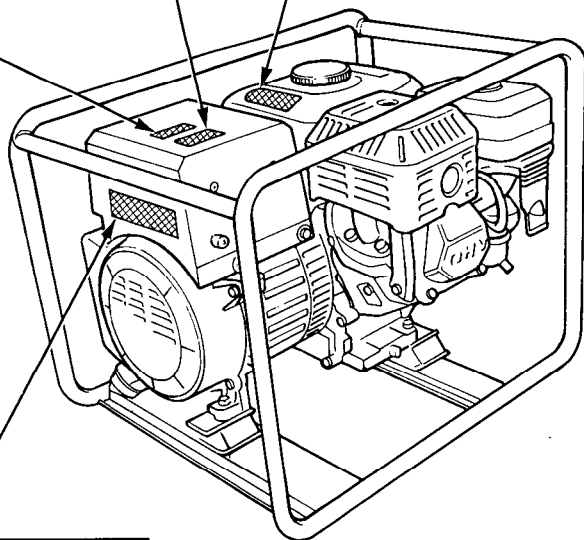




■CHECK FOR SPILLED FUEL OR FUEL LEAKS.  
 STOP ENGINE BEFORE REFUELING.  
 ■CONTÔLER QU'IL N'Y A NI FUITE NI ESSENCE  
 RÉPANDUE SUR L'APPAREIL.  
 ARRÊTER LE MOTEUR AVANT DE REFAIRE LE PLEIN.  
 ■INSPECCIONAR PARA COMBUSTIBLE DERRAMADO  
 O ESCAPE.  
 PARAR MOTOR ANTES DE ECHAR.

**⚠ WARNING**  
 ELECTROCUTION OR PROPERTY DAMAGE CAN OCCUR.  
 DO NOT CONNECT THIS GENERATOR TO ANY  
 BUILDING'S ELECTRICAL SYSTEM UNLESS AN  
 ISOLATION SWITCH HAS BEEN INSTALLED  
 BY A LICENSED ELECTRICIAN.  
 READ OWNER'S MANUAL CAREFULLY.

**⚠ WARNING**  
 USING THE GENERATOR IN RAIN, SNOW OR  
 NEAR WATER CAN LEAD TO DEATH FROM  
 ELECTRIC SHOCK. KEEP GENERATOR DRY.



**EG 1400X** HONDA MOTOR CO., LTD. MADE IN JAPAN Ⓜ

**CAUTION**

BE SURE TO FILL CRANKCASE WITH RECOMMENDED OIL  
 BEFORE USING.  
 FOR DETAILED EXPLANATION, SEE OWNER'S MANUAL.

<b>A C</b>		<b>D C</b>	
VOLTAGE	120V	VOLTAGE	12V
FREQUENCY	60Hz	CURRENT	8.3A
RATEDS OUTPUT	1.2kVA	FUEL	GASOLINE (PETROL)
MAX. OUTPUT	1.4kVA		
PHAS	1ø		

**EG 2500X** HONDA MOTOR CO., LTD. MADE IN JAPAN Ⓜ

**CAUTION**

BE SURE TO FILL CRANKCASE WITH RECOMMENDED OIL  
 BEFORE USING.  
 FOR DETAILED EXPLANATION, SEE OWNER'S MANUAL.

<b>A C</b>		<b>D C</b>	
VOLTAGE	120V	VOLTAGE	12V
FREQUENCY	60Hz	CURRENT	8.3A
RATEDS OUTPUT	2.3kVA	FUEL	GASOLINE (PETROL)
MAX. OUTPUT	2.5kVA		
PHAS	1ø		

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## **SAFETY INFORMATION**

Honda generators are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual before operating your generator. You can help prevent accidents by being familiar with your generator's controls, and by observing safe operating procedures

### **Operator Responsibility**

- Know how to stop the generator quickly in case of emergency.
- Understand the use of all generator controls, output receptacles, and connections.
- Be sure that anyone who operates the generator receives proper instruction. Do not let children operate the generator without parental supervision.

### **Carbon Monoxide Hazards**

- Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.
- If you run the generator in an area that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. To keep exhaust gas from building up, provide adequate ventilation.

### **Electric Shock Hazards**

- The generator produces enough electric power to cause a serious shock or electrocution if misused.
- Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry.
- If the generator is stored outdoors, unprotected from the weather, check all electrical components on the control panel, before each use. Moisture or ice can cause a malfunction or short circuit in electrical components which could result in electrocution.
- Do not connect to a building's electrical system unless an isolation switch has been installed by a qualified electrician.

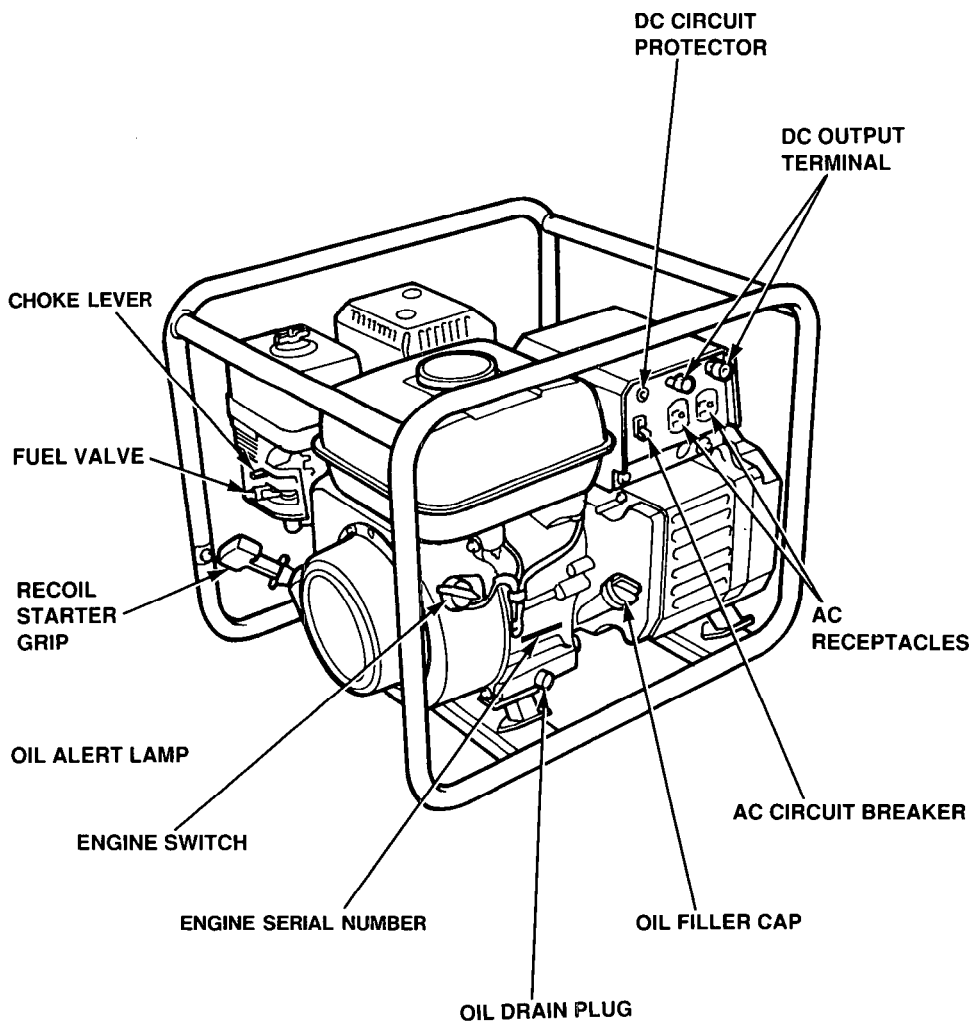
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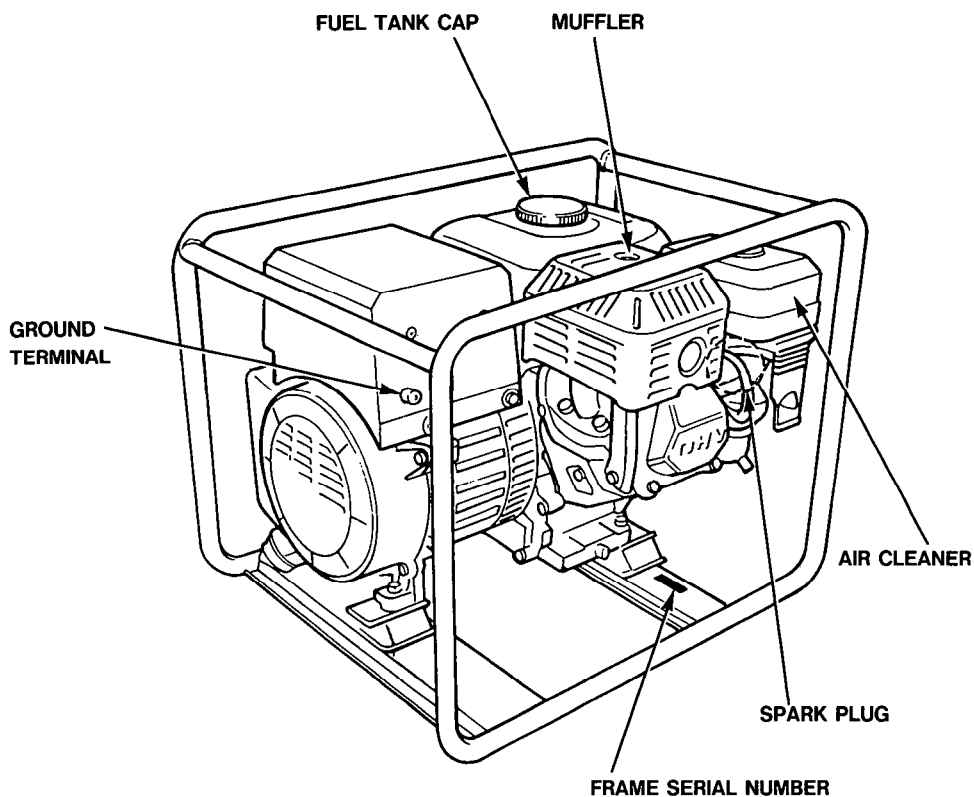
## Fire and Burn Hazards

- The exhaust system gets hot enough to ignite some materials.
  - Keep the generator at least 1 meter (3 feet) away from buildings and other equipment during operation.
  - Do not enclose the generator in any structure.
  - Keep flammable materials away from the generator.
- 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.
- Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.
- Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any spilled fuel has been wiped up before starting the generator.

# COMPONENT IDENTIFICATION

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Record the engine and frame serial numbers for your future reference. Refer to these serial numbers when ordering parts, and when making technical or warranty inquiries (see page 39)

Frame serial number: \_\_\_\_\_  
Engine serial number: \_\_\_\_\_

# CONTROLS

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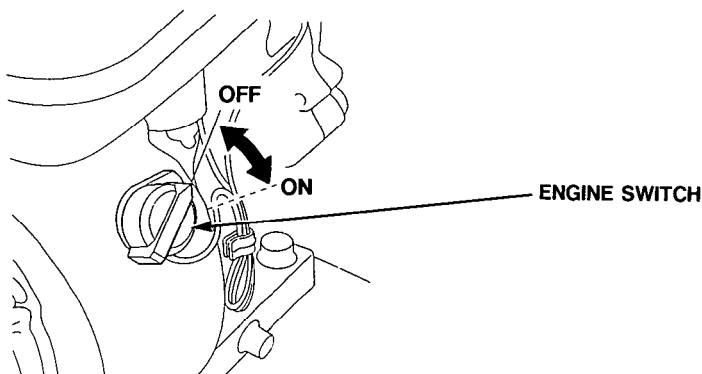
## Engine Switch

To start and stop the engine.

### Engine switch position:

**OFF:** To stop the engine.

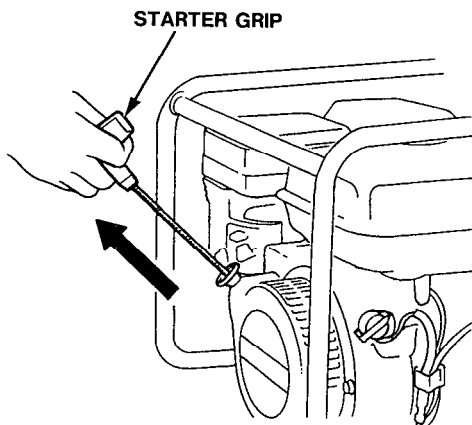
**ON:** To run the engine.



## Recoil Starter

To start the engine, pull the starter grip lightly until resistance is felt, then pull briskly.

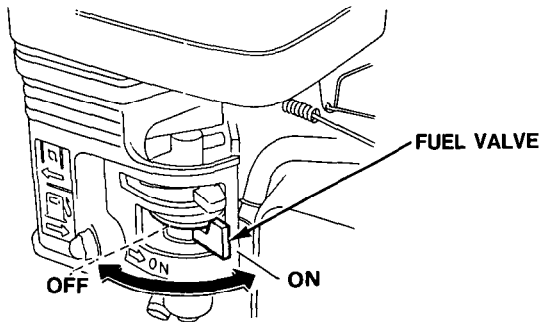
**NOTICE** Do not allow the starter to snap back against the engine. Return it gently to prevent damage to the starter.



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## Fuel Valve

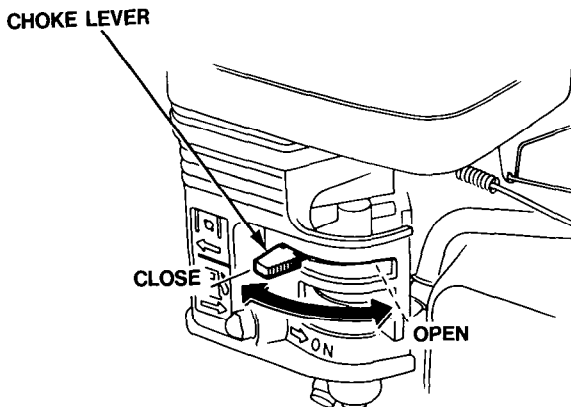
The fuel valve located on the carburetor. When the valve lever is in the ON position, fuel is allowed to flow from the fuel tank to the carburetor. Be sure to return the lever to OFF after stopping the engine.



## Choke Lever

The choke is used to provide an enriched fuel mixture when starting a cold engine.

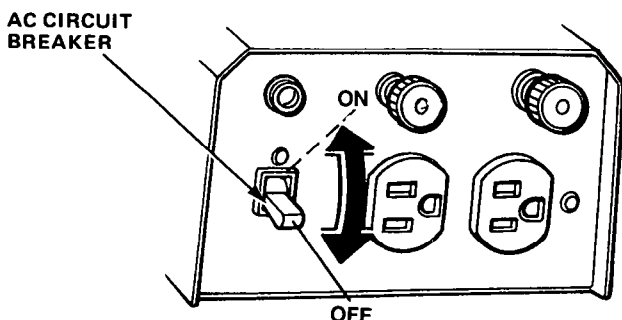
It can be opened and closed by operating the choke lever manually. Turn the lever out toward CLOSE to enrich the mixture.



## Circuit Breaker

The circuit breaker will automatically switch OFF if there is a short circuit or a significant overload of the generator at the receptacle. If the circuit breaker is switched OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the circuit before switching the circuit breaker ON again.

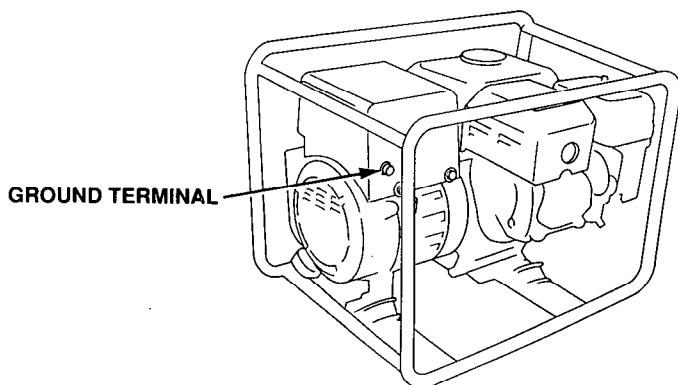
The circuit breaker may be used to switch the generator power ON or OFF.



## Ground Terminal

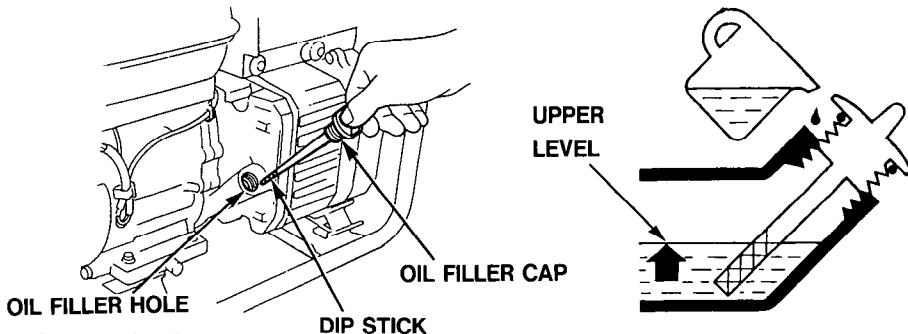
The generator ground terminal is connected to the frame of the generator, the metal non-current carrying parts of the generator, and the ground terminals of each receptacle.

Before using the ground terminal, consult a qualified electrician, electrical inspector or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.



## 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 can fall below a safe limit, the Oil Alert system will automatically stop the engine (the engine switch will remain in the ON position). If the engine stops and will not restart, check the engine oil level (p.20) before troubleshooting in other areas.



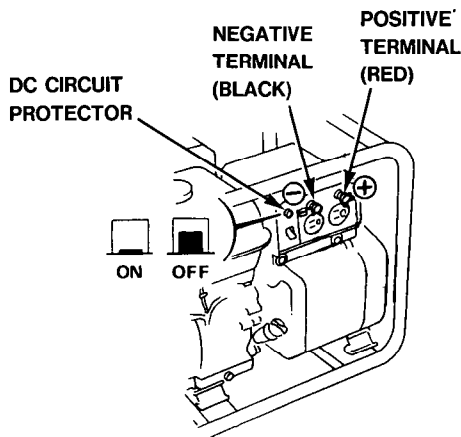
## DC Terminals

The DC terminals may **ONLY** be used for charging 12 volt automotive type batteries.

The terminals are colored red to identify the positive (+) terminal and black to identify the negative (-) terminal. The battery must be connected to the generator DC terminals with the proper polarity (battery positive to generator red terminal and battery negative to the generator black terminal).

## DC Circuit Protector

The DC circuit protector automatically shuts off the DC battery charging circuit when the DC charging circuit is overloaded, when there is a problem with the battery or the connections between the battery and the generator are improper.



# GENERATOR USE

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## Connections to a Building's Electrical System

Connections for standby power to a building's electrical system must be made by a qualified electrician. The connection must isolate the generator power from utility power, and must comply with all applicable laws and electrical codes.

**⚠ WARNING** Improper connections to a building's electrical system 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. Consult the utility company or a qualified electrician

**NOTICE** Improper connections to a building's electrical system can allow electrical current from the utility company to backfeed into the generator. When utility power is restored, the generator may explode, burn, or cause fires in the building's electrical system.

## Ground System

Honda portable generators have a system ground that connects generator frame components to the ground terminals in the AC output receptacles. The system ground is not connected to the AC neutral wire. If the generator is tested by a receptacle tester, it will not show the same ground circuit condition as for a home receptacle.

## Special Requirements

There may be Federal or State Occupational Safety and Health Administration (OSHA) regulations, local codes, or ordinances that apply to the intended use of the generator. Please consult a qualified electrician, electrical inspector, or the local agency having jurisdiction.

- In some areas, generators are required to be registered with local utility companies.
- If the generator is used at a construction site, there may be additional regulations which must be observed.

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## AC Applications

Before connecting an appliance or power cord to the generator:

- Make sure that it is in good working order. Faulty appliances or power cords can create a potential for electrical shock.
- If an appliance begins to operate abnormally, becomes sluggish or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance, or if the rated load capacity of the generator has been exceeded.
- Make sure that the electrical rating of the tool or appliance does not exceed that of the generator. Never exceed the maximum power rating of the generator. Power levels between rated and maximum may be used for no more than 30 minutes.

**NOTICE** Substantial overloading will open the circuit breaker. Exceeding the time limit for maximum power operation or slightly overloading the generator may not switch the circuit breaker OFF, but will shorten the service life of the generator.

Limit operation requiring maximum power to 30 minutes.

Maximum power is:

EG1400X: 1.4KVA, EG2500X: 2.5KVA

For continuous operation, do not exceed the rated power.

Rated power is:

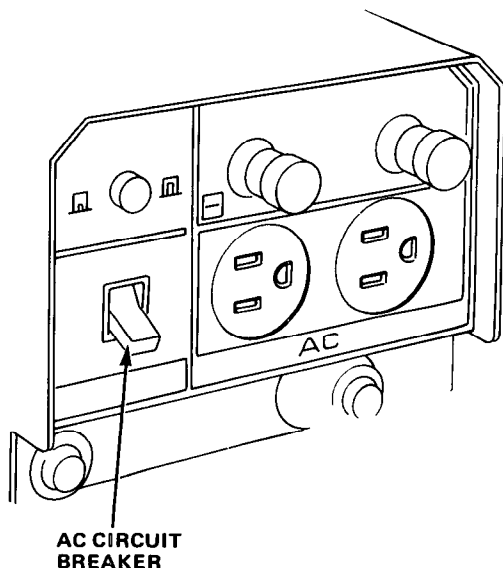
EG1400X: 1.2KVA, EG2500X: 2.3KVA

In either case, the total power requirements (VA) of all appliances connected must be considered. Appliance and power tool manufacturers usually list rating information near the model number or serial number.

## AC Operation

1. Start the engine(refer to page 23).
2. Switch ON the AC circuit breaker.
3. Plug in the appliance.

Most motorized appliances require more than their rated wattage for startup.



Do not exceed the current limit specified for any one receptacle. If an overloaded circuit causes the AC circuit breaker or circuit protector to switch OFF, reduce the electrical load on the circuit, wait a few minutes and then reset the circuit breaker.

## DC Operation

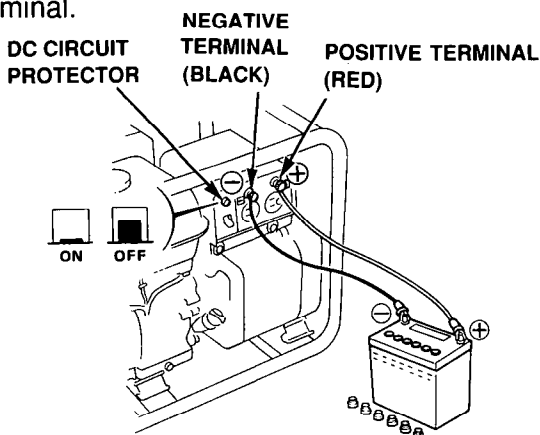
The DC terminals may ONLY be used for charging 12 volt automotive-type batteries .

### Connecting the battery cables:

1. Before connecting charging cables to a battery that is installed in a vehicle, disconnect the vehicle's ground cable from the battery.

**⚠ WARNING** The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging or using batteries.

2. Connect the positive (+) battery cable to the battery positive (+) terminal.
3. Connect the other end of the positive (+) battery cable to the generator positive (+) terminal.



4. Connect the negative (-) battery cable to the battery negative (-) terminal.
5. Connect the other end of the negative (-) battery cable to the generator negative (-) terminal.
6. Start the generator.

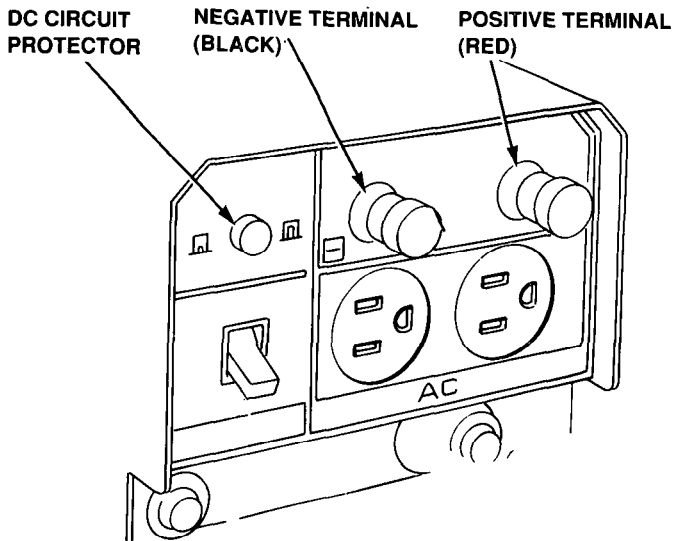
**NOTICE** Do not start the vehicle while the battery charging cables are connected and the generator is running. The vehicle or the generator may be damaged.

An overloaded DC circuit, excessive current draw by the battery, or a wiring problem will trip the DC circuit protector (PUSH button extends out). If this happens, wait a few minutes before pushing in the circuit protector to resume operation. If the circuit protector continues to go OFF, discontinue charging and see your authorized Honda generator dealer.

---

## Disconnecting the battery cables:

1. Stop the engine,
2. Disconnect the negative (-) battery cable from the generator negative (-) terminal.
3. Disconnect the other end of the negative (-) battery cable from the battery negative (-) terminal.
4. Disconnect the positive (+) battery cable from the generator positive (+) terminal.
5. Disconnect the other end of the positive (+) battery cable from the battery positive (+) terminal.
6. Reconnect the vehicle grounded battery cable.



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## 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 installing a smaller diameter main fuel jet in the carburetor and readjusting the pilot screw. If you always operate the engine at altitudes higher than 6,000 feet above sea level, have an authorized Honda generator dealer perform this carburetor modification.

Even with suitable carburetor jetting, engine horsepower will decrease approximately 3.5% for each 1,000 foot increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

**NOTICE** If a generator jetted for high altitude is used at a lower altitude the lean air fuel mixture will reduce performance and may over-heat and seriously damage the engine.

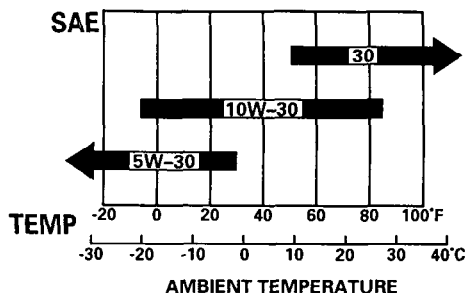
# PRE-OPERATION CHECK

## Engine Oil

**NOTICE** Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2-stroke engine oils will damage the engine and are not recommended.

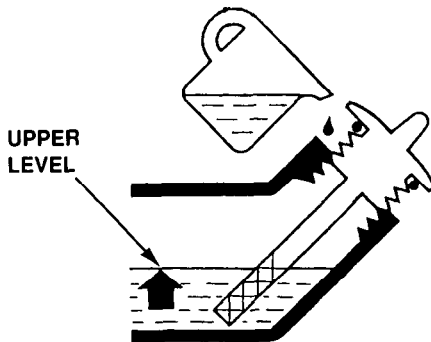
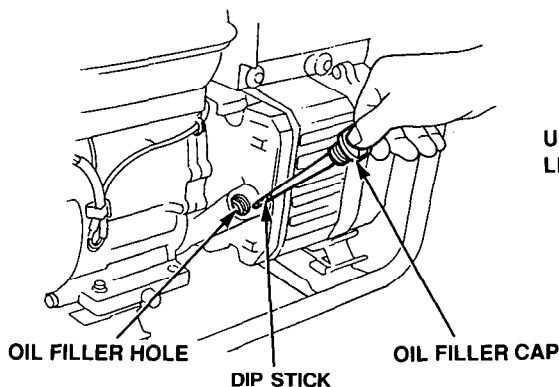
Check the oil level **BEFORE EACH USE** with the generator on a level surface with the engine stopped.

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



SAE 10W-30 is recommended for general, all-temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

1. Remove the oil filler cap and wipe the dipstick clean.
2. Check the oil level by inserting the dipstick into the filler neck without screwing it in.
3. If the level is low, add the recommended oil to the upper mark on the dipstick. Over filling with oil can cause the engine to smoke after start-up.



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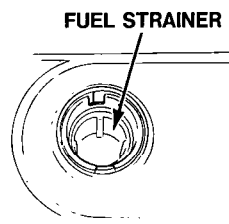
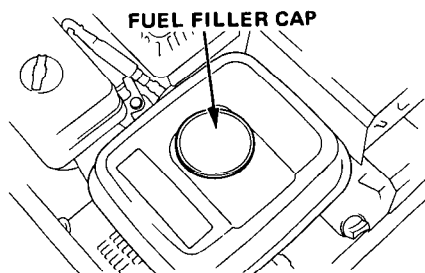
## Fuel Recommendation

1. Check the fuel level.
2. Refill the tank if the fuel level is low. Do not fill above the shoulder of the fuel strainer.

### **⚠ 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 in the filler neck). After refueling, make sure the tank 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.**

Fuel tank capacity: EG1400X: 2.7 ℓ (0.71 US gal)  
EG2500X: 3.7 ℓ (0.98 US gal)



Use gasoline with a pump octane rating of 86 or higher

- We recommend unleaded gasoline because it produces fewer engine and spark plug deposits and extends exhaust system life.

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

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Occasionally you may hear light “spark knock” or “pinging” (metallic rapping noise) while operating under heavy loads. This is no cause for concern.

If spark knock or pinging occurs at a steady engine speed, under normal load, change brands of gasoline. If spark knock or pinging persists, see an authorized Honda generator dealer.

**NOTICE** Running the engine with persistent spark knock or pinging can cause engine damage.

Running the engine with persistent spark knock or pinging is misuse, and the Distributor's Limited Warranty does not cover parts damaged by misuse.

### **Oxygenated Fuels**

Some gasolines are being blended with alcohol or an ether compound to increase the octane. These gasolines are collectively referred to as oxygenated fuels. Some areas of the United States use oxygenated fuels to help meet clean air standards.

If you use an oxygenated fuel, be sure its pump octane rating is 86 or higher.

### **Ethanol (ethyl or grain alcohol)**

Gasoline containing more than 10% ethanol by volume may cause starting and/or performance problems. Gasoline containing ethanol may be marketed under the name “Gasohol”.

### **Methanol (methyl or wood alcohol)**

Gasoline containing methanol must contain cosolvents and corrosion inhibitors to protect the fuel system. Gasoline containing more than 5% methanol by volume may cause starting and/or performance problems and may damage metal, rubber and plastic parts of your fuel system.

### **MTBE (methyl tertiary butyl ether)**

You may use gasoline containing up to 15% MTBE by volume.

Before using an oxygenated fuel, try to confirm the fuel's contents. Some states (provinces in Canada) require this information to be posted on the pump. If you notice any undesirable operating symptoms, switch to a conventional unleaded gasoline. Fuel system damage or performance problems resulting from the use of an oxygenated fuel are not the responsibility of Honda and are not covered under warranty.

**NOTICE** Oxygenated fuels can damage paint and plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under warranty.

# **STARTING THE ENGINE / STOPPING THE ENGINE**

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## **Starting the engine**

1. Make sure that the AC circuit breaker is in the OFF position.  
The generator may be hard to start if a load is connected.
  2. Turn the fuel valve to the ON position.
  3. Turn the choke lever to the CLOSE position.
  4. Turn the engine switch to the ON position.
  5. Pull the starter grip lightly until resistance is felt, then pull briskly.
- NOTICE** Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter or housing.
6. As the engine warm up, slowly turn the choke lever to OPEN position.

## **Stopping the engine**

### **In an emergency:**

1. 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.  
Disconnect DC battery charging cables.
2. Turn the engine switch to the OFF position.
3. Turn the fuel valve to the OFF position.

# MAINTENANCE

Periodic maintenance and adjustment is necessary to keep the generator in good operating condition. Perform the service and inspection at the intervals shown in the Maintenance schedule below.

**⚠ WARNING** Exhaust gas contains poisonous carbon monoxide. Shut off the engine before performing any maintenance. If the engine must be run, make sure the area is well ventilated.

**NOTICE** Use only genuine HONDA parts or their equivalent for maintenance or repair. Replacement parts which are not of equivalent quality may damage the generator.

## MAINTENANCE SCHEDULE

REGULAR SERVICE PERIOD Performed at every indicated month or operating hour interval, whichever comes first.		Each use	First month or 20 Hrs. (3)	Every 3 months or 50 Hrs. (3)	Every 6 months or 100 Hrs. (3)	Every year or 300 Hrs. (3)
ITEM						
Engine oil	Check level	o				
	Change		o		o	
Air cleaner	Check	o				
	Clean			o (1)		
Sediment Cup	Clean				o	
Spark plug	Check-Clean				o	
Spark Arrester	Clean				o	
Valve clearance	Check-Adjust					o (2)
Fuel tank and strainer	Clean					o (2)
Fuel line	Check (Replace if necessary)	Every 2 years (2)				

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

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

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

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## Tool Kit

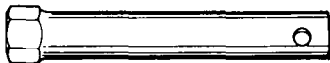
The tools supplied with the generator will help you to perform the owner maintenance procedures listed on the following page. Always keep this tool kit with the generator.



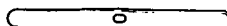
**10 × 12 mm WRENCH**



**SCREW DRIVER**



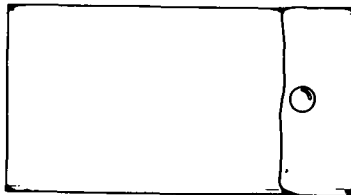
**PLUG WRENCH**



**DRIVER HANDLE**



**HANDLE BAR**



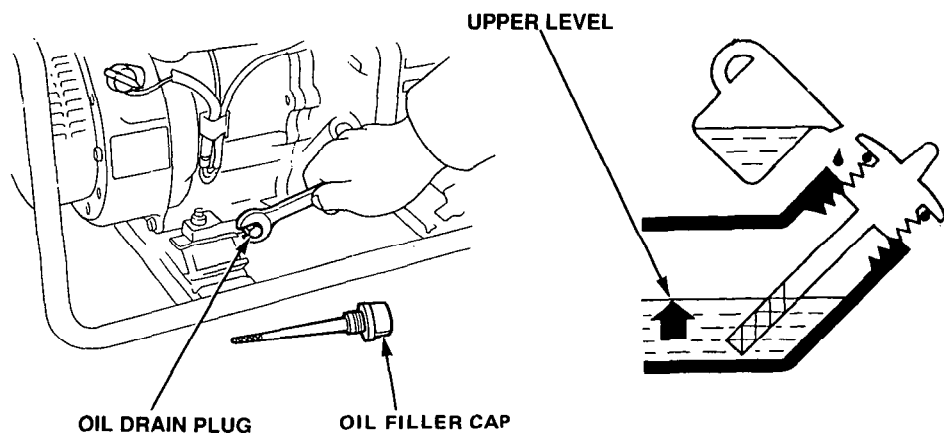
**TOOL BAG**

## Engine Oil Change

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

1. Remove the drain plug and sealing washer, oil filler cap, and drain the oil.
2. Reinstall the drain plug and sealing washer. Tighten the plug securely.
3. Refill with the recommended oil (see page 20) and check the oil level.

**Oil capacity:** 0.6 l (0.63US qt, 0.53Im qt)



**⚠ CAUTION** Used motor oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

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

## 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** Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion. Use only soapy water or nonflammable solvent.

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

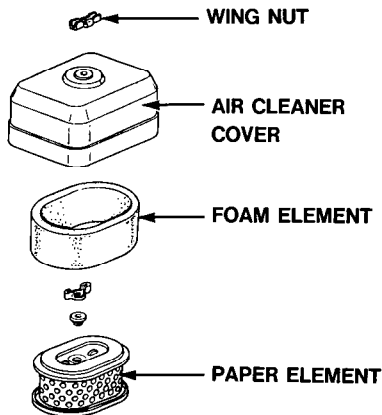
1. Remove the wing nut and the air cleaner cover. Remove the elements and separate them. Carefully check both elements for holes or tears and replace if damaged.
2. Foam element: Wash the element in a solution of household detergent and warm water, then rinse thoroughly; or wash in nonflammable or high flash point solvent.

Allow the element to dry thoroughly.

Soak the element in clean engine oil, and squeeze out the excess oil. The engine will smoke during initial start-up if too much oil is left in the foam.

3. Paper element: Tap the element lightly several times on a hard surface to remove excess dirt, or blow compressed air through the filter from the inside out.

Never try to brush the dirt off; brushing will force dirt into the fibers. Replace the paper element if it is excessively dirty.

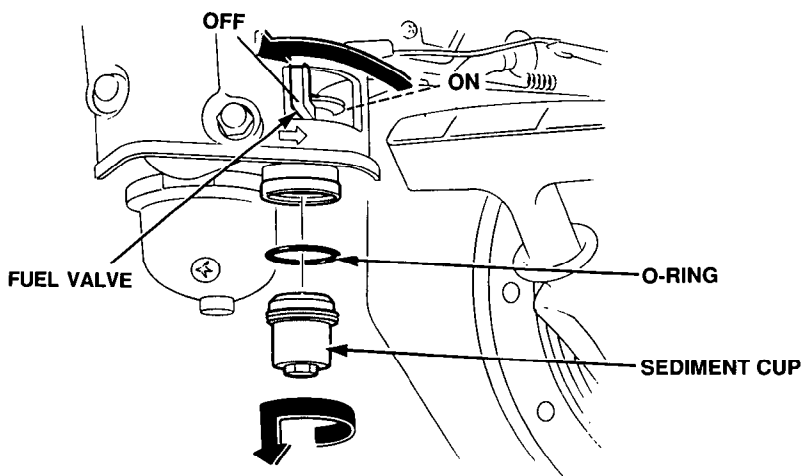


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## Fuel Sediment Cup Cleaning

The sediment cup 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 sediment cup should be cleaned.

1. Turn the fuel valve to the OFF position. Remove the sediment cup and O-ring.
2. Clean the sediment cup and O-ring in nonflammable or high flash point solvent.
3. Reinstall the O-ring and sediment cup.
4. Turn the fuel valve ON and check for leaks.



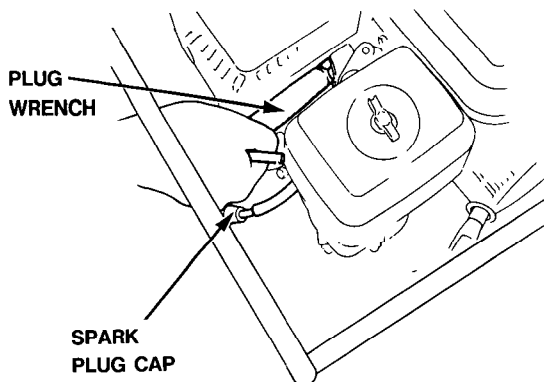
## Spark Plug Service

**Recommended spark plugs:** BPR6ES (NGK)  
W20EPR-U (NIPPONDENSO)

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

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

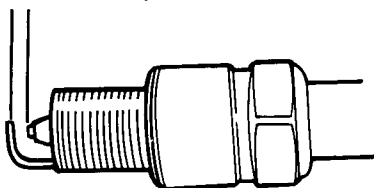
1. Remove the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Use the wrench supplied in the tool kit to remove the spark plug.



5. 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.
6. 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)

0.70—0.80mm  
(0.028—0.031 in)



- 
7. Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
  8. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.
    - If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 - 1/4 turn after the spark plug seats to compress the washer.

**NOTICE** The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and could damage the engine.  
Never use spark plugs which have an improper heat range. Use only the recommended spark plugs or equivalent.

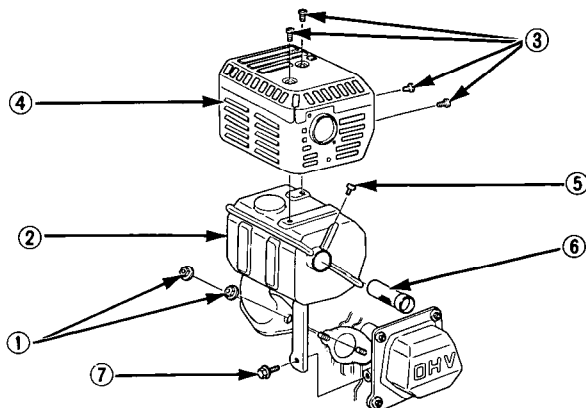
## Spark Arrester Maintenance

If the generator has been running, the muffler will be very hot. Allow it to cool before proceeding.

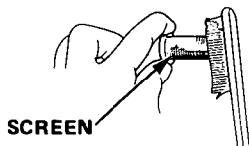
**NOTICE** The spark arrester must be serviced every 100 hours to maintain its efficiency.

### Clean the spark arrester as follows:

1. Loosen ① two 8 mm nuts and ⑦ 6 mm bolt to remove the ② muffler assembly.
2. Loosen ③ four 5 mm screws and remove the ④ muffler protector from the muffler.
3. Loosen ⑤ 4 mm screw and remove ⑥ spark arrester from the muffler.



4. Use a brush to remove carbon deposits from the spark arrester screen. Inspect the screen for breaks or tears and replace it if necessary.



5. Install the spark arrester and the muffler in reverse order of disassembly.

# TRANSPORTING/STORAGE

When transporting the generator, turn the engine switch and the fuel valve OFF. Keep the generator level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

**A WARNING** Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting or storing the generator.

Take care not to drop or strike the generator when transporting. Do not place heavy objects on the generator.

Before storing the unit for an extended period:

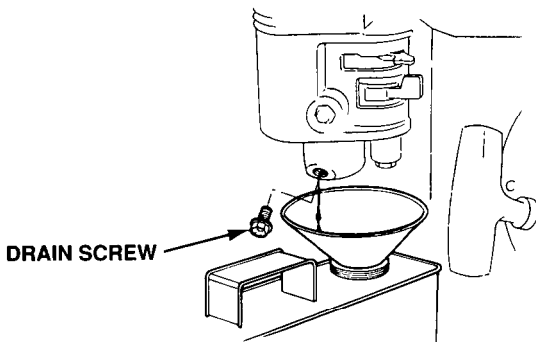
1. Be sure the storage area is free of excessive humidity and dust.
2. Service according to the table below:

STORAGE TIME	RECOMMENDED SERVICE PROCEDURE TO PREVENT HARD STARTING
Less than 1 month	No preparation required
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner*.
2 months to 1 year	Fill with fresh gasoline and add gasoline conditioner*. Drain the carburetor float bowl (Page 33). Drain the fuel sediment cup (Page 28).
1 year or more	Fill with fresh gasoline and add gasoline conditioner*. Drain the carburetor float bowl (Page 33). Drain the fuel sediment cup (Page 28). Remove the spark plug. Put a tablespoon of engine oil into the cylinder. Turn the engine slowly with the pull rope to distribute the oil. Reinstall the spark plug. Change the engine oil (Page 26). After removal from storage, drain the stored gasoline into a suitable container, and fill with fresh gasoline before starting.
*Use gasoline conditioners that are formulated to extend storage life. Contact your authorized Honda generator dealer for gasoline conditioner recommendations.	

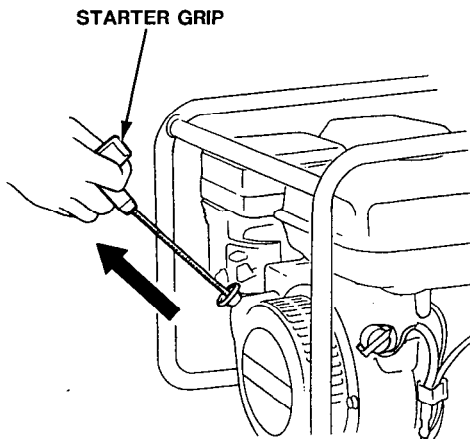
1. Drain the carburetor by loosening the drain screw. Drain the gasoline into a suitable container.

**⚠ WARNING**

**Gasoline is extremely flammable and is explosive under certain conditions. Perform this task in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area during this procedure.**

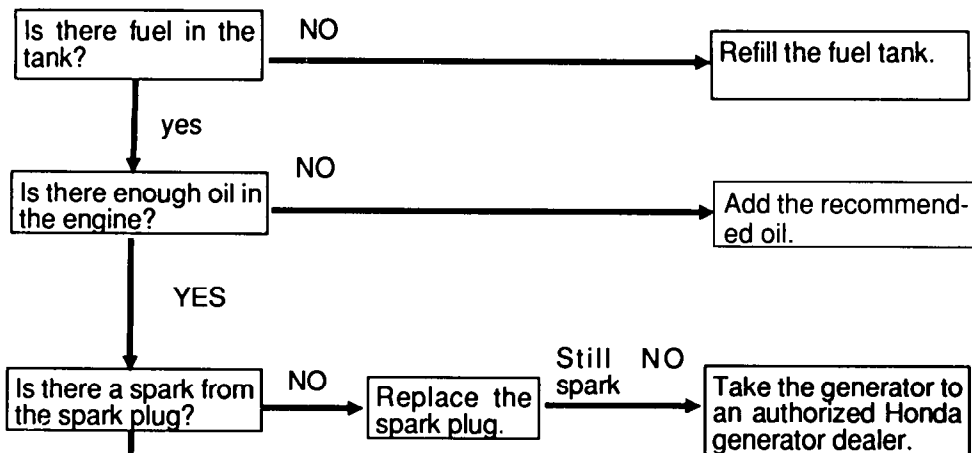


2. Change the engine oil.
3. Remove the spark plug, and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.
4. Slowly pull the starter grip until resistance is felt. At this point, the piston is coming 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.



# TROUBLESHOOTING

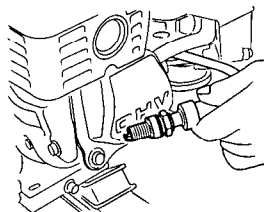
When the engine will not start:



**⚠ WARNING** Be sure there is no spilled fuel around the spark plug. Spilled fuel may ignite.

To check:

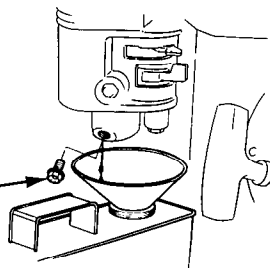
- 1) Remove the spark plug cap and clean any dirt from around the spark plug.
- 2) Remove the spark plug and install the spark plug in the plug cap.
- 3) Set the plug side electrode on the cylinder head.
- 4) Crank the engine, sparks should jump across the gap.



To check:

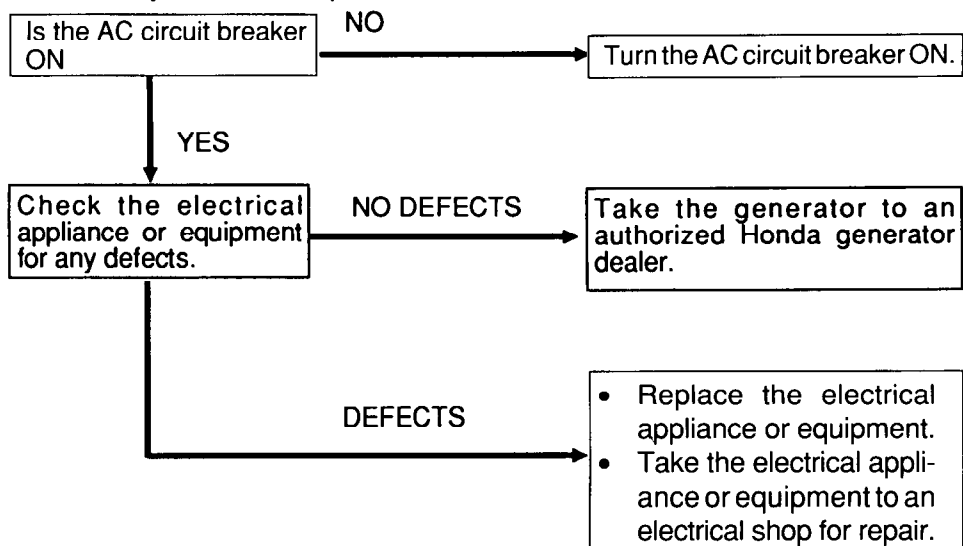
- 1) Turn off the engine switch and loosen the drain screw.
- 2) Fuel should flow from the drain when the engine switch is turned on.

DRAIN SCREW



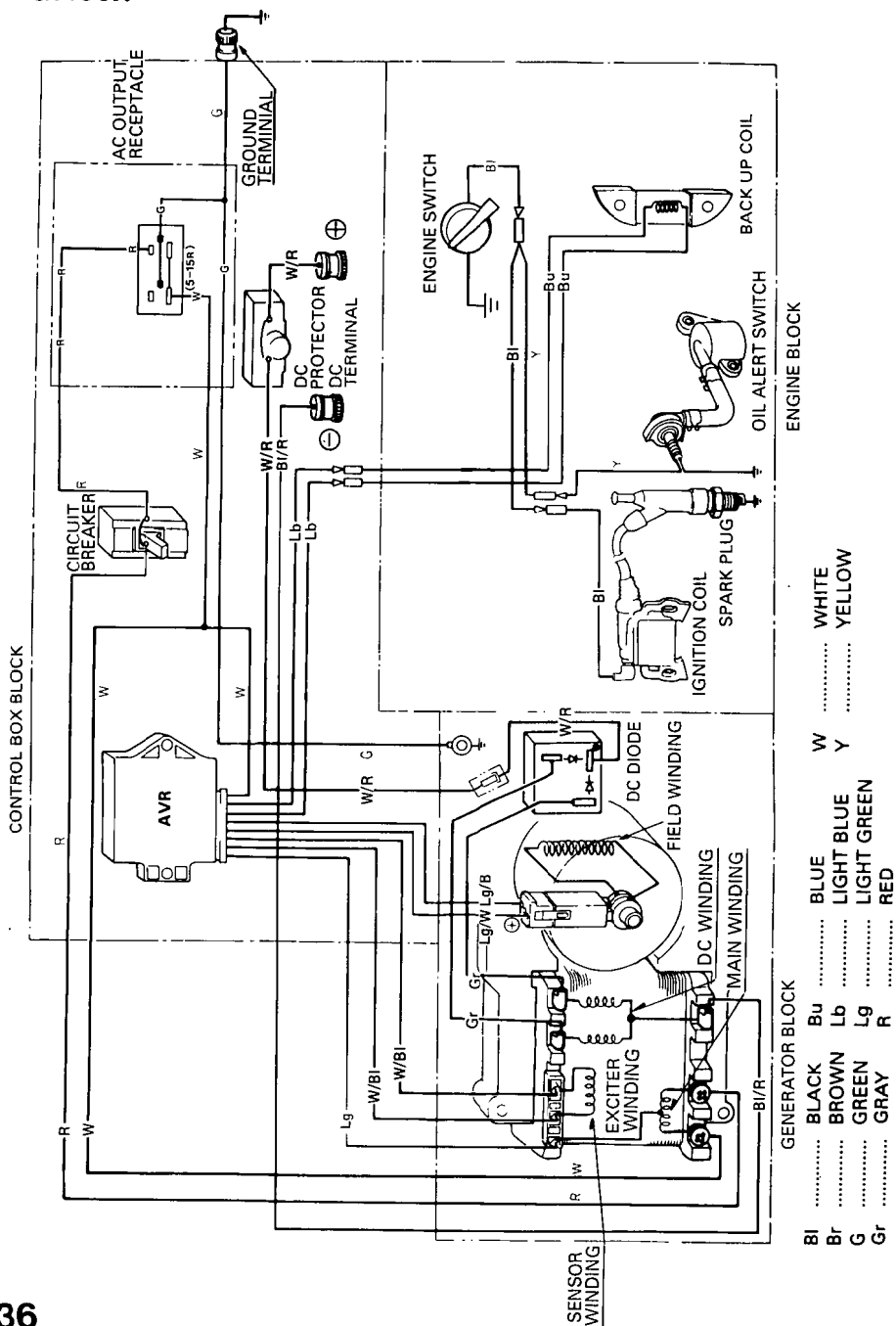
YES → If the engine still does not start, take the generator to an authorized Honda generator dealer.

No electricity at the AC receptacles:

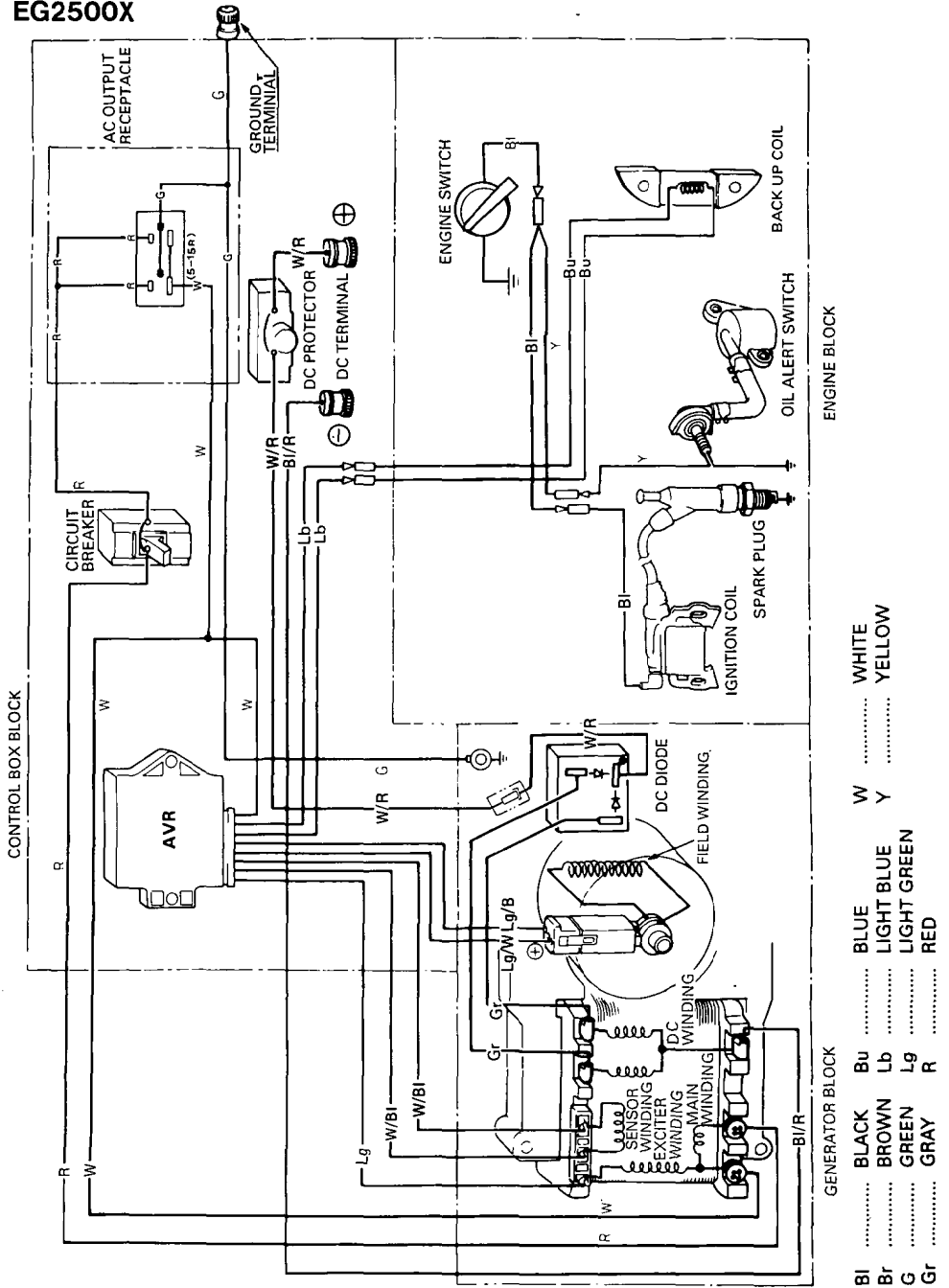


## WIRING DIAGRAM

## EG1400X



# EG2500X



# SPECIFICATIONS

## Dimensions

Model	EG1400X	EG2500X
Power equipment description code	EZCJ	EZCR
Length x Width x Height	475 x 390 x 400 mm (18.7 x 15.4 x 15.7 in)	505 x 410 x 415 mm (19.9 x 16.2 x 16.3 in)
Dry Weight	32.0kg (70.5lb)	39.5kg (87.1lb)

## Engine

Model	HONDA GX120K1	HONDA GX160K1
Engine Type	4-stroke, overhead valve, single cylinder	
Displacement [Bore x Stroke]	118cm <sup>3</sup> (7.2cu in) 60 x 42mm (2.4 x 1.7 in)	163cm <sup>3</sup> (9.9cu in) 68 x 45mm (2.7 x 1.8 in)
Compression Ratio	8.5:1	
Engine Speed	3600 rpm	
Cooling System	Forced air cooled	
Ignition System	Transistorized magneto	
Oil Capacity	0.6 ℓ (0.63USqt)	
Fuel Tank Capacity	2.7 ℓ (0.71 USgal)	3.7 ℓ (0.98 USgal)
Spark Plug	BPR6ES (NGK) W20EPR-U (NIPPONDENSO)	

## Generator

Model		EG1400X	EG2500X
Type		A	
AC output	Rated voltage	120V	
	Rated frequency	60HZ	
	Rated ampere	10.0A	19.2A
	Rated output	1.2kVA	2.3kVA
Maximum output		1.4kVA	2.5kVA
DC output		Only for charging 12 V automotive batteries Maximum charging output = 8.3 A	

NOTE: Specifications are subject to change without notice.

## CUSTOMER SERVICE INFORMATION

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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 Service Office. You can write to:

American Honda Motor Co., Inc.  
Honda Power Equipment Division  
Customer Service Office  
4475 River Green Parkway  
Duluth, Georgia 30136-2565

Or telephone: (404)497-6400

When you write or call, please give us this information:

- Model and serial numbers (see page 8 and 9)
- Name of dealer who sold the generator to you
- Name and address of dealer who services your generator
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

## **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 - 7:00 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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**HONDA**

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