

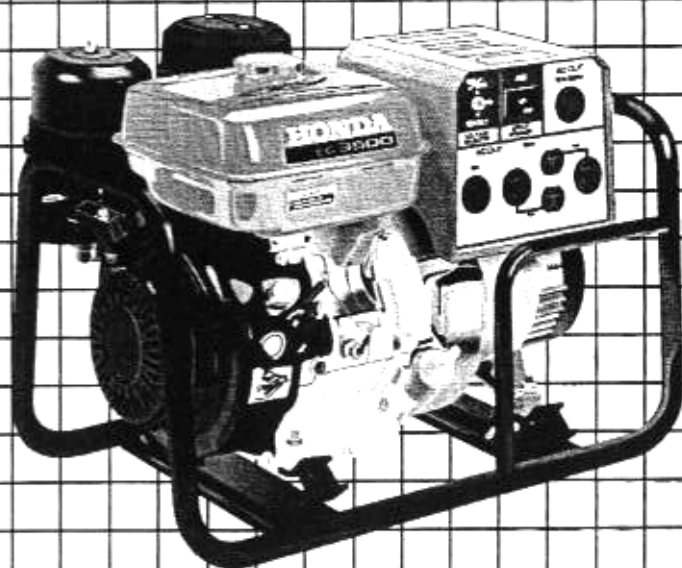
HONDA

Power

Equipment

Owner's Manual

EG3500X



Thank you for purchasing a Honda generator.

This manual covers operation and maintenance of the EG3500X 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.

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

Pay special attention to statements preceded by the following words:

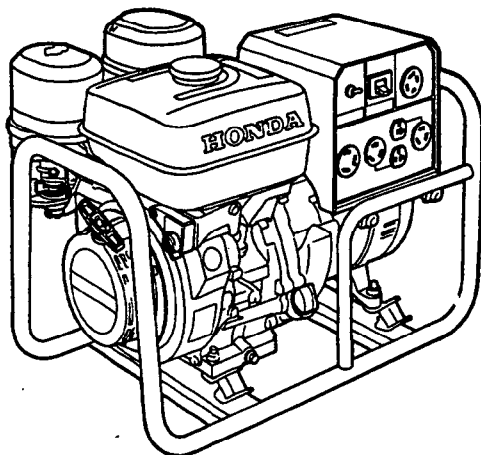
WARNING Indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

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 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.

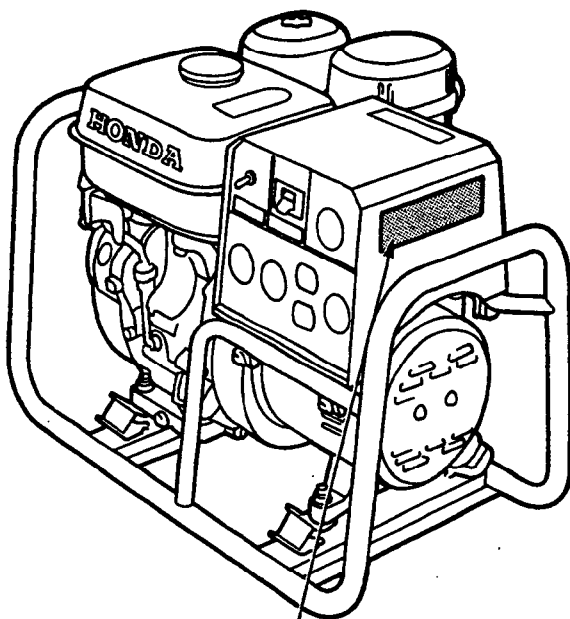


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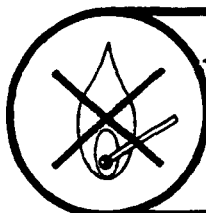
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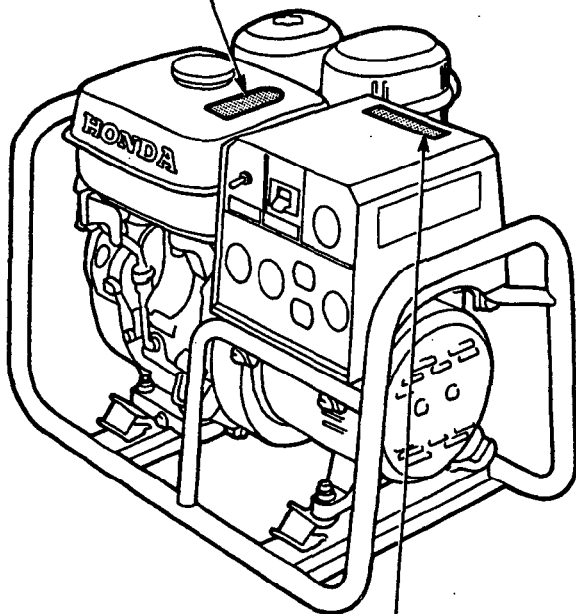
1. CAUTION LABEL LOCATION



EG3500X HONDA MOTOR CO., LTD. MADE IN JAPAN (A)	
CAUTION ■ BE SURE TO FILL CRANKCASE WITH RECOMMENDED OIL BEFORE USING. FOR DETAILED EXPLANATION, SEE THE OWNER'S MANUAL.	AC VOLTAGE 120/240V FREQUENCY 60Hz RATED OUTPUT 3.0kVA MAX. OUTPUT 3.5kVA PHASE 1 FUEL GASOLINE (PETROL)



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



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.

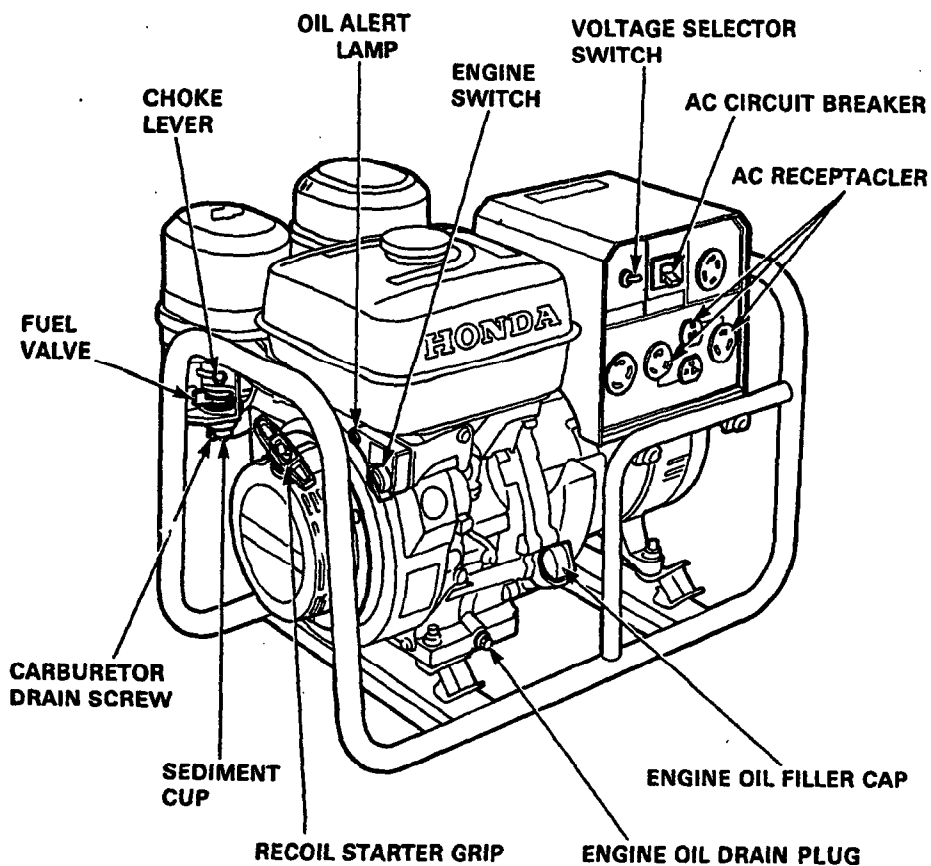
2. GENERATOR SAFETY

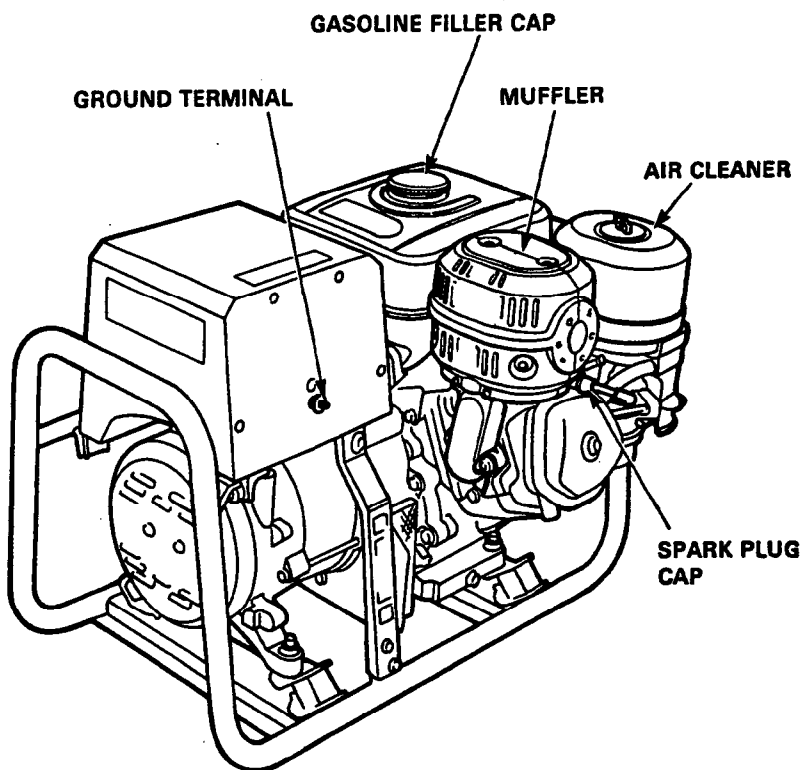
WARNING

To ensure safe operation —

- Place the generator at least 1m (3 ft) away from buildings or other equipment when operating the generator.
- Operate the generator on a level surface.
If the generator is tilted, fuel spillage may result.
- Exhaust gas contains poisonous carbon monoxide.
Never run the generator in an enclosed area.
Be sure to provide adequate ventilation.
- 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.

3. COMPONENT IDENTIFICATION





4. PRE-OPERATION CHECK

ENGINE OIL

CAUTION :

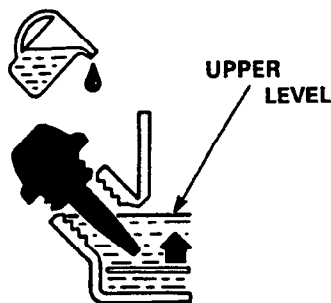
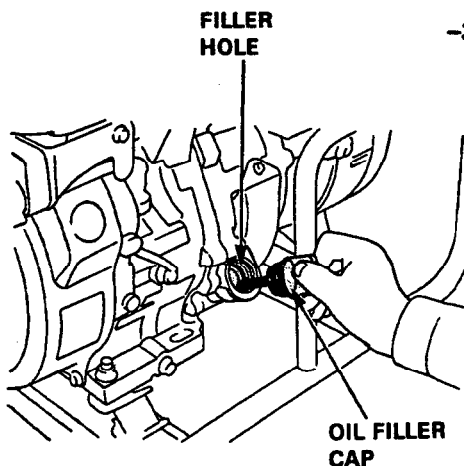
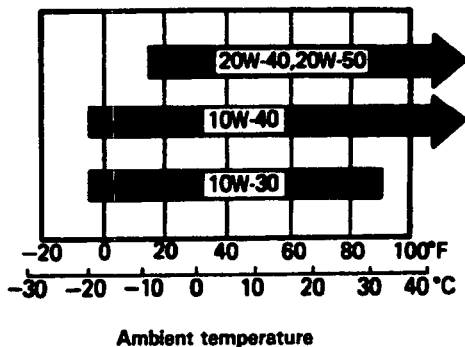
- Engine oil is a major factor affecting engine performance and service life. Non-detergent oils and vegetable oils are not recommended.
- Be sure to check the engine on a level surface with the engine stopped.

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

SAE 10W-40 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. Insert the dipstick into the oil filler neck, but do not screw it in.
3. If the level is low, fill to the top of the oil filler neck with the recommended oil.

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



FUEL

Use any regular grade automotive gasoline (unleaded gasoline is preferred) with a pump octane rating of 86 or higher.

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

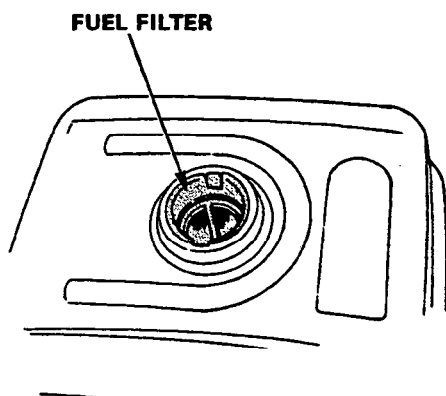
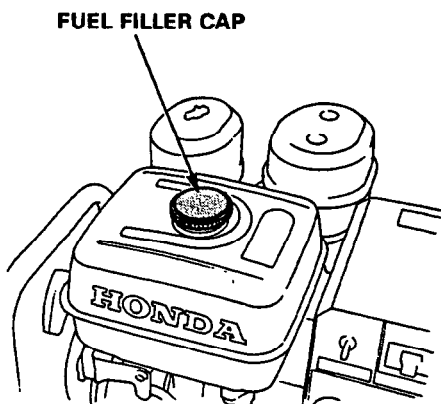
CAUTION : Gasoline substitutes are not recommended ; they may be harmful to the fuel system components.

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 flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the tank and make sure the filler cap is securely closed after refueling.
- Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.

Fuel tank capacity : 6.0 lit. (12.7 US pt, 10.6 Imp pt)

1. Check the fuel level.
2. If level is low, fill to the shoulder of the fuel filter.



GASOLINES CONTAINING ALCOHOL

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

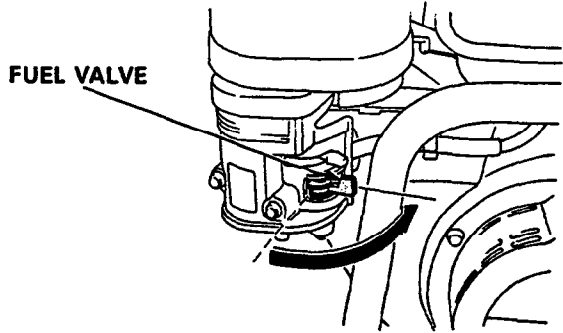
NOTE:

- Fuel system damage or engine performance problems resulting from the use of such fuels are not covered under Power Equipment Warranties.
Honda cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
- Before purchasing fuel from an unfamiliar station, try to confirm whether the fuel contains alcohol, and to what percentage. If you notice any undesirable operating symptoms after using a gasoline that contains alcohol; or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.

5. STARTING THE ENGINE

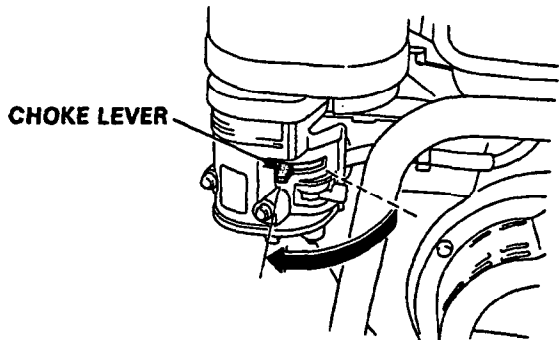
Make sure the AC circuit breaker is OFF position.

1. Turn the fuel valve to the ON position.

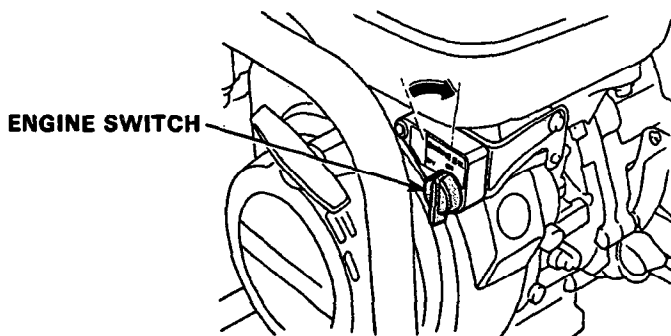


2. Move the choke lever to the CLOSE position.

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

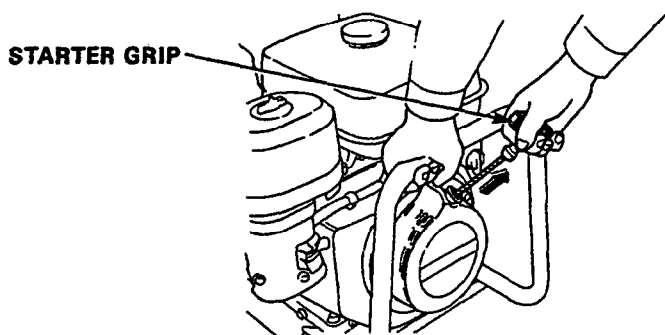


3. Turn the engine switch to the ON position.

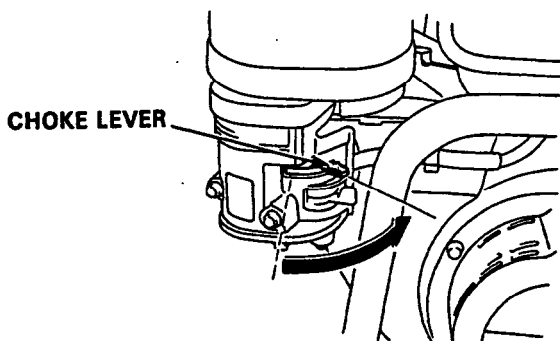


4. Pull the starter grip lightly until resistance is felt, then pull briskly.

CAUTION : Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.



-
5. As the engine warm up, gently turn the choke lever to OPEN position.



6. GENERATOR USE

WARNING

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

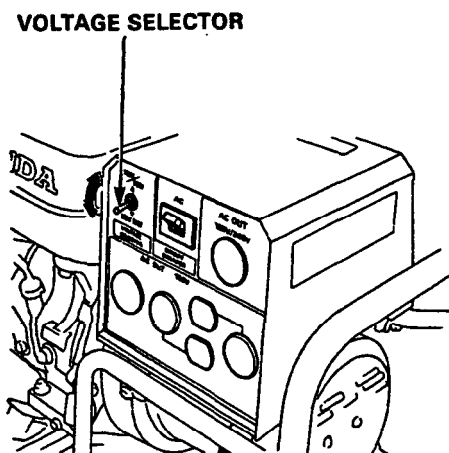
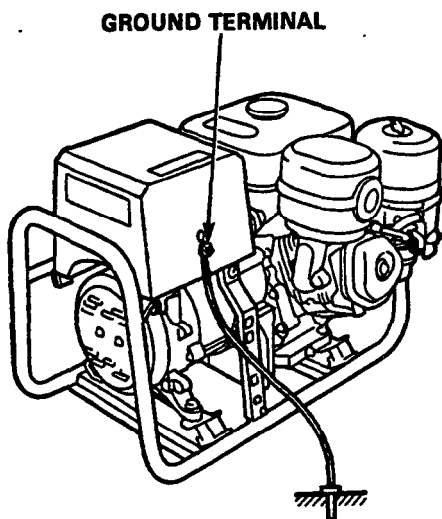
CAUTION:

- Limit operation requiring maximum power to 30 minutes.
For continuous operation, do not exceed the rated power.
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.

1. Turn the voltage selector switch to either position.

NOTE:

If you turn the switch to 120V you can use six receptacles for 120V appliances.
If 120V/240V is selected, you can use five receptacles for 120V and one receptacle 240V.



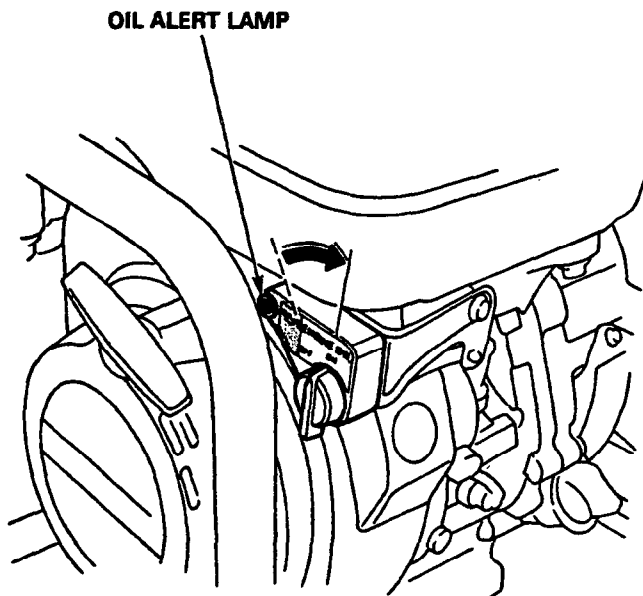
- Switch on the AC circuit breaker.
This generator is equipped with an AVR (Automatic Voltage Regulator) for stable voltage supply.



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 lamp will flash when you operate the starter, and the engine will not run. If this occurs, add engine oil (P. 8)

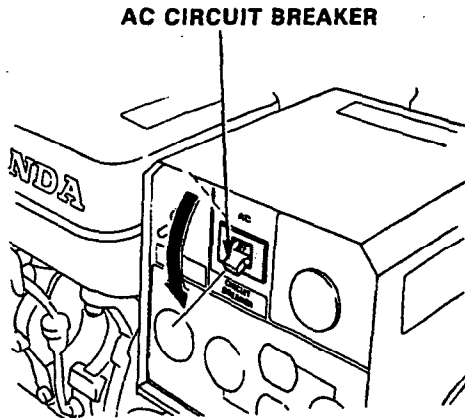


7. STOPPING THE ENGINE

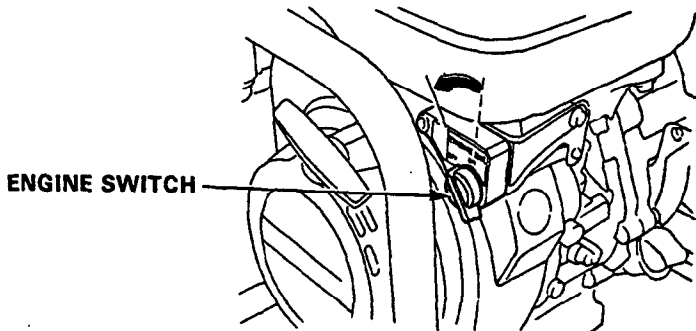
To stop the engine in an emergency, turn the engine switch OFF.

In normal use :

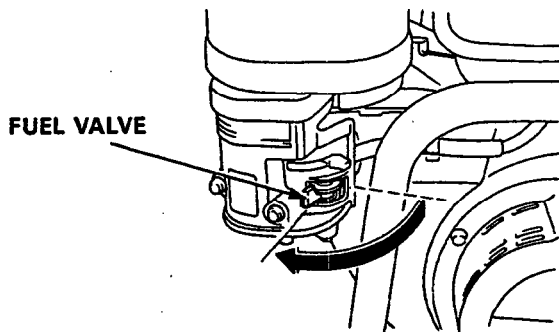
1. Turn the AC circuit breaker OFF position.



2. Turn the engine switch OFF position.



3. Turn the fuel valve OFF position.



• 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 generator at altitudes higher than 6,000 feet above sea level, have your authorized Honda Generator dealer perform these carburetor modifications.

Even with suitable carburetor jetting, engine horsepower will decrease approximately 3.5% for each 1,000 foot increase in altitude. The affect of altitude on horsepower 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.

8. MAINTENANCE

The purpose of the maintenance schedule and adjustment 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 only 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		Each use	first month or 20 Hrs.	Every 3 month or 50 Hrs.	Every 6 month or 100 Hrs.	Every year or 300 Hrs.
ITEM	Perform at every indicated month or operating hour interval, whichever comes first.					
Engine oil	Check level	●				
	Change		●		●	
Air cleaner	Check	●				
	Clean			● (1)		
Sediment cup	Clean				●	
Spark plug	Clean—Readjust				●	
Spark arrester	Clean				●	
Valve clearance	Check—Readjust					● (2)
Fuel tank and strainer	Clean					● (2)
Fuel line	Check (Replace if necessary)	Every 3 years (2)				

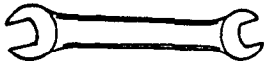
NOTE (1): Service more frequently when used in dusty areas.

(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.

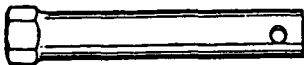
Tool kit

The tools supplied are necessary for performing some periodic maintenance, simple adjustments and repairs.

Always keep the kit with the generator.



10x12mm WRENCH



PLUG WRENCH



HANDLE BAR



SCREWDRIVER



DRIVER HANDLE



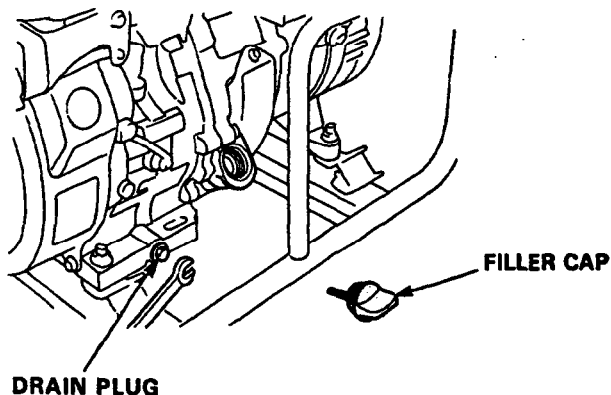
TOOL BAG

Changing oil

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

1. Remove the drain plug and filler cap, and drain the oil. Retighten the plug securely.
2. Refill with the recommended oil (see P. 8) and check the level.

ENGINE OIL CAPACITY : 1.1ℓ (1.16 US qt, 1.94 Imp pt)



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.

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.

Air cleaner service

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

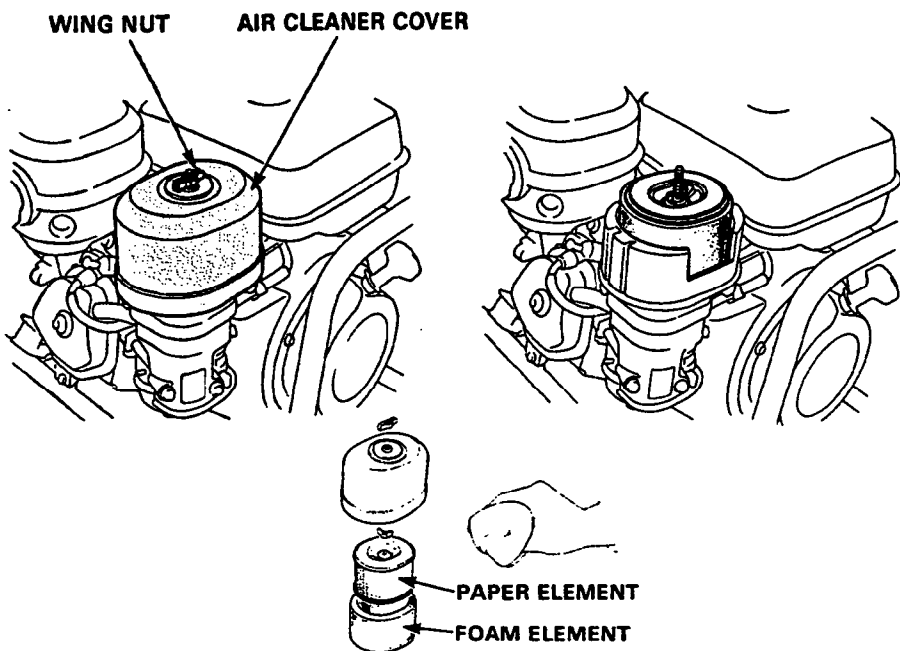
WARNING

Never use gasoline or low flash point solvents for clean the air cleaner element. A fire or explosion could result.

CAUTION :

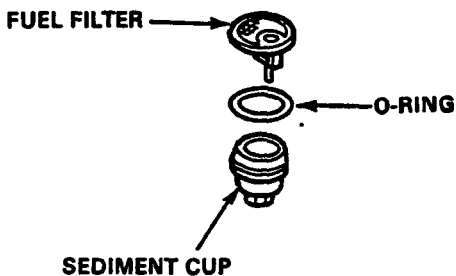
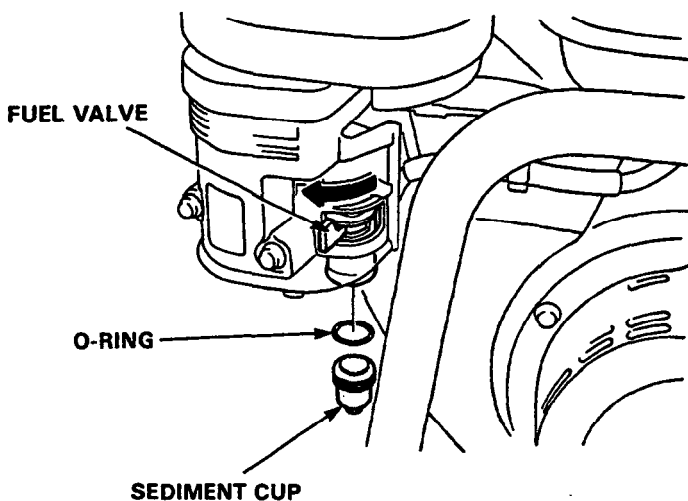
Never run the generator without the air cleaner. Rapid engine wear may result.

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.



Sediment cup cleaning

Turn the fuel valve to OFF. Remove the sediment cup and O-ring, and wash them in nonflammable or high flash point solvent. Dry them thoroughly, and reinstall securely. Turn the fuel valve ON, and check for leaks.



Spark plug service

Recommended spark plug ; BPR5ES (NGK) W16EPR-U (ND)

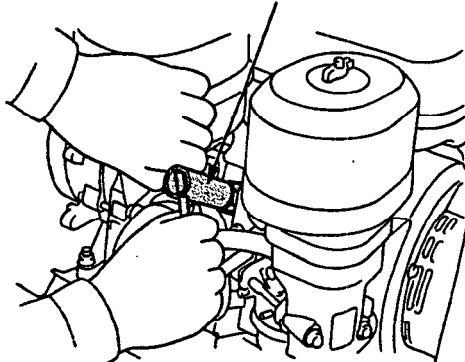
CAUTION : Never use a spark plug of incorrect heat range.

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

1. Remove the spark plug cap, and use a spark plug wrench to remove the plug.

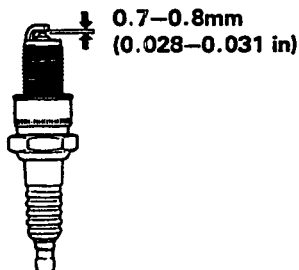
WARNING If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

PLUG WRENCH

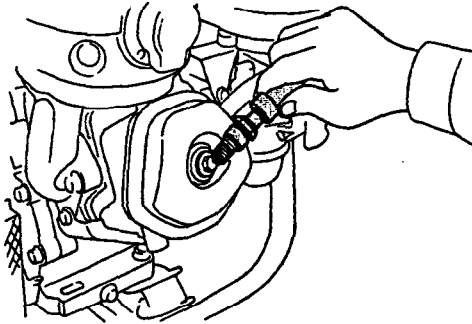


2. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.

3. Measure the plug gap with a feeler gauge. The gap should be 0.7–0.8 mm (0.028–0.031 in)



-
4. Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.



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

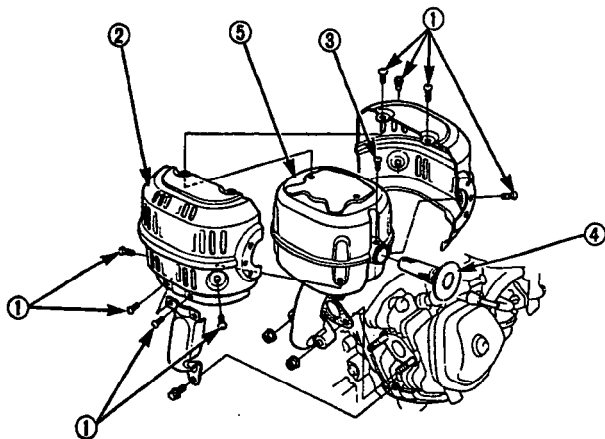
NOTE : If installing a new spark plug, tighten $1/2$ turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten $1/8$ — $1/4$ turn after the spark plug seats to compress the washer.

CAUTION : The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may damage the engine.

Spark arrester maintenance

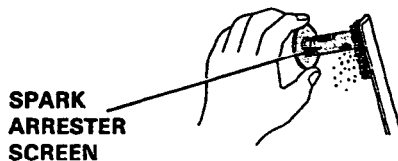
WARNING If the engine has been running, the muffler will be very hot. Allow it to cool before proceeding.

1. Remove the eight 5 mm screws ① from the muffler protector ②, and remove the muffler protector.
2. Remove the 4mm screw ③ from the spark arrester ④, and remove the spark arrester from the muffler ⑤.



3. Use a brush to remove carbon deposits from the spark arrester screen.

CAUTION: Be careful not to damage the spark arrester screen.



NOTE: The spark arrester must be free of breaks and holes. Replace, if necessary.

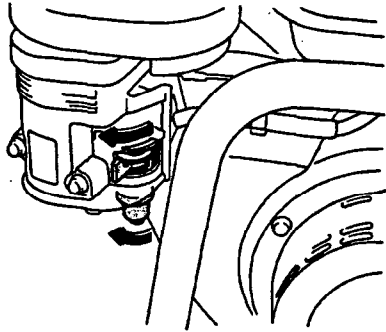
4. Install the spark arrester and the muffler in the reverse order of disassembly.

9. TRANSPORTING/STORAGE

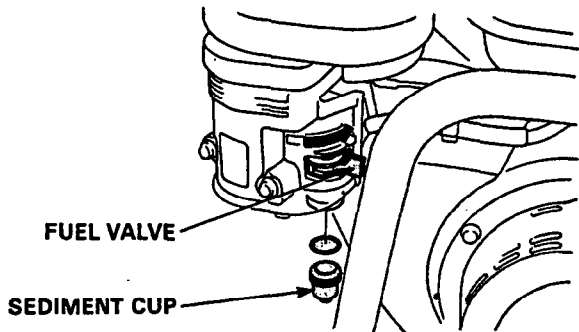
CAUTION : When transporting the generator, turn the engine switch and oil alert switch OFF and keep the generator level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

Before storing the unit for an extended period :

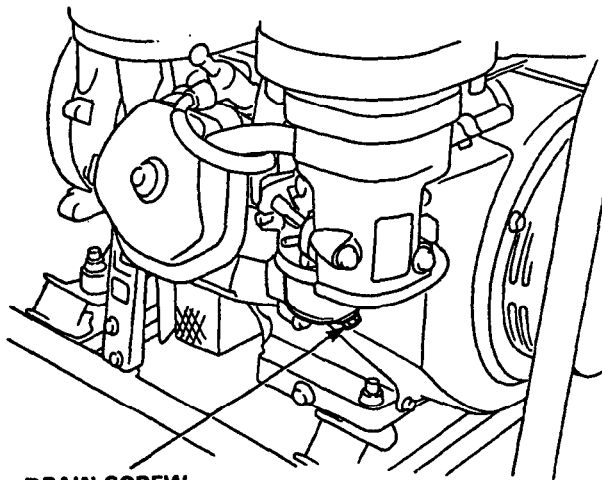
1. Assure the storage area is free of excessive humidity and dust.
2. Drain the fuel.
 - a. With the fuel valve OFF, remove and empty the sediment cup.



- b. Turn the fuel valve ON and drain the gasoline in the fuel tank into a suitable container.
 - c. Replace the sediment cup and tighten securely.

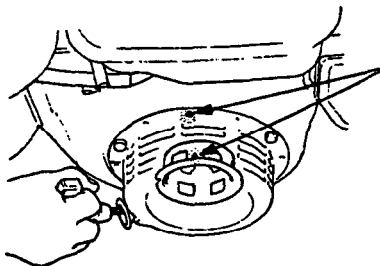


-
- d. Drain the carburetor by loosening the drain screw. Drain the gasoline into a suitable container.



DRAIN SCREW

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. Pull the starter rope slowly until resistance is felt. Continue pulling until the notch on the starter pulley aligns with the hole on the recoil starter. (see illustration below.) At this point, the intake and exhaust valves are closed, and this will help to protect the engine from internal corrosion.



Align the notch on the starter pulley with the hole at the top of the recoil starter.

6. Cover the engine to keep out dust.

10. TROUBLESHOOTING

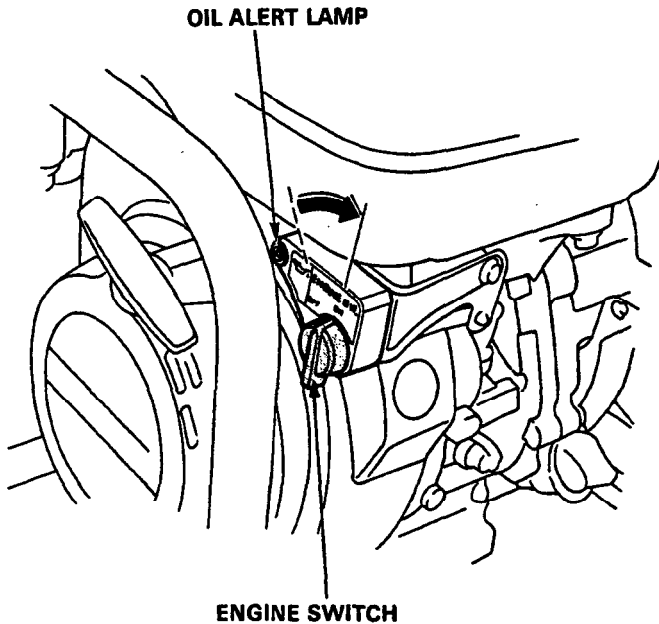
A. When the engine will not start :

1. Is the engine switch on ?
2. Does the oil alert lamp flash when the starter is pulled ?
3. Is there enough fuel ?
4. Are all loads disconnected from the AC receptacles ?
5. Is there a spark at the spark plug ?
 - a. Remove the spark plug cap. Clean any dust from around the spark plug base, then remove the spark plug.
 - b. Install the spark plug in the plug cap.
 - c. Turn the engine switch on.
 - d. Grounding the side electrode to any engine ground, pull the recoil starter to see if sparks jump across the gap.

WARNING Be sure there is no spilled fuel near the spark plug. Spilled fuel may ignite. Perform this test in a well ventilated area.

e. If there are no sparks, replace the plug.

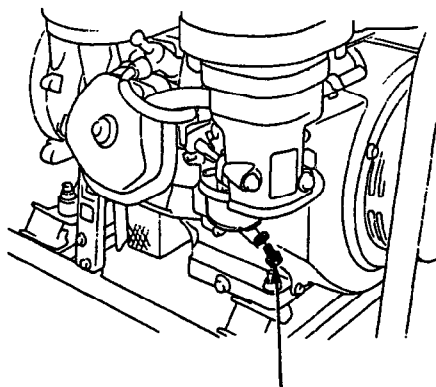
f. If the new spark plug does not spark, take the generator to an authorized Honda dealer.



6. Is gasoline reaching the carburetor ?

To check, place a suitable container under the drain, turn the engine switch on and loosen the drain screw. Fuel should flow out freely.

If OK, try to start the engine according to the instructions.



DRAIN SCREW

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

WARNING If any fuel is spilled, make sure the area around the spark plug and the generator is dry before starting the engine. Fuel vapor or spilled fuel may ignite.

B. When the engine starts but stops immediately :

1. Check the oil alert lamp.

If the oil alert lamp flashes when the starter is pulled, check the engine oil level and fill with the recommended oil.

2. Re-start the engine.

C. No electricity at the AC receptacles :

1. Is the AC circuit breaker on ?

2. Check the electrical appliance or equipment for any defects.

11. SPECIFICATIONS

Dimensions

Model	EG3500X
Power equipment description code	EA6
Length x Width x Height	655 x 460 x 460 mm (25.8 x 18.1 x 18.1 in)
Dry weight	53.5 kg (117.9 lb)

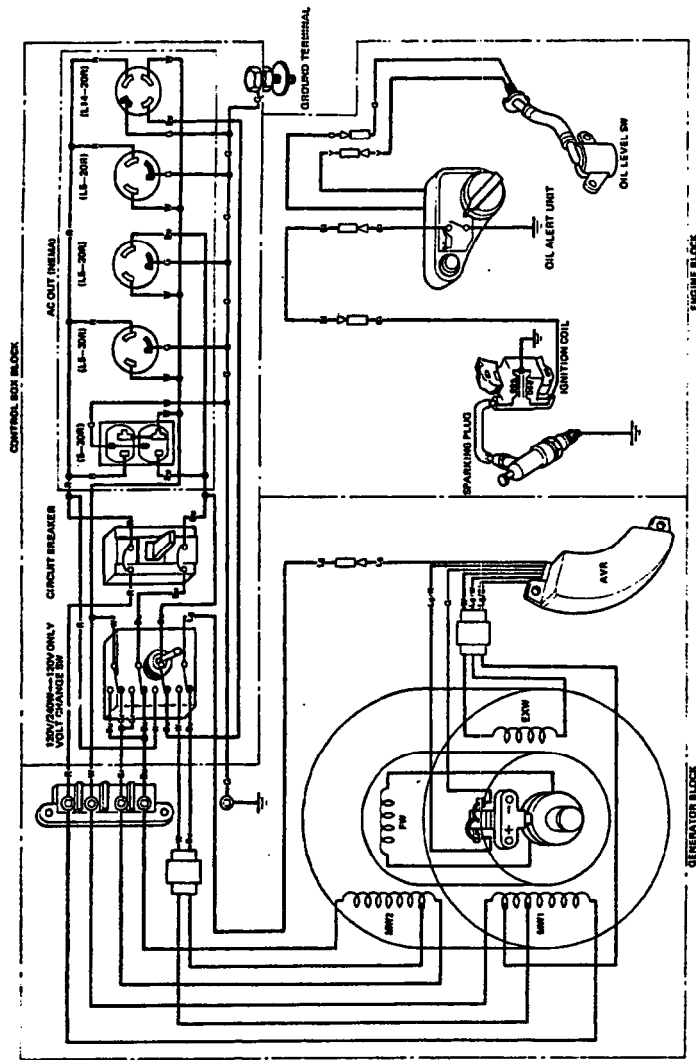
Engine

Model	GX240
Engine type	4-stroke, overhead valve, single cylinder
Displacement (Bore x Stroke)	242 cc (14.8 cuin) (73 x 58 mm (2.9 x 2.3 in))
Max. output	8.0 HP/3600 rpm
Max. torque	1.7 kg-m (12.3 ft-lb)/2500 rpm
Fuel consumption	230 g/HP-h (0.7 lb/HP-h)
Cooling system	Forced air
Ignition system	Transistorized magneto
PTO shaft rotation	Counterclockwise

Generator

Model		EG3500X
Type		A
AC output	Rated voltage	120 V/240 V
	Rated frequency	60 Hz
	Rated ampere	25/12.5 A
	Rated output	3.0 kVA (3000 W)
	Maximum output	3.5 kVA (3500 W)

12. WIRING DIAGRAM



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

13. WARRANTY SERVICE

Owner Satisfaction

Your satisfaction and goodwill are important to your dealer and to us. All Honda warranty details are explained in the Distributor's Limited Warranty. Normally, any problems concerning the product will be handled by your dealer's service department. If you have a warranty problem that has not been handled to your satisfaction, we suggest you take the following action:

- Discuss your problem with a member of dealership management. Often complaints can be quickly resolved at that level. If the problem has already been reviewed with the Service Manager, contact the owner of the dealership or the General Manager.
- If your problem still has not been resolved to your satisfaction, contact the Customer Relations Department of American Honda Motor Co., Inc.

American Honda Motor Co., Inc.
Customer Relations Department
P.O. Box 420
Gardena, California 90247-0842
Telephone: (213) 604-2400

We will need the following information in order to assist you:

- Your name, address, and telephone number
- Product model and serial number
- Date of purchase
- Dealer name and address
- Nature of the problem

After reviewing all the facts involved, you will be advised of what action can be taken. Please bear in mind that your problem will likely be resolved at the dealership, using the dealer's facilities, equipment, and personnel, so it is very important that your initial contact be with the dealer.

Your purchase of a Honda product is greatly appreciated by both your dealer and American Honda Motor Co., Inc. We want to assist you in every way possible to assure your complete satisfaction with your purchase.

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