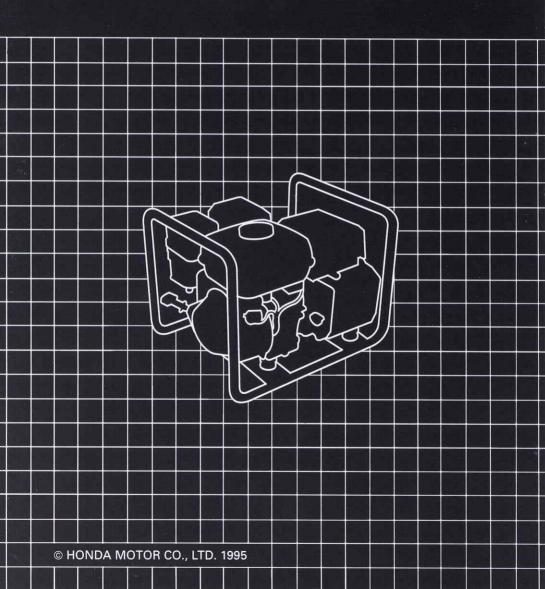
HONDA

Power

**Equipment** 

# Owner's Manual EZ1400 • EZ2500



#### **AW** ARNING

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.

# A WARNING: A

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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 Honda Generator: **EZ1400** and **EZ2500**.

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

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

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

ACAUTION 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 LABEL LOCATIONS**

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

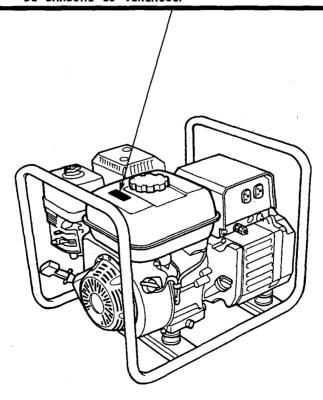
Read them carefully.

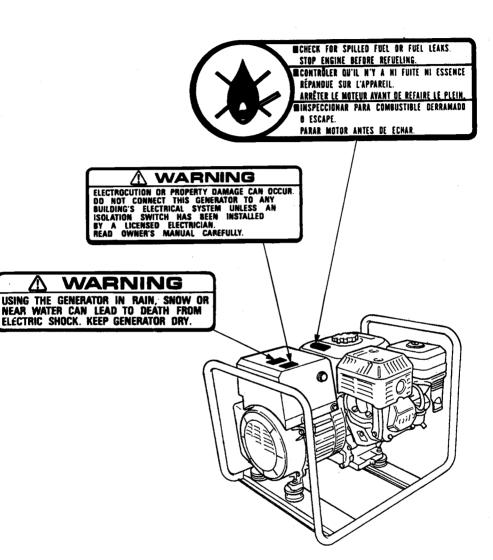
If a label comes off or becomes hard to read, contact your Honda Generator dealer for a replacement.

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 CARBOND ES VENENOSO.





#### 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**

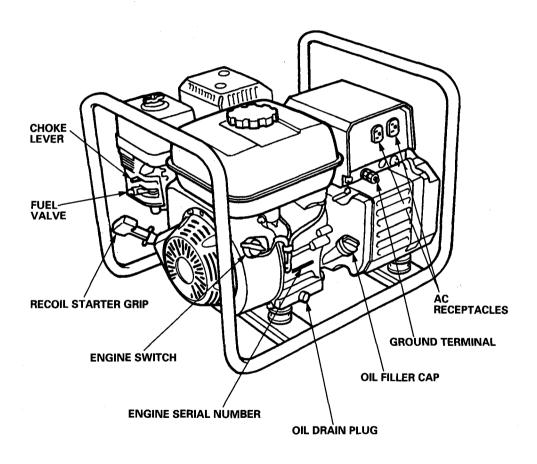
- Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.
- If you run the generator in an area that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas.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

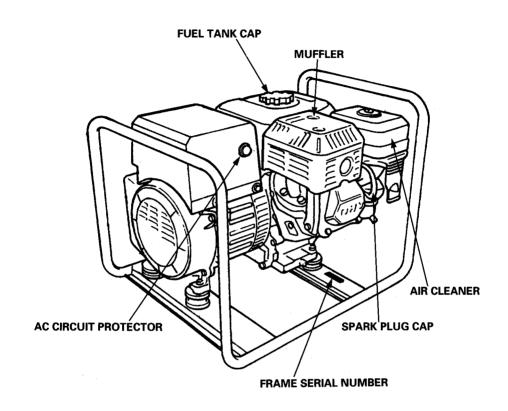
#### **Electric Shock Hazards**

- 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.

#### 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 wellventilated 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.





\*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 42).

rraine senai number	
Engine serial number:	

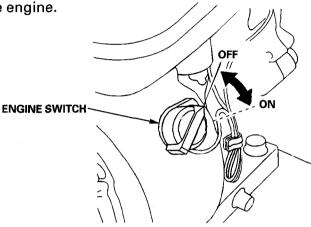
#### **CONTROLS**

#### **Engine Switch**

To start and stop the engine.

Key position:

**OFF:** To Stop the engine. **ON:** To run the engine.

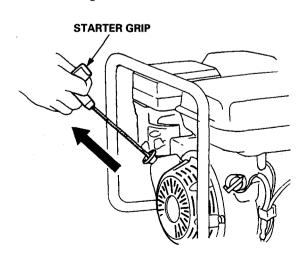


#### **Recoil Starter**

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

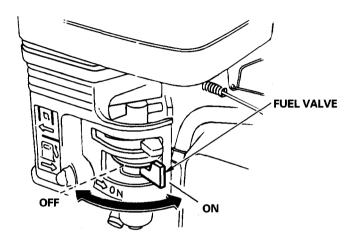
#### NOTICE

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



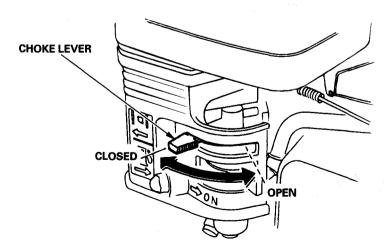
#### **Fuel Valve**

The fuel valve is 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 the OFF position after stopping the engine.



#### **Choke Lever**

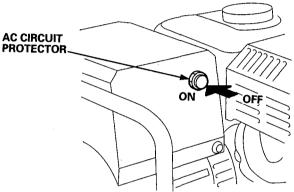
The choke is used to provide an enriched fuel mixture when starting a cold engine. It can be opened and closed by operating the choke lever manually. Move the lever to the CLOSE position to enrich the mixture for cold starting.



#### Circuit Protector

The circuit protector will automatically switch OFF if there is a short circuit or a significant overload of the generator at the receptacle. If the circuit protector 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 protector ON again.

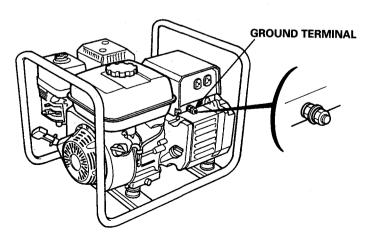
The circuit protector may be used to switch the generator power on or off.



#### **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.

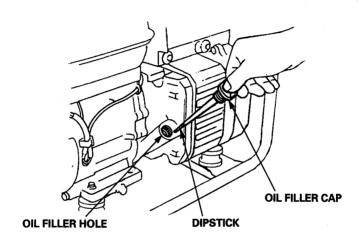
Before using the ground terminal, consult a qualified electrician, electrical inspector or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.

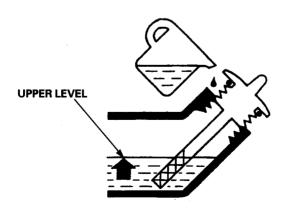


#### **Oil Alert System**

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 (page 20 ) before troubleshooting in other areas.





#### **GENERATOR USE**

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.

#### **AW** ARNING

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.

#### **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:

EZ1400: 1.4 kVA EZ2500: 2.5 kVA

For continuous operation, do not exceed the rated power.

Rated power is: EZ1400: 1.2 kVA

EZ2500: 2.3 kVA

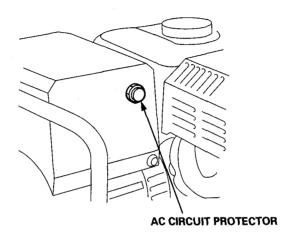
In either case, the total power requirements (VA) of all appliances connected must be considered. Appliance and power tool manufacturers usually list rating information near the model number or serial number.

#### **AC Operation**

1. Start the engine (see page 22).

2. 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 protector to switch OFF, reduce the electrical load on the circuit, wait a few minutes and then reset the circuit protector.

#### • High Altitude Operation

At high altitude, the standard carburetor air-fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your engine at altitudes above 1,800 meters (6,000 feet), have your dealer perform this carburetor modification.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 300 meter (1,000 foot) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

#### NOTICE

When the carburetor has been modified for high altitude operation, the air-fuel mixture will be too lean for low altitude use. Operation at altitudes below 1,800 meters (6,000 feet) with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your dealer return the carburetor to original factory specifications.

#### PRE-OPERATION CHECK

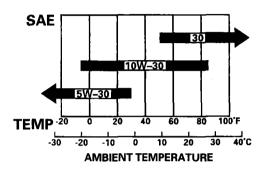
#### **Engine Oil**

#### 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 and the engine stopped.

Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SF or SG. Always check the API SERVICE label on the oil container to be sure it includes the letters SF or SG.



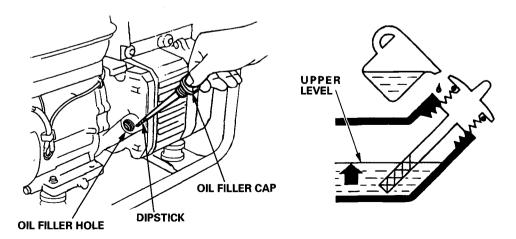
SAE 10W-30 is recommended for general, all-temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

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.

 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.



#### **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 filter.

Use unleaded gasoline with a pump octane rating of 86 or higher.

This engine is certified to operate on unleaded gasoline.

Unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life.

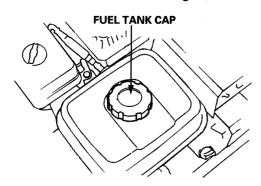
Never use stale or contaminated gasoline or oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

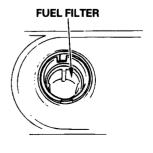
#### **AW** ARNING

- 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:

EZ1400: 2.7 & (0.71 US gal, 0.59 Imp gal) EZ2500: 3.7 & (0.98 US gal, 0.81 Imp gal)





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 conventional gasolines are being blended with alcohol or an ether compound. These gasolines are collectively referred to as oxygenated fuels. To meet clean air standards, some areas of the United Sates and Canada use oxygenated fuels to help reduce emissions.

If you use an oxygenated fuel, be sure it is unleaded and meets the minimum octane rating requirement.

Before using an oxygenated fuel, try to confirm the fuel's contents. Some states/provinces require this information to be posted on the pump.

The following are the EPA approved percentages of oxygenates:

- ETHANOL— (ethyl or grain alcohol) 10% by volume
  You may use gasoline containing up to 10% ethanol
  by volume. Gasoline containing ethanol may be
  marketed under the name "Gasohol".
- MTBE— (methyl tertiary butyl ether) 15% by volume You may use gasoline containing up to 15% MTBE by volume.
- METHANOL— (methyl or wood alcohol) 5% by volume
  You may use gasoline containing up to 5%
  methanol by volume as long as it also contains
  cosolvents and corrosion inhibitors to protect the
  fuel system. Gasoline containing more than 5%
  methanol by volume may cause starting and/or
  performance problems. It may also damage metal,
  rubber, and plastic parts of your fuel system.

If you notice any undesirable operating symptoms, try another service station or switch to another brand of gasoline.

Fuel system damage or performance problems resulting from the use of an oxygenated fuel containing more than the percentages of oxygenates mentioned above are not covered under warranty.

# STARTING THE ENGINE/STOPPING THE ENGINE

#### Starting the engine

- 1. 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 warms up, slowly turn the choke lever to the 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 engine switch to the OFF position.
- 2. Turn the fuel valve to the OFF position.

#### The Importance of Maintenance

Good maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution.

#### **A**WARNING

Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed

Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

To help you properly care for your generator, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by a Honda technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your generator under severe conditions, such as sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are "certified" to EPA standards.

#### **Maintenance Safety**

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

#### **A** WARNING

Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed.

Always follow the procedures and precautions in the owner's manual.

#### Safety precautions

- Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards:
  - Carbon monoxide poisoning from engine exhaust.
     Be sure there is adequate ventilation whenever you operate the engine.
  - Burns from hot parts.
     Let the engine and exhaust system cool before touching.
  - Injury from moving parts.
     Do not run the engine unless instructed to do so.
- Read the instructions before you begin, and make sure you have the tools and skills required.
- To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related parts.

Remember that your servicing dealer knows your generator best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability, use only new, genuine Honda parts or their equivalents for repair or replacement.

#### **Emission Control System**

#### Source of Emissions

The combustion process produces carbon monoxide, oxides of nitrogen, and Hydrocarbons. Control of hydrocarbons and oxides of nitrogen is very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic.

Honda utilizes lean carburetor settings and other systems to reduce the emissions of carbon monoxide, oxides of nitrogen, and hydrocarbons.

#### The U.S. and California Clean Air Acts

EPA and California regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems.

The following instructions and procedures must be followed in order to keep the emissions from your Honda engine within the emission standards.

#### **Tampering and Altering**

Tampering with or altering the emission control system may increase emissions beyond the legal limit. Among those acts that constitute tampering are:

- Removal or alteration of any part of the intake, fuel, or exhaust systems.
- Altering or defeating the governor linkage or speed-adjusting mechanism to cause the engine to operate outside its design parameters.

#### **Problems That May Affect Emissions**

If you are aware of any of the following symptoms, have your engine inspected and repaired by your servicing dealer.

- Hard starting or stalling after starting.
- Rough idle.
- Misfiring or backfiring under load.
- · Afterburning (backfiring).
- · Black exhaust smoke or high fuel consumption.

#### **Replacement Parts**

The emission control systems on your Honda engine were designed, built, and certified to conform with EPA and California emission regulations. We recommend the use of genuine Honda parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. The use of replacement parts that are not of the original design and quality may impair the effectiveness of your emission control system.

A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emission performance. The manufacturer or rebuilder of the part must certify that use of the part will not result in a failure of the engine to comply with emission regulations.

#### Maintenance

Follow the maintenance schedule on page 28. Remember that this schedule is based on the assumption that your machine will be used for its designed purpose. Sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, will require more frequent service.

#### Maintenance Schedule

ITE	REGULAR SERVICEM Perform at every month or oper terval, whichevery	rery indicated ating hour in-	Each use	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.
•	Engine oil	Check level	0				
		Change		0		0	
• ,	Air cleaner	Check	0				
		Clean			0(1)		
		Replace					0(4)
	Sediment cup	Clean				O	
•	Spark plug	Check-Readjust				0	
	· , -	Replace					0
	Spark arrester	Clean				O	
•	Valve clearance	Check-Readjust					0(2)
•	Fuel tank and filter	Clean					0(2)
•	Fuel line	Check		Ev	ery 2 years	(2)	

#### NOTE: • Emission related items.

- (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 commercial use, log hours of operation to determine proper maintenance intervals.
- (4) Replace the paper element only.

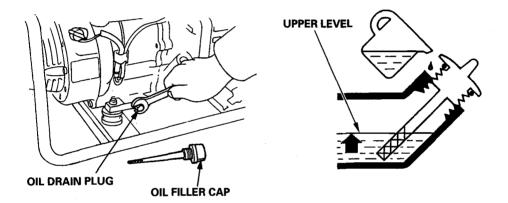
#### **Engine Oil Change**

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 18 ) and check the oil level.

Oil capacity:

0.6 & (0.6 US gt, 0.5 Imp gt)



Wash your hands with soap and water after handling used oil.

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 or recycling center for reclamation. Do not throw it in the trash, pour it on the ground or down a drain.

#### 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.

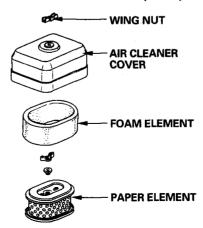
#### AWARNING

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.

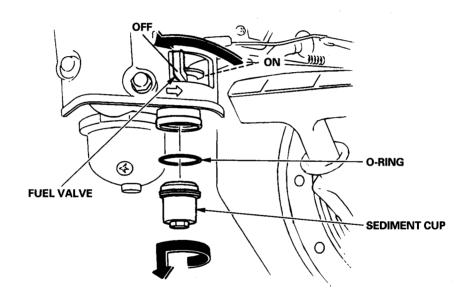
- 1. Remove the wing nut and the air cleaner cover. Remove the elements and separate them. Carefully check both elements for holes or tears and replace if damaged.
- 2. Foam element: Wash the element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or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



#### **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 OFF. 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**

In order to service the spark plug, you will need a spark plug wrench (commercially available).

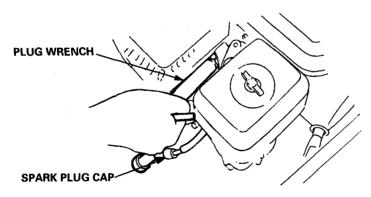
Recommended spark plugs: BPR6ES (NGK)

W20EPR-U (DENSO)

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 a plug wrench to remove the spark plug.



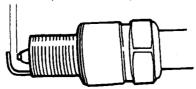
- 4. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
- 5. Measure the plug gap with a feeler gauge.

Correct as necessary by carefully bending the side electrode.

The gap should be:

0.70-0.80 mm (0.028-0.031 in)

0.70-0.80 mm (0.028-0.031 in)



- 6. Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
- 7. 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**

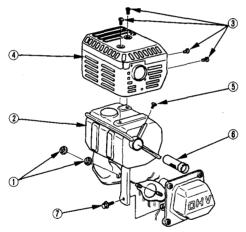
If the generator has been running, the muffler will be very hot. Allow it to cool before proceeding.

#### NOTICE

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

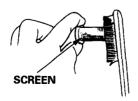
Clean the spark arrester as follows:

- 1. Remove ① two 8 mm nuts and ② 6 mm bolt to remove the ② muffler assembly.
- 2. Remove ③ four 5 mm screws and remove the ④ muffler protector from the muffler.
- 3. Remove 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 the reverse order of disassembly.

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.

#### **AW** ARNING

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:

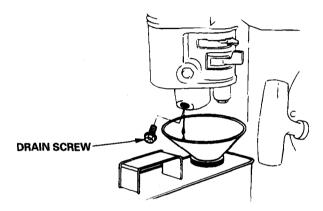
- 1. Be sure the storage area is free of excessive humidity and dust.
- 2. Service according to the table below:

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 36).  Drain the fuel sediment cup. (page 31).				
	Fill with fresh gasoline and add gasoline conditioner*.				
	Drain the carburetor float bowl. (page 36).				
1 year or more	Drain the fuel sediment cup. (page 31).				
	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.				
1	Change the engine oil. (page 29).				
	After removal from storage, drain the stored				
	gasoline into a suitable container, and fill				
	with fresh gasoline before starting.				
* Use gasoline cond	litioners that are formulated to extend storage				
life.					
Contact your auth	orized Honda generator dealer for conditioner				
recommendations	3				

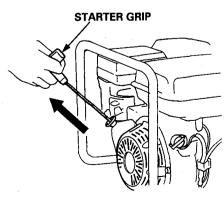
1. Drain the carburetor by loosening the drain screw. Drain the gasoline into a suitable container.

#### **AW** ARNING

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.

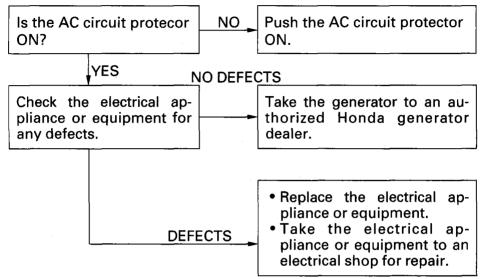


- 2. Change the engine oil. (see page 29)
- 3. Remove the spark plug, and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.
- 4. Slowly pull the starter grip until resistance is felt. At this point, 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.

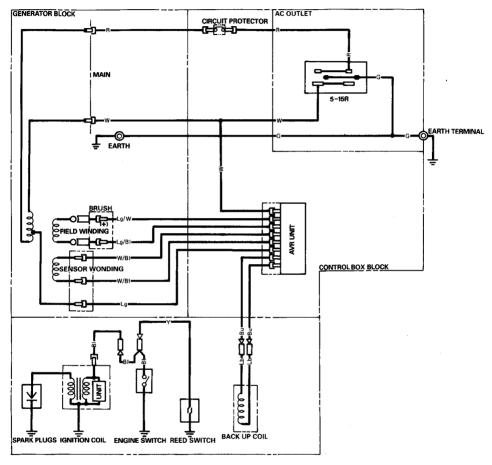


#### When the engine will not start: NO Refill the fuel tank. Is there fuel in the tank? YES Is there enough oil NO Add the recomin the engine? mended oil. YES Still NO spark Is there a spark NQ Replace Take the generator the to an authorized spark plug. from the spark plug? Honda generator dealer. To check: 1) Remove the spark **AW** ARNING plug cap and clean any dirt from around Be sure there is no spilled fuel around the the spark plug. spark plug. Spilled fuel 2) Remove the spark may ignite. plug and install the spark plug in the YES plug cap. 3) Set the plug side electrode on the cylinder head. 4) Crank the engine, sparks should jump across the gap. Clean the fuel sedi-Is the fuel reaching NO ment cup. the carburetor? To check: YES **DRAIN SCREW** 1)Turn off the fuel valve and loosen the If the engine still drain screw. does not start, take 2) Turn the fuel valve to the generator to an ON. Fuel should flow authorized Honda from the drain when generator dealer. the fuel valve is turned ON.

#### No electricity at the AC receptacles:

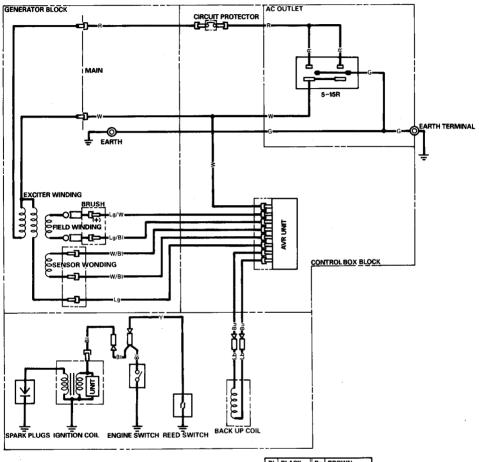


#### **EZ1400**



Bi	BLACK	Br	BROWN
Y	YELLOW	0	ORANGE
Bu	BLUE	Lb	LIGHT BLUE
G	GREEN	Lg	LIGHT GREEN
R	RED	P	PINK
w	WHITE	Gr	GRAY

#### **EZ2500**



1	Bł	BLACK	Br	BROWN
i	Υ	<b>YELLOW</b>	0	ORANGE
ı	Bu	BLUE	Lb	LIGHT BLUE
ı	G	GREEN	Lg	LIGHT GREEN
ĺ	R	RED	Р	PINK
	W	WHITE	Gr	GRAY

#### Dimensions

Model	EZ1400	EZ2500
Power product description code	EZEY	EZEJ
Length	510 mm (20.1 in)	510 mm (20.1 in)
Width	425 mm (16.7 in)	425 mm (16.7 in)
Height	405 mm (15.9 in)	405 mm (15.9 in)
Dry weight	29.5 kg (65.0 lbs)	36.5 kg (80.5 lbs)

**Engine** 

Model	HONDA GX120K1 HONDA GX160K			
Engine type	4-stroke, overhead v	4-stroke, overhead valve, single cylinder		
Displacement	118 cm³ (7.2 cu-in)	163 cm³ (9.9 cu-in)		
(Bore x Stroke)	(60 x 42 mm (2.4 x 1.7 in))	(68 x 45 mm (2.7 x 1.8 in))		
Compression ratio	8.5 : 1			
Engine speed	3,600 rpm			
Cooling system	Forced air			
Ignition system	Transistorized magneto			
Oil capacity	0.6 & (0.6 US qt, 0.	0.6 & (0.6 US qt , 0.5 Imp qt)		
Fuel tank capacity	2.7 ℓ	3.7 Q		
	(0.71 US gal, 0.59 Imp gal)	(0.98 US gal, 0.81 Imp gal)		
Spark plug	BPR6ES (NGK)	. ,		
	W20EPR-U (DENSO)	<u> </u>		

#### Generator

	Model	EZ1400	EZ2500
Type		Α	
	Rated Voltage	120 V	
	Rated Frequency		
AC output	Rated Ampere	10.0 A	19.2 A
	Rated Output	1.2 kVA	2.3 kVA
	Maximum Output	1.4 kVA	2.5 kVA
DC output		Only for charging	ng 12V automotive batteries.
		Maximum charg	ging output = 8.3A

**Tune-up Specifications** 

0.70-0.80 mm (0.028-0.031 in)	Refer to page: 32
IN: $0.15 \pm 0.02  \text{mm}  (\text{cold})$	See your authorized
EX: $0.20 \pm 0.02  \text{mm (cold)}$	Honda dealer
No other adjustm	ents needed.
	EX: $0.20 \pm 0.02  \text{mm (cold)}$

#### NOTE

Specifications may vary according to the types, and are subject to change without notice.

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#### WARRANTY SERVICE INFORMATION

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 to:

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

Or telephone: (770) 497-6400

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

- Model and serial number (see pages 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

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## **MEMO**

# HONDA MOTOR CO., LTD. TOKYO, JAPAN

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