

HONDA

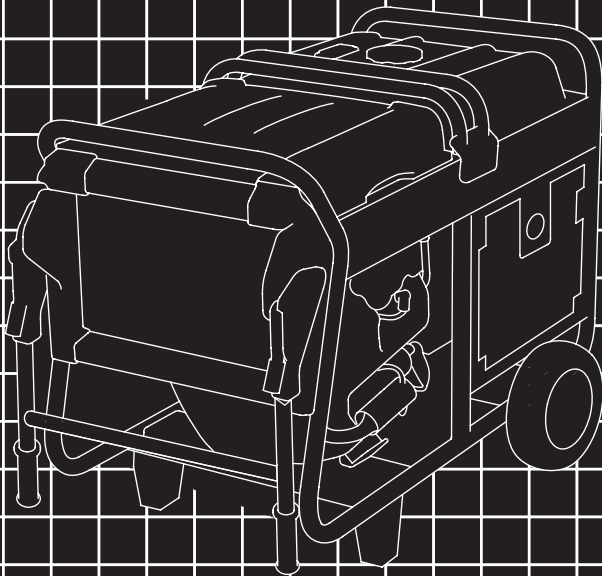
Power

Equipment

Owner's Manual

GENERATOR

EB10000



*See page 80 for instructions
on assembling your generator.*



WARNING:



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

California Proposition 65

This product contains or emits chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

⚠ WARNING

Exhaust contains poisonous carbon monoxide gas that can build up to dangerous levels in closed areas. Breathing carbon monoxide can cause unconsciousness or death.

Never run the generator in a closed, or even partly closed area where people may be present.

Keep this owner's manual handy so that you can refer to it at any time. This owner's manual is considered a permanent part of the generator and should remain with the generator if resold.

The information and specifications included in this publication were in effect at the time of approval for printing. Honda Motor Co., Ltd. reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatsoever.

INTRODUCTION

Congratulations on your selection of a Honda generator. We are certain you will be pleased with your purchase of one of the finest generators on the market.

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

As you read this manual, you will find information preceded by a **NOTICE** symbol. That information is intended to help you avoid damage to your generator, other property, or the environment.

We suggest you read the *Distributor's Limited Warranty* to fully understand its coverage and your responsibilities of ownership. The *Distributor's Limited Warranty* is a separate document that should have been given to you by your dealer.

When your generator needs scheduled maintenance, keep in mind that your Honda servicing dealer is specially trained in servicing Honda generators and is supported by the parts and service divisions of American Honda. Your Honda servicing dealer is dedicated to your satisfaction and will be pleased to answer your questions and concerns.

Best Wishes,
Honda Motor Co., Ltd.


A FEW WORDS ABOUT SAFETY

Your safety and the safety of others are very important. And using this generator safely is an important responsibility.

To help you make informed decisions about safety, we have provided operating procedures and other information on labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining a generator. You must use your own good judgment.

You will find important safety information in a variety of forms, including:

- **Safety Labels** — on the generator.
- **Safety Messages** — preceded by a safety alert symbol  and one of three signal words, DANGER, WARNING, or CAUTION.

These signal words 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.

- **Safety Headings** — such as *IMPORTANT SAFETY INFORMATION*.
- **Safety Section** — such as *GENERATOR SAFETY*.
- **Instructions** — how to use this generator correctly and safely.

This entire book is filled with important safety information — please read it carefully.

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GENERATOR SAFETY

IMPORTANT SAFETY INFORMATION

Honda generators are designed for use with electrical equipment that has suitable power requirements. Other uses can result in injury to the operator or damage to the generator and other property.

Most injuries or property damage can be prevented if you follow all instructions in this manual and on the generator. The most common hazards are discussed below, along with the best way to protect yourself and others.

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

A generator's exhaust contains toxic carbon monoxide, which you cannot see or smell. Breathing carbon monoxide can **KILL YOU IN MINUTES**. To avoid carbon monoxide poisoning, follow these instructions when operating a generator:

- Only run a generator **OUTSIDE**, far away from windows, doors, and vents.
- Never operate a generator inside a house, garage, basement, crawl space, or any enclosed or partially enclosed space.
- Never operate a generator near open doors or windows.
- Get fresh air and seek medical attention immediately if you suspect you have inhaled carbon monoxide.

Early symptoms of carbon monoxide exposure include headache, fatigue, shortness of breath, nausea, and dizziness. Continued exposure to carbon monoxide can cause loss of muscular coordination, loss of consciousness, and then death.

To alert you to potentially dangerous levels of carbon monoxide coming from a generator operating outside or from other sources, install battery operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up on every level of the home and outside sleeping areas, according to the manufacturer's instructions.

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 the Ground Fault Circuit Interrupter (GFCI) receptacle and all other electrical components on the control panel before each use. Moisture or ice can cause a malfunction or short circuit in electrical components that 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 3 feet (1 meter) 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.

GENERATOR SAFETY

Refuel With Care

Gasoline is extremely flammable, and gasoline vapor can explode.

Allow the engine to cool if the generator has been in operation.

Refuel only outdoors in a well-ventilated area with the engine off.

Do not refuel during operation.

Do not overfill the fuel tank.

Never smoke near gasoline, and keep other flames and sparks away.

Always store gasoline in an approved container.

Make sure that any spilled fuel has been wiped up before starting the engine.

GENERATOR SAFETY

SAFETY LABEL LOCATIONS

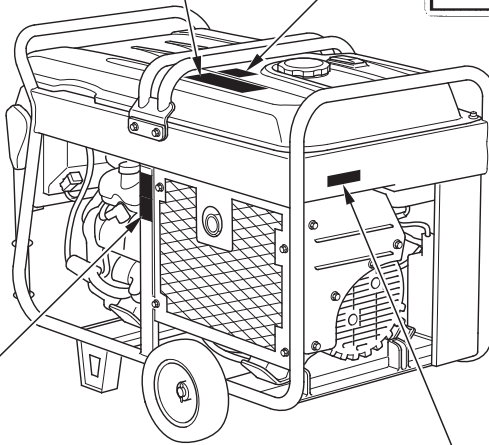
These labels warn you of potential hazards that can cause serious injury. Read them carefully. If a label comes off or becomes hard to read, contact your Honda servicing dealer for a replacement.

	<p>⚠ WARNING</p> <p>Gasoline is highly flammable and explosive. You could be burned or seriously injured if the gasoline is ignited.</p> <ul style="list-style-type: none"> Before refueling, stop the engine and keep heat, sparks, and flame away. Handle fuel only outdoors. Do not fill the fuel tank above the upper limit line. Wipe up spills immediately. 		<p>⚠ WARNING</p> <p>Improper connections to a building can allow electrical current to backfeed into utility lines, creating an electrocution hazard.</p> <ul style="list-style-type: none"> Connections to a building must isolate generator power from utility power and comply with all applicable laws and electrical codes. 	<p>⚠ WARNING</p> <p>The generator is a potential source of electrical shock if not kept dry or cover is removed.</p> <ul style="list-style-type: none"> Do not expose the generator to moisture, rain or snow. Do not operate the generator with wet hands. Do not remove covers when engine is running.
	<p>Exhaust contains poisonous carbon monoxide gas that can build up to dangerous levels in closed areas. Breathing carbon monoxide can cause unconsciousness or death.</p> <ul style="list-style-type: none"> Never run the generator in a closed, or even partly closed area where people may be present. 		<p>You risk electric shock if you operate this generator with a faulty GFCI (Ground-Fault Circuit-Interrupter).</p> <ul style="list-style-type: none"> Test GFCI before each use. If GFCI fails test, do not use your generator. See your Honda dealer. 	<p>Read owner's manual carefully before operation.</p>

⚠ DANGER

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

<p>NEVER use inside a home or garage, EVEN IF doors and windows are open.</p>		<p>Only use OUTSIDE and far away from windows, doors, and vents.</p>



⚠ WARNING

Operation of This Equipment May Create Sparks That Can Start Fires Around Dry Vegetation. A Spark Arrestor May be Required. The Operator Should Contact Local Fire Agencies For Laws or Regulations Relating to Fire Prevention Requirements.

Per California Public Resources Code 4442.6

⚠ CAUTION

A hot exhaust system can cause serious burns.

- Avoid contact if the engine has been running.

⚠ CAUTION

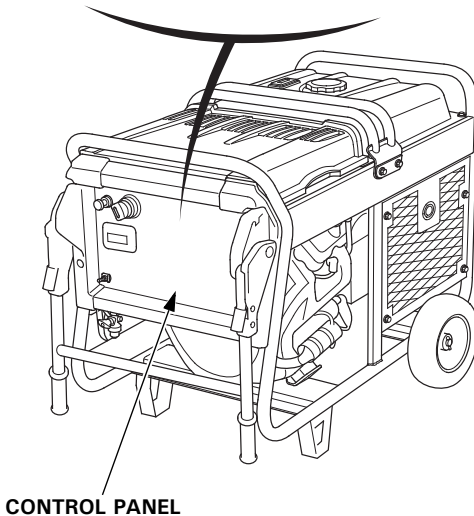
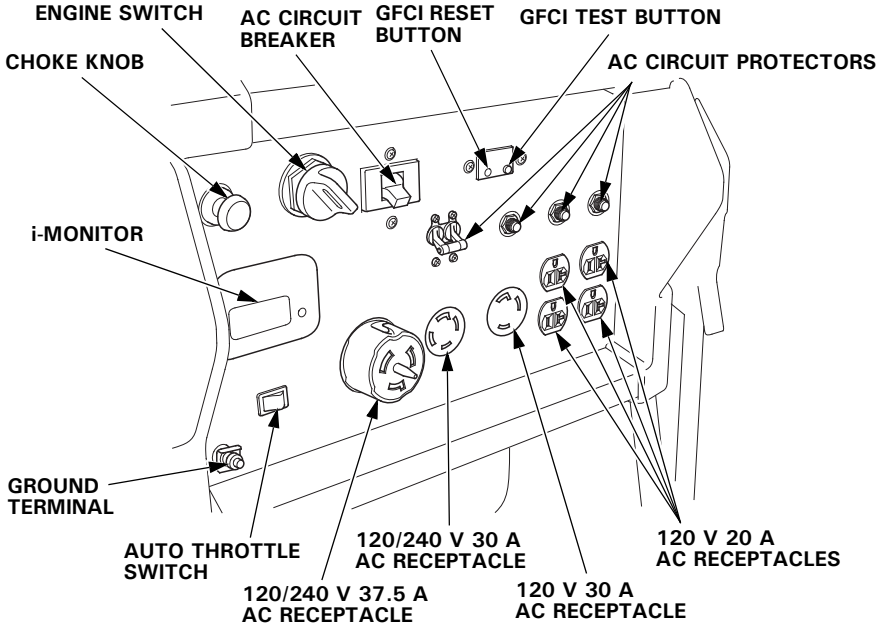
A hot exhaust system can cause serious burns.

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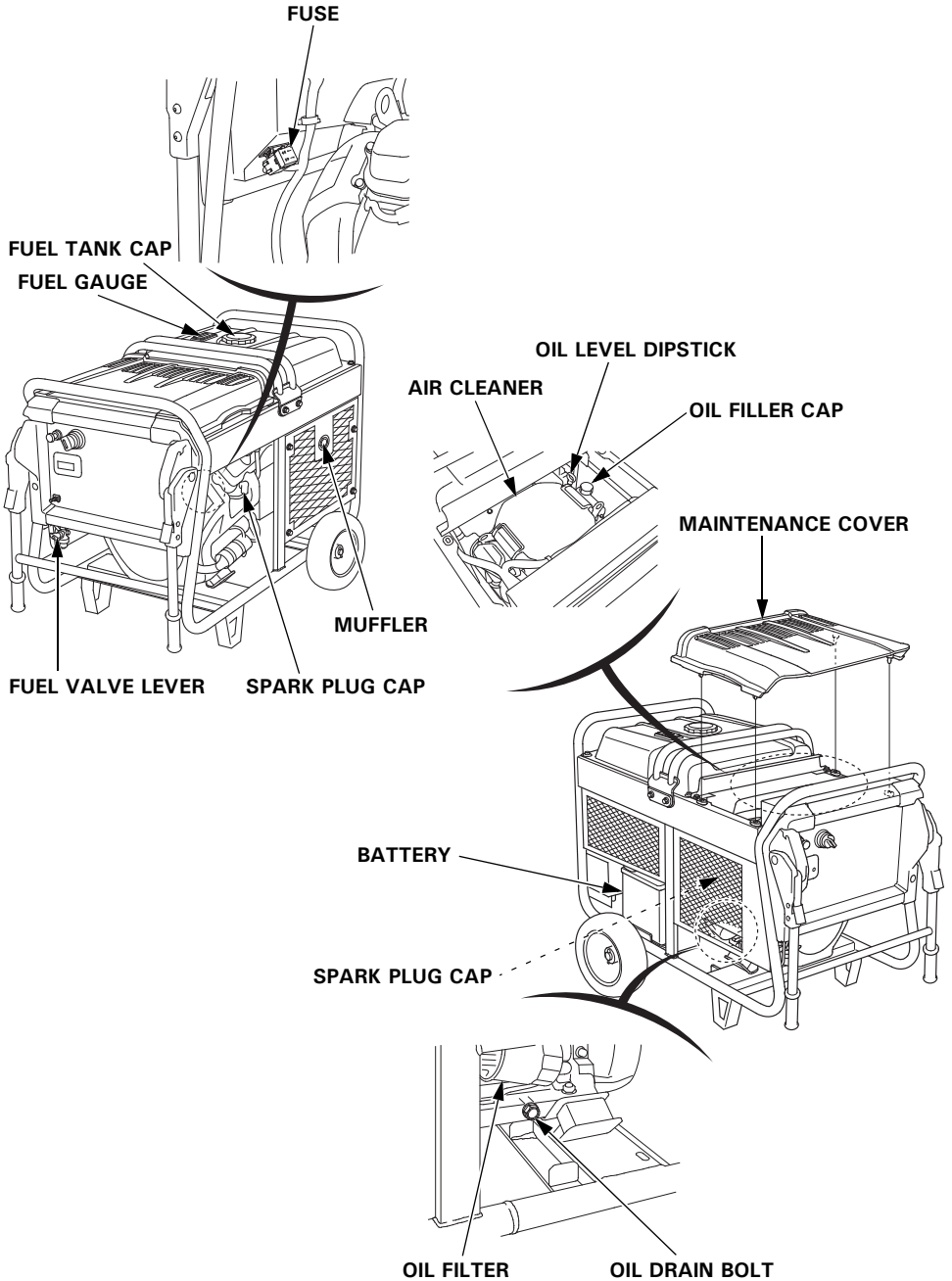
CONTROLS & FEATURES

COMPONENT & CONTROL LOCATIONS

Use the two illustrations on these pages to locate and identify the most frequently used controls.



CONTROLS & FEATURES



CONTROLS & FEATURES

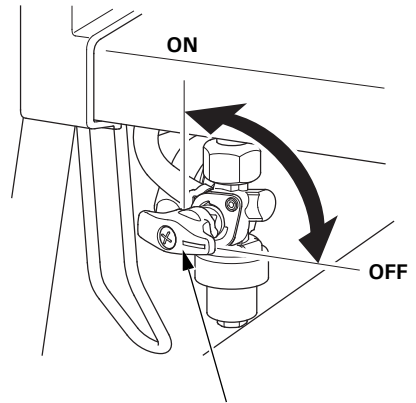
CONTROLS

Fuel Valve Lever

The fuel valve lever is located between the fuel tank and carburetor.

The fuel valve lever must be in the ON position for the engine to run.

After stopping the engine, turn the fuel valve lever to the OFF position.



FUEL VALVE LEVER

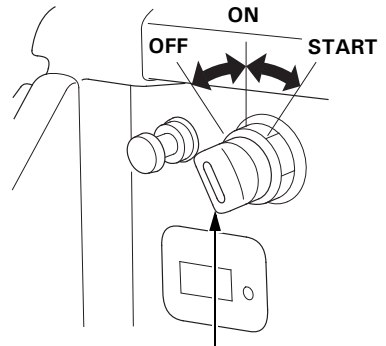
Engine Switch

The engine switch controls the ignition system, and it operates the electric starter.

OFF – Stops the engine. The engine switch key can be removed/inserted.

ON – Running position.

START – Operates the electric starter.



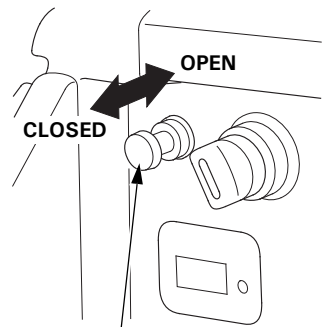
ENGINE SWITCH

Choke Knob

The choke knob opens and closes the choke valve in the carburetor.

The CLOSED position enriches the fuel mixture for starting a cold engine.

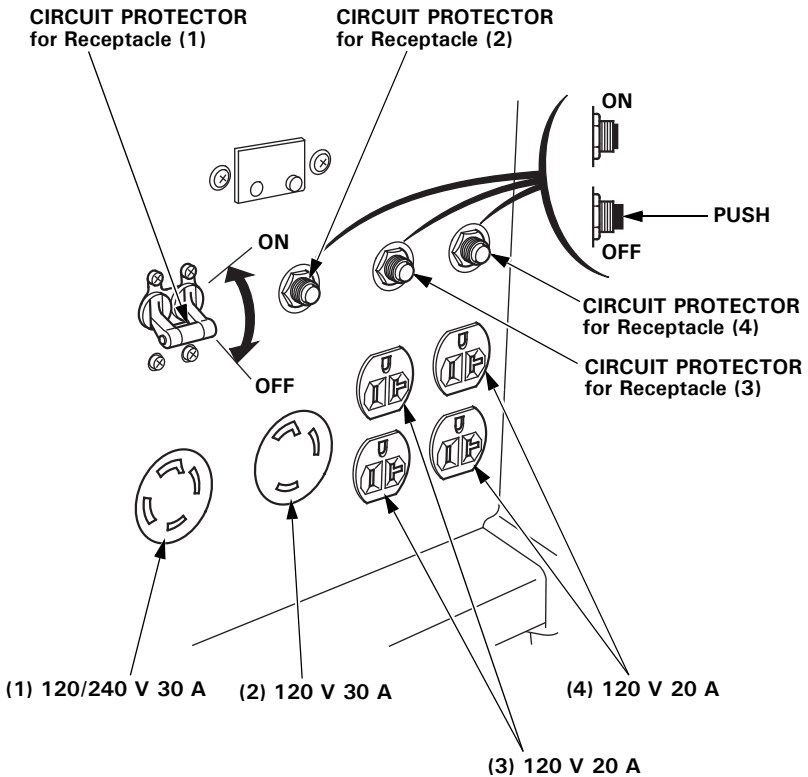
The OPEN position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.



CHOKE KNOB

AC Circuit Protectors

The AC circuit protectors will automatically switch to OFF if there is a short circuit or a significant overload of the generator at each receptacle. If an AC circuit protector switches OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the circuit before resetting the AC circuit protector ON.

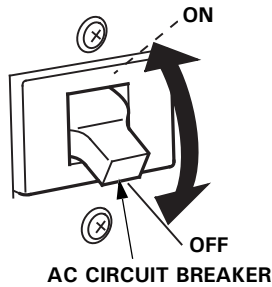


CONTROLS & FEATURES

AC Circuit Breaker

The AC circuit breaker will automatically switch OFF if there is a short circuit or a significant overload at the receptacles, or if the ground fault circuit interrupter (GFCI) detects a ground fault current.

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



CONTROLS & FEATURES

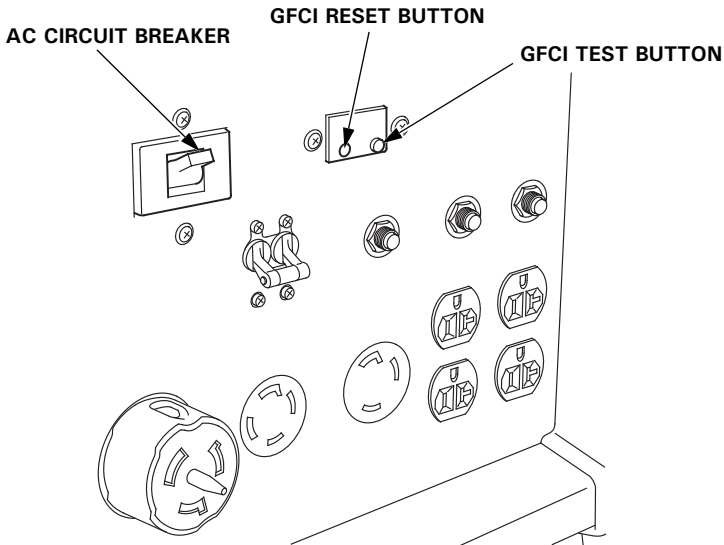
Ground Fault Circuit Interrupter (GFCI)

All receptacles on the generator are protected by a Ground Fault Circuit Interrupter (GFCI) for protection against the shock hazard of ground fault current. The GFCI has a TEST and RESET button and is connected to the AC circuit breaker.

An example of ground-fault current is the current that would flow through a person who is using an appliance with faulty insulation and, at the same time, is in contact with an electrical ground such as a plumbing fixture, wet floor, or earth. The GFCI will protect against current flowing through that person.

The GFCI will not protect against short circuits or overloads. The AC circuit breaker and AC circuit protector provide that protection (see pages 13 and 14).

GFCIs can be expected to interrupt power supply if there are ground faults or stray current imposed on the wiring by other electrical devices, wiring, or equipment. As a result there is a risk of interruption if used with critical systems such as life support equipment, so users should first carefully consider whether it is appropriate to use this portable generator to power such equipment.



CONTROLS & FEATURES

Auto Throttle® System

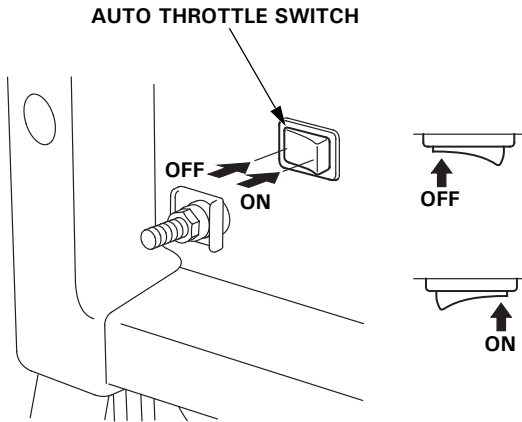
The Auto Throttle® system automatically reduces engine speed when all loads are turned off or disconnected. When appliances are turned on or reconnected, the engine returns to the rated speed.

Switch Position

ON: Recommended to minimize fuel consumption and further reduce noise levels when no load is applied to the generator.

OFF: The Auto Throttle system does not operate.

Recommended to minimize warm-up time when the generator is started and when starting a load with large start-up power equipments.



CONTROLS & FEATURES

Folding Handle

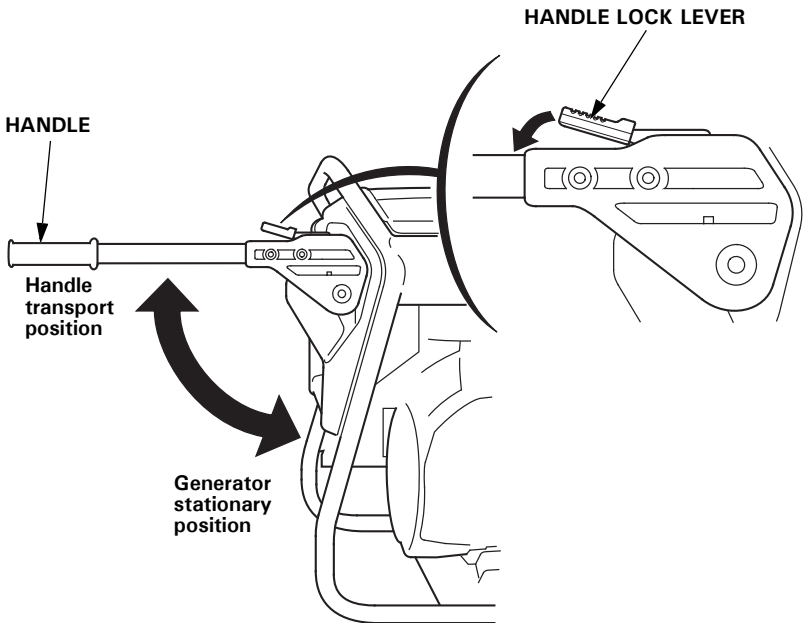
The foldable handle is intended for ease of transportation and should be folded when the generator is stationary. Do not rest objects on the extended handle.

To Extend The Handle

Lift handle upward. Lock levers will lock and secure the handle into place.

To Fold The Handle

1. Press both handle lock levers downward.
2. Lower the handle.



CONTROLS & FEATURES

FEATURES

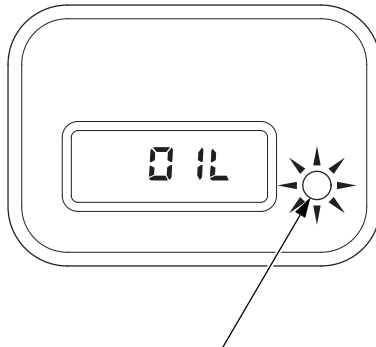
Oil Alert® System

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 indicator will come on and the Oil Alert system automatically will stop the engine (the engine switch will remain in the ON position).

The i-Monitor display will show "OIL" on the screen and the Oil Alert indicator will illuminate.

If the engine stops or the Oil Alert indicator comes on when you turn the engine switch to the START position, check the engine oil level (see page 44) before troubleshooting in other areas.

Even when oil is added to the engine, the generator will not restart until the Oil Alert indicator is reset. To reset the Oil Alert indicator, turn the engine switch to the OFF position, add the proper amount of oil (see page 45), and then turn the engine switch back to the ON position.



OIL ALERT INDICATOR (RED)

i-Monitor

The i-Monitor is a user interface that allows the operator to view (when the generator is running) total operating time in hours, generator output voltage, battery voltage, and error messages.

i-Monitor at Start Up

When the engine switch is turned to the ON position, all segments of the i-Monitor display turn on for a second.



After showing all segments, the i-Monitor shows current accumulated hours and the battery voltage alternately for three seconds.



When the engine is started and the generator works, the i-Monitor shows output voltage.



Backlight blinks

If you turn the engine switch to the ON position but then don't start the engine within 1 minute, the display starts to blink.

Start the engine or turn the engine switch to the OFF position.

The display also blinks when the engine stops due to an error. In such a case, the display starts to blink as soon as the engine stops.

CONTROLS & FEATURES

i-Monitor Display

The four-digit screen displays the total operating hours, battery voltage, and power output voltage or any activated error messages.



↑
FOUR-DIGIT SCREEN DISPLAY

Total Operating Hours

This mode displays the total operating hours of the generator. When the generator is running, the total operating time accumulates. The total operating hours can show from 0 up to 9,999 hours. When it reaches 10,000 hours, the display returns to "0". When the total operating hours reach 29,999 hours, the i-monitor will continuously show 9,999 hours. Base the generator's maintenance schedule on the accumulated time displayed.



CONTROLS & FEATURES

Power Output Voltage

This mode displays an approximate single-phase output voltage.



Battery Voltage

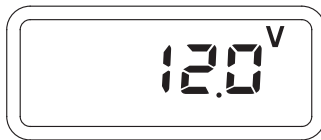
This mode displays the battery condition, expressed in Volts DC.

The battery voltage can be displayed from 8 V up to 16 V.

When the battery voltage is less than 8 V, the i-Monitor shows 8 V.

When above 16 V, 16 V is shown.

In this generator, the engine will not start if the battery is removed. Also, if the battery is disconnected when the generator is operating, the engine will stop.



CONTROLS & FEATURES

i-Monitor System Error Messages

If the generator has a system malfunction, it will show an error message on the i-Monitor display. If an error message displays, contact an authorized Honda generator dealer.

When there are a number of errors, they are indicated alternately for two seconds for each.

Error code	Type of error	Consequence · treatment
E-04	Engine over rev	Engine stops
E-31	High AC voltage	Engine stops
E-32	ROM/RAM failure	Engine stops
E-33	FET overheat	Generator stops
-----	Communication error	Contact an authorized Honda generator dealer.
----h	Failed to read out accumulated hours	Contact an authorized Honda generator dealer.

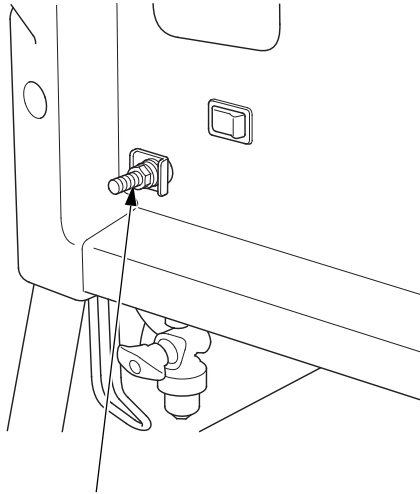


ERROR MESSAGE
(Example: E-04)

Ground Terminal

The 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.

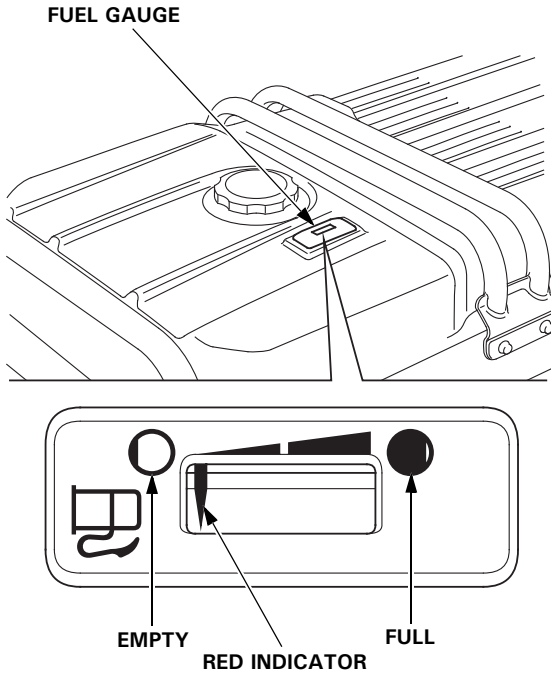


GROUND TERMINAL

CONTROLS & FEATURES

Fuel Gauge

The fuel gauge is a mechanical device that measures the fuel level in the tank. The red indicator in the window will reference the level in relation to full or empty. To provide increased operating time, start with a full tank before beginning operation. Check the fuel level with the generator on a level surface. Always refuel with the engine OFF and cool.



BEFORE OPERATION

ARE YOU READY TO GET STARTED?

Your safety is your responsibility. A little time spent in preparation will significantly reduce your risk of injury.

Knowledge

Read and understand this manual. Know what the controls do and how to operate them.

Familiarize yourself with the generator and its operation before you begin using it. Know how to quickly shut off the generator in case of an emergency.

If the generator is being used to power appliances, be sure that they do not exceed the generator's load rating (see page 35).

IS YOUR GENERATOR READY TO GO?

For your safety, to ensure compliance with environmental regulations, and to maximize the service life of your equipment, it is very important to take a few moments before you operate the generator to check its condition. Be sure to take care of any problem you find, or have your servicing dealer correct it, before you operate the generator.

WARNING

Improperly maintaining this generator, or failing to correct a problem before operation, could cause a malfunction in which you could be seriously injured.

Always perform a pre-operation inspection before each operation, and correct any problem.

To prevent a possible fire, keep the generator at least 3 feet (1 meter) away from building walls and other equipment during operation. Do not place flammable objects close to the engine.

Before beginning your pre-operation checks, be sure the generator is on a level surface and the engine switch is in the OFF position.

BEFORE OPERATION

Check the Engine

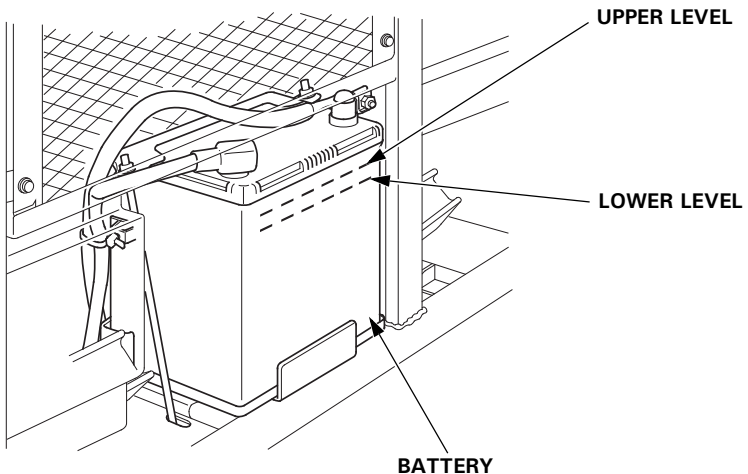
- Before each use, look around and underneath the engine for signs of oil or gasoline leaks.
- Check the oil level (see page 44). A low oil level will cause the Oil Alert system to shut down the engine.
- Check the air cleaner (see page 47). A dirty air cleaner element will restrict air flow to the carburetor, reducing engine and generator performance.
- Check the fuel level (see page 42). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.

Check the GFCI

Check the GFCI operation (see page 32) after starting the engine.

Check the Battery

Check the electrolyte level (see page 57). If the electrolyte level is below the LOWER level, sulfation and battery plate damage will occur.



OPERATION

SAFE OPERATING PRECAUTIONS

Before operating the generator for the first time, review chapters *GENERATOR SAFETY* (see page 6) and *BEFORE OPERATION* (see page 25).

For your safety, do not operate the generator in an enclosed area such as a garage. Your generator's exhaust contains poisonous carbon monoxide gas that can collect rapidly in an enclosed area and cause illness or death.

⚠ WARNING

Exhaust contains poisonous carbon monoxide gas that can build up to dangerous levels in closed areas. Breathing carbon monoxide can cause unconsciousness or death.

Never run the generator in a closed, or even partly closed area where people may be present.

Before connecting an AC appliance or power cord to the generator:

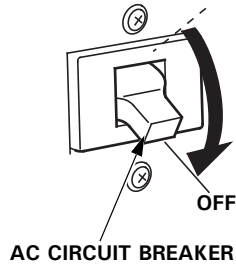
- Use grounded 3-prong extension cords, tools, and appliances, or double-insulated tools and appliances.
- Inspect cords and plugs, and replace if damaged.
- Do not use cord lengths greater than 164 feet (50 meters), and do not use multiple tools and appliances with built-in noise filters. Such use may activate the GFCI and trip the circuit breaker.
- Make sure that the appliance is in good working order. Faulty appliances or power cords can create a potential for electric shock.
- Make sure the electrical rating of the tool or appliance does not exceed the rated power of the generator or the receptacle being used.
- Operate the generator at least 3 feet (1 meter) away from buildings and other equipment.
- Do not operate the generator in an enclosed structure.
- Do not place flammable objects close to the engine.

OPERATION

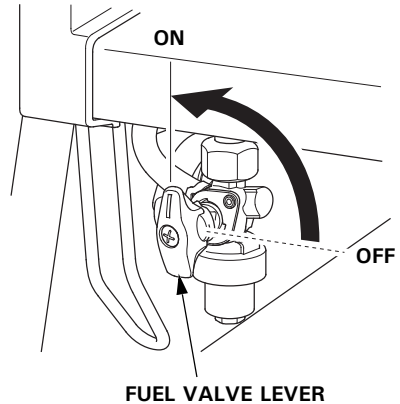
STARTING THE ENGINE

Refer to *SAFE OPERATING PRECAUTIONS* on page 27.

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.

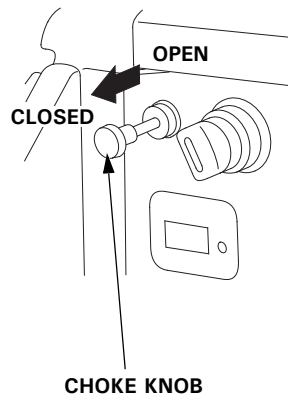


2. Turn the fuel valve lever to the ON position.

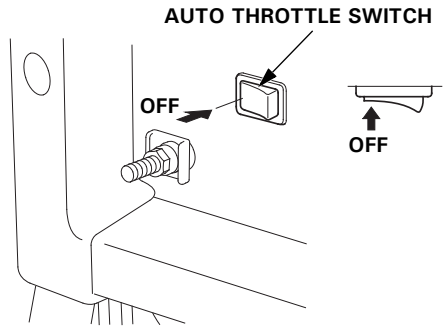


3. Pull the choke knob to the CLOSED position to start a cold engine.

Leave the choke knob in the OPEN position to start a warm engine.



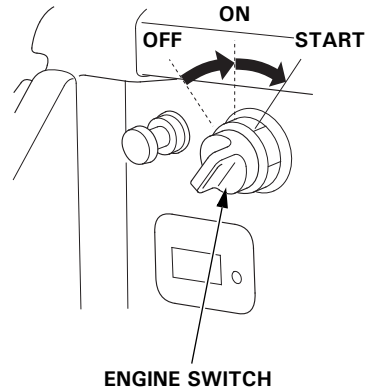
4. Make sure the Auto Throttle switch is in the OFF position, or more time will be required for warm up.



5. Start the engine.

Turn the engine switch to the START position, and hold it there until the engine starts. When the engine starts, release the key, allowing the switch to return to the ON position.

If the engine fails to start within 5 seconds, release the key, and wait at least 10 seconds before operating the starter again.



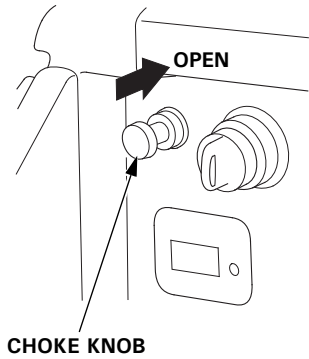
NOTICE

Using the electric starter for more than 5 seconds at a time will overheat the starter motor and can damage it.

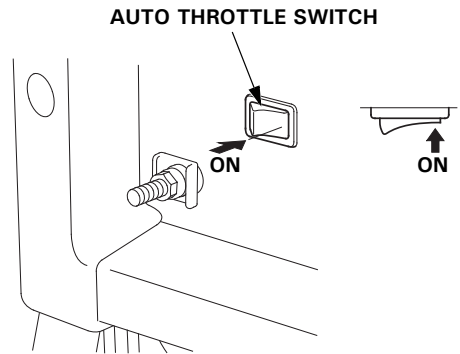
Do not leave the engine switch in the ON position when the generator is not operating as the battery will be drained. Turn the engine switch to the OFF position when not in use.

OPERATION

6. If the choke knob was pulled to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.



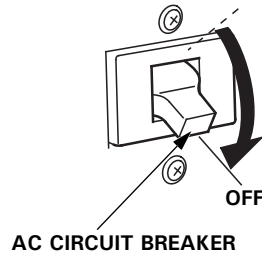
7. If you wish to use the Auto Throttle system, turn the Auto Throttle switch to the ON position after the engine has warmed up for 2 or 3 minutes.



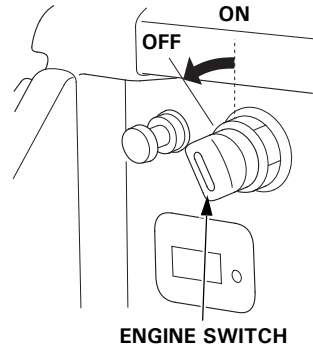
STOPPING THE ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure.

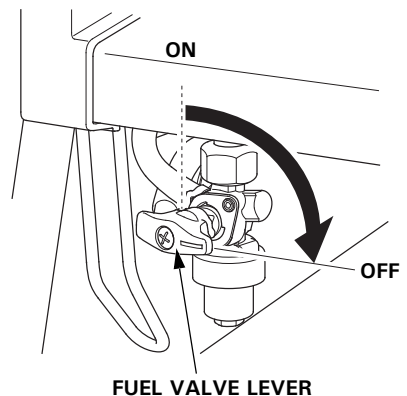
1. Turn off or disconnect all appliances that are connected to the generator.
2. Switch the AC circuit breaker to the OFF position.



3. Turn the engine switch to the OFF position.



4. Turn the fuel valve lever to the OFF position.



OPERATION

GFCI OPERATION CHECK

Always check GFCI operation before using the generator.

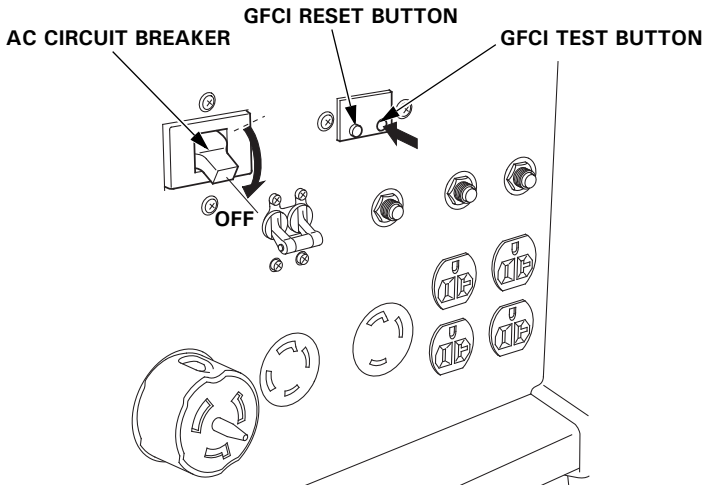
⚠ WARNING

A faulty GFCI can cause electric shock which can seriously injury or kill you.

Always perform the GFCI inspection before using the generator. If the GFCI fails the test, the generator must be repaired by an authorized Honda servicing dealer before use.

1. Unplug all tools and appliances from the generator.
2. Start the engine (see page 28).
3. Turn the AC circuit breaker to the ON position.
4. Turn OFF the Auto Throttle switch (see page 29).
5. Press the GFCI TEST button. The RESET button should extend, and the AC circuit breaker should switch to the OFF position.

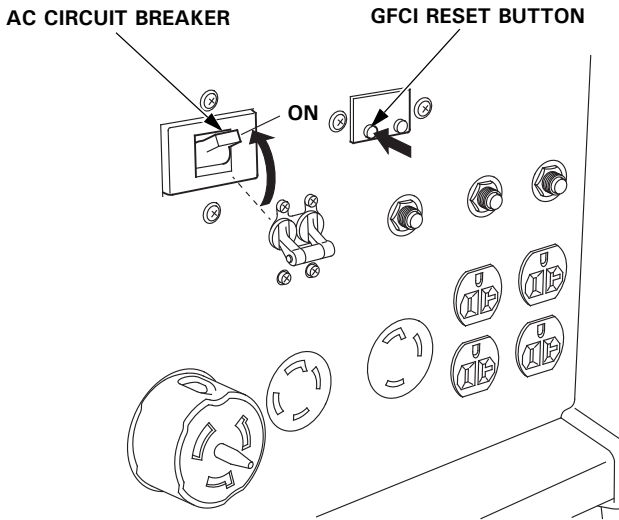
If the GFCI and AC circuit breaker do not function as described, take the generator to an authorized Honda generator dealer for repair.



6. Press the GFCI RESET button. The RESET button should stay in, flush with its base plate.

With the RESET button in and the engine running, turn the AC circuit breaker to the ON position. The AC circuit breaker should remain in the ON position. The AC circuit breaker will not remain in the ON position if the RESET button is extended.

If the GFCI and AC circuit breaker do not function as described, take the generator to an authorized Honda generator dealer for repair.



During generator use, if the GFCI RESET button extends and the AC circuit breaker trips, this usually indicates a faulty power tool, appliance, or cord.

If that occurs, perform test steps 1 through 6 to verify that the GFCI and AC circuit breaker are in proper working order. If the GFCI and AC circuit breaker do test correctly, then the fault is likely to be in the power tool, appliance, or cord. Repair or replace the faulty power tool, appliance, or cord before further use.

OPERATION

AC OPERATION

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 in the appliance or the rated load capacity of the generator has been exceeded.

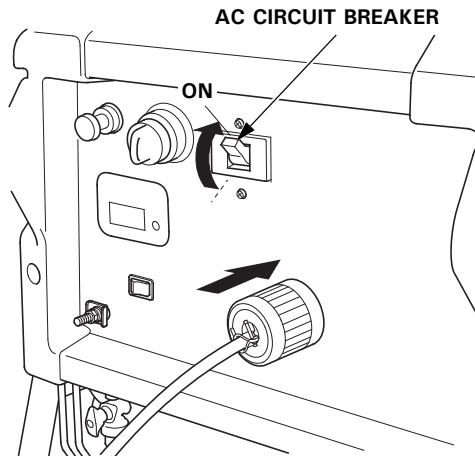
NOTICE

Substantial overloading may damage the generator. Marginal overloading may shorten the service life of the generator.

1. Start the engine (see page 28).
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 AC circuit protector to switch OFF, reduce the electrical load on the circuit, wait a few minutes and then reset the AC circuit breaker or AC circuit protector.



Before connecting an appliance to the generator, make sure that it is in good order and that its electrical rating does not exceed that of the generator. Then start the generator and connect the appliance power cord.

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 the rated load capacity of the generator has been exceeded.

Most appliance motors require more than their rated wattage for startup.

Make sure the electrical rating of the tool or appliance does not exceed the maximum power rating of the generator.

Maximum power is:

10.0 kVA

For continuous operation, do not exceed the rated power.

Rated power is:

9.0 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.

NOTICE

Substantial overloading will open the circuit breaker. Slightly overloading the generator may not switch the circuit breaker OFF, but will shorten the service life of the generator.

OPERATION

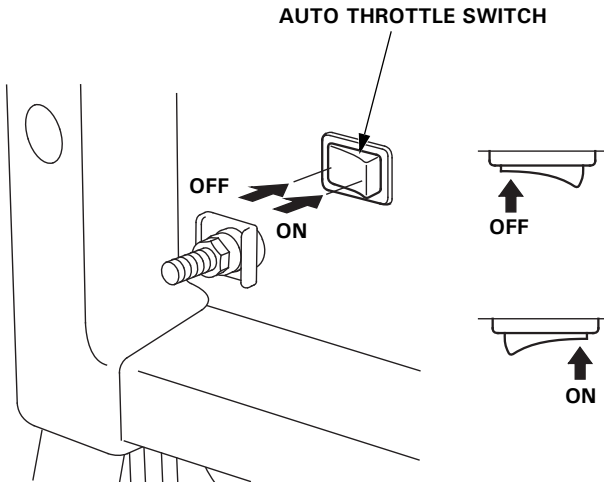
AUTO THROTTLE® SYSTEM

With the switch in the ON position, engine speed is automatically reduced when ALL loads are turned OFF or disconnected. When appliances are turned ON or reconnected, the engine returns to rated speed. In the OFF position, the Auto Throttle® system does not operate. The Auto Throttle system will not respond to electrical loads of less than 1 ampere or intermittent loads such as a staple gun. Turn the Auto Throttle switch to the OFF position to operate loads of less than 1 amp.

Appliances with large start-up power demands may not allow the engine to reach normal operating rpm when they are connected to the generator. Push the Auto Throttle switch to the OFF position and connect the appliance to the generator. If the engine still will not reach normal operating speed, check that the appliance does not exceed the rated load capacity of the generator.

To avoid extended warm-up periods, keep the Auto Throttle switch OFF until the engine reaches operating temperature.

The Auto Throttle system is not effective for use with appliances that require only momentary power. If the tool or appliance will be turned ON and OFF quickly, the Auto Throttle switch should be in the OFF position.



STANDBY POWER

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 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, and the generator may explode, burn, or cause fires when utility power is restored.

Consult the utility company or a qualified electrician prior to making any power connections.

In some areas, generators are required by law to be registered with local utility companies. Check local regulations for proper registration and use procedures.

System Ground

This generator has a system ground that connects generator frame components to ground terminals in the AC output receptacles. The system ground is connected to the AC neutral wire.

OPERATION

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 that must be observed.

SERVICING YOUR GENERATOR

THE IMPORTANCE OF MAINTENANCE

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

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 unusual conditions, such as sustained high-load or high-temperature operation, or use it in dusty conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

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.

Remember that an authorized Honda 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, Honda Genuine parts or their equivalents for repair and replacement.

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.

SERVICING YOUR GENERATOR

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.

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 non-flammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related parts.

SERVICING YOUR GENERATOR

MAINTENANCE SCHEDULE

REGULAR SERVICE PERIOD (3)		Each use	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.	Page
ITEM	Perform at every indicated month or operating hour interval, whichever comes first.						
Engine oil	Check level	o					44
	Change		o		o		45
Engine oil filter	Replace		Every 200 Hrs. (2)				—
Air cleaner	Check	o					47
	Clean			o (1)			48, 49
	Replace					o (*)	48
Battery electrolyte	Check level	o					57
GFCI operation	Check	o					32
Canister	Check		Every 2 years (2)				—
Purge tube	Check		Every 2 years (2)				—
Charge tube	Check		Every 2 years (2)				—
Sediment cup	Clean				o		50
Spark plug	Check-adjust				o		52
	Replace					o	52
Spark arrester	Clean				o		54
Valve clearance	Check-adjust					o (2)	—
Combustion chamber	Clean		After every 1,000 Hrs. (2)				—
Fuel tank and filter	Clean				o (2)		—
Fuel tube	Check		Every 2 years (Replace if necessary) (2)				—

(*)Replace paper element type only.

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

(2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.

See "Honda Publications" on page 78 for ordering information.

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

Failure to follow this maintenance schedule could result in non-warrantable failures.

SERVICING YOUR GENERATOR

REFUELING

With the engine stopped, check the fuel level gauge. Refill the fuel tank if the fuel level is low.

⚠ WARNING

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

NOTICE

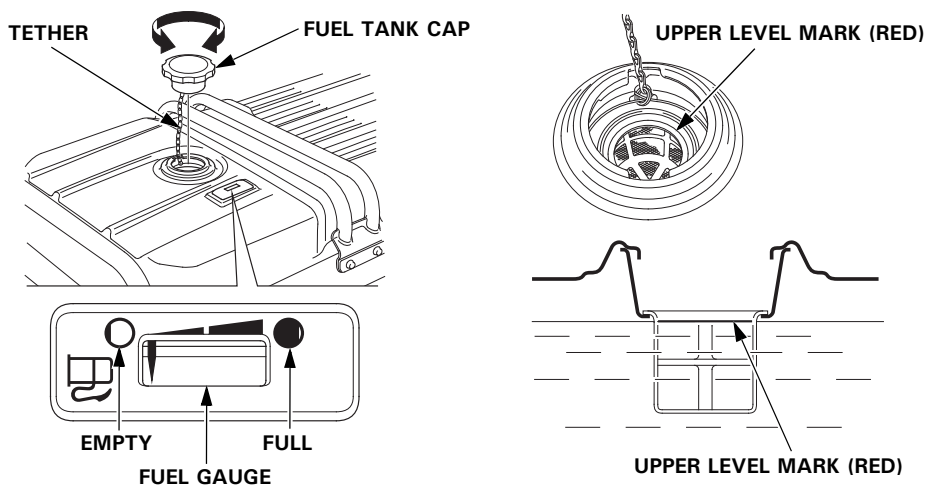
Fuel can damage paint and plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under warranty.

Refuel in a well-ventilated area before starting the engine. If the engine has been running, allow it to cool. Refuel carefully to avoid spilling fuel. Do not fill the fuel tank above the upper level mark.

Never refuel the engine inside a building where gasoline fumes may reach flames or sparks. Keep gasoline away from appliance pilot lights, barbecues, electric appliances, power tools, etc.

Spilled fuel is not only a fire hazard, it causes environmental damage. Wipe up spills immediately.

SERVICING YOUR GENERATOR



After refueling, reinstall the fuel tank cap securely.

FUEL RECOMMENDATIONS

This engine is certified to operate on regular unleaded gasoline with a pump octane rating of 86 or higher.

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

You may use regular unleaded gasoline containing no more than 10% ethanol (E10) or 5% methanol by volume. In addition, methanol must contain cosolvents and corrosion inhibitors.

Use of fuels with content of ethanol or methanol greater than shown above may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of the fuel system.

Engine damage or performance problems that result from using a fuel with percentages of ethanol or methanol greater than shown above are not covered under warranty.

If your equipment will be used on an infrequent or intermittent basis, please refer to the fuel section of the *STORAGE* chapter (see page 61) for additional information regarding fuel deterioration.

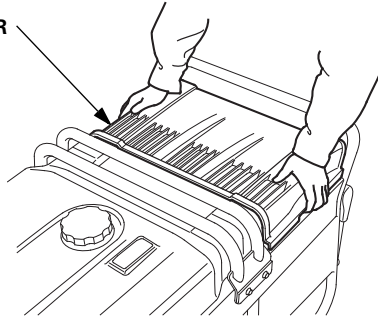
SERVICING YOUR GENERATOR

ENGINE OIL LEVEL CHECK

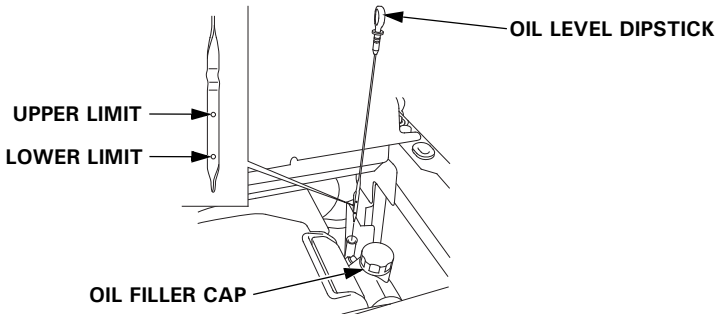
Check the engine oil level with the generator on a level surface and the engine stopped.

1. Open the maintenance cover to access the oil level dipstick.
2. Remove the oil level dipstick and wipe it clean.
3. Fully insert the dipstick, then remove it to check the oil level.
4. If the level is near or below the lower limit mark on the dipstick, remove the oil filler cap, and fill with the recommended oil to the upper limit mark on the oil level dipstick (see page 45).

MAINTENANCE COVER



5. Reinstall the oil level dipstick and filler cap.
6. Close the maintenance cover.



The Oil Alert system will automatically stop the engine before the oil level falls below safe limits. However, to avoid the inconvenience of an unexpected shutdown, check the oil level regularly.

SERVICING YOUR GENERATOR

ENGINE OIL CHANGE

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

1. Place a suitable container below the engine to catch the used oil.
2. Open the maintenance cover to access the oil filler cap.
3. Remove the oil filler cap, oil drain bolt and sealing washer, and drain the oil into the container.

NOTICE

Improper disposal of engine oil can be harmful to the environment. If you change your own oil, please dispose of the used oil properly. Put it in a sealed container, and take it to a recycling center. Do not discard it in a trash bin, dump it on the ground, or pour it down the drain.

4. Install a new sealing washer and the oil drain bolt, and tighten the bolt securely.
5. If it is difficult to fill the engine with oil, set the funnel contained in the generator package to the oil filler port, and pour oil. Refill to the upper limit mark on the dipstick with the recommended oil (see page 46).

Maximum oil capacity:

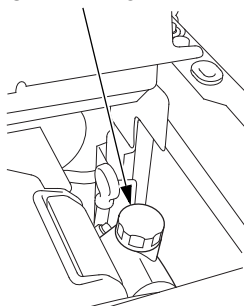
Without oil filter replacement: approximately 1.6 US qt (1.5 L)

With oil filter replacement: approximately 1.8 US qt (1.7 L)

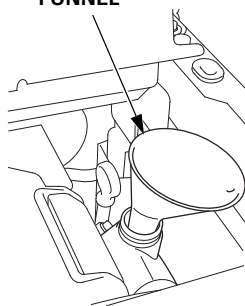
6. Tighten the oil filler cap securely. Close the maintenance cover.

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

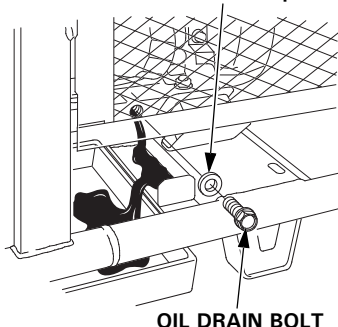
OIL FILLER CAP



FUNNEL



SEALING WASHER (Replace)

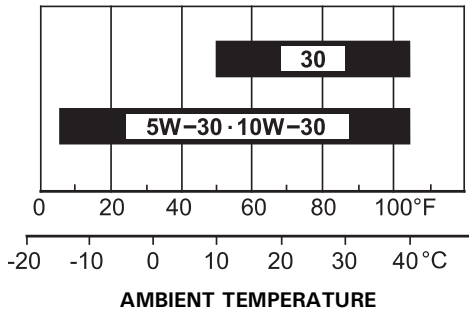


SERVICING YOUR GENERATOR

ENGINE OIL RECOMMENDATIONS

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil.

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



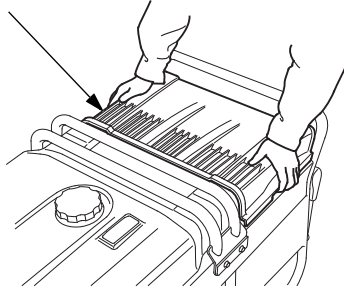
The SAE oil viscosity and service classification are in the API label on the oil container. Honda recommends that you use API Service category SJ or later (or equivalent) oil.

SERVICING YOUR GENERATOR

AIR CLEANER SERVICE

1. Open the maintenance cover to access the air cleaner.

MAINTENANCE COVER

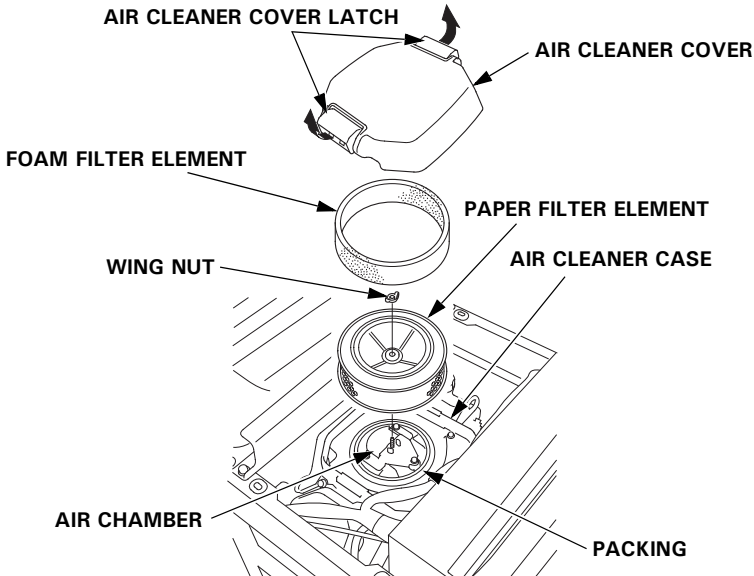


2. Pull the air cleaner cover latch to the unlocked position, and remove the cover.

Remove the wing nut from the paper filter element.

Remove the paper filter element and foam filter element from the air cleaner case.

Remove the foam filter element from the paper filter element.

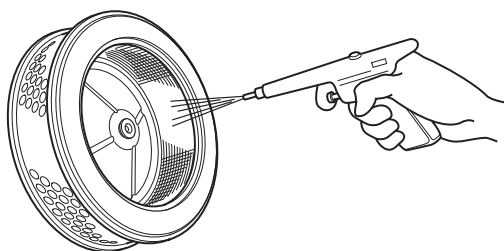


3. Inspect both filter elements, and replace them if they are damaged. Always replace the paper filter element at the scheduled interval (see page 41).

SERVICING YOUR GENERATOR

4. Clean the filter elements if they are to be reused.

Paper filter element: Tap the filter element several times on a hard surface to remove dirt, or blow compressed air [not exceeding 30 psi (207 kPa, 2.1 kgf/cm²)] through the filter element from the air cleaner case side.



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

Foam filter element: If the foam filter is dirty, clean it as described on page 49. Replace the foam filter if it is damaged.

5. Wipe dirt from the inside of the air cleaner body and cover, using a moist rag. Be careful to prevent dirt from entering the air chamber that leads to the carburetor.
6. Place the foam filter element over the paper filter element, and reinstall the assembled filter element. Be sure the packing is in place beneath the filter element. Tighten the wing nut securely.
7. Lock the air cleaner cover latch securely.
8. Close the maintenance cover.

NOTICE

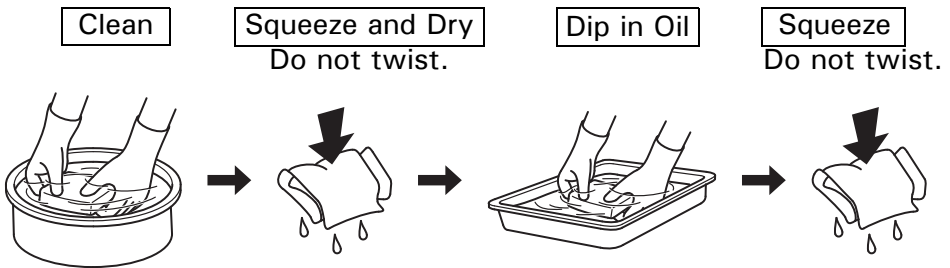
Operating the engine without an air filter or with a damaged air filter will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered by the Distributor's Limited Warranty.

SERVICING YOUR GENERATOR

FOAM AIR FILTER CLEANING

A dirty foam air filter will restrict air flow to the carburetor, reducing engine performance. If you operate the generator in very dusty areas, clean the foam air filter more frequently than specified in the Maintenance Schedule.

1. Wash the foam air filter in a solution of household detergent and warm water, then rinse thoroughly, or wash in non-flammable or high flash point solvent. Allow the foam air filter to dry thoroughly.
2. Soak the foam air filter in clean engine oil and squeeze out the excess oil. The engine will smoke during initial startup if too much oil is left in the foam air filter.



3. Wipe dirt from the air cleaner housing and cover using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.

SERVICING YOUR GENERATOR

SEDIMENT CUP CLEANING

The sediment cup prevents water that 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 engine switch to the OFF position.
2. Turn the fuel valve lever to the OFF position.
3. Unscrew the sediment cup.

⚠ WARNING

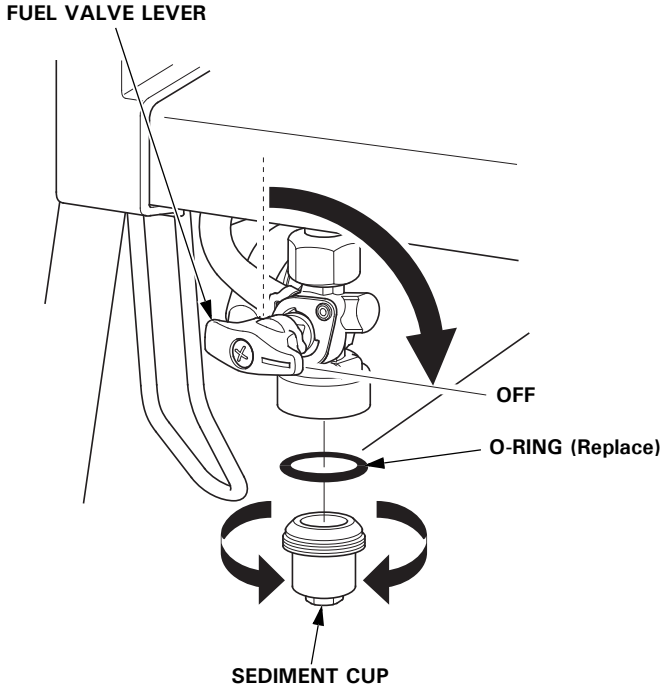
Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

SERVICING YOUR GENERATOR

4. Clean the sediment cup in non-flammable or high flash point solvent.
5. Install the sediment cup and a new O-ring.
6. Turn the fuel valve to the ON position and check for leaks.



SERVICING YOUR GENERATOR

SPARK PLUG SERVICE

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

Recommended spark plugs: ZFR5F (NGK)

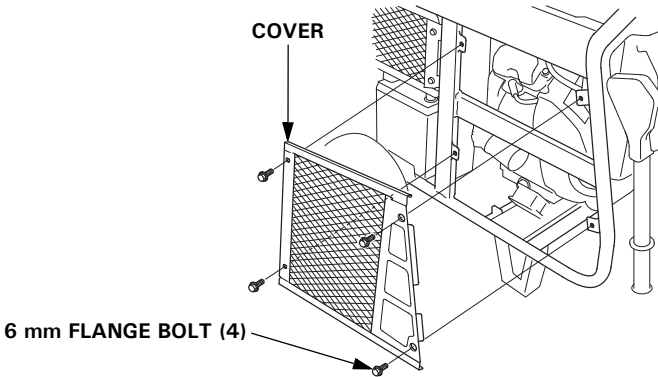
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

NOTICE

An incorrect spark plug can cause engine damage.

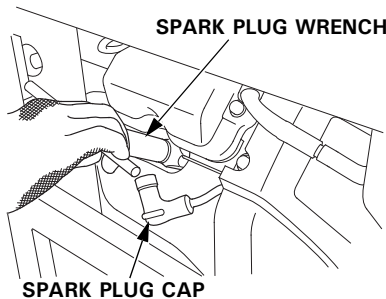
If the engine is hot, allow it to cool before servicing the spark plugs.

1. Remove the four 6 mm flange bolts, and remove the cover.



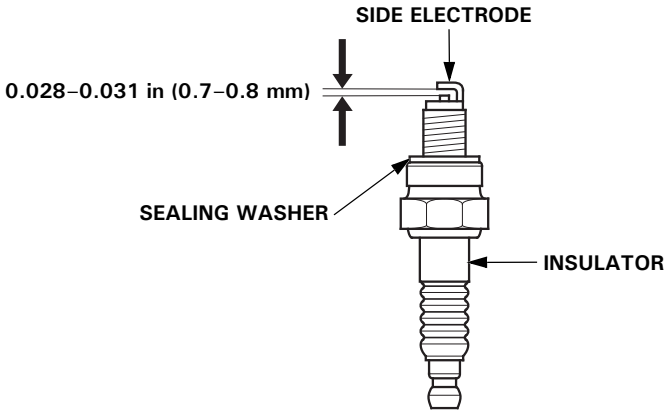
2. Disconnect the spark plug caps, and remove any dirt from around the spark plugs area.

3. Remove the spark plugs with a spark plug wrench.



SERVICING YOUR GENERATOR

4. Inspect the spark plugs. Replace them if the electrode is worn or if the insulator is cracked, chipped, or fouled.
5. Measure the spark plug electrode gap with a wire-type feeler gauge. Correct the gap, if necessary, by carefully bending the side electrode. The gap should be:
0.028–0.031 in (0.7–0.8 mm)



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

A loose spark plug can overheat and damage the engine. Overtightening the spark plug can damage the threads in the cylinder head.

8. Reinstall the spark plug caps securely.
9. Install the cover in the reverse order of removal.

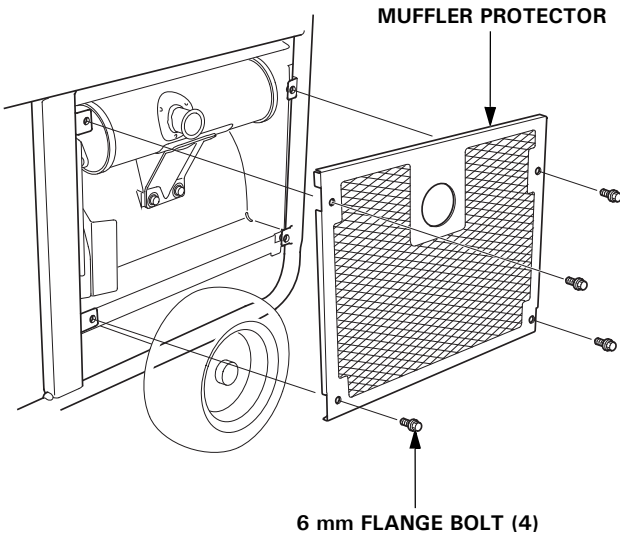
SERVICING YOUR GENERATOR

SPARK ARRESTER SERVICE

The spark arrester must be serviced every 100 hours to keep it functioning as designed.

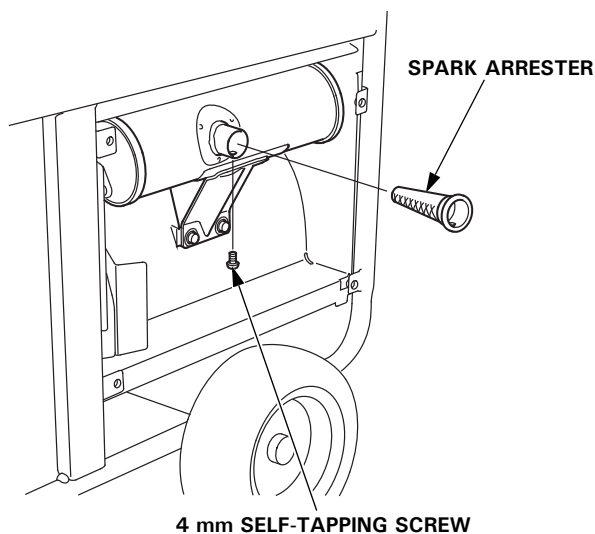
If the engine has been running, the muffler will be very hot. Allow the muffler to cool before servicing the spark arrester.

1. Remove the four 6 mm flange bolts, and remove the muffler protector.

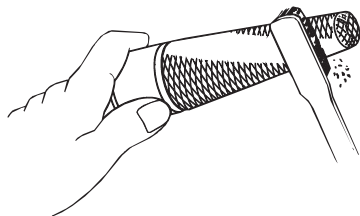


SERVICING YOUR GENERATOR

2. Remove the 4 mm self-tapping screw, and remove the spark arrester.



3. Use a brush to remove carbon deposits from the spark arrester screen.
Be careful to avoid damaging the screen.
The spark arrester must be free of breaks and tears. Replace the spark arrester if it is damaged.



4. Install the spark arrester in the reverse order of removal.
TORQUE: 1.6 lbf·ft (2.2 N·m, 0.22 kgf·m)
5. Install the muffler protector in the reverse order of removal.

SERVICING YOUR GENERATOR

BATTERY SERVICE

Your generator's engine charging system charges the battery while the engine is running. However, if the generator is only used periodically, the battery must be charged monthly to maintain the battery service life.

WARNING

The battery contains sulfuric acid (electrolyte), which is highly corrosive and poisonous. Getting electrolyte in your eyes or on your skin can cause serious burns.

Wear protective clothing and eye protection when working near the battery.

KEEP CHILDREN AWAY FROM THE BATTERY.

Emergency Procedures

Eyes – Flush with water from a cup or other container for at least fifteen minutes. (Water under pressure can damage the eye.) Call a physician immediately.

Skin – Remove contaminated clothing. Flush the skin with large quantities of water. Call a physician immediately.

Swallowing – Drink water or milk. Call a physician immediately.

SERVICING YOUR GENERATOR

Battery Inspection

The electrolyte level must be kept between the UPPER and LOWER level marks. If the electrolyte level is below the LOWER level, sulfation and battery plate damage will occur.

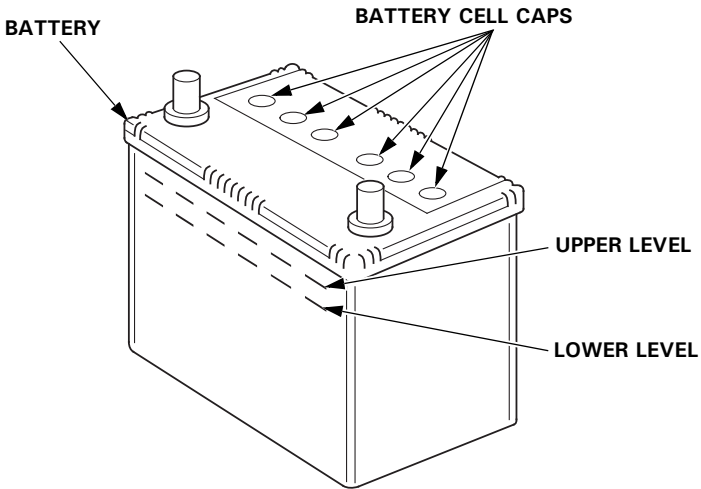
If rapid loss of electrolyte is experienced, or if your battery seems to be weak causing slow operation of the starter motor, see your authorized Honda generator dealer.

1. Locate the battery. Check the electrolyte level with the generator on a level surface. Remove the battery cell caps.

2. Inspect the electrolyte level of each cell.

The electrolyte level must be kept between the UPPER and LOWER level marks, and electrolyte liquid should cover all the plates.

3. If any plates are not covered, remove the battery and add distilled water as necessary.

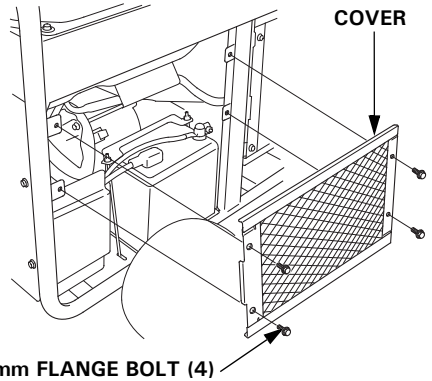


SERVICING YOUR GENERATOR

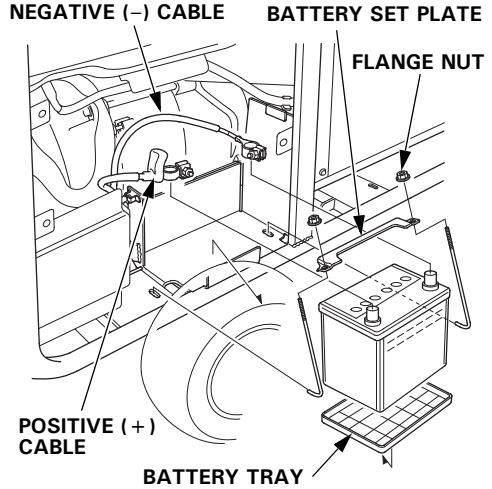
Battery Removal

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds. **Wash hands after handling.**

1. Remove the four 6 mm flange bolts, and remove the cover.



2. Remove the negative (-) cable from the battery negative (-) terminal first, and then remove the positive (+) cable from the battery positive (+) terminal.



3. Remove the flange nuts, and remove the battery set plate.
4. Remove the battery from the battery tray.



This symbol on the battery means that this product must not be treated as household waste.

NOTICE

An improperly disposed of battery can be harmful to the environment and human health.

Always confirm local regulations for battery disposal.

Battery Charging

⚠ WARNING

The battery gives off explosive hydrogen gas during normal operation.

A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

Wear protective clothing and a face shield, or have a skilled mechanic perform the battery maintenance.

The battery is rated at 28.0 Ah (ampere hours). Charging current should equal 10% of the battery's ampere hour rating.

1. Connect the battery charger following the manufacturer's instructions.
2. Charge the battery.
3. Clean the outside of the battery and the battery compartment with a solution of baking soda and water.

Battery Installation

1. Install the battery into the generator.
2. Install the battery set plate and tighten the flange nuts.
3. Connect the battery positive (+) cable to the battery positive (+) terminal first, and tighten the bolt securely.
4. Slide the battery boot over the positive (+) cable and terminal.
5. Connect the battery negative (-) cable to the battery negative (-) terminal, and tighten the bolt securely.
6. Install the cover in the reverse order of removal.

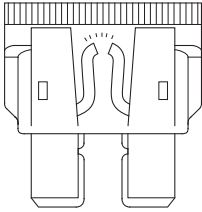
SERVICING YOUR GENERATOR

FUSE

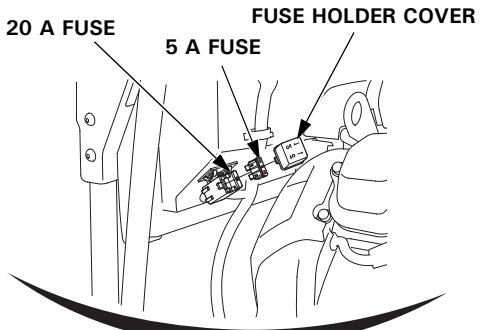
If the fuse is blown, the starter motor won't operate.

In the event of fuse failure, locate the cause of failure and repair it before you continue operation. If the fuse continues to fail, discontinue generator use and consult an authorized Honda generator dealer.

1. Turn the engine switch to the OFF position and remove the key before checking or replacing the fuse.



BLOWN FUSE

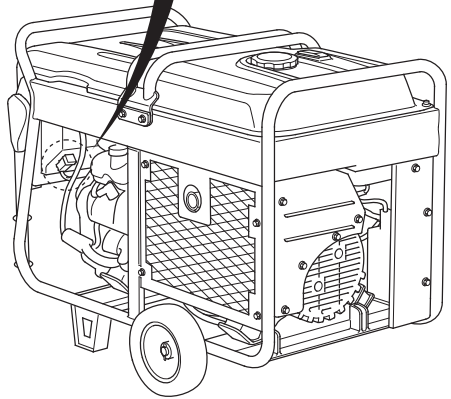


2. Remove the fuse holder cover and pull the fuse out.

3. Replace the fuse with a fuse of the same type and rating.
Specified fuse: 5 A, 20 A

NOTICE

Never use a fuse with a different rating from that specified. Serious damage to the electrical system or fire may result.



4. Install the fuse holder cover in the reverse order of removal.

STORAGE

STORAGE PREPARATION

Proper storage preparation is essential for keeping your generator trouble-free and looking good. The following steps will help to keep rust and corrosion from impairing your generator's function and appearance, and will make the engine easier to start when you use the generator again.

Cleaning

Wipe the generator with a moist cloth. After the generator has dried, touch up any damaged paint, and coat other areas that may rust with a light film of oil.

Fuel

NOTICE

Depending on the region where you operate your equipment, fuel formulations may deteriorate and oxidize rapidly. Fuel deterioration and oxidation can occur in as little as 30 days and may cause damage to the carburetor and/or fuel system. Please check with your servicing dealer for local storage recommendations.

Gasoline will oxidize and deteriorate in storage. Old gasoline will cause hard starting, and it leaves gum deposits that clog the fuel system. If the gasoline in your generator deteriorates during storage, you may need to have the carburetor and other fuel system components serviced or replaced.

The length of time that gasoline can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as gasoline blend, your storage temperatures, and whether the fuel tank is partially or completely filled. The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage temperatures accelerate fuel deterioration. Fuel deterioration problems may occur within a few months, or even less if the gasoline was not fresh when you filled the fuel tank.

The *Distributor's Limited Warranty* does not cover fuel system damage or engine performance problems resulting from neglected storage preparation.

You can extend fuel storage life by adding a gasoline stabilizer that is formulated for that purpose, or you can avoid fuel deterioration problems by draining the carburetor, sediment cup, and/or fuel tank.

STORAGE

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 stabilizer*.
2 months to 1 year	Fill with fresh gasoline and add gasoline stabilizer*. Drain the carburetor float bowl (see page 63). Drain the fuel sediment cup (see page 50).
1 year or more	Fill with fresh gasoline and add gasoline stabilizer*. Drain the carburetor float bowl (see page 63). Drain the fuel sediment cup (see page 50). Remove the spark plug. Put a teaspoon of engine oil into each cylinder. Turn the engine for a few seconds by turning the engine switch to the START position to distribute the oil in the cylinders. Reinstall the spark plug. Change the engine oil (see page 45). After removal from storage, drain the stored gasoline into a suitable container, and fill with fresh gasoline before starting.
*Use gasoline stabilizers that are formulated to extend storage life. Follow the manufacturer's instructions for use. Contact your authorized Honda generator dealer for stabilizer recommendations.	

Draining the Fuel Tank and Carburetor

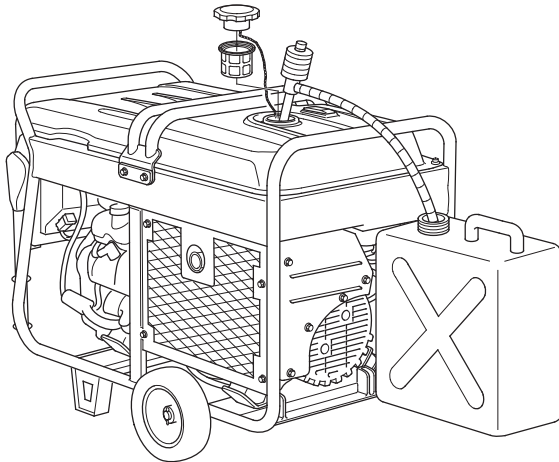
⚠ WARNING

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

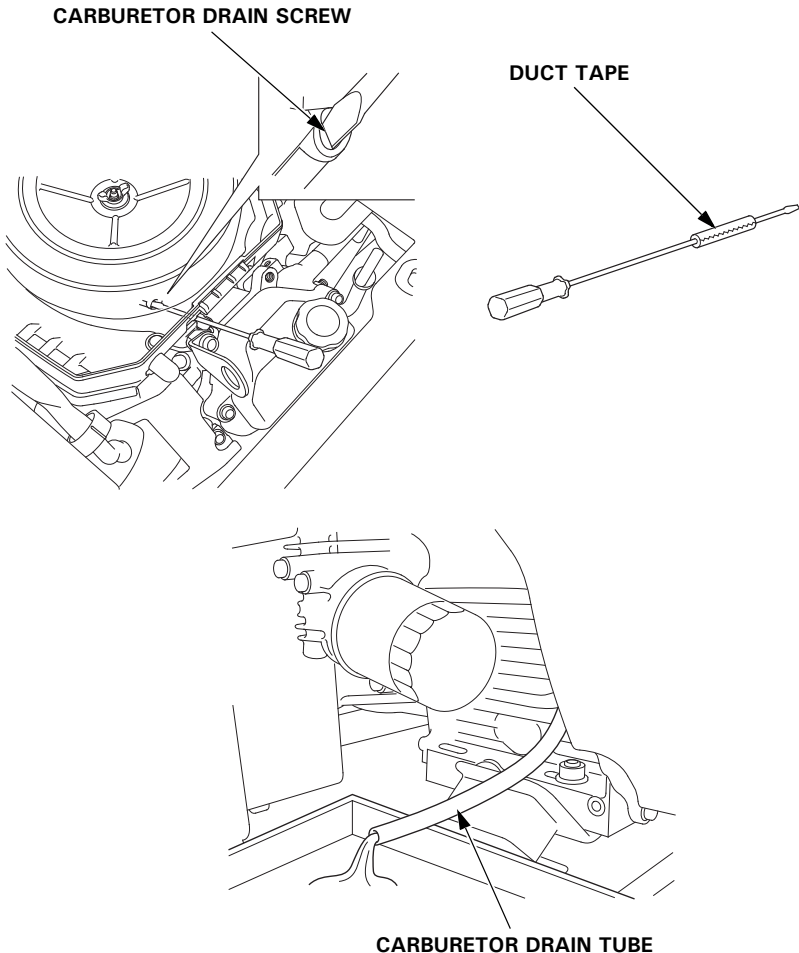
- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

1. Unscrew the fuel tank cap, remove the fuel filter, and empty the fuel tank into an approved gasoline container. We recommend using a commercially available gasoline hand pump to empty the tank. Do not use an electric pump. Reinstall the fuel filter and the fuel tank cap.



STORAGE

2. Pull out the carburetor drain tube end under the fan cover of the engine, and place it in a suitable container.
3. Remove the air cleaner cover (see page 47).
4. Loosen the carburetor drain screw.
If the drain screw is difficult to loosen, wrap duct tape around the screwdriver stem until the diameter becomes 8 mm as illustrated. By doing so, the screwdriver is easily inserted into the cutout portion of the drain bolt, and you can loosen the drain bolt easily.
5. Drain the gasoline from the carburetor into the container.
6. Tighten the carburetor drain screw securely.
7. Install the air cleaner cover (see page 48).



Engine Oil

1. Change the engine oil (see page 45).
2. Remove the spark plugs (see page 52).
3. Pour a teaspoon (5 cc) of clean engine oil into each cylinder.
4. Turn the engine for a few seconds by turning the engine switch to the START position to distribute the oil in the cylinders.
5. Reinstall the spark plugs (see page 53).
6. Remove the battery and store it in a cool, dry place. Recharge it once a month.
7. Cover the generator to keep out dust.

STORAGE

STORAGE PRECAUTIONS

If your generator will be stored with gasoline in the fuel tank and carburetor, it is important to reduce the hazard of gasoline vapor ignition.

Select a well ventilated storage area away from any appliance that operates with a flame, such as a furnace, water heater, or clothes dryer.

Also avoid any area with a spark-producing electric motor, or where power tools are operated.

If possible, avoid storage areas with high humidity, because that promotes rust and corrosion.

Unless all fuel has been drained from the fuel tank, leave the fuel valve in the OFF position to reduce the possibility of leakage.

Place the generator on a level surface. Tilting can cause fuel or oil leakage.

With the engine and exhaust system cool, cover the generator to keep out dust. A hot engine and exhaust system can ignite or melt some materials.

Do not use sheet plastic as a dust cover. A nonporous cover will trap moisture around the generator, promoting rust and corrosion.

REMOVAL FROM STORAGE

Check your generator as described in the *BEFORE OPERATION* chapter of this manual (see page 25).

If the generator was stored for 1 year or longer, drain the fuel tank (see page 63) and refuel with fresh gasoline. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline. Gasoline oxidizes and deteriorates over time, causing hard starting.

If the cylinder was coated with oil during storage preparation, the engine may smoke briefly at startup. This is normal.

TRANSPORTING

NOTICE

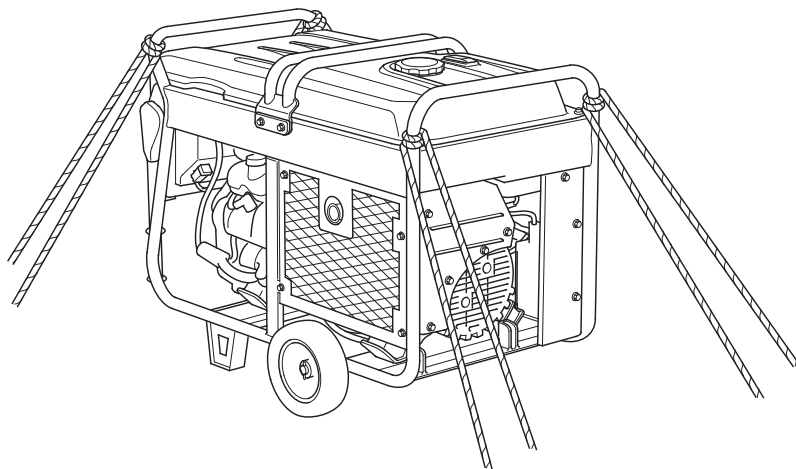
Do not lay the generator on its side when moving, storing, or operating it. Oil or fuel may leak and damage the engine or your property.

If the generator has been used, allow it cool for at least 15 minutes before loading the generator on the transport vehicle. A hot engine and exhaust system can burn you and can ignite some material.

When transporting the generator, turn the engine switch and the fuel valve lever OFF, and keep the generator level to reduce the possibility of fuel leakage.

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

When using ropes or tie-down straps to secure the generator for transportation, be sure to only use the frame bars as attachment points. Do not fasten ropes or straps to any portions of the generator body or handle bar.



TAKING CARE OF UNEXPECTED PROBLEMS

ENGINE WILL NOT START

Possible Cause	Correction
Fuel valve lever OFF.	Turn lever ON (see page 28).
Engine switch OFF.	Turn engine switch to ON (see page 29).
Choke OPEN.	Move to CLOSED unless engine is warm.
Out of fuel.	Refuel (see page 42).
Bad fuel; generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (see page 63). Refuel with fresh gasoline (see page 42).
Low oil level caused Oil Alert to stop engine.	Add oil (see page 44). Turn engine switch to OFF and then restart the engine.
Spark plug faulty, fouled, or improperly gapped.	Gap or replace spark plug (see page 52).
Spark plug wet with fuel (flooded engine).	Dry and reinstall spark plug.
Fuel filter restricted, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the generator to an authorized Honda servicing dealer, or refer to the shop manual.

TAKING CARE OF UNEXPECTED PROBLEMS

ENGINE LACKS POWER

Possible Cause	Correction
Air filter restricted.	Clean or replace air filter (see pages 47, 48, 49).
Bad fuel; generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (see page 63). Refuel with fresh gasoline (see page 42).
Fuel filter restricted, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the generator to an authorized Honda servicing dealer, or refer to the shop manual.

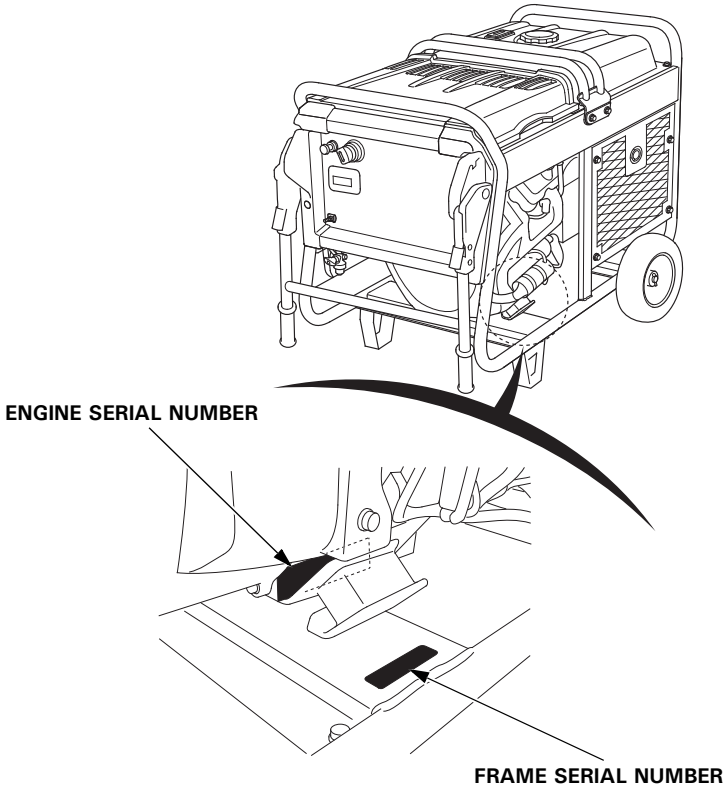
TAKING CARE OF UNEXPECTED PROBLEMS

NO POWER AT THE AC RECEPTACLES

Possible Cause	Correction
AC circuit breaker left in the OFF position after starting.	Check AC load and reset AC circuit breaker (see page 34).
GFCI activated.	Test GFCI (see page 32) and reset AC circuit breaker. Replace faulty power tool or appliance.
AC circuit protector tripped.	Check AC load and reset circuit protector (see page 13).
Faulty power tool or appliance.	Replace or repair power tool or appliance. Stop and restart the engine.
Faulty generator.	Take the generator to an authorized Honda servicing dealer, or refer to the shop manual.

TECHNICAL INFORMATION

Serial Number Location



Record the engine and frame serial numbers and date purchased in the spaces below. You will need this serial number when ordering parts, and when making technical or warranty inquiries.

Engine serial number: _____

Frame serial number: _____

Date purchased: _____

TECHNICAL INFORMATION

Carburetor Modification for 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. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your generator at altitudes above 5,000 feet (1,500 meters), have your authorized Honda servicing dealer perform this carburetor modification. This engine, when operated at high altitude with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000-foot (300-meter) 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 5,000 feet (1,500 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your servicing dealer return the carburetor to original factory specifications.

Emission Control System Information

Source of Emissions

The combustion process produces carbon monoxide, oxides of nitrogen, and hydrocarbons. Control of hydrocarbons and oxides of nitrogen are 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 appropriate air/fuel ratios and other emissions control systems to reduce the emissions of carbon monoxide, oxides of nitrogen, and hydrocarbons.

Additionally, Honda fuel systems utilize components and control technologies to reduce evaporative emissions.

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

NOTICE

Tampering is a violation of Federal and California law.

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.

TECHNICAL INFORMATION

Problems That May Affect Emissions

If you are aware of any of the following symptoms, have your engine inspected and repaired by your authorized Honda 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 new Honda engine were designed, built, and certified to conform with EPA and California emission regulations. We recommend the use of Honda Genuine 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 41. 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 dusty conditions, will require more frequent service.

Air Index (Models sold in California)

An Air Index Information label is applied to engines certified to an emission durability time period in accordance with the requirements of the California Air Resources Board.

The bar graph is intended to provide you, our customer, the ability to compare the emissions performance of available engines. The lower the Air Index, the less pollution.

The durability description is intended to provide you with information relating to the engine's emission durability period. The descriptive term indicates the useful life period for the engine's emission control system. See your *Emission Control System Warranty* for additional information.

Descriptive Term	Applicable to Emission Durability Period
Moderate	50 hours (0–80 cc, inclusive)
	125 hours (greater than 80 cc)
Intermediate	125 hours (0–80 cc, inclusive)
	250 hours (greater than 80 cc)
Extended	300 hours (0–80 cc, inclusive)
	500 hours (greater than 80 cc)
	1,000 hours (225 cc and greater)

TECHNICAL INFORMATION

Specifications

Dimensions

Model	EB10000
Type	AH type
Description code	EBVC
Length	41.0 in (1,041 mm)
Width	27.7 in (703 mm)
Height	35.1 in (891 mm)
Dry mass [weight]	400.8 lbs (181.8 kg)

Engine

Model	GX630H
Engine type	4-stroke, overhead valve, 2 cylinder
Displacement	42.0 cu-in (688 cm ³)
Bore × Stroke	3.07 × 2.83 in (78.0 × 72.0 mm)
Compression ratio	9.3:1
Engine speed	3,600 rpm
Cooling system	Forced air
Ignition system	CDI magneto ignition
Oil capacity	Without oil filter replacement: approximately 1.6 US qt (1.5 L) With oil filter replacement: approximately 1.8 US qt (1.7 L)
Fuel tank capacity	8.19 US gal (31.0 L)
Spark plug	ZFR5F (NGK)

Generator

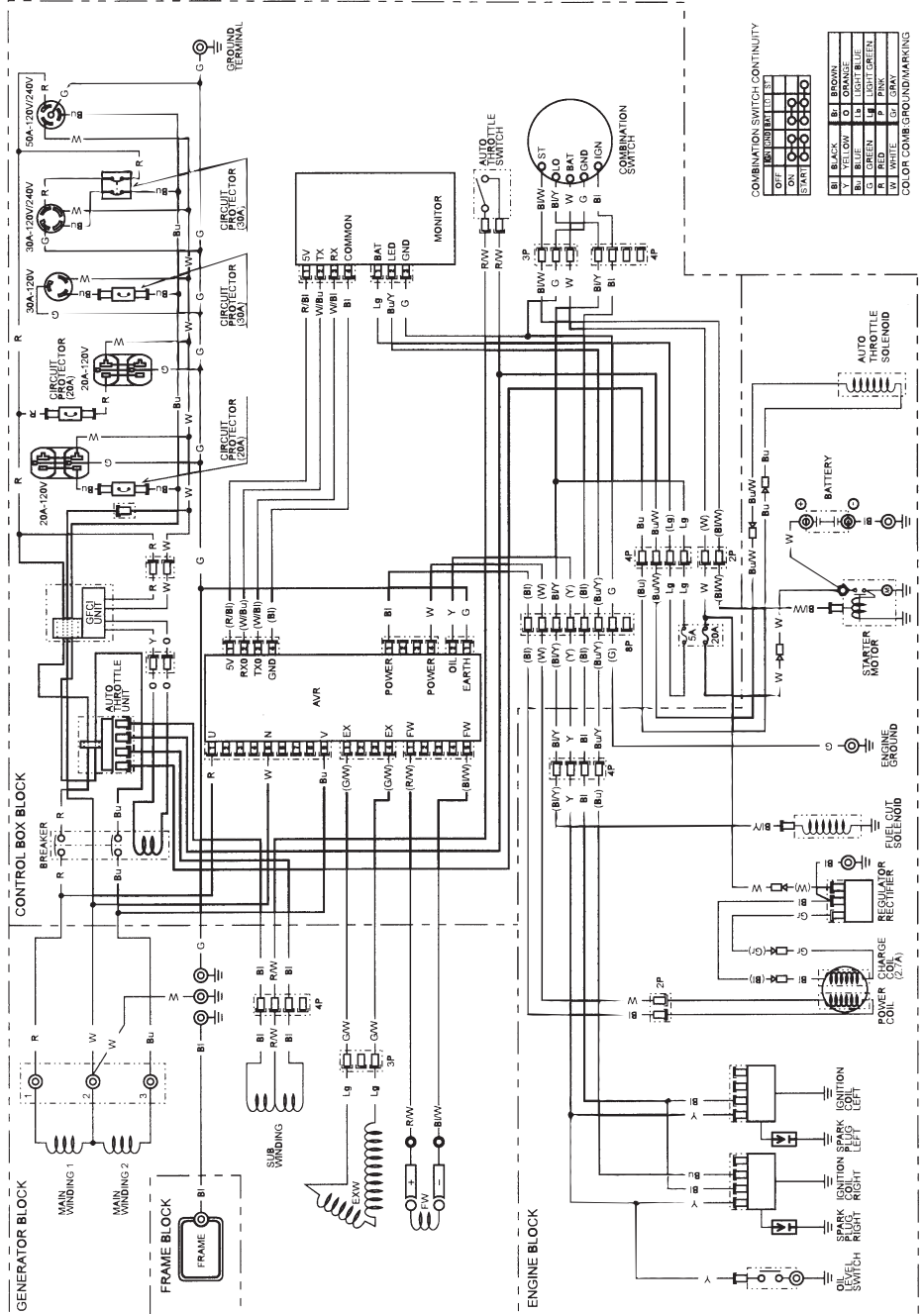
Model	EB10000	
Type	AH type	
AC output	Rated frequency	60 Hz
	Rated voltage	120 V / 240 V
	Rated ampere	37.5 A × 2 / 37.5 A
	Rated output	9.0 kVA
	Maximum output	10.0 kVA

Tuneup Specifications

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.028–0.031 in (0.7–0.8 mm)	Refer to page: 53
Valve clearance (cold)	IN: 0.08 ± 0.02 mm EX: 0.10 ± 0.02 mm	See your authorized Honda dealer
Other specifications	No other adjustments needed.	

TECHNICAL INFORMATION

Wiring Diagram



CONSUMER INFORMATION

Dealer Locator Information

To find an authorized Honda Servicing Dealer anywhere in the United States:

Visit our web site:

<http://powerequipment.honda.com/dealer-locator>

Honda Publications

Shop Manual

This manual covers complete maintenance and overhaul procedures. It is intended to be used by a skilled technician.

Available through your Honda dealer or visit

<http://powerequipment.honda.com/support/shop-manuals>

Parts Catalog

This manual provides complete, illustrated parts lists. Available through your Honda dealer.

Accessories Catalog

Your authorized Honda power equipment dealer offers a wide selection of accessories (optional equipment) to make your generator even more useful.

Visit <http://powerequipment.honda.com/generators/accessories> and click on Generators and Welders to see the entire catalog of accessories.

Customer 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:

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

Or telephone: (770) 497-6400 8:30 am to 7:00 pm ET

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

- Model and serial numbers (see page 71)
- Name of the dealer who sold the generator to you
- Name and address of the dealer who services your generator
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

ASSEMBLY

SAFETY

The Importance of Proper Assembly

Proper assembly is essential to operator safety and the reliability of the generator. Any error or oversight made by the person assembling and servicing a unit can easily result in faulty operation, damage to the generator, or injury to the operator.

⚠ WARNING

Improper assembly can cause an unsafe condition that can lead to serious injury or death.

Follow the procedures and precautions in the assembly instructions carefully.

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

⚠ WARNING

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

Follow the procedures and precautions in this manual carefully.

Important Safety Precautions

- Make sure you have a clear understanding of all basic shop safety practices and that you are wearing appropriate clothing and safety equipment. When performing this assembly, be especially careful of the following:
 - Read the instructions before you begin, and be sure you have the tools and skills required to perform the tasks safely.
- Make sure the engine is off before you begin any assembly, maintenance, or repairs. This will help eliminate several potential hazards:
 - Carbon monoxide poisoning from engine exhaust.**
Operate outside away from open windows or doors.
 - Burns from hot parts.**
Let the engine and exhaust system cool before touching.
 - Injury from moving parts.**
Do not run the engine unless the instruction tells you to do so. Even then, keep your hands, fingers, and clothing away. Do not run the engine when any protective guard or shield is removed.
- To reduce the possibility of a fire or explosion, be careful when working around gasoline or batteries. Use only a non-flammable solvent, not gasoline, to clean parts. Keep all cigarettes, sparks, and flames away from all fuel-related parts.

ASSEMBLY

ASSEMBLY

Unpacking

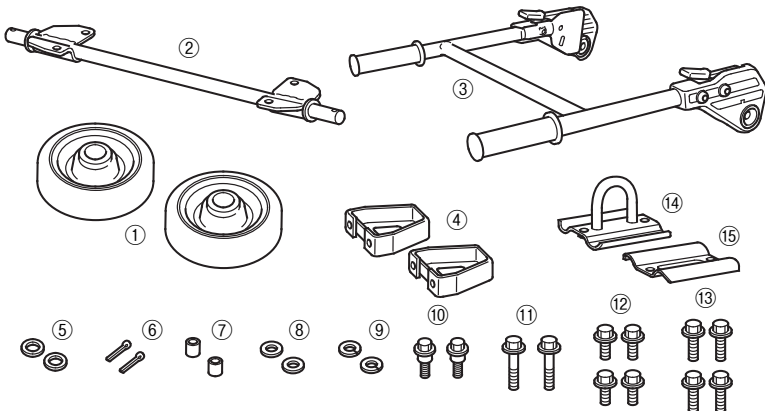
1. Remove the generator and loose parts box from the carton.
2. Compare the loose parts with the inventory list below.

Tools Required: 12 mm wrench (2), pliers

Loose Parts

Check all loose parts against the following list. Contact your dealer if any of the loose parts shown below are not included with your generator.

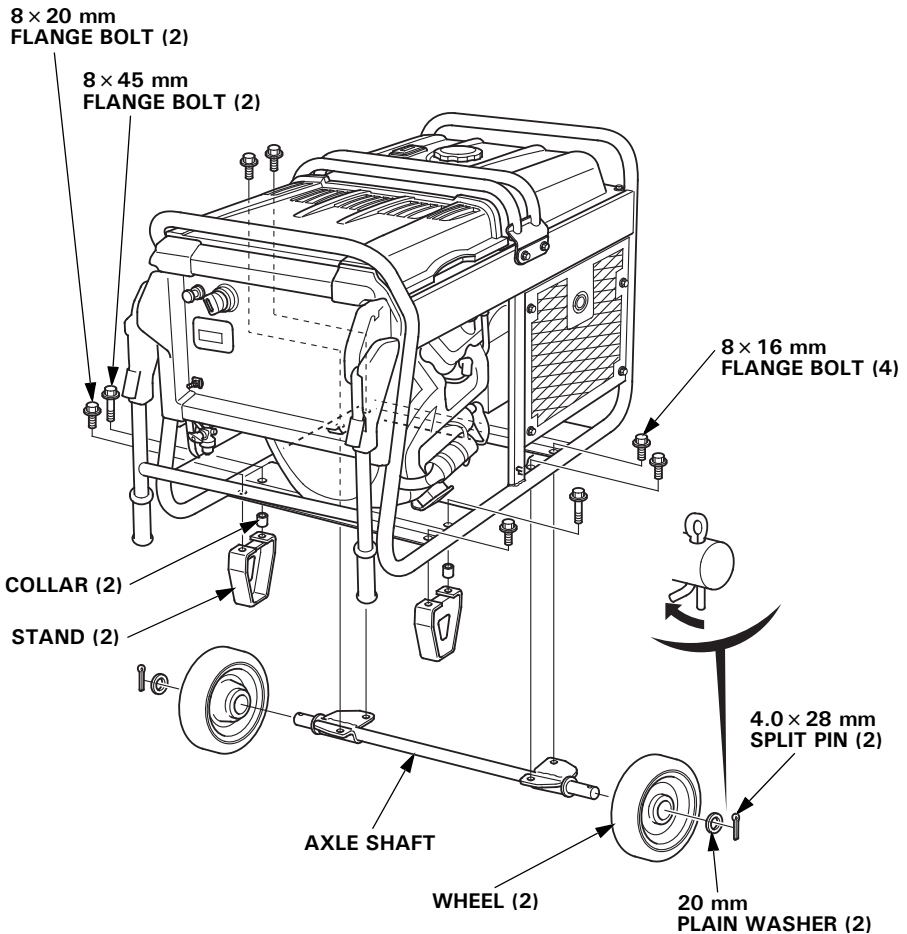
Ref. No.	Description	Qty.
1	Wheel	2
2	Axle Shaft	1
3	Handle assy	1
4	Stand	2
5	20 mm Plain Washer	2
6	4.0 × 28 mm Split pin	2
7	Collar	2
8	12 mm Washer	2
9	Spring Washer	2
10	Handle holder bolt	2
11	8 × 45 mm Flange bolt	2
12	8 × 16 mm Flange bolt	4
13	8 × 20 mm Flange bolt	4
14	Hanger	1
15	Hanger bracket	1



Wheel Kit Installation

1. Install the two wheels on the axle shaft using the plain washers and split pins.
2. Install the axle assembly on the generator using four 8 × 16 mm flange bolts.
3. Install the two stands on the under frame using two 8 × 20 mm flange bolts, two 8 × 45 mm flange bolts, and two collars.

TORQUE: 17–22 lbf·ft (24–29 N·m, 2.4–3.0 kgf·m)

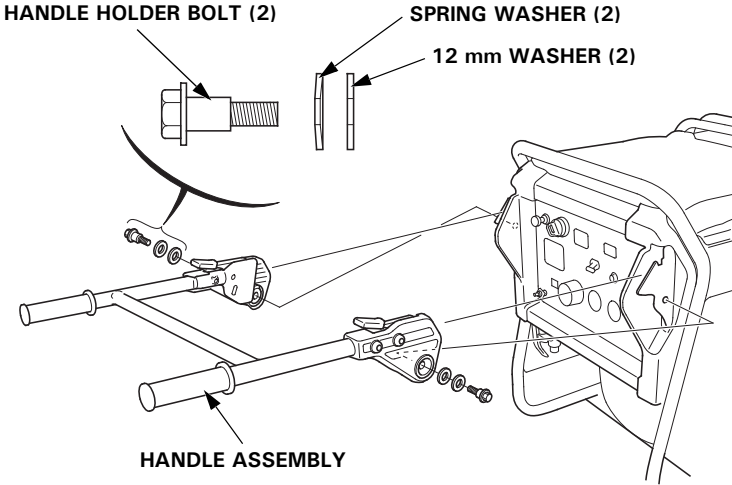


ASSEMBLY

Handle Installation

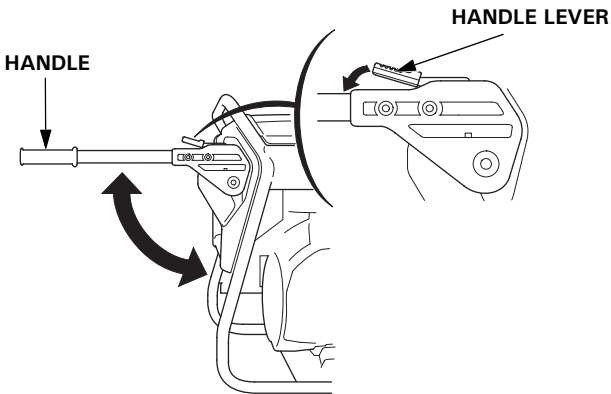
Install the handle assembly on the generator upper frame using the 12 mm washers, spring washers and handle holder bolts.

TORQUE: 17–22 lbf·ft (24–29 N·m, 2.4–3.0 kgf·m)



To extend handle:

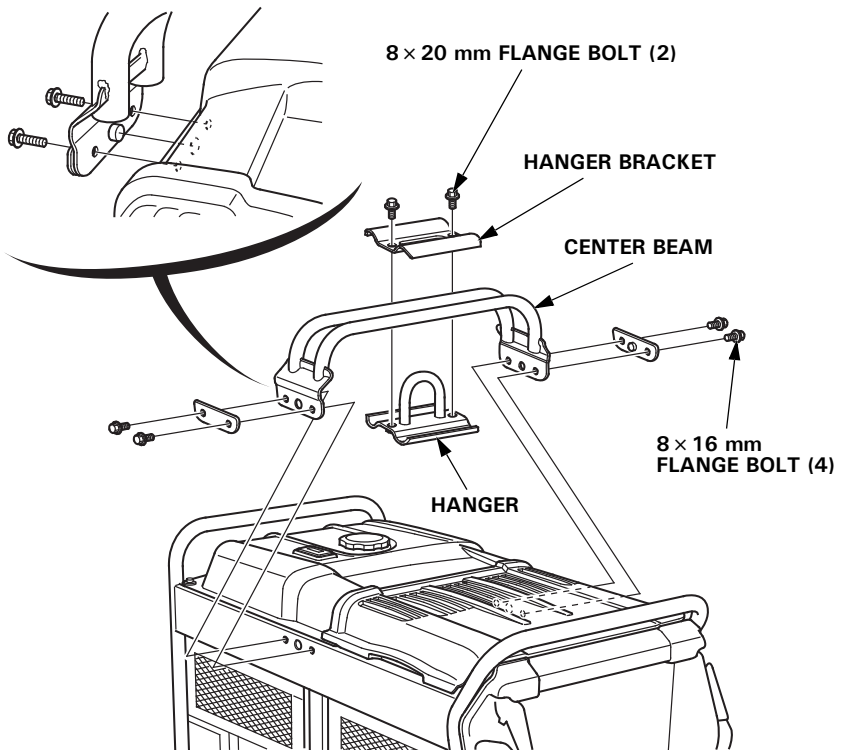
Raise the handle to the horizontal position. The handle will click into place when locked.



Hanger Kit Installation

1. Remove the center beam.
2. Loosely install the hanger to the center beam using the hanger bracket and two 8×20 mm flange bolts.
3. Reinstall the center beam. Make sure to tighten the four 8×16 mm bolts securely.
4. Position the hanger at the generator's center, and tighten the two 8×20 mm bolts securely.

TORQUE: 14–19 lbf·ft (20–25 N·m, 2.0–2.6 kgf·m)



ASSEMBLY

Engine Oil

The generator is shipped **WITHOUT OIL** in the engine.

1. Place the generator on a level surface.
2. Open the maintenance cover.
3. Remove the oil filler cap and oil level dipstick.
4. Add enough oil to bring the oil level to the upper limit mark on the oil dipstick. SAE 10W-30 API service category SJ or later (or equivalent) is recommended for general use; for additional recommendations (see page 46).

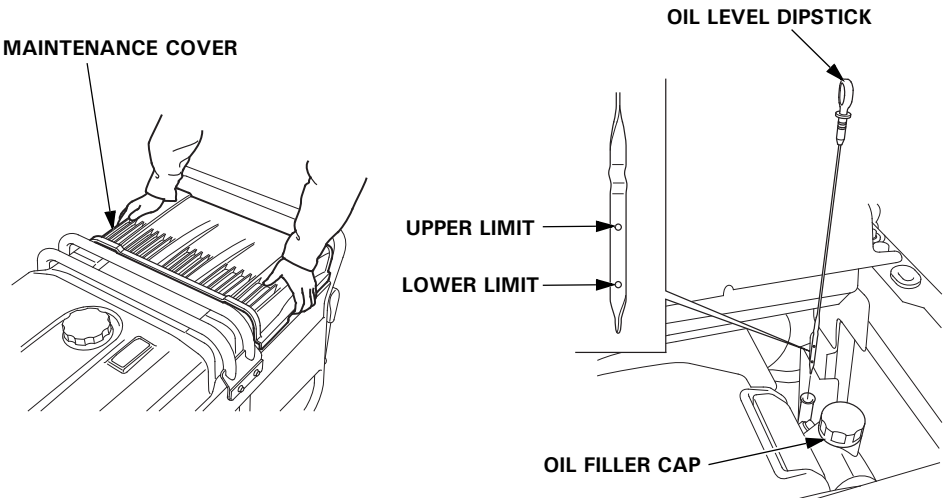
Maximum oil capacity:

Without oil filter replacement: approximately 1.6 US qt (1.5 L)

With oil filter replacement: approximately 1.8 US qt (1.7 L)

Do not overfill the engine with oil. If the engine is overfilled, the excess oil may be transferred to the air cleaner housing and air filter.

5. Reinstall the oil level dipstick and filler cap.
6. Close the maintenance cover.



Fuel

Add fuel to the generator in a well-ventilated area. Never refuel the engine inside a building where gasoline fumes may reach flames or sparks. Keep gasoline away from appliance pilot lights, barbecues, electric appliances, power tools, etc. Spilled fuel is not only a fire hazard, it causes environmental damage. Wipe up spills immediately.

This engine is certified to operate on unleaded gasoline with a pump octane rating of 86 or higher. Refer to page 43 for additional fuel recommendations.

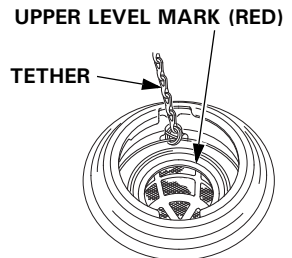
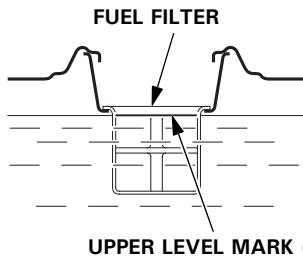
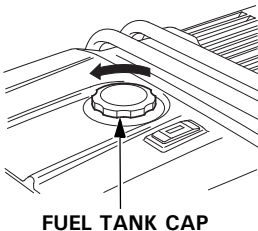
⚠ WARNING

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

1. Remove the fuel tank cap.
2. Fuel carefully to avoid spilling fuel. Do not fill the fuel tank above the upper level mark (red) on the fuel filler.
3. After refueling, reinstall the fuel tank cap securely.



ASSEMBLY

NOTICE

Fuel 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.

Move the generator at least 10 feet (3 meters) away from the fueling source and site before starting the engine.

BEFORE OPERATION

Before using the generator, all generator operators must read the following chapters and sections:

- **GENERATOR SAFETY** (see pages 6–9)
- **CONTROLS & FEATURES** (see pages 10–24)
- **BEFORE OPERATION** (see pages 25–26)
- **OPERATION** (see page 27)
- **STARTING THE ENGINE** (see pages 28–30)
- **STOPPING THE ENGINE** (see page 31)
- **MAINTENANCE SCHEDULE** (see page 41)

REGISTRATION

Please Register Your Generator

If your dealer did not collect registration information from you, please take a few minutes and register your purchase with Honda. This allows us to contact you with any important updates regarding your generator. Please note registration is not required to obtain warranty service. You can register your generator by visiting the Honda Power Equipment website, <http://powerequipment.honda.com/support> and click on Product Registration. Your information will remain confidential. It will not be released to any other company or organization.

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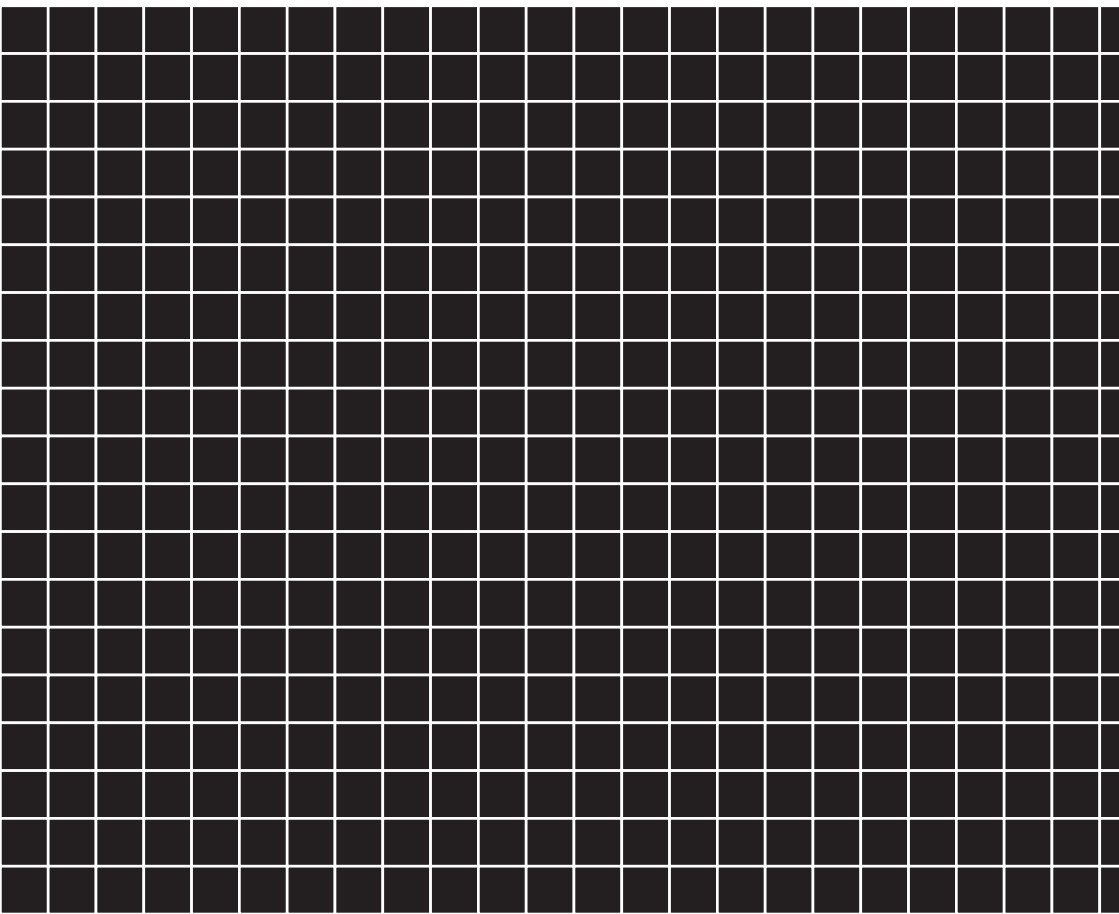
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QUICK REFERENCE INFORMATION

Fuel	Type	Unleaded gasoline with an ethanol content of no more than 10% and a pump octane rating of 86 or higher
Engine Oil	Type	SAE 10W-30, API SJ or later (or equivalent), for general use (see page 46)
Spark Plug	Type	ZFR5F (NGK)
	Electrode Gap	0.028–0.031 in (0.7–0.8 mm)
Maintenance	Before each use	Check engine oil level. Check air cleaner. Check GFCI operation. Check battery electrolyte.
	First 20 hours	Change engine oil.
	Subsequent	See <i>MAINTENANCE SCHEDULE</i> (see page 41)

HONDA

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