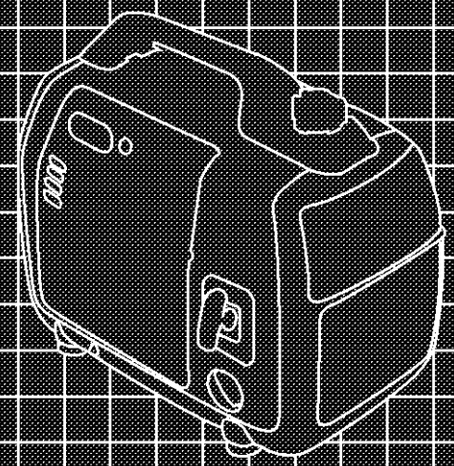
Our associates will ensure the tool works properly before you leave the store. If you experience issues with the tool while completing your project, simply bring it back to the Tool Rental Center to get a replacement. If you purchase Damage Protection at the time of your rental, you are not responsible for repair costs for tools that break due to normal use.

HONDA
Power
Equipment

HONDA
The Power of Dreams

Owner's Manual
GENERATOR
EU2000i

Click here to save this manual to your computer.



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(Hi)
Printed in Japan

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See page 82 for Initial Use Instructions

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⚠ WARNING: ⚠

The engine exhaust from this product contains 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 whatever.

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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* (see page 76) to fully understand its coverage and your responsibilities of ownership.

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 judgement.

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

- Exhaust contains poisonous carbon monoxide, a colorless, odorless gas. Breathing carbon monoxide can cause loss of consciousness and may lead to death.
- If you run the generator in an area that is confined, or even partly enclosed area, the air you breathe could contain a dangerous amount of exhaust gas.
- Never run your generator inside a garage, house, or near open windows or doors.

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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 of the 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.
- For parallel operation, use only a Honda approved parallel operation cable kit (optional equipment) when connecting one EU2000i to either an EU2000i Companion or another EU2000i generator.
- Never connect different generator models.

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.

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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 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.

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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 servicing dealer for a replacement.

California type

⚠ 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

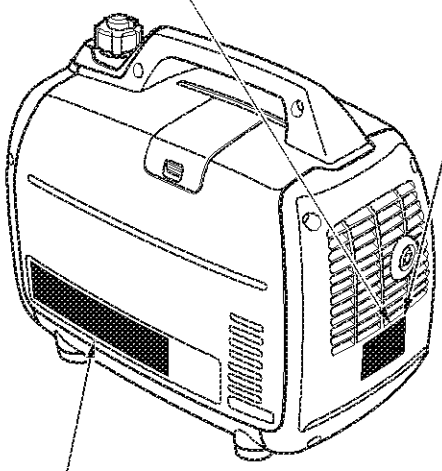
⚠ CAUTION

A hot exhaust system can cause serious burns.
- Avoid contact if the engine has been running.

Non-California type

⚠ CAUTION

A hot exhaust system can cause serious burns.
- Avoid contact if the engine has been running.



⚠ WARNING

Gasoline is highly flammable and explosive. You could be burned or seriously injured if the gasoline is ignited.
- 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.
- After operation, turn the engine switch and fuel tank cap lever to the "off" position prevent fuel leakage.

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.

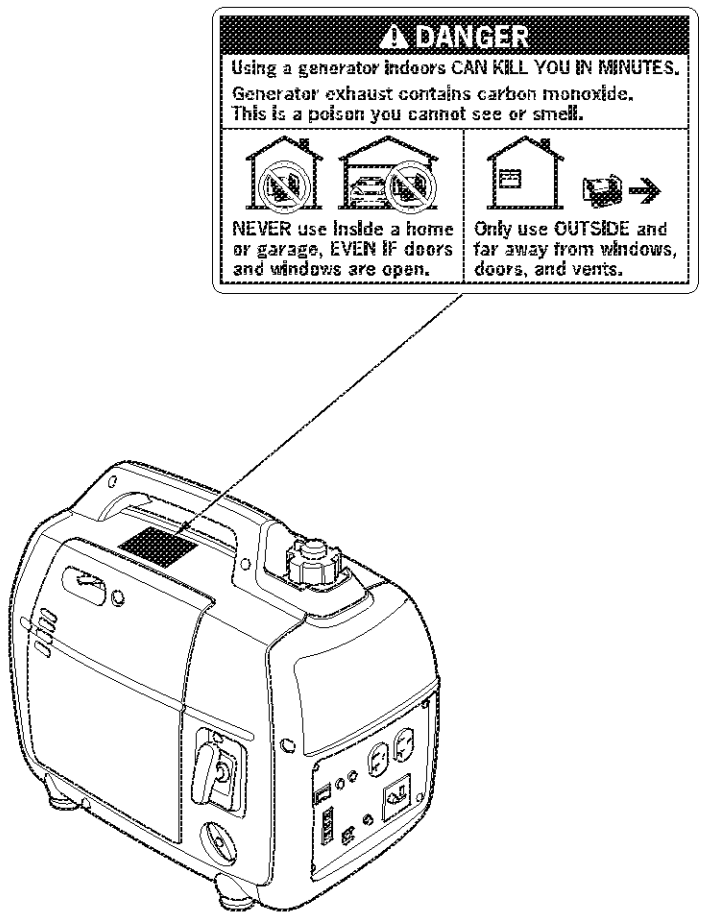
⚠ WARNING

Improper connections to a building can allow electrical current to backfeed into utility lines, creating an electrocution hazard.
- Connections to a building must isolate generator power from utility power and comply with all applicable laws and electrical codes.

The generator is a potential source of electrical shock if not kept dry.
- Do not expose the generator to moisture, rain or snow.
- Do not operate the generator with wet hands.

Read owner's manual carefully before operation.

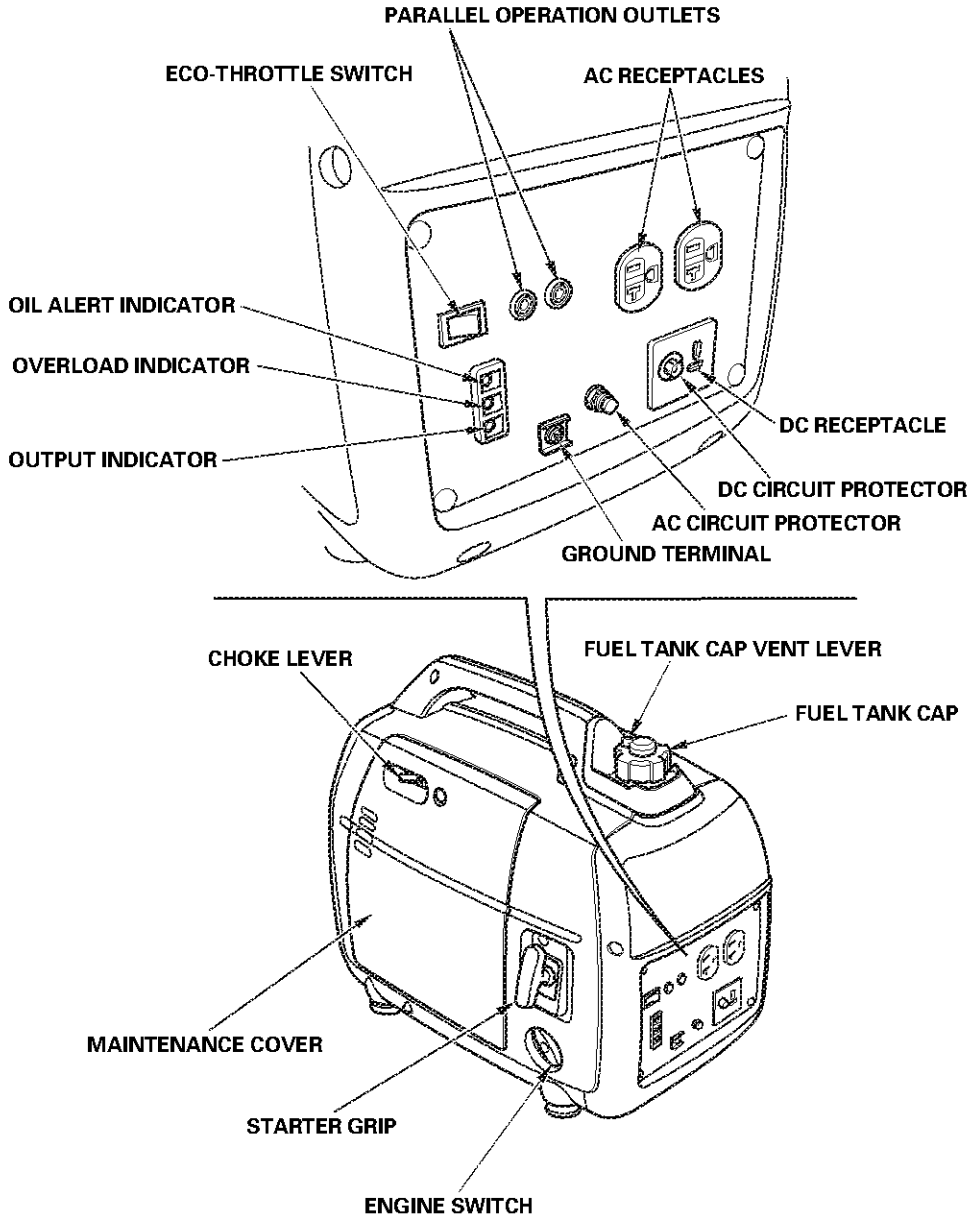
GENERATOR SAFETY



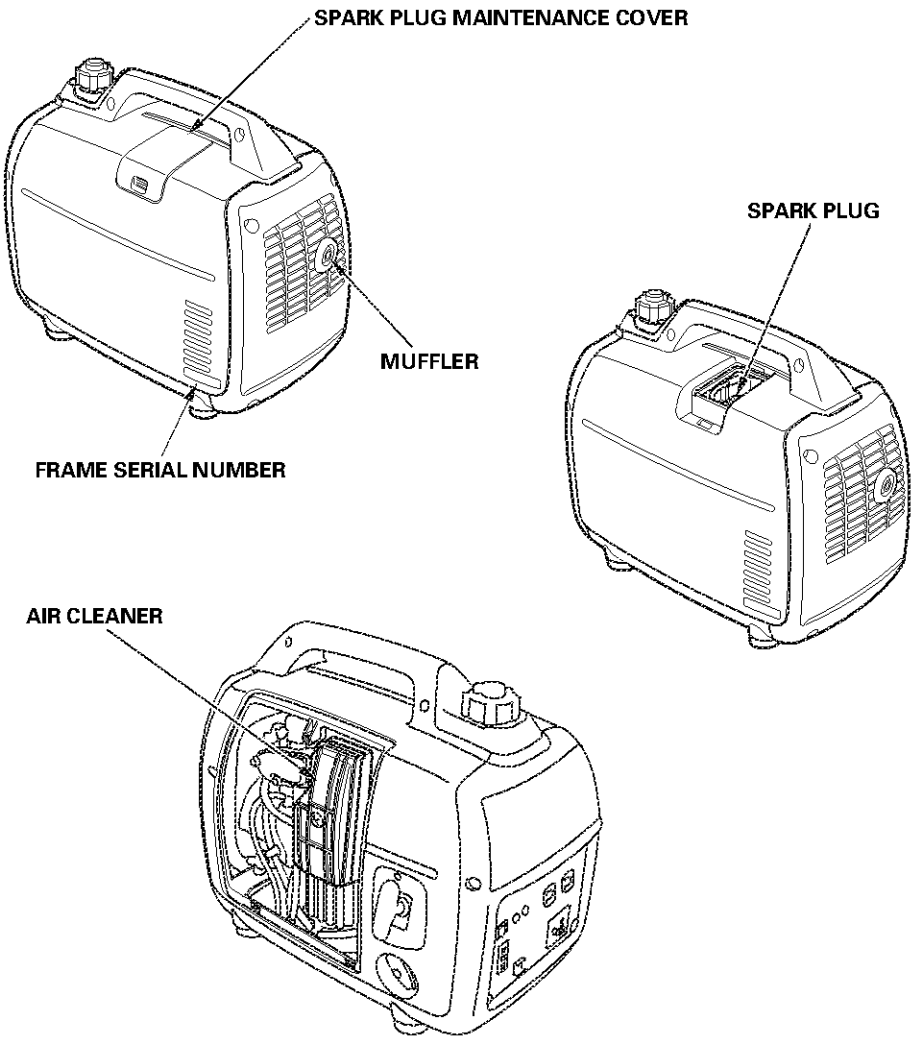
CONTROLS & FEATURES

COMPONENT & CONTROL LOCATIONS

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



CONTROLS & FEATURES



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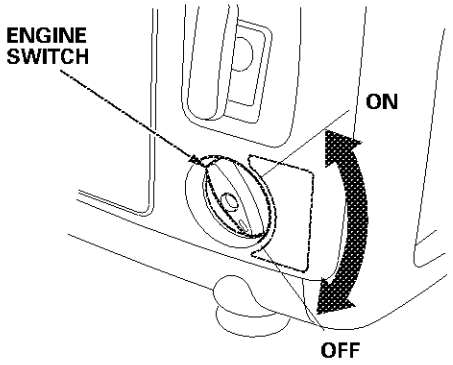
CONTROLS

Engine Switch



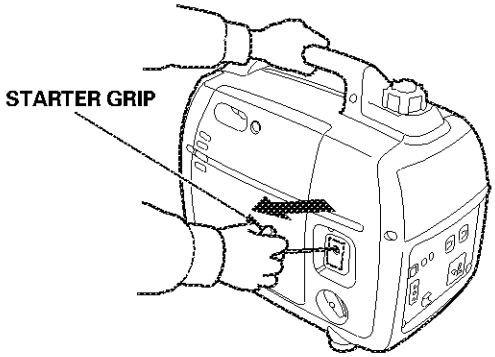
The engine switch controls the ignition system and the fuel valve.

OFF – Stops the engine and closes the fuel valve.

ON – Running position; opens the fuel valve and allows the engine to be started.

Starter Grip

Pulling the starter grip operates the recoil starter to crank the engine.



NOTICE

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

CONTROLS & FEATURES

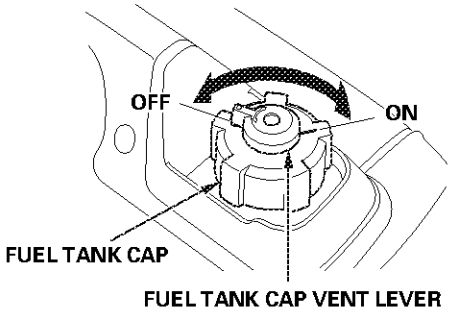
Fuel Tank Cap Vent Lever

The fuel tank cap is provided with a vent lever to seal the fuel tank.

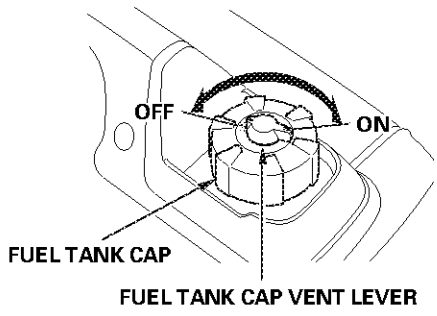
The vent lever must be in the ON position for the engine to run.

When the engine is not in use, leave the vent lever in the OFF position to reduce the possibility of fuel leakage. Allow the engine to cool well before turning the vent lever to the OFF position.

NON-CALIFORNIA TYPE

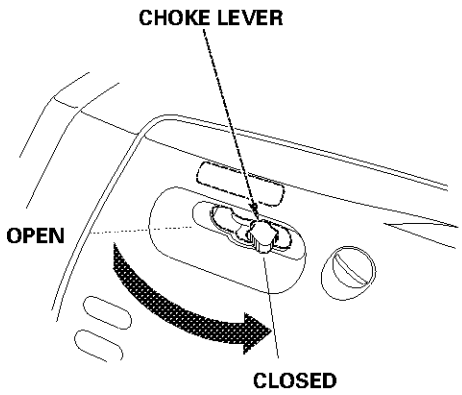


CALIFORNIA TYPE



Choke Lever

The choke is used to provide proper starting mixture when the engine is cold. It can be opened and closed by operating the choke lever manually. Move the choke lever to the CLOSED position to enrich the mixture for cold starting.



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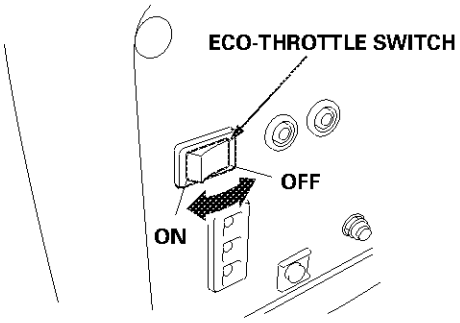
Eco-Throttle™ Switch

The Eco-Throttle™ system automatically reduces engine speed when loads are turned off or disconnected. When appliances are turned on or reconnected, the engine returns to the proper speed to power the electrical load.
If high electrical loads are connected simultaneously, turn the Eco-Throttle switch to the OFF position to reduce voltage changes. When using the DC output, turn the Eco-Throttle switch to the OFF position.

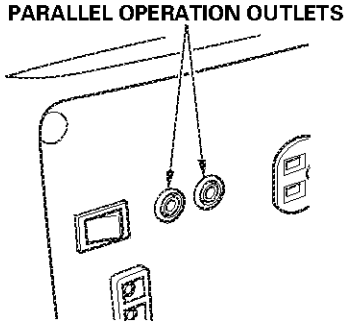
ON: Recommended to minimize fuel consumption and further reduce noise levels when less than a full load is applied to the generator.

OFF: The Eco-Throttle system does not operate.



Parallel Operation Outlets

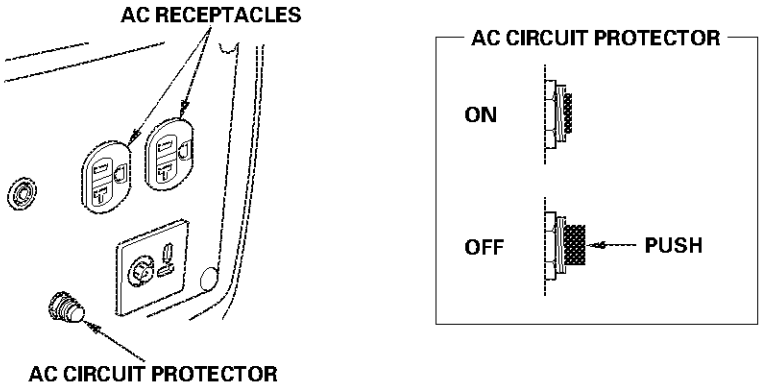
These outlets are used for connecting the EU2000i to either an EU2000i Companion or another EU2000i generator for parallel operation (see page 31). A Honda approved parallel operation cable kit (optional equipment) is required for parallel operation. This kit can be purchased from an authorized Honda generator dealer.



CONTROLS & FEATURES

AC Circuit Protector

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

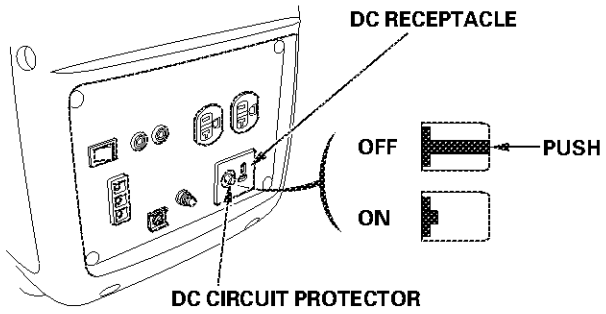


DC Receptacle

The DC receptacle should ONLY be used for charging 12-volt automotive type batteries. The DC charging output is not regulated.

DC Circuit Protector

The DC circuit protector automatically shuts off the DC battery charging circuit when the DC charging circuit is overloaded, when there is a problem with the battery, or when the connections between the battery and the generator are improper. However, the circuit protector does not prevent overcharging.



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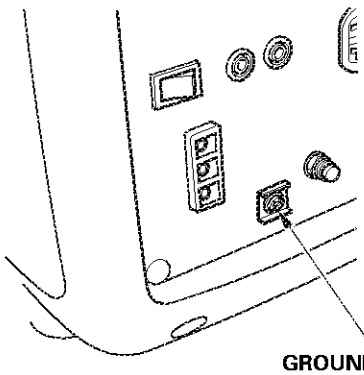
FEATURES

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.



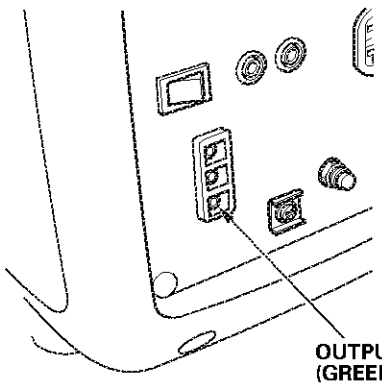
CONTROLS & FEATURES

Output Indicator

The output indicator (green) is illuminated when the generator is operating normally. It indicates that the generator is producing electrical power at the receptacles.

In addition, the output indicator has a simplified hour meter function. When you start the engine, the indicator blinks according to the generator's cumulative operating hours as follows:

- No blinks: 0—100 hours
- 1 blink: 100—200 hours
- 2 blinks: 200—300 hours
- 3 blinks: 300—400 hours
- 4 blinks: 400—500 hours
- 5 blinks: 500 or more hours



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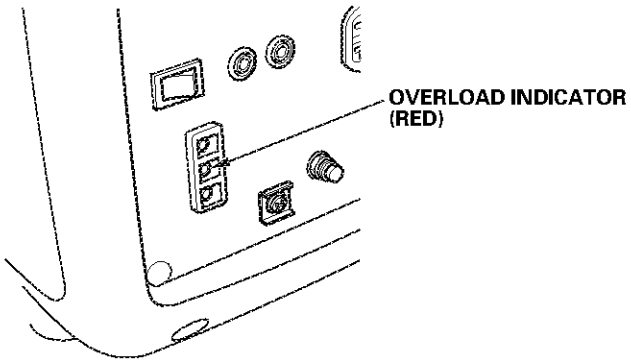
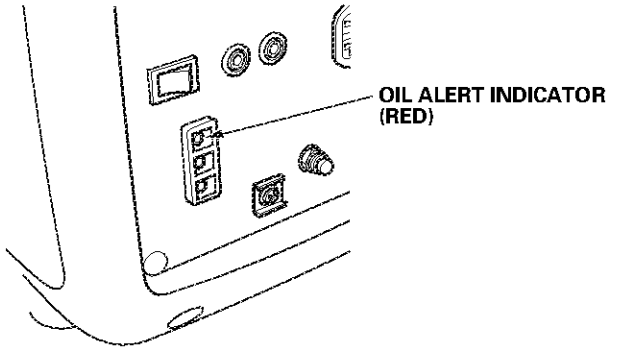
Overload Indicator

If the generator is overloaded (in excess of 2.0 kVA), or if there is a short circuit in a connected appliance, the overload indicator (red) will come ON. The overload indicator (red) will stay ON, and after about four seconds, current to the connected appliance(s) will shut off, and the output indicator (green) will go OFF. However, the engine will continue to run.



Oil Alert® Indicator

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 (red) comes on and the Oil Alert system automatically will stop the engine (the engine switch will remain in the ON position).
If the engine stops or the Oil Alert indicator (red) comes on when you pull the starter grip, check the engine oil level (see page 46) before troubleshooting in other areas.



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 pages 30 and 32).

IS YOUR GENERATOR READY TO GO?

For your safety, 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.

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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.

Check the Engine

Check the oil level (see page 46). A low oil level will cause the Oil Alert system to shut down the engine.

Check the air filter (see page 50). A dirty air filter will restrict air flow to the carburetor, reducing engine and generator performance.

Check the fuel level (see page 43). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.

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OPERATION

SAFE OPERATING PRECAUTIONS

Before operating the generator for the first time, review chapters *GENERATOR SAFETY* (see page 6) and *BEFORE OPERATION* (see page 20).

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.
- 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 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.
- Operate the generator at least 3 feet (1 meter) away from buildings and other equipment.
- Do not operate the generator in an enclosed structure.

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STARTING THE ENGINE

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.

NOTICE

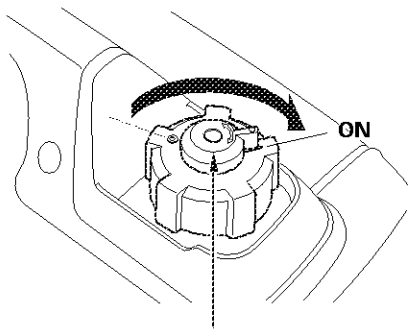
- *Operating this generator less than 3 feet (1 meter) from a building or other obstruction can cause overheating and damage the generator.*
- *For proper cooling, allow at least 3 feet (1 meter) of empty space above and around the generator.*
  Keep all cooling holes open and clear of debris, mud, water, etc. Cooling holes are located on the side panel, the control panel, and the bottom of the generator. If the cooling holes are blocked, the generator may overheat and damage the engine, inverter, or windings.

Refer to *SAFE OPERATING PRECAUTIONS* on page 22 and perform the *IS YOUR GENERATOR READY TO GO* checks (see page 20).
Refer to the *AC OPERATION* (see page 28) or *DC OPERATION* (see page 34) for connecting loads to the generator.

1. Make sure that all appliances connected to the generator are turned off. The generator may be hard to start if a load is connected.

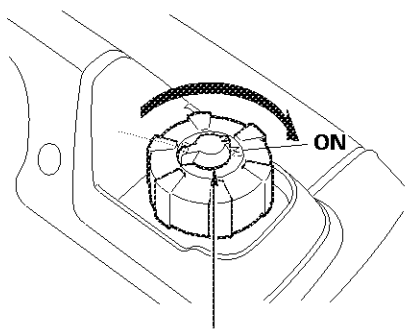
2. Turn the fuel tank cap vent lever to the ON position.

NON-CALIFORNIA TYPE



FUEL TANK CAP VENT LEVER

CALIFORNIA TYPE



FUEL TANK CAP VENT LEVER

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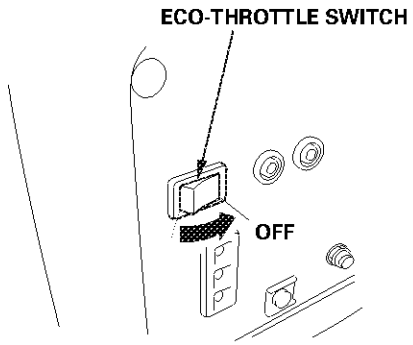
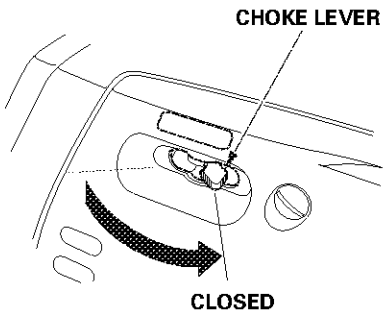
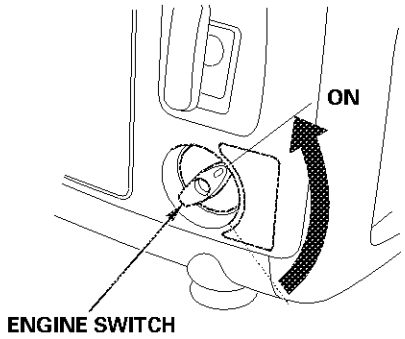
3. Make sure the Eco-Throttle switch is in the OFF position, or more time will be required for warm-up.



4. To start a cold engine, move the choke lever to the CLOSED position. To restart a warm engine, leave the choke lever in the OPEN position.



5. Turn the engine switch to the ON position.



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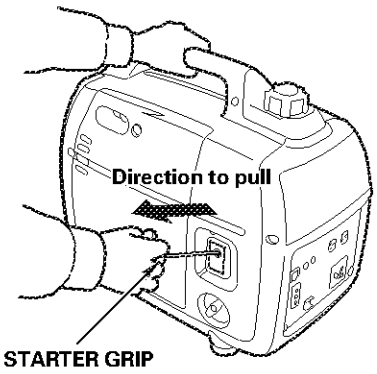
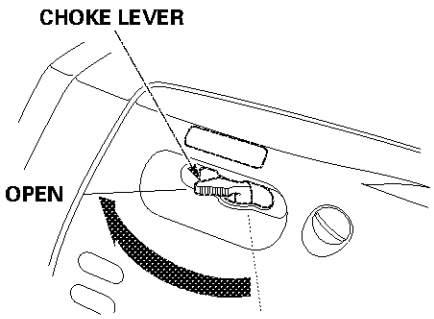
6. Pull the starter grip lightly until you feel resistance, then pull briskly in the direction of the arrow as shown.



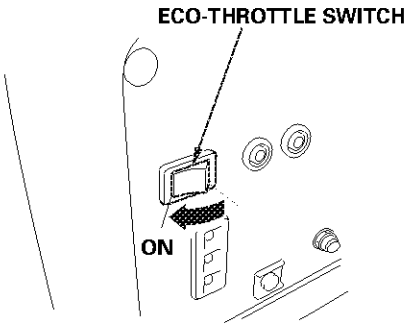
NOTICE

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

7. If the choke lever was moved to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.



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



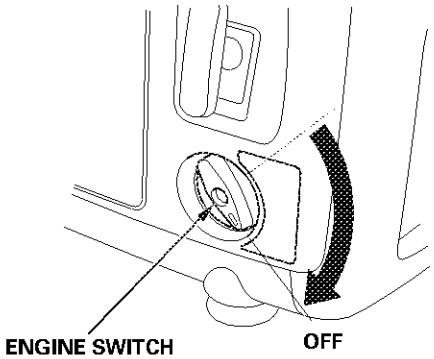
OPERATION

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.

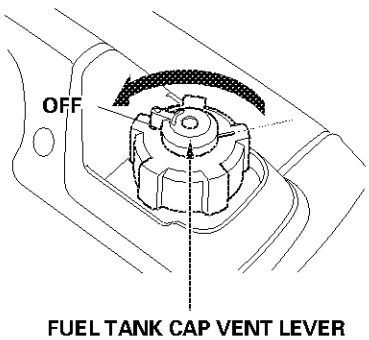
1. Turn off or disconnect all appliances connected to the generator.

2. Turn the engine switch to the OFF position.

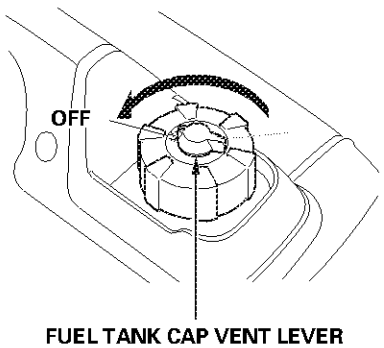


3. Allow the engine to cool, and then turn the fuel tank cap vent lever to the OFF position.

NON-CALIFORNIA TYPE



CALIFORNIA TYPE



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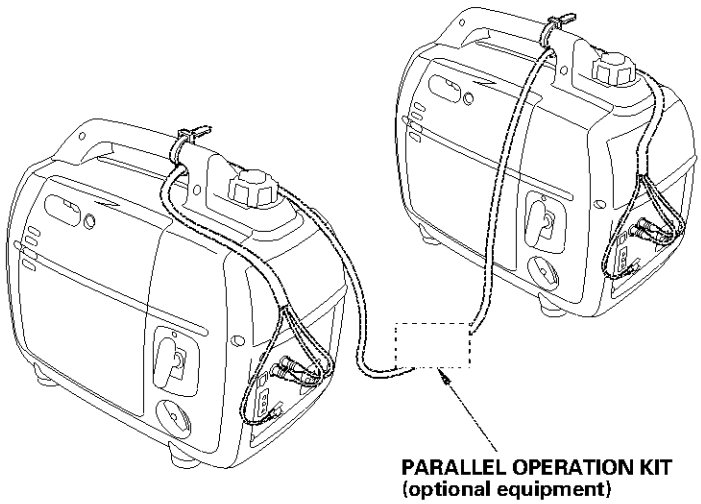
4. If two generators were connected for parallel operation, disconnect the parallel operation cable after stopping the engines if you do not wish to resume parallel operation.

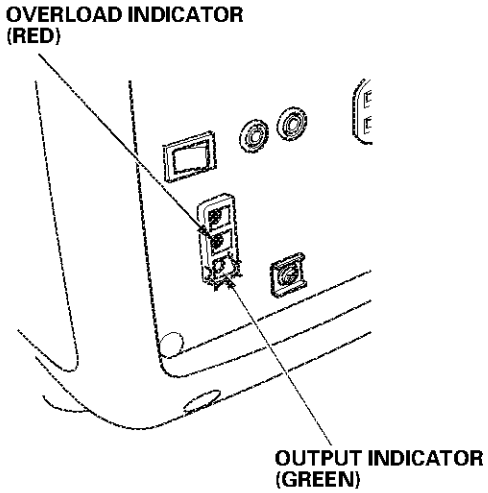


OPERATION

AC OPERATION

Before connecting an appliance to the generator, make sure that it is in good working order and that its electrical rating does not exceed that of the generator.
Most motorized appliances require more than their electrical rating for startup. When an electric motor is started, the overload indicator (red) may come on. This is normal if the overload indicator (red) goes off within 4 seconds. If the overload indicator (red) stays on, consult your generator dealer.

1. Start the engine (see page23) and make sure the output indicator (green) comes on.



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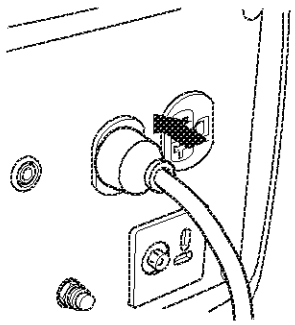
2. Plug in the appliance into the receptacle.



3. Turn on the appliance.

If the generator is overloaded (see page 30), or if there is a short circuit in a connected appliance, the overload indicator (red) will go ON. The overload indicator (red) will stay ON, and after about four seconds, current to the connected appliance(s) will shut off, and the output indicator (green) will go OFF. Stop the engine and investigate the problem.

Determine if the cause is a short circuit in a connected appliance or an overload. Correct the problem and restart the generator.

OPERATION

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

- Make sure that it is in good working order. A faulty appliance or power cord 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.
- Make sure that the combined electrical rating of the tools or appliances do 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 protector. Exceeding the time limit for maximum power operation or slightly overloading the generator may not switch the circuit protector OFF, but will shorten the service life of the generator.

Limit operation requiring maximum power to 30 minutes.
Maximum power is:

2.0 kVA

For continuous operation, do not exceed the rated power.
Rated power is:

1.6 kVA

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.

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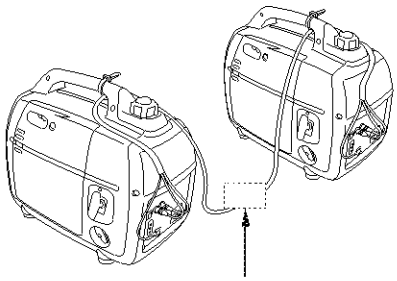
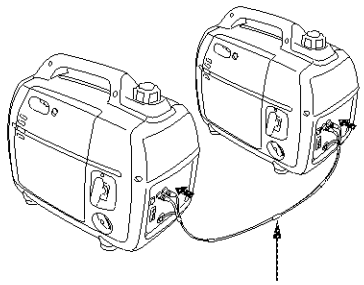
AC PARALLEL OPERATION

Before connecting an appliance to either generator, make sure that the appliance is in good working order and that its electrical rating does not exceed that of the receptacle.
Most motorized appliances require more than their electrical rating for startup. When an electric motor is started, the overload indicator (red) may come on. This is normal if the overload indicator (red) goes off within 4 seconds. If the overload indicator (red) stays on, consult your generator dealer.
During parallel operation, the Eco-Throttle switch should be in the same position on both generators.

1. Connect the parallel operation cable between the EU2000i to either an EU2000i Companion or another EU2000i generator following the instructions supplied with the cable kit.



PARALLEL OPTION KIT (EU2000i and EU2000i) (optional equipment, see page 73)



PARALLEL OPTION CABLES KIT (EU2000i and EU2000i Companion)

2. Start the engines (see page 23) and make sure the output indicator (green) on each generator comes on (see page 28).

3. Plug in the appliance following the instruction provided with the parallel operation cable kit.

4. Turn on the appliance.

If the generators are overloaded (see page 33), or if there is a short circuit in a connected appliance, the overload indicator (red) will go ON. The overload indicator (red) will stay ON, and after about four seconds, current to the connected appliance(s) will shut off, and the output indicator (green) will go OFF. Stop both engines and investigate the problem.
Determine if the cause is a short circuit in a connected appliance or an overload. Correct the problem and restart the generator.

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OPERATION

AC Parallel Operation Applications

Both types of EU2000i generators (Standard and Companion) can be connected to each other to increase the available power using a parallel cable kit (optional equipment, see page 74).

Follow the instructions included with the parallel operation cable kit. Before connecting an appliance or power cord to the generator:

- Make sure that it is in good working order. A faulty appliance or power cord 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.
- Make sure that the combined electrical rating of the tools or appliances do 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.
- Never connect different generator models.
- For parallel operation, use only a Honda approved parallel operation cable kit (optional equipment, see page 74) when connecting one EU2000i to either an EU2000i Companion or another EU2000i generator.
- Never connect or remove the parallel operation cable when the generator is running.
- For single generator operation, the parallel operation cable must be removed.

NOTICE

Substantial overloading that continuously lights the overload indicator (red) may damage the generator. Marginal overloading that temporarily lights the overload indicator (red) may shorten the service life of the generator.

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Limit operation requiring maximum power to 30 minutes.
Maximum power in parallel operation is:

4.0 kVA

For continuous operation, do not exceed the rated power.
Rated power in parallel operation is:

3.2 kVA

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.

OPERATION

DC OPERATION

The DC receptacle should ONLY be used for charging 12-volt automotive type batteries. The DC charging output is not regulated.

When using the DC output, turn the Eco-Throttle switch to the OFF position.

Connecting the battery charging cable (optional equipment):

1. Before connecting the battery charging cable to a battery that is installed in a vehicle, disconnect the vehicle battery ground cable from the negative (−) battery terminal.

⚠ 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.

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

2. Plug the battery charging cable into the DC receptacle of the generator.

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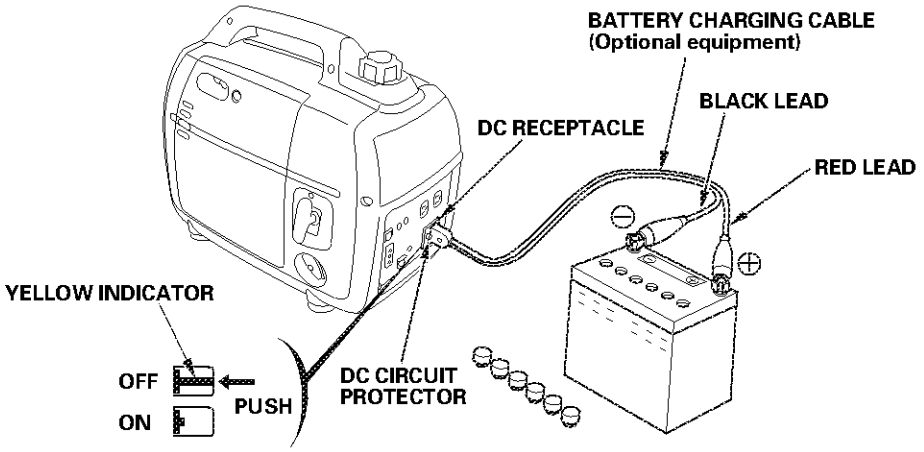
3. Connect the red lead of the battery charging cable to the positive (+) battery terminal and the black lead to the negative (−) battery terminal.



4. Start the generator (see page 23).

NOTICE

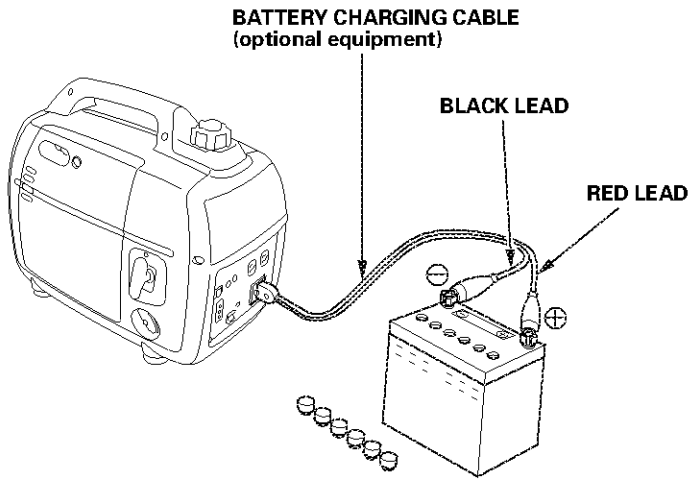
Do not start the vehicle while the battery charging cable is connected and the generator is running. The vehicle or the generator may be damaged.

An overloaded DC circuit, excessive current draw by the battery, or a wiring problem will trip the DC circuit protector (PUSH button extends out). If this happens, wait a few minutes before pushing in the circuit protector to resume operation. If the DC circuit protector continues to go OFF, discontinue charging and see your authorized Honda generator dealer. The circuit protector does not prevent overcharging the battery.

OPERATION

Disconnecting the battery charging cable:

1. Stop the engine.
2. Disconnect the black lead of the battery charging cable from the negative (−) battery terminal.
3. Disconnect the red lead of the battery charging cable from the positive (+) battery terminal.
4. Disconnect the battery charging cable from the DC receptacle of the generator.
5. Connect the vehicle battery ground cable to the negative (−) battery terminal.



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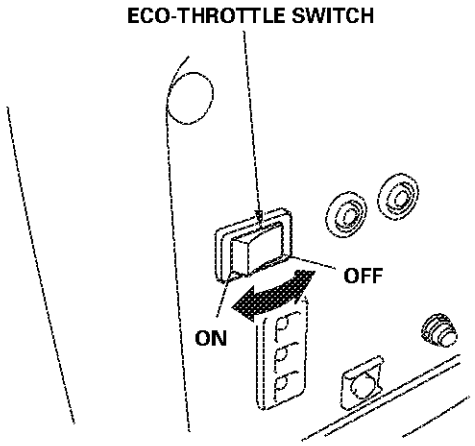
ECO-THROTTLE™ SYSTEM

With the switch in the ON position, engine speed is automatically lowered when loads are reduced, turned off, or disconnected. When appliances are turned on or reconnected, the engine returns to the proper speed to power the electrical load. In the OFF position, the Eco-Throttle system does not operate.

Appliances with large start-up power demands may not allow the engine to reach normal operating rpm when they are connected to the generator. Turn the Eco-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.

If high electrical loads are connected simultaneously, turn the Eco-Throttle switch to the OFF position to reduce voltage changes.

The Eco-Throttle system is not effective for use with appliances or tools that require only momentary power. If the tool or appliance will be turned ON and OFF quickly, the Eco-Throttle switch should be in the OFF position.
When using the DC output, turn the Eco-Throttle switch to the OFF position.



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OPERATION

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

Honda portable generators have a system ground that connects the 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 with a receptacle tester, it will not show the same ground circuit condition as for a home receptacle.

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Special Requirements

NOTICE

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

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.

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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 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, 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.

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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.**
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 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) Perform at every indicated month or operating hour interval, whichever comes first. / ITEM		Each use	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 200 Hrs.	Page
Engine oil	Check level	○					46
	Change		○		○		48
Air cleaner	Check	○					50
	Clean			○ (1)			52
Spark plug	Check-adjust				○		53
	Replace					○	53
Spark arrester	Clean				○		55
Valve clearance	Check-adjust					○ (2)	---
Combustion chamber	Clean	After every 300 hrs. (2)					—
Fuel tank and filter	Clean				○ (2)		—
Fuel tube	Check	Every 2 years (Replace if necessary) (2)					---

(1) Service more frequently when used in dusty areas.
(2) These items should be serviced by your Honda servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.
(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.

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REFUELING

With the engine stopped, remove the fuel tank cap and check the fuel level. 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.

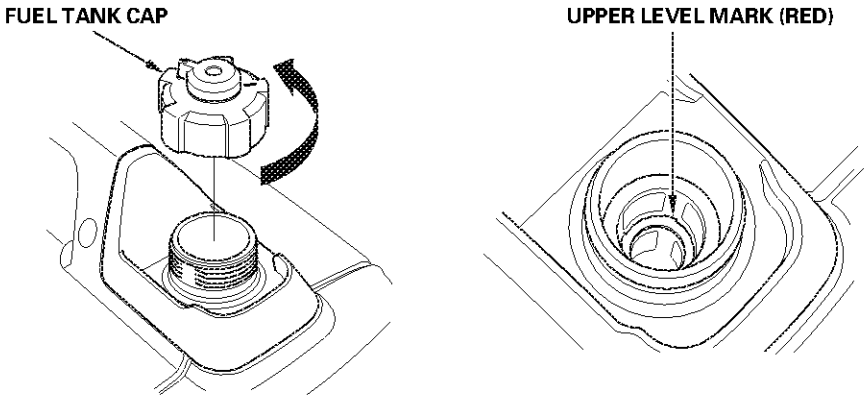
NOTICE

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 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.

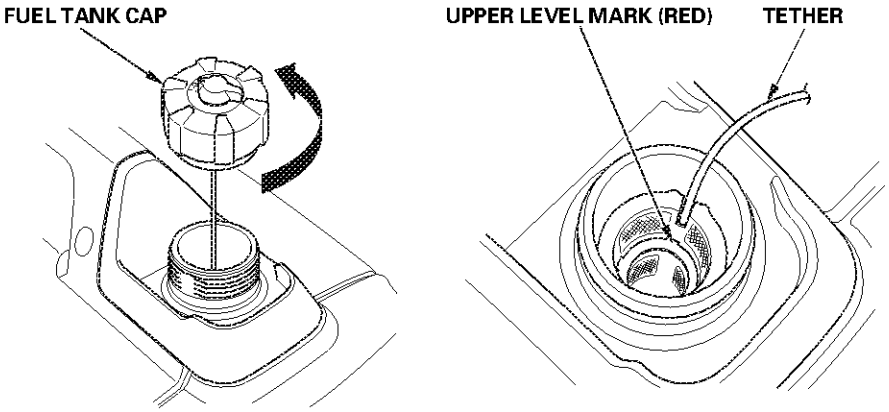
SERVICING YOUR GENERATOR

NON-CALIFORNIA TYPE



After refueling, reinstall the fuel tank cap securely.

CALIFORNIA TYPE



After refueling, tighten the fuel tank cap until it clicks.

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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.

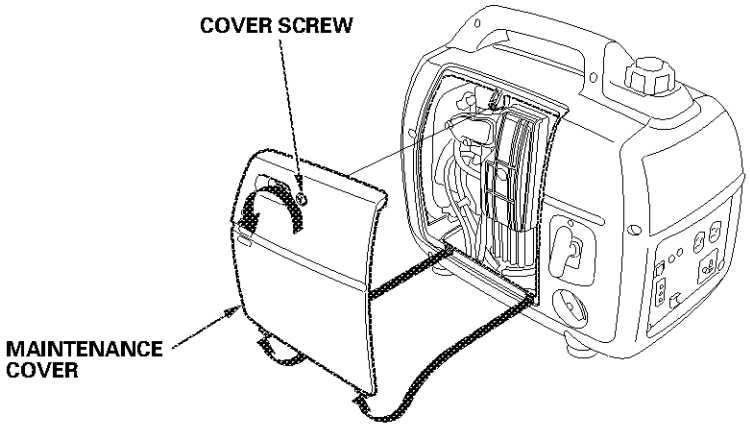
If your equipment will be used on an infrequent basis, please refer to the fuel section of the STORAGE chapter (see page 57) for additional information regarding fuel deterioration.

SERVICING YOUR GENERATOR

ENGINE OIL LEVEL CHECK

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

1. Loosen the cover screw and remove the maintenance cover.



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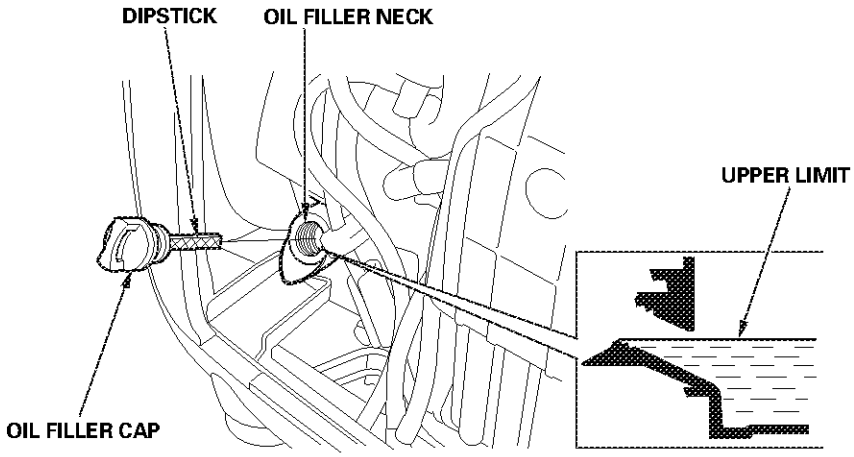
2. Remove the oil filler cap and wipe the dipstick clean.
3. Check the oil level by inserting the dipstick into the oil filler neck without screwing it in.
4. If the oil level is low, fill to the upper limit of the oil filler neck with the recommended oil.
5. Reinstall the maintenance cover and tighten the cover screw securely.



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.

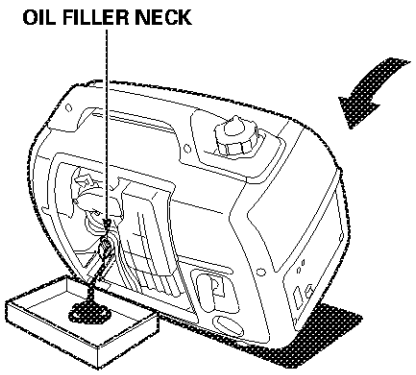
1. Turn the engine switch and fuel tank cap vent lever to the OFF position (see page 26) to reduce the possibility of fuel leakage.
2. Loosen the cover screw and remove the maintenance cover (see page 46).
3. Place a suitable container next to the engine to catch the used oil.
4. Remove the oil filler cap/dipstick, and drain the oil into the container by tipping the engine toward the oil filler neck.

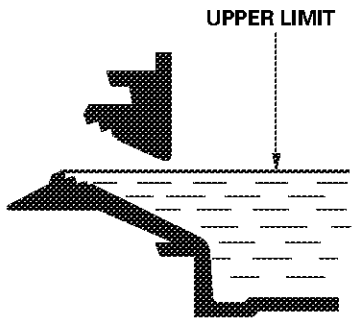
NOTICE

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.

5. With the engine in a level position, fill to the upper limit of the oil filler neck with the recommended oil (see page 49).
6. Reinstall the oil filler cap/dipstick securely.
7. Reinstall the maintenance cover and tighten the cover screw securely.

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





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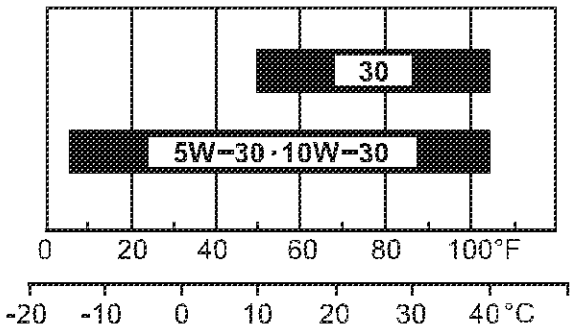
ENGINE OIL RECOMMENDATIONS

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.



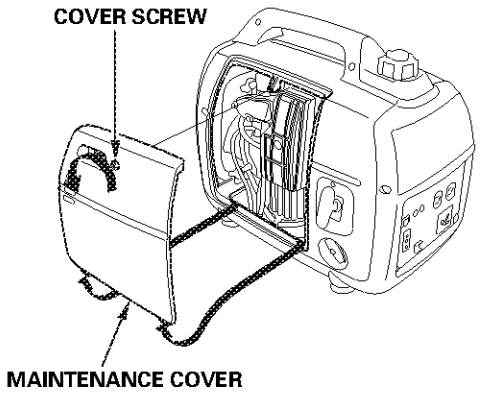
AMBIENT TEMPERATURE

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

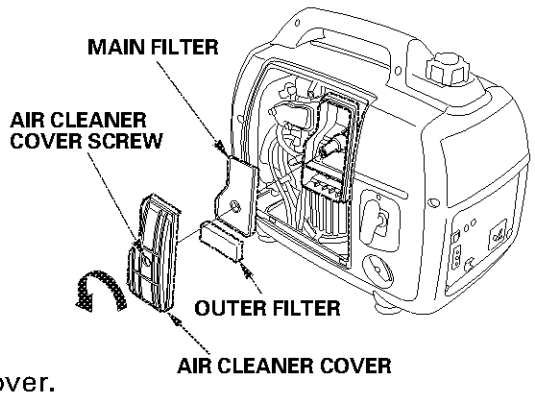
SERVICING YOUR GENERATOR

AIR CLEANER SERVICE

1. Loosen the cover screw and remove the maintenance cover.



2. Loosen the air cleaner cover screw, and remove the air cleaner cover.



3. Remove the main and outer filters from the air cleaner cover.

4. Check the main and outer filters to be sure they are clean and in good condition. If the main and outer filters are dirty, clean them as described on page 52 . Replace the main and outer filters if they are damaged.

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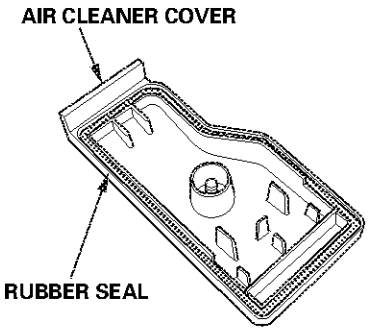
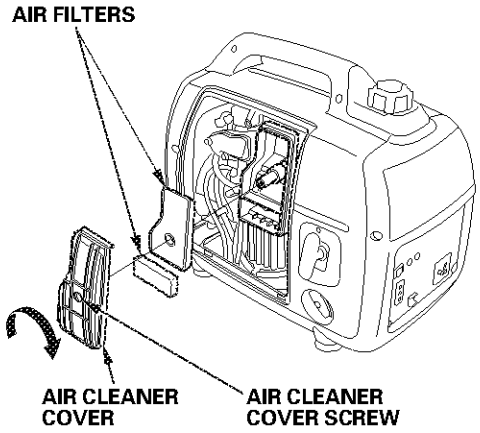
5. Reinstall the air filters.

6. Make sure that the rubber seal is set in the groove of the air cleaner cover.

7. Reinstall the air cleaner cover, and tighten the air cleaner cover screw.

8. Reinstall the maintenance cover, and tighten the cover screw securely.





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.

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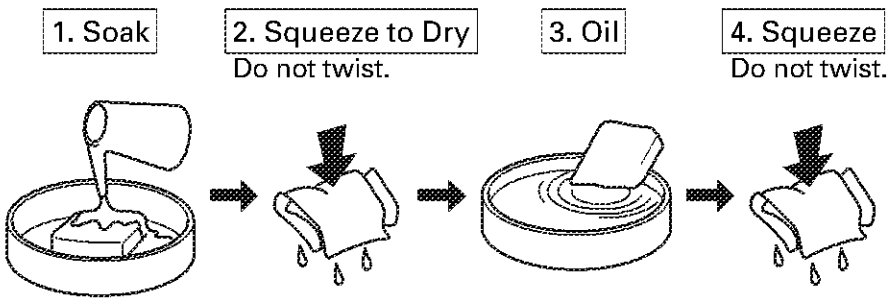
SERVICING YOUR GENERATOR

MAIN AND OUTER FILTER CLEANING

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

1. Wash the main and outer filters in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flash point solvent. Allow the air filters to dry thoroughly.

2. Soak the main and outer filters 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 air filters.



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.

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SPARK PLUG SERVICE

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

Recommended spark plug: CR5HSB (NGK)

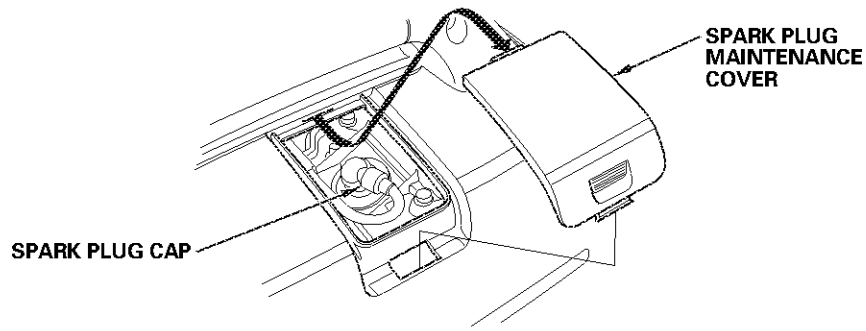
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

NOTICE

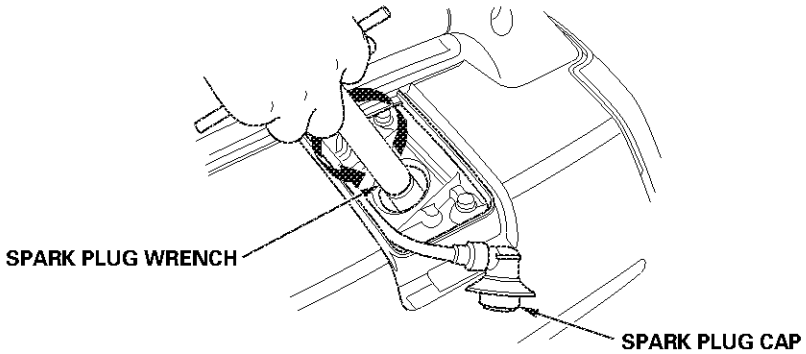
An incorrect spark plug can cause engine damage.

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

1. Remove the spark plug maintenance cover.

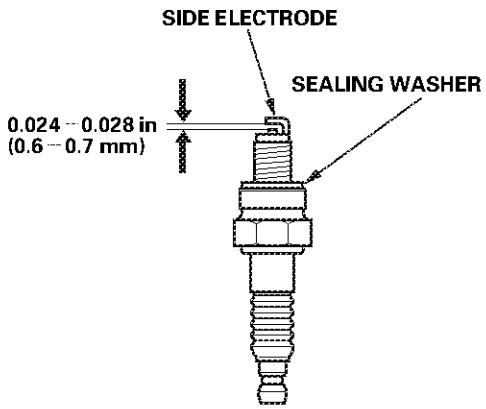


2. Remove the spark plug cap.
3. Clean any dirt from around the spark plug base.
4. Use a spark plug wrench to remove the spark plug.



SERVICING YOUR GENERATOR

5. Inspect the spark plug. Replace it if the electrodes are worn or if the insulator is cracked, chipped, or fouled.



6. 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:
   0.024 – 0.028 in (0.6 – 0.7 mm)

7. Make sure that the spark plug sealing washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.

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

   If reinstalling a used spark plug, tighten 1/8 – 1/4 turn after the spark plug seats.
   If installing a new spark plug, tighten 1/2 turn after the spark plug seats.

   NOTICE

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

9. Reinstall the spark plug cap on the spark plug securely.

10. Reinstall the spark plug maintenance cover.

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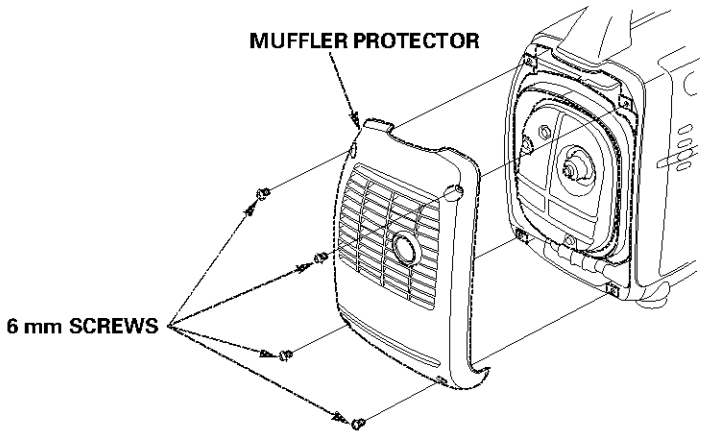
SPARK ARRESTER SERVICE

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

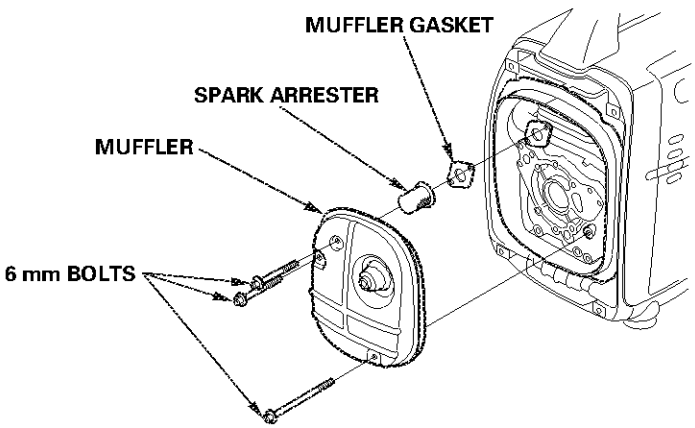
If the engine has been running, the muffler will be very hot. Allow the muffler to cool before servicing the spark arrester.

Clean the spark arrester as follows:

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

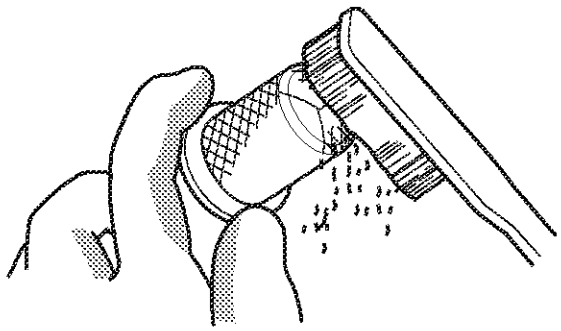


2. Remove the three 6 mm bolts, and remove the muffler, the spark arrester, and the muffler gasket.



SERVICING YOUR GENERATOR

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. Check the muffler gasket; replace if damaged.
   Reinstall the muffler gasket, the spark arrester, the muffler and the muffler protector in the reverse order of removal.

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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 (if applicable) and/or fuel tank.

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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 *. Turn the fuel valve OFF and drain the carburetor float bowl (p. 59).
1 year or more	Drain the fuel tank and carburetor (p. 60). Change the engine oil and lubricate the cylinder (p. 61).
*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.	

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Draining the Carburetor

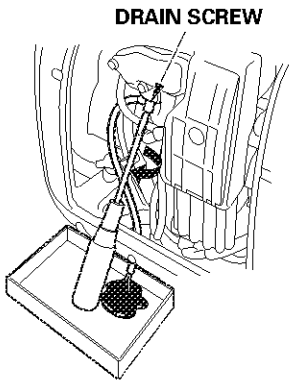
⚠ WARNING

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. Loosen the cover screw and remove the maintenance cover (see page 46).
2. Loosen the carburetor drain screw.
3. Drain the gasoline from the carburetor into a suitable container.
4. Tighten the carburetor drain screw.



STORAGE

Draining the Fuel Tank and Carburetor

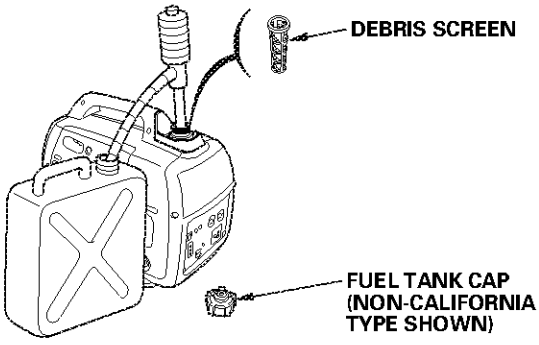
⚠ WARNING

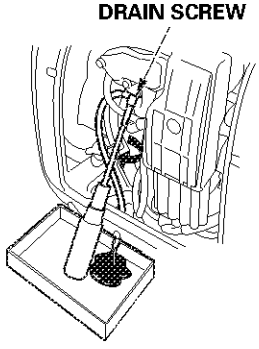
Gasoline is highly flammable and explosive.

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 (see page 44), remove the debris screen, 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 debris screen and the fuel tank cap.
2. Loosen the cover screw and remove the maintenance cover (see page 46).
3. Loosen the carburetor drain screw.
4. Drain the gasoline from the carburetor into a suitable container.
5. Remove the spark plug maintenance cover (see page 53).
6. Remove the spark plug cap.
7. Turn the engine switch to the ON position (see page 24).
8. Pull the starter grip (see page 25) 3 to 4 times to drain the gasoline from the fuel pump into a suitable container.
9. Turn the engine switch to the OFF position.
10. Tighten the carburetor drain screw.





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Engine Oil

1. Change the engine oil (see page 48).

2. Remove the spark plug (see page 53), and pour approximately one teaspoon (5-10 cc) of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.

3. Reinstall the spark plug cap on the spark plug securely.

4. Reinstall the spark plug maintenance cover.

5. Reinstall the maintenance cover and tighten the cover screw securely.

6. Pull the starter grip (see page 25) slowly until you feel resistance, then return the starter grip gently. This closes the valves so moisture cannot enter.

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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 engine switch in the OFF position, and the fuel tank cap vent lever in the OFF position (see page 26) to reduce the possibility of leakage.

Place the generator on a level surface. Tilting or laying it on its side 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 20).

If the fuel was drained during storage preparation, fill the tank 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.

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TRANSPORTING

NOTICE

Do not lay the generator on its side when moving, storing, or operating it. Oil 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.
To prevent fuel spillage when transporting, the generator should be secured upright in its normal operating position, with the engine switch OFF and the fuel tank cap vent lever turned fully counterclockwise to the OFF position (see page 26).
Take care not to drop or strike the generator when transporting. Do not place heavy objects on the generator.

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TAKING CARE OF UNEXPECTED PROBLEMS

ENGINE WILL NOT START

Possible Cause	Correction
Fuel tank cap vent lever OFF.	Turn lever ON (p. 23).
Engine switch OFF.	Turn engine switch to ON (p. 24).
Out of fuel.	Refuel (p. 43).
Bad fuel; generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (p. 60). Refuel with fresh gasoline (p. 43).
Low oil level caused Oil Alert to stop engine.	Add oil (p. 46). Turn engine switch to OFF and then restart the engine.
Spark plug faulty, fouled, or improperly gapped.	Gap or replace spark plug (p. 53).
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.

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ENGINE LACKS POWER

Possible cause	Correction
Air filter restricted.	Clean or replace air filter (p. 50).
Bad fuel; generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (p. 60). Refuel with fresh gasoline (p. 43).
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
Output indicator is OFF, and overload indicator is ON.	Check AC load. Stop and restart the engine.
	Check the cooling air inlet. Stop and restart the engine.
AC circuit protector tripped.	Check AC load and reset circuit protector (p. 16).
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.

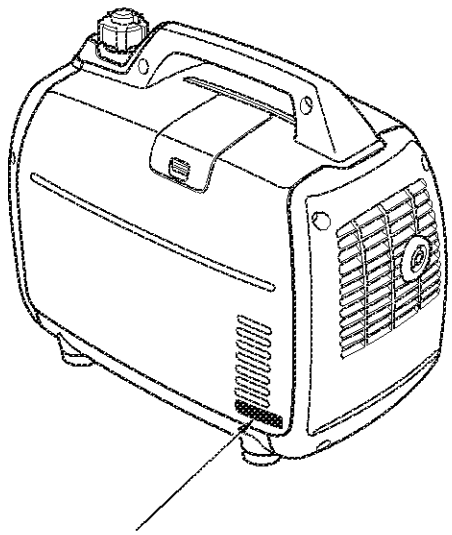
NO POWER AT THE DC RECEPTACLES

Possible Cause	Correction
DC circuit protector OFF.	Turn DC circuit protector ON (p. 35).
Faulty generator.	Take the generator to an authorized Honda servicing dealer, or refer to the shop manual.

TECHNICAL & CONSUMER INFORMATION

TECHNICAL INFORMATION

Serial Number Location



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

Frame serial number:_____

Date purchased:_____

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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.

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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 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 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 Honda engine emissions 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 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.

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TECHNICAL & CONSUMER 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 applicable 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 42. 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.

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Air Index
(Models certified for sale 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* (see page 77) 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)

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TECHNICAL & CONSUMER INFORMATION

Specifications

Dimensions

Model	EU2000i
Description code	EAAJ
Length	20.2 in (512 mm)
Width	11.4 in (290 mm)
Height	16.7 in (425 mm)
Dry mass [weight]	45.6 lbs (20.7 kg)

Engine

Model	GX100
Engine type	4-stroke, overhead camshaft, single cylinder
Displacement 〔Bore × Stroke〕	6.01 cu-in (98.5 cm^3) 〔2.20 × 1.57 in (56.0 × 40.0 mm)〕
Compression ratio	8.5:1
Engine speed	4,300−5,000 rpm (with Eco-Throttle switch OFF)
Cooling system	Forced air
Ignition system	Full transistor
Oil capacity	0.42 US qt (0.40 L)
Fuel tank capacity	0.95 US gal (3.6 L)
Spark plug	CR5HSB (NGK)

Generator

Model		EU2000i
Type		California type (AC, AC2 type) Non-California type (AN, AN2 type)
AC output	Rated voltage	120 V
	Rated frequency	60 Hz
	Rated current	13.3 A
	Rated output	1.6 kVA
	Maximum output	2.0 kVA
DC output		Only for charging 12 V automotive batteries. Maximum changing output = 8 A

Tuneup Specifications

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.024 – 0.028 in (0.6 – 0.7 mm)	Refer to page 53
Valve clearance (cold)	IN: 0.15 ± 0.04 mm EX: 0.20 ± 0.04 mm	See your authorized Honda dealer.
Other specifications	No other adjustments needed.	

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

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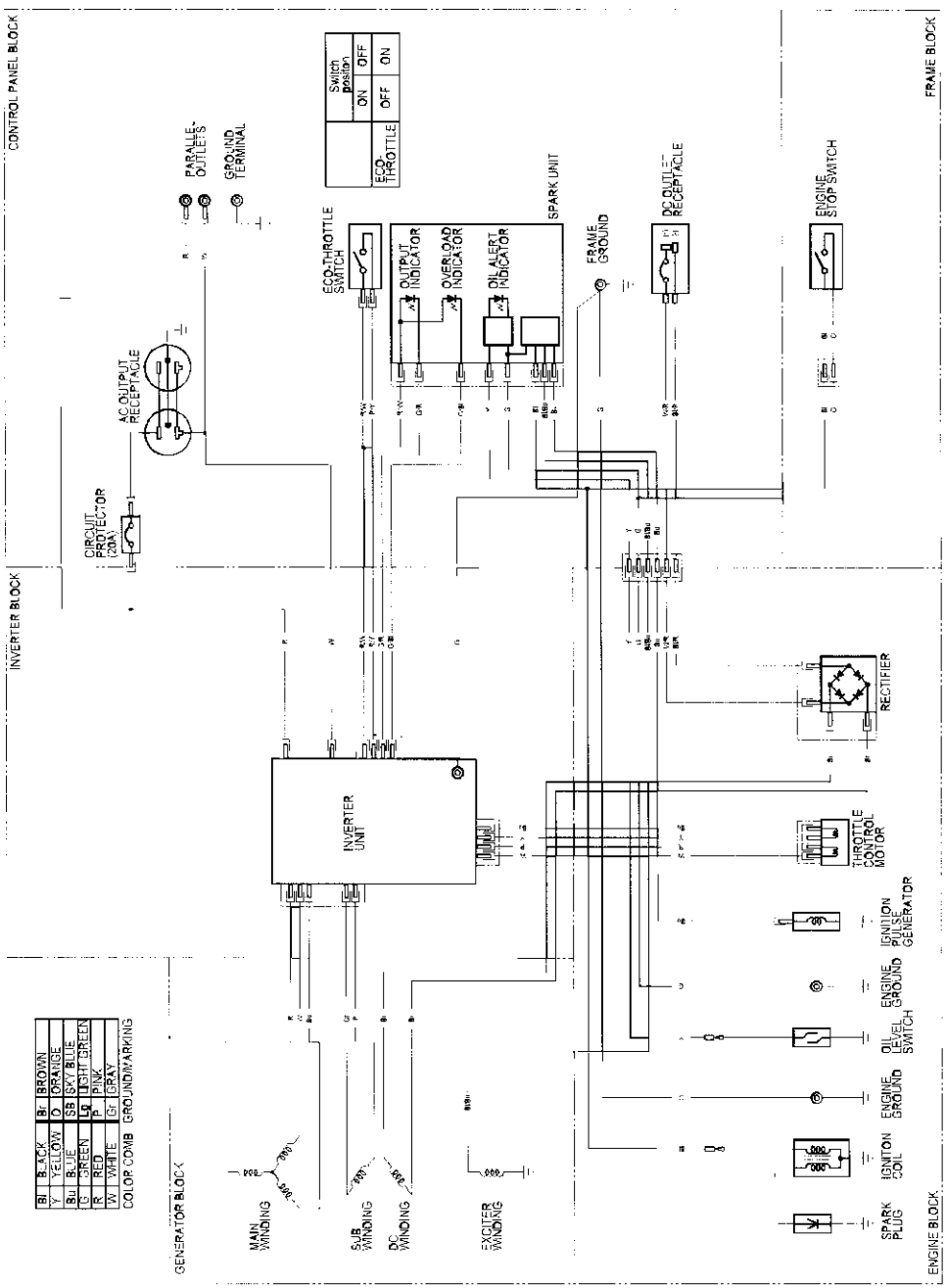
Wiring Diagram



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TECHNICAL & CONSUMER INFORMATION

CONSUMER INFORMATION

Dealer Locator Information

To find an authorized Honda Servicing Dealer anywhere in the United States:
Call (800) 426-7701 or visit our web site:
www.hondapowerequipment.com/dealerlocator/

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 through Helm Inc. at 1 (888) 292-5395 or visit www.hondapowerequipment.com/productmanuals

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 www.hondapowerequipment.com/products/accessories/ and click on Generators and Welders to see the entire catalog of accessories.

Especially popular accessories include:
- Parallel operation kit (EU2000i and EU2000i)
- Parallel operation cables kit (EU2000i and EU2000i Companion)
- Parallel cable set with RV adapter
- RV adapter
- Generator cover
- DC charging Cord
- Hourmeter

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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 67)
- 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

TECHNICAL & CONSUMER INFORMATION

Distributor's Limited Warranty

PRODUCTS COVERED BY THIS WARRANTY	LENGTH OF WARRANTY (1) (from date of original retail purchase)	
EU series generators	Private Residential (2)	Commercial/ Rental/Institutional
	36 months	36 months
Parts & Accessories.	See your authorized Honda servicing dealer for details	

(1) This warranty applies to products purchased at retail or placed in rental service on or after January 1, 2009.

(2) Private residential: Used in maintaining owner's primary and/or secondary residence. Any other use, including but not limited to informal "for hire" use, is considered commercial/rental/ institutional use.

To Qualify for this Warranty:

The product must be purchased in the United States, Puerto Rico, or the U.S. Virgin Islands from American Honda or a dealer authorized by American Honda to sell those products. This warranty applies to the first retail purchaser and each subsequent owner during the applicable warranty time period.

What American Honda will Repair or Replace Under Warranty:

American Honda will repair or replace, at its option, any part that is proven to be defective in material or workmanship under normal use during the applicable warranty time period. Warranty repairs and replacements will be made without charge for parts or labor. Anything replaced under warranty becomes the property of American Honda Motor Company, Inc. All parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original product warranty.

To Obtain Warranty Service:

You must take the Honda generator and proof of original retail purchase date, at your expense, to any Honda Power Equipment dealer in the United States, Puerto Rico, or the U.S. Virgin Islands who is authorized to service that product, during the dealer's normal business hours. If you are unable to obtain warranty service, or are dissatisfied with the warranty service you receive, take the following steps: First, contact the owner of the dealership involved; normally this should resolve the problem. However, if you should require further assistance, write or call the Power Equipment Customer Relations Department of American Honda Motor Co., Inc. Refer to page 75 for contact information.

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Exclusions:
This warranty does not extend to parts affected or damaged by accident and/or collision, normal wear, fuel contamination, use in an application for which the product was not designed, or any other misuse, neglect, incorporation or use of unsuitable attachments or parts, unauthorized alteration, or any causes other than defects in material or workmanship of the product.
Any product that has ever been declared a total loss or sold for salvage by a financial institution or insurer.

Disclaimer of Consequential Damage and Limitation of Implied Warranties:
American Honda disclaims any responsibility for loss of time or use of the product, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Emission Control System Warranty
Your new Honda Power Equipment engine complies with the U.S. EPA, Environment Canada, and State of California emission regulations (models certified for sale in California only). American Honda Motor Co., Inc. provides the emission warranty coverage for engines in the United States, and its territories. Honda Canada Inc. provides the emission warranty for engines in the 13 provinces and territories of Canada. In the remainder of this Emission Control System Warranty, American Honda Motor Company Inc. and Honda Canada Inc. will be referred to as Honda.

Your Warranty Rights And Obligations:
California
The California Air Resources Board and Honda are pleased to explain the emission control system warranty on your Honda Power Equipment engine. In California, new spark-ignited small off-road equipment engines must be designed, built, and equipped to meet the State's stringent anti-smog standards.

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Other States, U.S. territories, and Canada
In other areas of the United States and in Canada, your engine must be designed, built, and equipped to meet the U.S. EPA and Environment Canada emission standards for spark-ignited engines at or below 19 kilowatts. Specific Honda products that do not meet the California emissions regulations can be identified by a "Not for Sale in California" decal.

All of the United States and Canada
Honda must warrant the emission control system on your power equipment engine for the period of time listed below, provided there has been no abuse, neglect, or improper maintenance of your power equipment engine. Where a warrantable condition exists, Honda will repair your power equipment engine at no cost to you including diagnosis, parts, and labor.

Your emission control system may include such parts as the carburetor or fuel injection system, the ignition system, and catalytic converter. Also included may be hoses, connectors, and other emission-related assemblies (see page 81for additional covered parts).

Owner's Warranty Responsibility:
As the power equipment engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Honda recommends that you retain all receipts covering maintenance on your power equipment engine, but Honda cannot deny warranty coverage solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the power equipment engine owner, you should however be aware Honda may deny you warranty coverage if your power equipment engine or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

You are responsible for presenting your power equipment engine to a Honda Power Equipment dealer as soon as a problem exists. The emission related warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

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If you have any questions regarding your emission warranty rights and responsibilities, you should contact the Honda Office in your region:

American Honda Motor Co., Inc.
Power Equipment Customer Relations
4900 Marconi Drive
Alpharetta, Georgia 30005-8847
Telephone: (888) 888-3139
Email:
powerequipmentemissions@ahm.honda.com

or

Honda Canada Inc.
Power Equipment Customer Relations
Visit www.honda.ca for contact information.
Telephone: (888) 946-6329

Warranty Coverage:

Honda power equipment engines sold in the United States and Canada are covered by this warranty for a period of two years from the date of delivery to the original retail purchaser or the length of the *Honda Distributor's Limited Warranty*, whichever is longer. This warranty is transferable to each subsequent purchaser for the duration of the warranty period.

If any emission-related part on your engine is defective, the part will be repaired or replaced by Honda without charge for diagnosis, parts, or labor. All defective parts replaced under this warranty become the property of Honda. A list of warranted parts is on page 81. Normal maintenance items, such as spark plugs and filters, that are on the warranted parts list are warranted up to their required replacement interval only.

Honda will also replace other engine components damaged by a failure of any warranted part during the warranty period.

Only Honda approved replacement parts may be used in the performance of any warranty repairs and must be provided without charge to the owner. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your engine emission control system. If such a replacement part is used in the repair or maintenance of your engine, and an authorized Honda dealer determines it is defective or causes a failure of a warranted part, your claim for repair of your engine may be denied. If the part in question is not related to the reason your engine requires repair, your claim will not be denied.

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TECHNICAL & CONSUMER INFORMATION

To Obtain Warranty Service:
You must, at your own expense, take your Honda Power Equipment engine or the product on which it is installed, along with your sales registration card or other proof of original purchase date, to any Honda Power Equipment dealer who is authorized by Honda to sell and service that Honda product during his normal business hours. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you are unable to obtain warranty service or are dissatisfied with the warranty service you received, contact the owner of the dealership involved. Normally this should resolve your problem. However, if you require further assistance, contact the Honda office in your region.

American Honda Motor Co., Inc.
Power Equipment Customer Relations
4900 Marconi Drive
Alpharetta, Georgia 30005-8847
Telephone: (888) 888-3139
Email:
powerequipmentemissions@ahm.honda.com

or

Honda Canada Inc.
Power Equipment Customer Relations
Visit www.honda.ca
for contact information.
Telephone: (888) 946-6329

Exclusions:
Failures other than those resulting from defects in material or workmanship are not covered by this warranty. This warranty does not extend to emission control systems or parts that are affected or damaged by owner abuse, neglect, improper maintenance, misuse, misfueling, improper storage, collision, the incorporation of, or use of, unsuitable attachments, or the unauthorized alteration of any part.

This warranty does not cover replacement of expendable maintenance items made in connection with required maintenance services after the item's first scheduled replacement as listed in the maintenance section of the product owner's manual, such as: spark plugs and filters.

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Disclaimer of Consequential Damage and Limitation of Implied Warranties:
American Honda Motor Co., Inc. and Honda Canada Inc. disclaim any responsibility for incidental or consequential damages such as loss of time or the use of the power equipment, or any commercial loss due to the failure of the equipment; and any implied warranties are limited to the duration of this written warranty. This warranty is applicable only where the California, U.S. EPA, or environment Canada emission control system warranty regulation is in effect.

Emission Control System Warranty Parts:

SYSTEMS COVERED BY THIS WARRANTY:	PARTS DESCRIPTION:
Fuel Metering	Carburetor assembly, (includes starting enrichment system), Engine temperature sensor, Engine control module, Fuel regulator, Intake manifold
Evaporative	Fuel tank, Fuel cap, Fuel hoses, Vapor hoses, Carbon canister, Canister mounting brackets, Fuel strainer, Fuel cock, Fuel pump, Fuel hose joint, Canister purge hose joint
Exhaust	Catalyst, Exhaust manifold
Air Induction	Air filter housing, Air filter element*
Ignition	Flywheel magneto, Ignition pulse generator, Crankshaft position sensor, Power coil, Ignition coil assembly, Ignition control module, Spark plug cap, Spark plug*
Crankcase Emission Control	Crankcase breather tube, oil filler cap
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems.

Note: This list applies to parts supplied by Honda and does not cover parts supplied by the equipment manufacturer. Please see the original equipment manufacturer's emissions warranty for non-Honda parts.

* Covered up to the first required replacement only.
See the Maintenance Schedule on page 42.

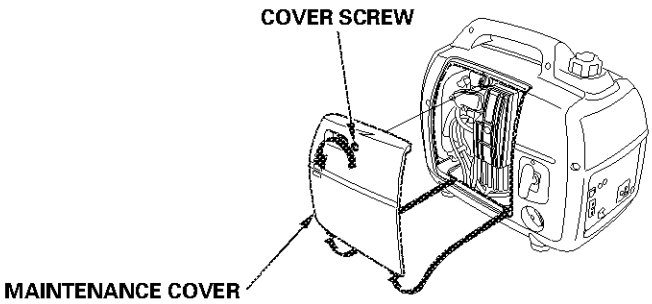
INITIAL USE INSTRUCTIONS

ENGINE OIL

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

1. Place the generator on a level surface.

2. Loosen the cover screw and remove the maintenance cover.

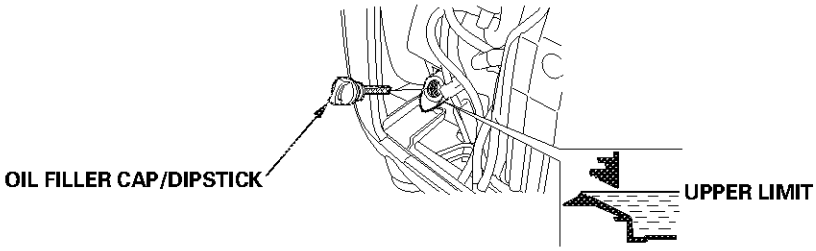


3. With the generator in a level position, remove the oil filler cap/dipstick.

4. Add enough SAE 10W-30 API service category SJ or later (or equivalent) oil to bring the oil level to the upper limit of the oil filler neck. SAE 10W-30 oil is recommended for general use; for additional recommendations, see page 49.

   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. Screw in the oil filler cap/dipstick securely.



6. Reinstall the maintenance cover.

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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 45 for additional fuel recommendations.

⚠ WARNING

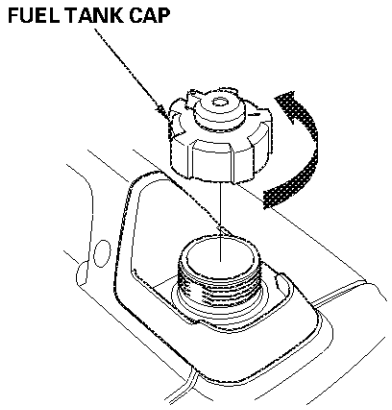
Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

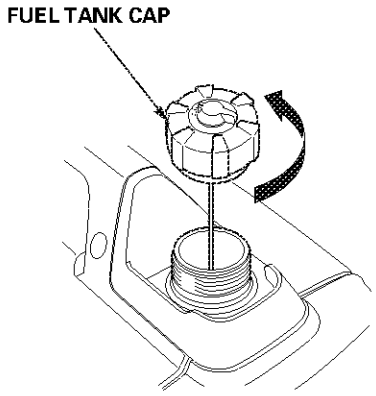
- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

1. Remove the fuel tank cap.

NON-CALIFORNIA TYPE



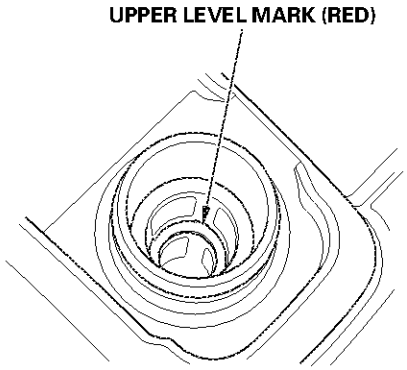
CALIFORNIA TYPE



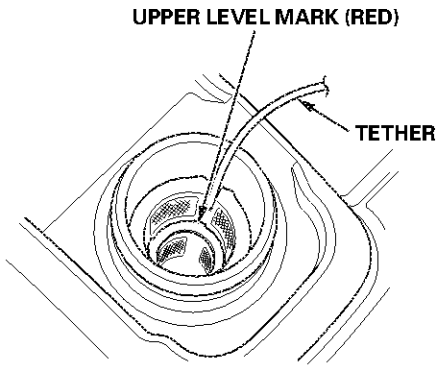
INITIAL USE INSTRUCTIONS

2. Fuel carefully to avoid spilling fuel. Do not fill the fuel tank above the upper level mark (red) on the fuel strainer.

NON-CALIFORNIA TYPE



CALIFORNIA TYPE



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.

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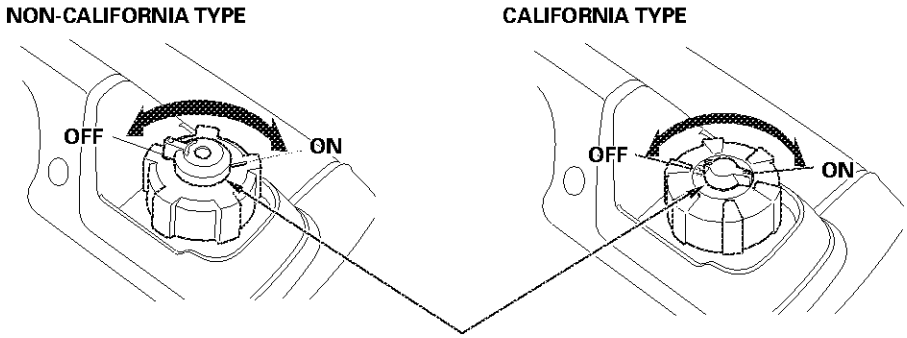
3. After refueling, tighten the fuel tank cap securely (for Non-California types) or until it clicks (for California types). Keep the fuel tank cap vent lever OFF for storage or transport, and ON to run the generator.



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

After initial fueling (or anytime the generator is run completely out of fuel), starting the engine may require additional pulls of the starter grip. This generator utilizes a vacuum operated fuel pump and may require additional pulls to draw fuel into the carburetor.

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INITIAL USE INSTRUCTIONS

BEFORE OPERATION

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

- **GENERATOR SAFETY** (pages 6 — 10)
- **CONTROLS & FEATURES** (pages 11 — 19)
- **BEFORE OPERATION** (pages 20 — 21)
- **OPERATION** (page 22)
- **STARTING THE ENGINE** (pages 23 — 25)
- **STOPPING THE ENGINE** (pages 26 — 27)
- **MAINTENANCE SCHEDULE** (page 42)

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, www.hondapowerequipment.com and selecting Product Registration. Your information will remain confidential. It will not be released to any other company or organization.

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MEMO

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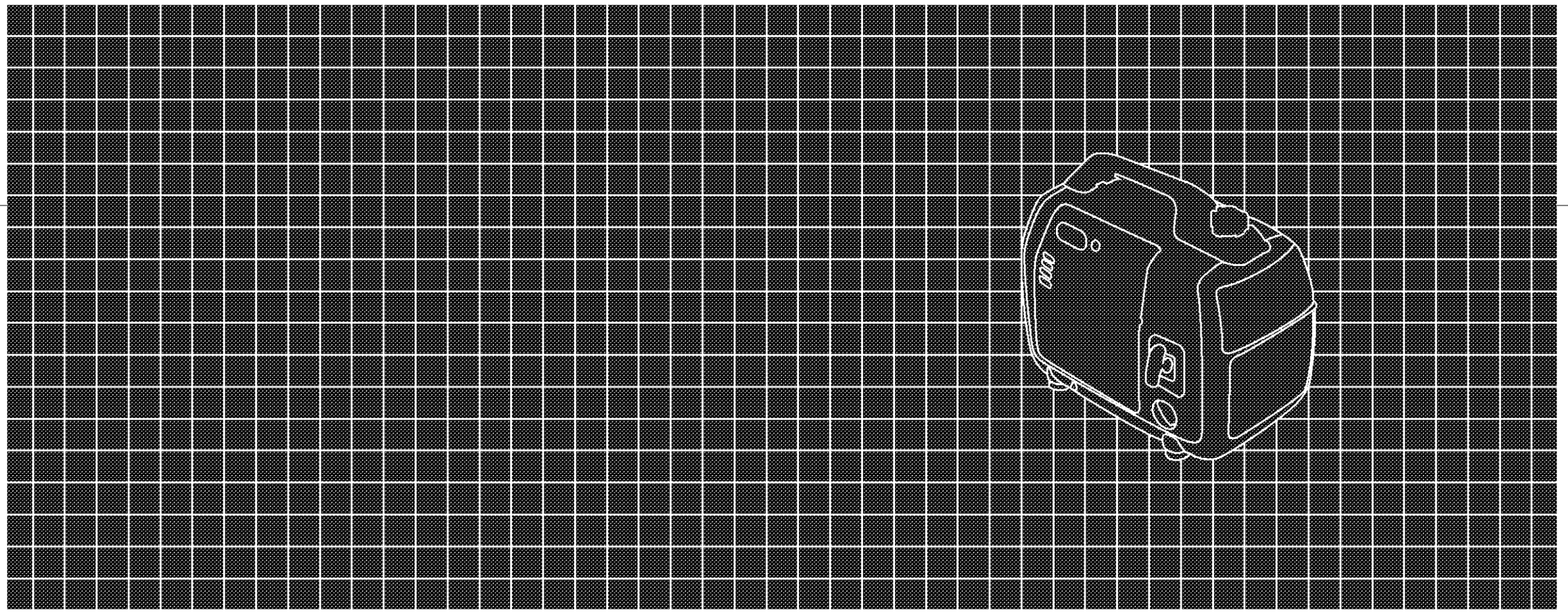
QUICK REFERENCE INFORMATION

Fuel	Type	Regular unleaded gasoline with a pump octane rating of 86 or higher
Engine Oil	Type	SAE 10W-30, API SJ or later (or equivalent), for general use (page 49)
Spark Plug	Type Electrode Gap	NGK: CR5HSB 0.024—0.028 in (0.6—0.7 mm)
Maintenance	Before each use	Check engine oil level. Check air filter.
	First 20 hours	Change engine oil.
	Subsequent	See Maintenance Schedule (page 42)

HONDA
Power
Equipment

HONDA
The Power of Dreams

Owner's Manual
GENERATOR
EU2000i



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See page 82 for Initial Use Instructions