

HONDA

Power

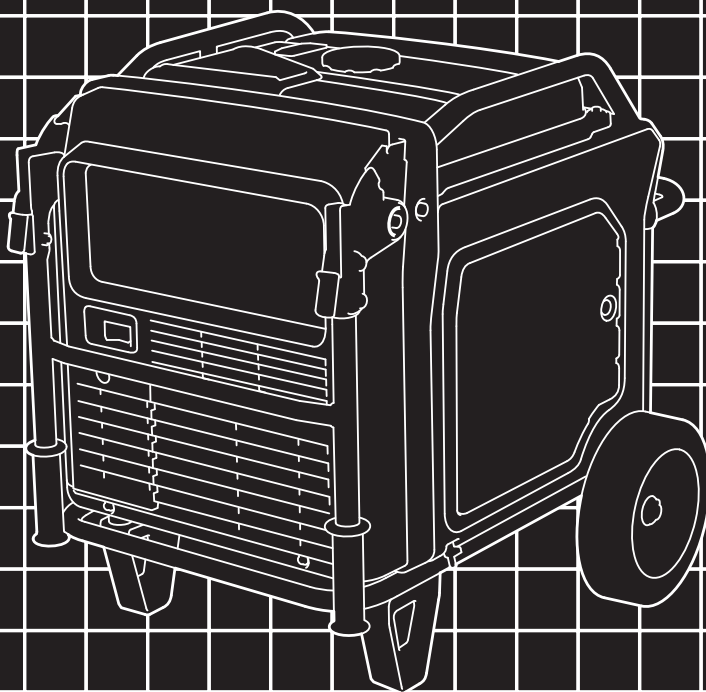
Equipment

Owner's Manual

GENERATOR

EU7000is

[Click to Save As](#)



*See page 83 for instructions
on assembling your generator.*



WARNING:



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

⚠ 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.

INTRODUCTION

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

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

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

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

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

Best Wishes,
Honda Motor Co., Ltd.

A FEW WORDS ABOUT SAFETY

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

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

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

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

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

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

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 kit (optional equipment) when connecting one EU7000is to another EU7000is 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.

GENERATOR SAFETY

Refuel With Care

Gasoline is extremely flammable, and gasoline vapor can explode.

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

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

Do not refuel during operation.

Do not overfill the fuel tank.

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

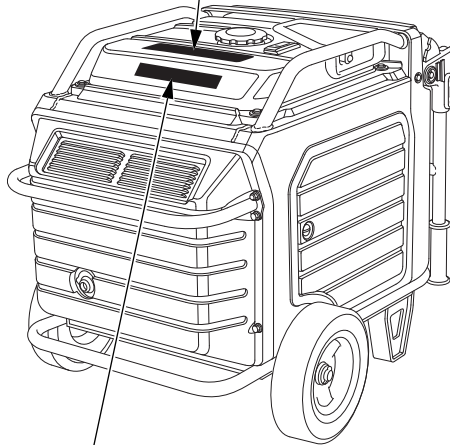
Always store gasoline in an approved container.

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

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.

⚠ DANGER	⚠ WARNING	⚠ WARNING
Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell. NEVER use inside a home or garage, EVEN IF doors and windows are open. Only use OUTSIDE and far away from windows, doors, and vents.	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. 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.	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.

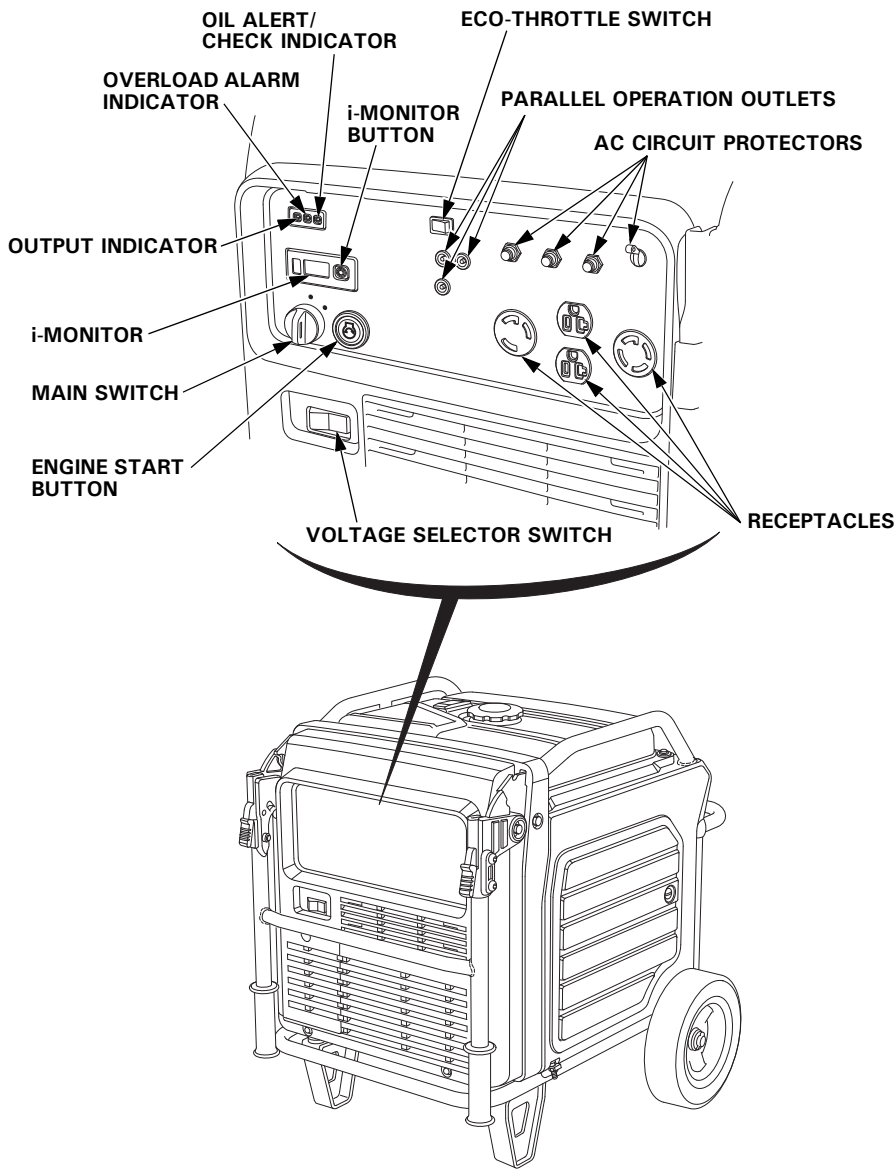


⚠ WARNING	⚠ CAUTION
Operation of This Equipment May Create Sparks That Can Start Fires Around Dry Vegetation. A Spark Arrestor May be Required. The Operator Should Contact Local Fire Agencies For Laws or Regulations Relating to Fire Prevention Requirements. Per California Public Resources Code 4442.6	A hot exhaust system can cause serious burns. ■ Avoid contact if the engine has been running.

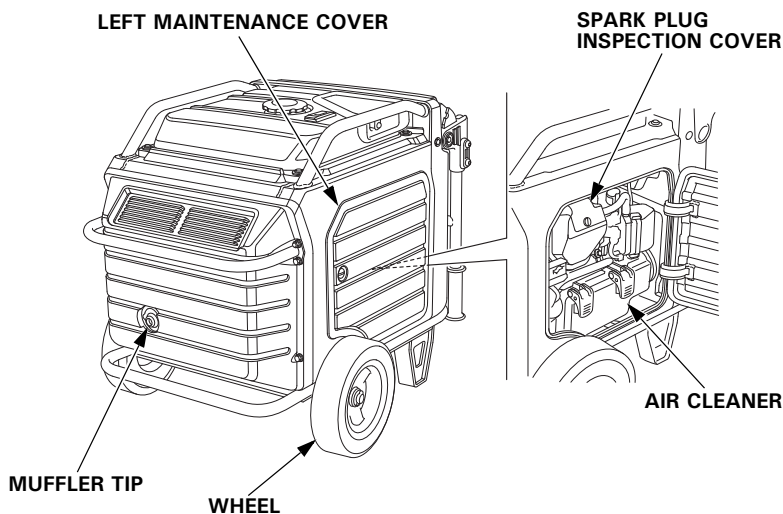
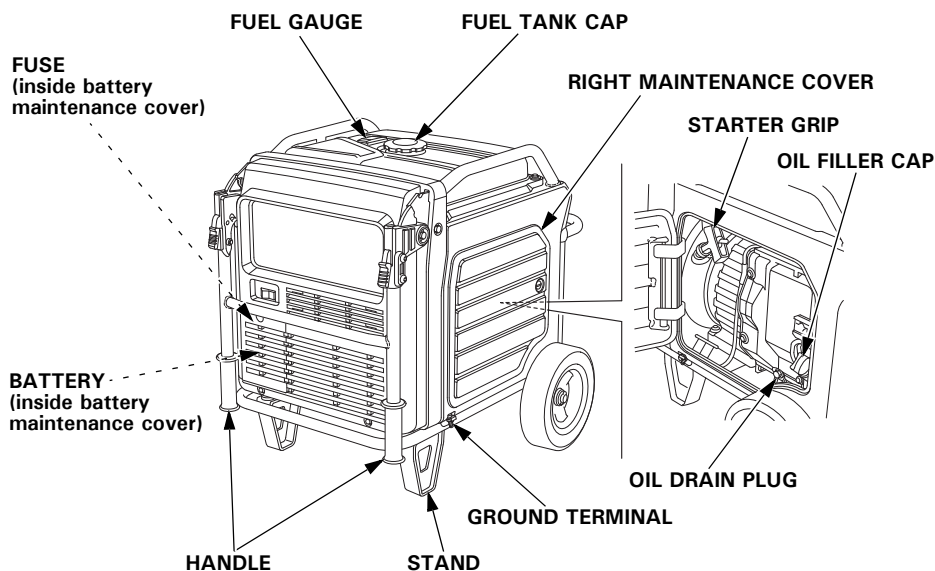
CONTROLS & FEATURES

COMPONENT & CONTROL LOCATIONS

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



CONTROL & FEATURES



CONTROL & FEATURES

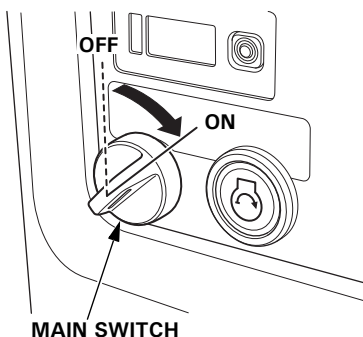
CONTROLS

MAIN Switch

The MAIN switch controls the ignition system.

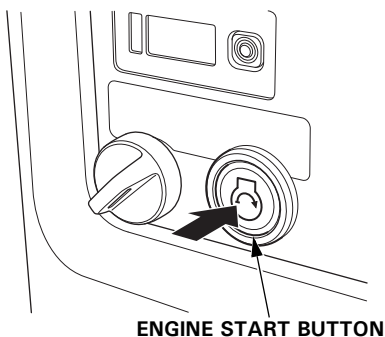
OFF – Stops the engine. The main switch key can be removed/inserted.

ON – Running position, and for starting with the **ENGINE START** button or recoil starter, and for using the remote control kit (optional parts).



ENGINE START Button

With the MAIN switch in the ON position, press and release the **ENGINE START** button to start the engine.

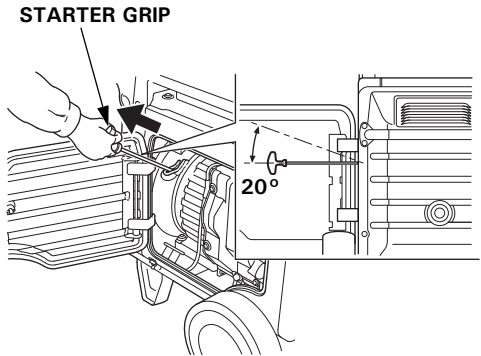


Starter Grip

Used when the battery voltage is too low to turn the starter motor. Pulling the starter grip operates the recoil starter to start the engine.

NOTICE

- *Do not exceed 20 degrees from horizontal when pulling the starter grip.*
- *Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.*
- *Do not let the starter rope rub against the generator body, or the rope will wear out prematurely.*



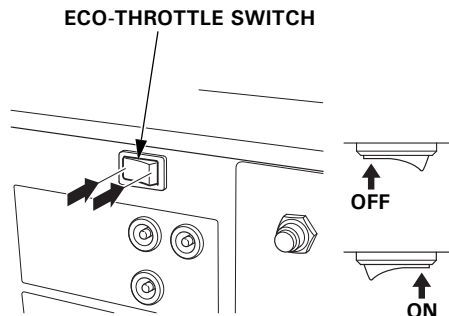
Eco-Throttle™ Switch

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

ON – Recommended to minimize fuel consumption and further reduce noise levels when a reduced load or no load is applied to the generator.

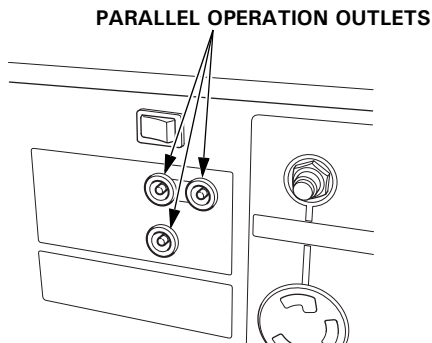
OFF – The Eco-Throttle system does not operate. Generator operates at full speed.



CONTROL & FEATURES

Parallel Operation Outlets

These outlets are used for connecting the EU7000i to another EU7000i generator for parallel operation (see page 39). A Honda approved parallel kit (optional equipment) is required for parallel operation. This kit can be purchased from an authorized Honda generator dealer.



Voltage Selector Switch

Select the voltage before starting the engine.

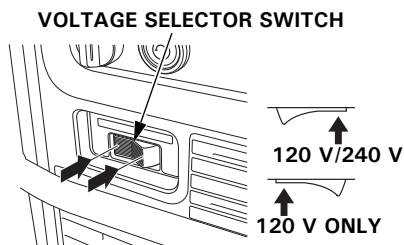
Always disconnect or turn OFF all appliances or tools connected to the generator before changing the voltage selector switch position.

The voltage selector switch changes generator output to produce "120 V ONLY" or "120/240 V". If a 240 V appliance is connected to the 4-prong receptacle, the switch must be in the "120/240 V" position. If only the 120 V 3-prong receptacles are being used, select the "120 V ONLY" position.

Switch Position

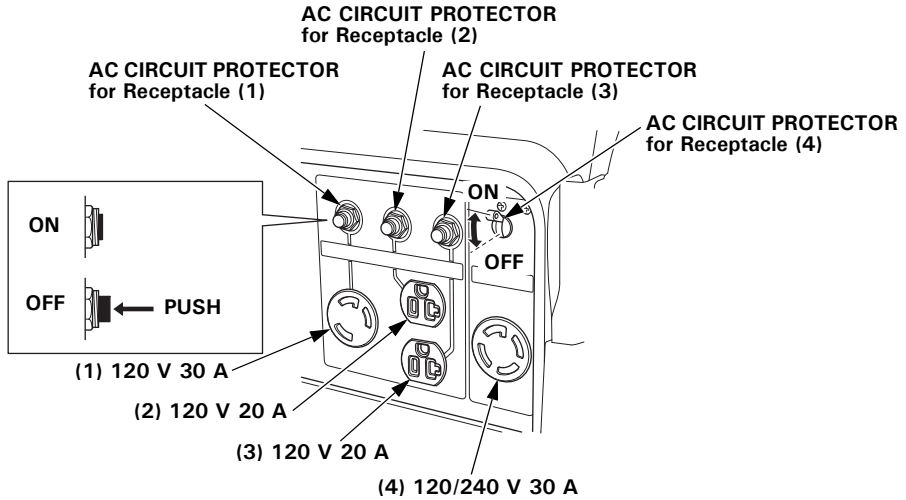
120/240 V: The 120 V and 120 V/240 V receptacles can be used simultaneously.

120 V ONLY: ONLY the 120 V receptacles can be used. Do not use the 120 V/240 V receptacle in this position. The most power will be available at the 30 A 120 V locking plug receptacle.



AC Circuit Protectors

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



CONTROL & FEATURES

Folding Handle

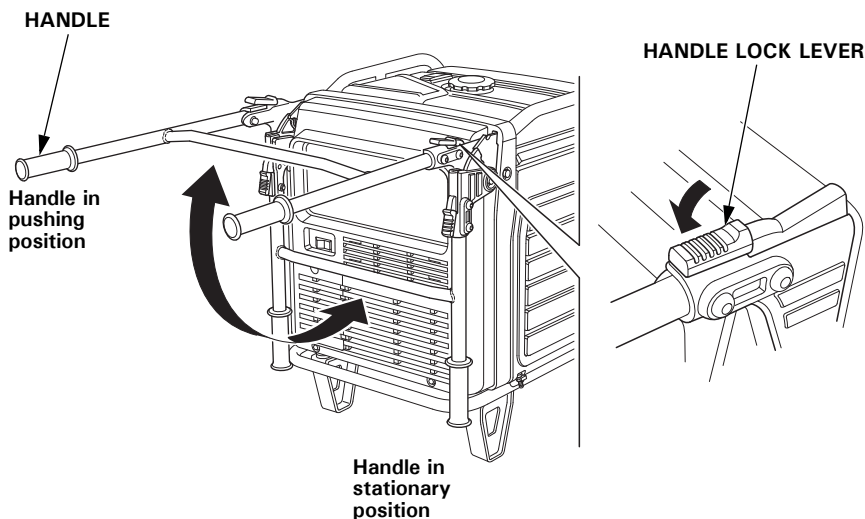
The foldable handle makes the generator easy to push and should be folded when the generator is stationary. Do not rest objects on the extended handle.

To Extend The Handle

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

To Fold The Handle

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



Maintenance Covers

Open and close the maintenance cover for maintenance of the EU7000is.

Open the maintenance cover, too, to use the recoil starter when the battery is discharged. Be sure the maintenance cover is closed while the generator is running.

NOTICE

Running the generator with maintenance cover(s) open will adversely affect the engine performance, and will cause the generator to overheat.

Open the right maintenance cover for:

- Engine oil inspection/replacement

Open the left maintenance cover for:

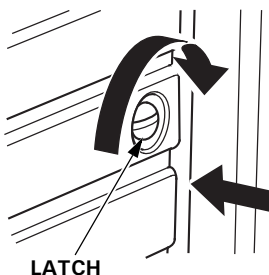
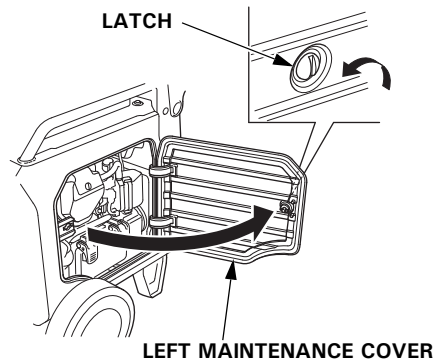
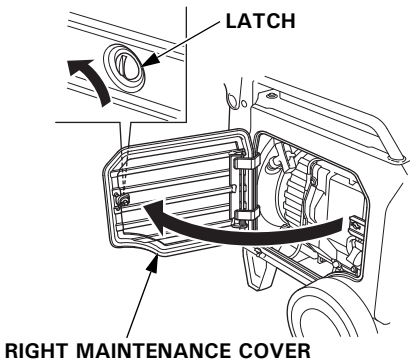
- Spark plug inspection/replacement
- Air cleaner inspection/cleaning

To open:

Turn the latch 90° counterclockwise to unlock and open the maintenance cover.

To close:

Turn the latch 90° clockwise to lock while pushing the cover.



Push the cover closed and turn the latch.

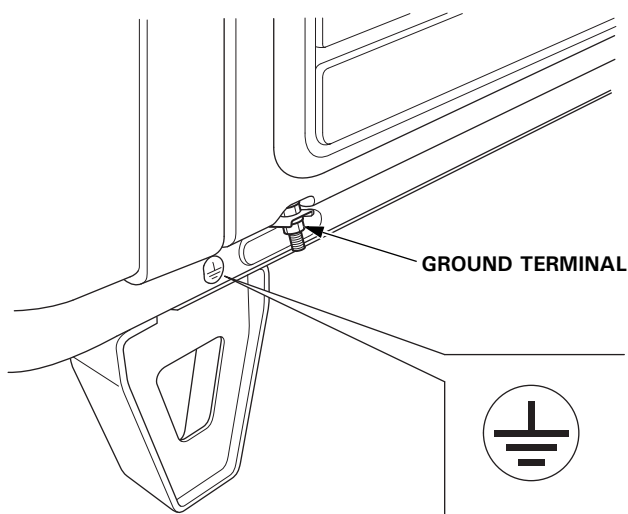
CONTROL & FEATURES

FEATURES

Ground Terminal

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

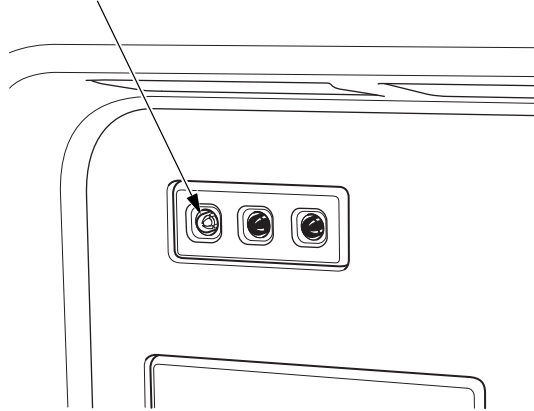
Before using the ground terminal, consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.



OUTPUT Indicator

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

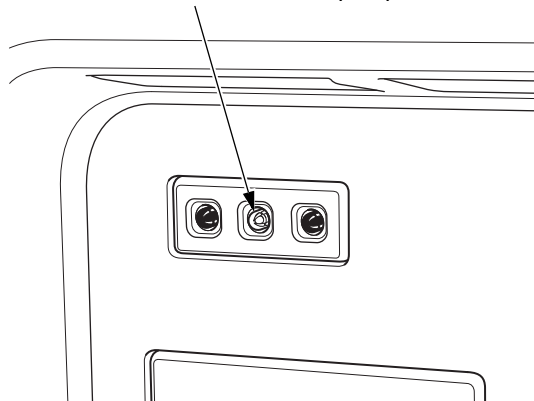
OUTPUT INDICATOR (GREEN)



OVERLOAD ALARM Indicator

If the generator is overloaded, or if there is a short circuit in a connected appliance, or if the inverter is overheated, the red OVERLOAD ALARM indicator will go ON. When the generator is operating overloaded, the red OVERLOAD ALARM indicator will stay ON and, after about five seconds, current to the connected appliance(s) will shut off, and the green OUTPUT indicator will go OFF.

OVERLOAD ALARM INDICATOR (RED)



CONTROL & FEATURES

OIL ALERT®/CHECK Indicator

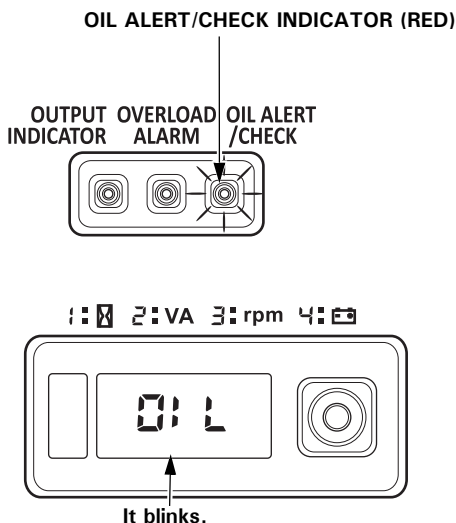
The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the OIL ALERT/CHECK indicator comes ON, and the Oil Alert system will automatically stop the engine (the MAIN switch will remain in the ON position).

The i-Monitor display will show “OIL” on the screen and the OIL ALERT/CHECK indicator will illuminate.

If the engine stops or the OIL ALERT/CHECK indicator comes ON when you press the ENGINE START button or pull the starter grip, check the engine oil level (see page 51) before troubleshooting in other areas.

Even when oil is added to the engine, the generator will not restart until the OIL ALERT/CHECK indicator is reset. To reset the OIL ALERT/CHECK indicator, turn the MAIN switch to the OFF position, add the proper amount of oil (see page 51), and then turn the MAIN switch back to the ON position.

If the OIL ALERT/CHECK indicator blinks, consult an authorized Honda generator dealer.



i-Monitor™

The i-Monitor is a user interface that allows the operator to view (when the generator is running) total operating time in hours, generator output, engine RPM, battery voltage, and error messages. The different display modes are selected by pressing the i-Monitor button.

i-Monitor at Startup

During start up, the i-Monitor display and all three indicators will simultaneously blink once. The condition of the i-Monitor display and all three indicators can be checked. Once the generator is running, the green OUTPUT indicator and the i-Monitor display will remain lit.

Display Backlight Flashes

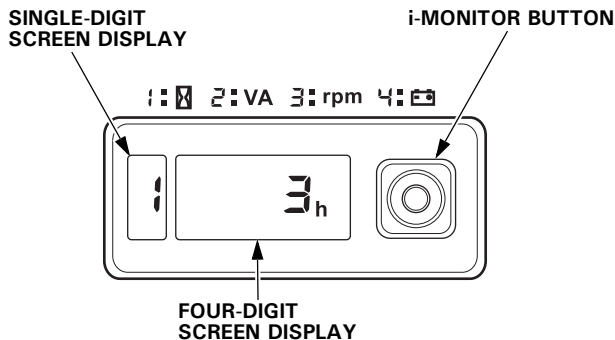
If the key is left in the ON position for over 30 seconds without starting the engine, the display will start to flash.

i-Monitor Display

The i-Monitor display is divided into two screens. The single-digit screen displays the i-Monitor mode, which is represented by a number 1 through 4. The four-digit screen displays the four mode values or any activated error messages.

i-Monitor Display Mode 1 – Total Operating Hours

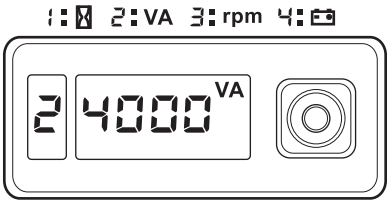
This mode displays the total operating hours of the generator. When the generator is running, the total operating time accumulates. If the total operating time is less than one hour, the numeric display will be "0." When the operating time is one hour or greater, the display will be "1" or "2" and so on. Base the generator's maintenance schedule on the accumulated time displayed.



CONTROL & FEATURES

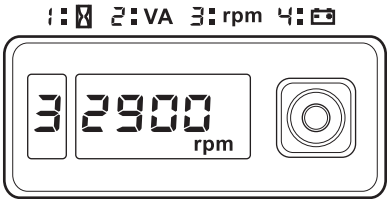
i-Monitor Display Mode 2 – Power Output

This mode displays an approximate generator output on the display screen. The output is expressed in VA (volt-amperes). The output value is not an exact measurement and should be regarded as a reference only. Power output will not display until a load is connected to the generator.



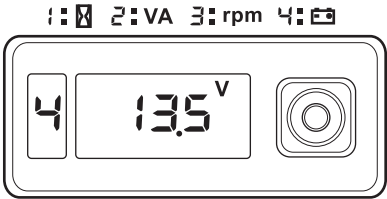
i-Monitor Display Mode 3 – Engine RPM

When the i-Monitor is in this mode, the engine’s speed, expressed in revolutions-per-minute (RPM), is displayed.



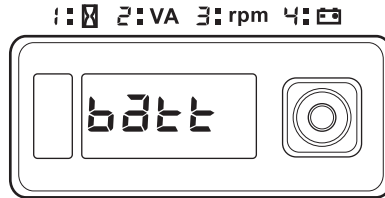
i-Monitor Display Mode 4 – Battery Voltage

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



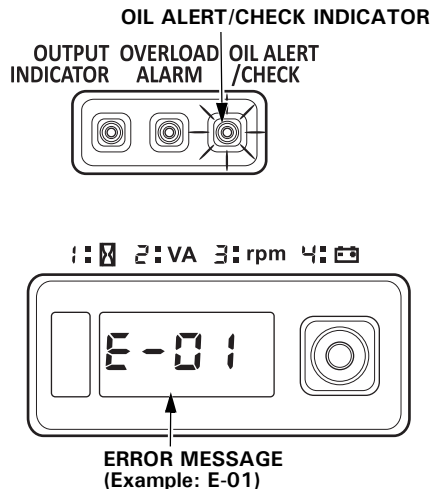
i-Monitor Low Battery Message

If the ENGINE START button is pressed and “batt” is shown on the i-Monitor display, the battery voltage is too low to operate the engine’s electric starter. Use the recoil starter to start the generator. Have the battery recharged and checked (see page 62).



i-Monitor System Error Messages

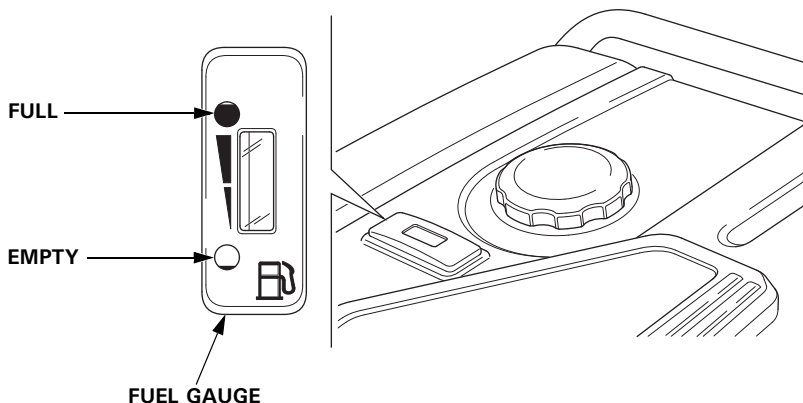
If the generator has a system malfunction, it will show an error message on the i-Monitor display. During remote control operation, an E-01 error message may display if the ENGINE START button is pressed for more than 10 seconds. With an E-01 error message, the engine will stay running and the electrical output may stay constant. Normal remote control operation will be restored after the E-01 error message clears automatically. If the E-01 error message does not clear automatically or if any other error message displays, contact an authorized Honda generator dealer.



CONTROL & FEATURES

Fuel Gauge

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



BEFORE OPERATION

ARE YOU READY TO GET STARTED?

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

Knowledge

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

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

If the generator is being used to power appliances, be sure that they do not exceed the generator's load rating (see page 36).

IS YOUR GENERATOR READY TO GO?

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

WARNING

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

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

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

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

BEFORE OPERATION

Check the Engine

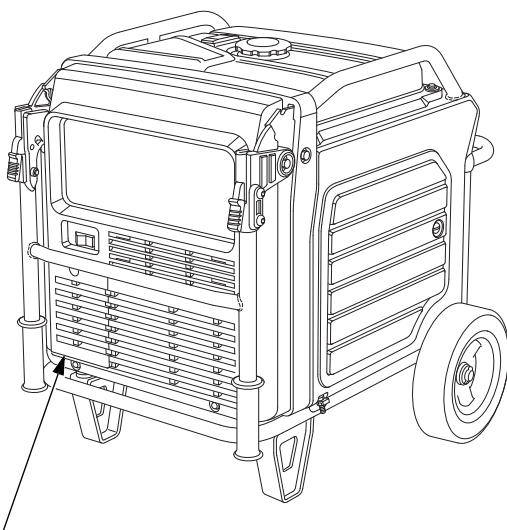
Check the engine oil level (see page 51). A low engine oil level will cause the Oil Alert system to shut down the engine.

Check the air filters (see page 54). Dirty air filters will restrict air flow to the fuel system, reducing engine and generator performance.

Check the fuel level (see page 49). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.

Battery Maintenance Cover

Never operate the generator without the battery maintenance cover in place, as poor engine and generator performance will result.



BATTERY MAINTENANCE COVER

OPERATION

SAFE OPERATING PRECAUTIONS

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

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

WARNING

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

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

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

- Use grounded 3-prong extension cords, tools, and appliances, or double-insulated tools and appliances.
- Inspect cords and plugs, and replace if damaged.
- Make sure that the appliance is in good working order. Faulty appliances or power cords can create a potential for electric shock.
- Make sure the electrical rating of the tool or appliance does not exceed the rated power of the generator or the receptacle being used.
- Operate the generator at least 3 feet (1 meter) away from buildings and other equipment.
- Do not operate the generator in an enclosed structure.
- Do not place flammable objects close to the engine.

OPERATION

FREQUENCY OF USE

If your generator will be used on an infrequent or intermittent basis, (more than 4 weeks before next use), please refer to the Battery Service section of the *SERVICING YOUR GENERATOR* (see page 59) and the Fuel section of the *STORAGE* chapter (see page 64) for additional information regarding battery and fuel deterioration.

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.

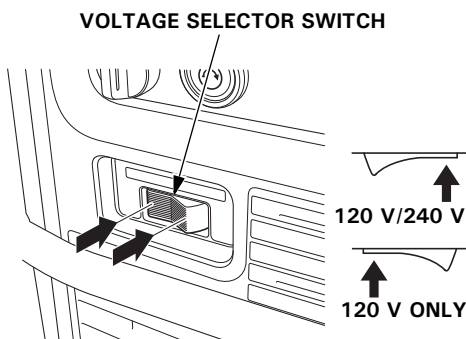
NOTICE

- *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 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 27 and perform the *IS YOUR GENERATOR READY TO GO?* checks (see page 25).

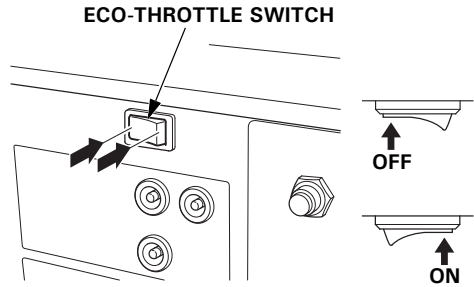
Refer to *AC OPERATION* (see page 34) for connecting loads to the generator.

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. Set the Voltage Selector Switch to match the voltage requirements for the application.



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

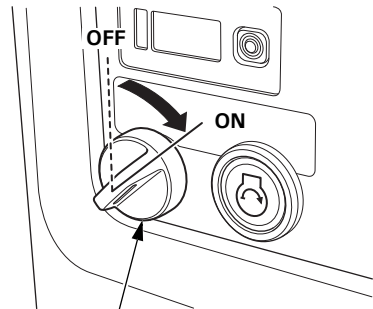
If you wish to use the Eco-Throttle system, turn the Eco-Throttle switch to the ON position after the engine has warmed up for 2 or 3 minutes.



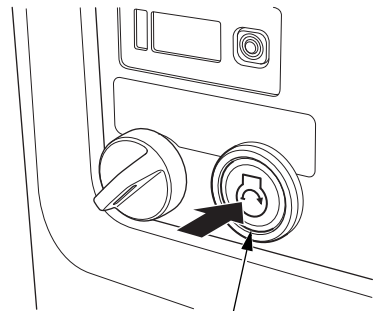
4. Turn the MAIN switch to the ON position.

5. Press and release the ENGINE START button. The ENGINE START button functions for 5 seconds. As soon as the engine starts, the starter will stop automatically.

If the engine fails to start, wait at least 10 seconds before operating the starter again.



MAIN SWITCH

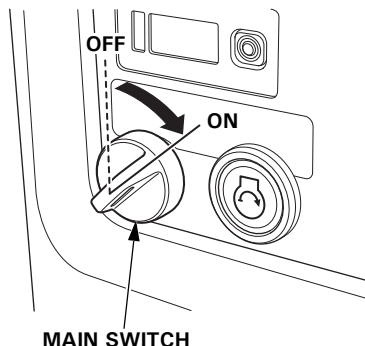


ENGINE START BUTTON

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

OPERATION

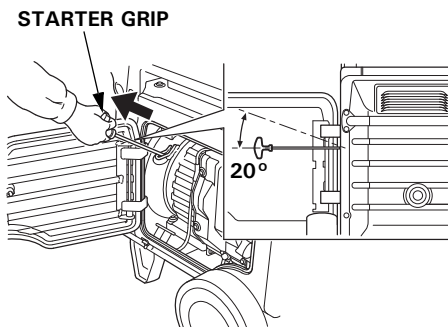
- Use the recoil starter when the battery voltage is too low to turn the starter motor.
- a. Turn the MAIN switch to the ON position.
- b. Open the right maintenance cover by turning its latch counterclockwise.



- c. Pull the starter grip lightly until you feel resistance; then pull briskly in the direction of the arrow as shown.

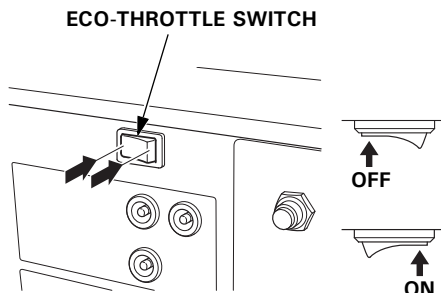
NOTICE

- *Do not exceed 20 degrees from horizontal when pulling the starter grip.*
- *Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.*
- *Do not let the starter rope rub against the generator body, or the rope will wear out prematurely.*



- d. Close the right maintenance cover by turning its latch clockwise.

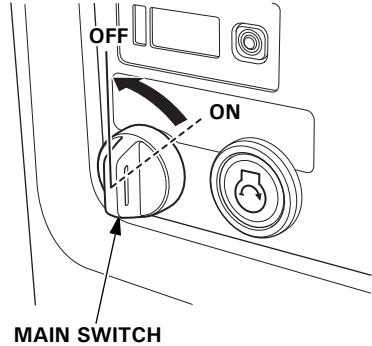
6. If you wish to use the Eco-Throttle system, turn the Eco-Throttle switch to the ON position after the engine has warmed up for 2 or 3 minutes.



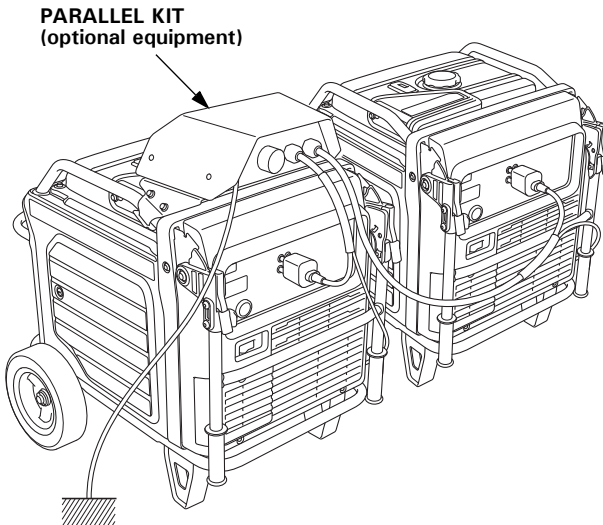
STOPPING THE ENGINE

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

1. Turn the MAIN switch to the OFF position.



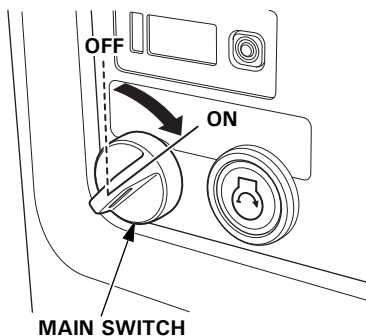
2. Unplug all appliances from the generator AC receptacles.
3. If two generators were connected for parallel operation, disconnect the parallel operation cable after stopping the engines if you do not wish to resume parallel operation.



OPERATION

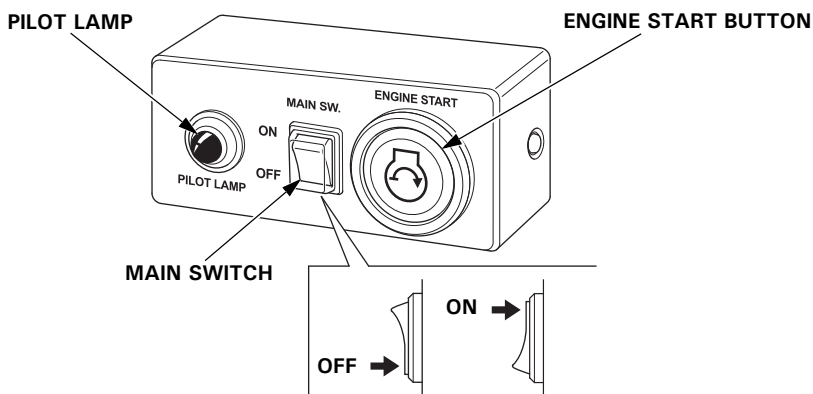
STARTING THE ENGINE with REMOTE CONTROL (Optional part)

1. Determine the voltage requirements and adjust the voltage selector switch, as needed.
2. Turn the MAIN switch of the generator to the ON position.



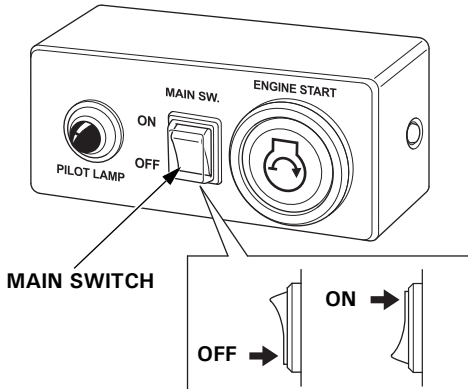
3. Turn the MAIN switch of the remote control to the ON position.
4. Press and release the ENGINE START button.
The ENGINE START button functions for 5 seconds. As soon as the engine starts, the starter will stop automatically.
The pilot lamp comes on when the engine starts.

If the engine fails to start, wait at least 10 seconds before operating the starter again.



STOPPING THE ENGINE with REMOTE CONTROL (Optional part)

1. Turn the MAIN switch of the remote control to the OFF position.



OPERATION

AC OPERATION

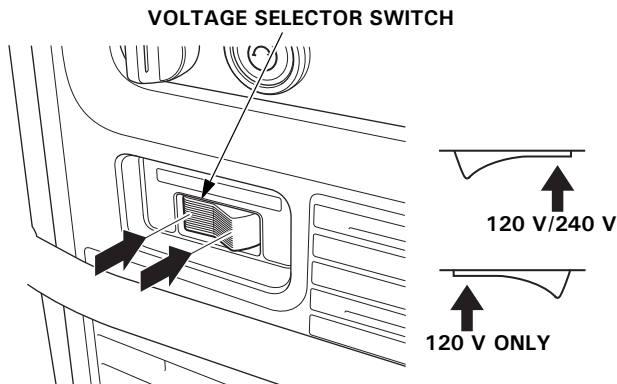
If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is in the appliance or the rated load capacity of the generator has been exceeded.

NOTICE

Substantial overloading that continuously lights the red OVERLOAD ALARM indicator may damage the generator. Marginal overloading that temporarily lights the red OVERLOAD ALARM indicator may shorten the service life of the generator.

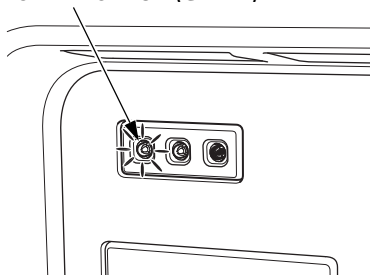
1. Turn the voltage selector switch to either position.

With the voltage selector switch in the “120 V/240 V” position, you can use the 120 V and 120 V/240 V receptacles simultaneously. If you are NOT using the 120 V/240 V receptacle, then select the “120 V ONLY” position.



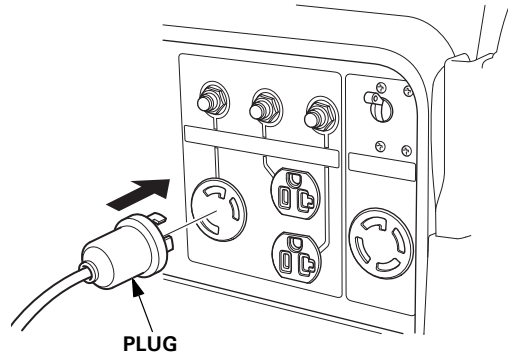
2. Start the engine and make sure the green OUTPUT indicator comes on.

OUTPUT INDICATOR (GREEN)



3. Plug in the appliance.

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



If the generator is overloaded, or if there is a short circuit in a connected appliance, or if the inverter is overheated, the red OVERLOAD ALARM indicator will come ON. The red OVERLOAD ALARM indicator will stay ON and, after about five seconds, current to the connected appliance(s) will shut off, and the green OUTPUT indicator will go OFF. Stop the engine and investigate the problem.

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

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

When an electric motor is started, the red OVERLOAD ALARM indicator may come on. This is normal if the red OVERLOAD ALARM indicator goes OFF after about five seconds. If the red OVERLOAD ALARM indicator stays ON, consult an authorized Honda generator dealer.

OPERATION

AC Applications

Before connecting an appliance or power cord to the generator:

- Make sure that it is in good working order. Faulty appliances or power cords can create a potential for electrical shock.
- If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance or the rated load capacity of the generator has been exceeded.

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

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

Maximum power is:

7.0 kVA

For continuous operation, do not exceed the rated power.

Rated power is:

5.5 kVA

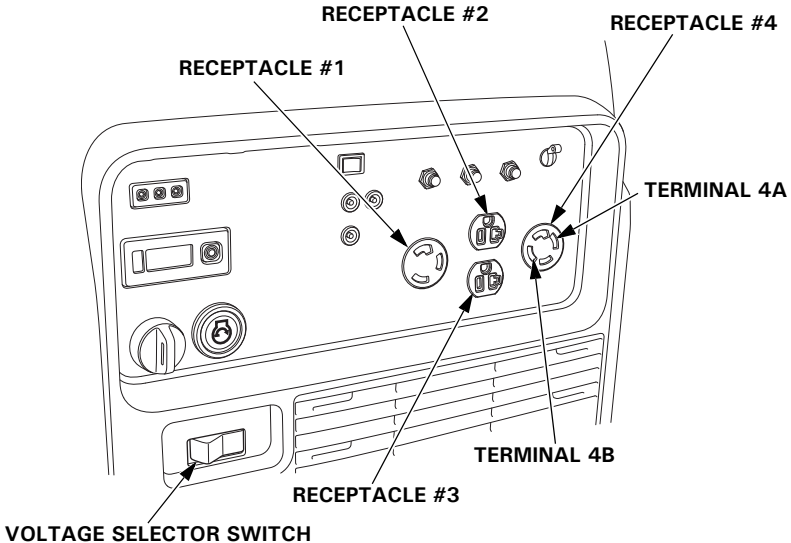
In either case, the total power requirements (VA) of all appliances connected must be considered. Appliance and power tool manufacturers usually list rating information near the model number or serial number.

NOTICE

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

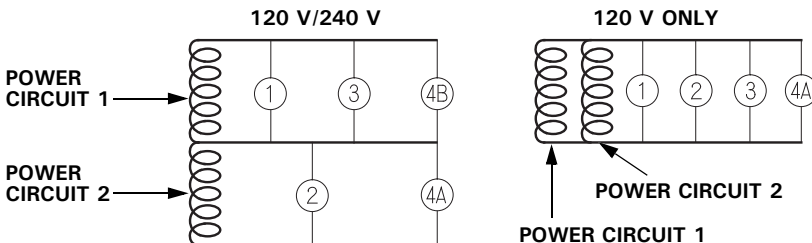
AC Receptacle Selection

The control panel, shown below, has a voltage selector switch and four receptacles. Receptacle 4, the 240-volt receptacle, has two powered terminals, 4A and 4B.



Power Producing Circuits

This generator is equipped with two power generating circuits. When the voltage selector switch is in the 120 V/240 V position, each of the two power producing circuits supplies power to specific receptacles. When the voltage selector switch is in the 120 V ONLY position, the power producing circuits operate in parallel, sharing the total load connected to terminal 4A and receptacles 1, 2, and 3.



OPERATION

Voltage Selector Switch

NOTICE

Disconnect or turn OFF all appliances or tools connected to the generator before changing the voltage selector switch position. The generator may be damaged if the switch position is changed with loads connected and operating.

The power available to each receptacle depends on the position of the voltage selector switch.

Switch Position	Receptacle	Available Power
120 V ONLY	1	30 A at 120 V
	2	20 A at 120 V
	3	20 A at 120 V
	4A	30 A at 120 V
	4B	None
120 V/240 V	1	22.9 A at 120 V
	2	20 A at 120 V
	3	20 A at 120 V
	4A-4B	22.9 A at 240 V

120 V ONLY Position

When the voltage selector switch is in the 120 V ONLY position, you do not need to spread the load over the receptacles. You must, however, make sure the load on any receptacle does not exceed its available power shown in the preceding table and the total load does not exceed 45.8 amps.

120 V/240 V Position

When the voltage selector switch is in the 120 V/240 V position, you must balance the load. Divide the load between the two sets of receptacles shown below. Balancing is necessary because each set of receptacles is powered by only one power producing circuit that can produce a maximum of 22.9 amps.

Set of Receptacles	Total Current Available	Power Producing Circuit
1 + 3 + 4B	22.9 A	1
2 + 4A	22.9 A	2

AC PARALLEL OPERATION

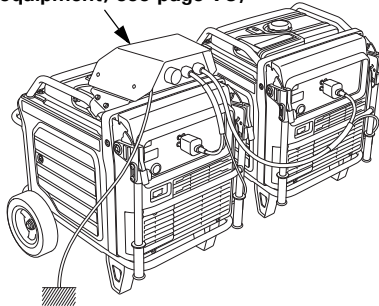
Before connecting an appliance to either generator, make sure that the appliance is in good working order and that its electrical rating does not exceed that of the receptacle.

Most motorized appliances require more than their electrical rating for startup. When an electric motor is started, the OVERLOAD ALARM indicator (red) may come ON. This is normal if the OVERLOAD ALARM indicator (red) goes OFF within 5 seconds. If the OVERLOAD ALARM indicator (red) stays ON, consult your generator dealer.

During parallel operation, the Eco-Throttle switch should be in the same position on both generators.

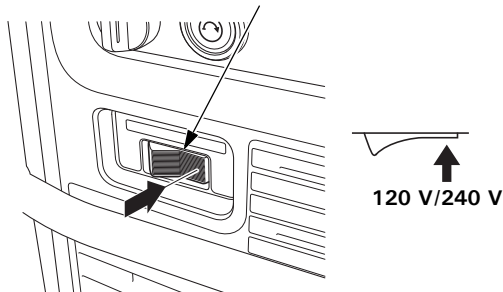
1. Install the parallel kit on the frame of one generator (see page 91). Connect the parallel operation cable between two EU7000is generators following the instructions supplied with the parallel kit.

PARALLEL KIT
(optional equipment, see page 79)

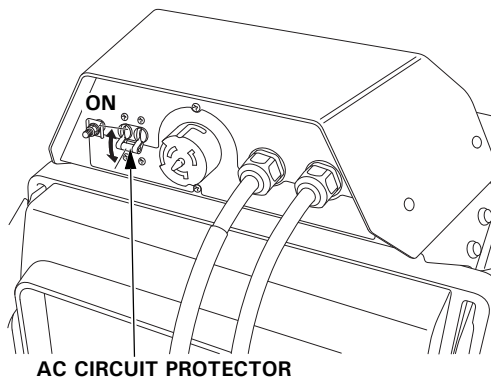


2. Set the voltage selector switch of both generators to 120 V/240 V.

VOLTAGE SELECTOR SWITCH



-
3. Start the engine on each generator and make sure each OUTPUT indicator (green) comes ON.
 4. Turn the AC circuit protector of the parallel operation box ON.



5. Plug in the appliance following the instructions provided with the parallel kit.
6. Turn on the appliance.

If the generators are overloaded (see page 42), or if there is a short circuit in a connected appliance, the OVERLOAD ALARM indicators (red) will come ON. The OVERLOAD ALARM indicators (red) will stay ON, and after about five seconds, current to the connected appliance(s) will shut off, and the OUTPUT indicators (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 generators.

AC Parallel Operation Applications

Two EU7000is generators can be connected together to increase the available power using a parallel kit (optional equipment, see page 79).

Follow the instructions included with the parallel kit.

Before connecting an appliance or power cord to the generator:

- Make sure that it is in good working order. Faulty appliances or power cords can create a potential for electrical shock.
- If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance or the rated load capacity of the generator has been exceeded.
- Never connect different generator models.
- For parallel operation, use only a Honda approved parallel kit (optional equipment, see page 79) when connecting one EU7000is to another EU7000is generator.
- Never connect or remove the parallel operation cable when the generator is running.
- For single generator operation, the parallel operation cable must be disconnected from both generators.

OPERATION

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

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

Maximum power in parallel operation is:

12.0 kVA

For continuous operation, do not exceed the rated power.

Rated power in parallel operation is:

11.0 kVA

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

NOTICE

Substantial overloading that continuously lights the red OVERLOAD ALARM indicator may damage the generator. Marginal overloading that temporarily lights the red OVERLOAD ALARM indicator may shorten the service life of the generator.

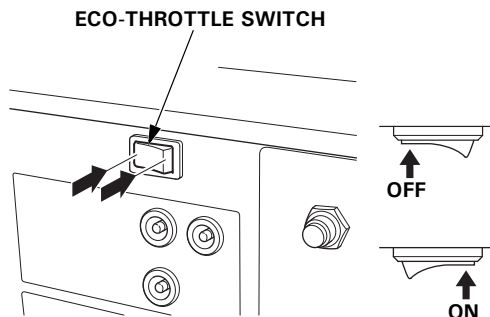
ECO-THROTTLE SYSTEM

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.



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

This generator has a system ground that connects generator frame components to 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.

Special Requirements

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

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

SERVICING YOUR GENERATOR

THE IMPORTANCE OF MAINTENANCE

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

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

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

WARNING

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

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

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

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

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

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) ITEM Perform at every indicated month or operating hour interval, whichever comes first.		Each use	First month or 20 hrs.	Every 3 months or 50 hrs.	Every 6 months or 100 hrs.	Every year or 300 hrs.	Page
Engine oil	Check level	o					51
	Change		o		o		52
Air cleaner	Check	o					54
	Clean			o (1)			55
	Replace					o (*)	54
Canister	Check	Every 2 years (2)					—
Purge tube	Check	Every 2 years (2)					—
Charge tube	Check	Every 2 years (2)					—
Spark plug	Check-adjust				o		56
	Replace					o	56
Spark arrester	Clean				o		58
Valve clearance	Check-adjust					o (2)	—
Combustion chamber	Clean	After every 1,000 hrs. (2)					—
Fuel tank	Clean	Every 2 years or 1,000 hrs. (2)					—
Fuel pump filter	Change	Every 2 years or 1,000 hrs. (2)					—
Fuel tube	Check	Every 2 years (Replace if necessary) (2)					—

NOTE:

(*) Replace paper element type only.

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

(2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures. See "Honda Publications" on page 79 for ordering information.

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

This generator is equipped with a catalytic converter. If the engine is not properly maintained, the catalyst in the muffler may lose effectiveness.

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

REFUELING

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

WARNING

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

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

NOTICE

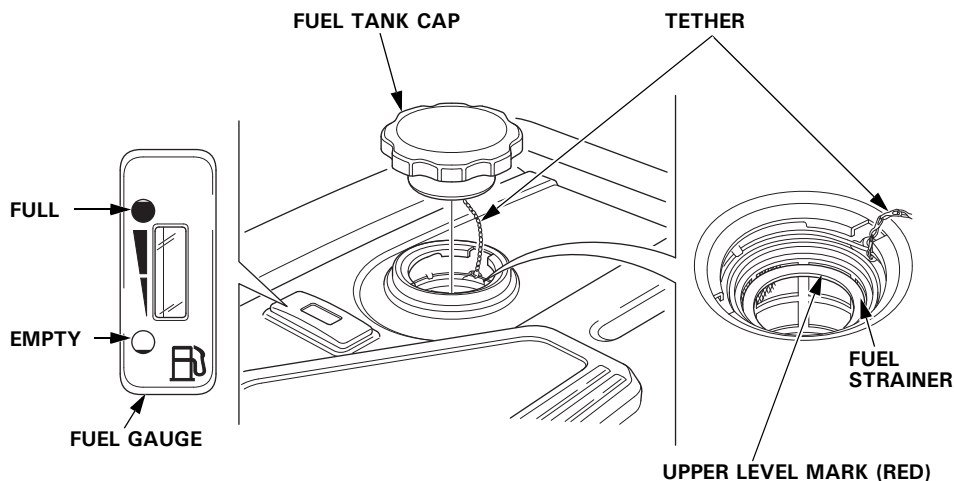
Fuel can damage paint and plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under warranty.

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

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

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

SERVICING YOUR GENERATOR



After refueling, reinstall the fuel tank cap securely.

FUEL RECOMMENDATIONS

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

Use unleaded gasoline only, or the catalyzer will loose its effectiveness and negatively affect exhaust emissions.

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.

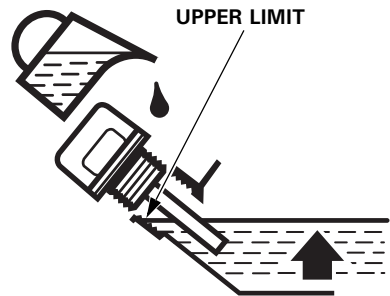
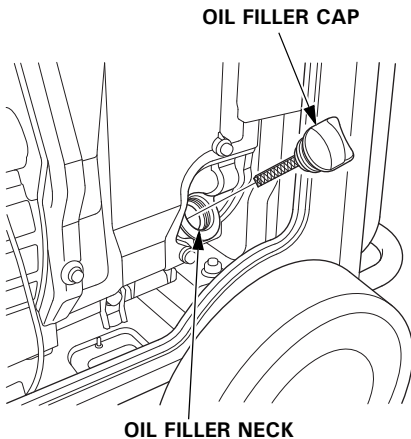
Engine damage or performance problems that result from using a fuel with percentages of ethanol or methanol greater than shown above and leaded gasoline are not covered under warranty.

If your equipment will be used on an infrequent basis, please refer to the fuel section of the *STORAGE* chapter (see page 64) for additional information regarding fuel deterioration.

ENGINE OIL LEVEL CHECK

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

1. Open the right maintenance cover by turning its latch counterclockwise.
2. Remove the oil filler cap.
3. Check the oil level. If it is below the upper limit, fill with the recommended oil to the upper limit of the oil filler neck (see page 53).
4. Reinstall the oil filler cap securely.
5. Close the right maintenance cover by turning its latch clockwise.



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.

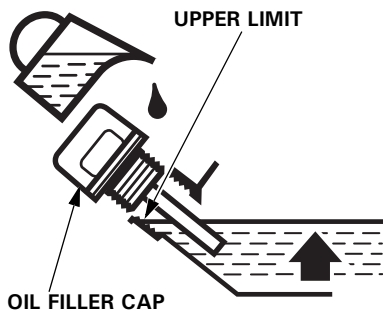
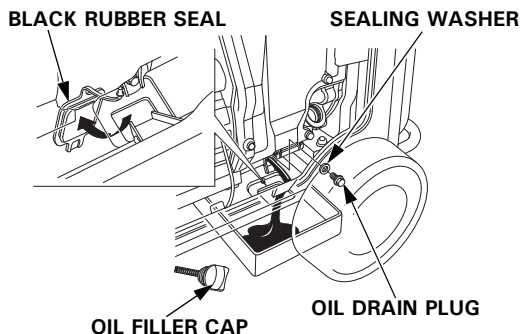
1. Open the right maintenance cover by turning its latch counterclockwise.
2. Reach under the generator and remove the black rubber seal located below the oil drain plug.
3. Place a suitable container underneath the generator to catch the used oil.
4. Remove the oil filler cap.
5. Remove the oil drain plug and sealing washer and allow the oil to drain completely.
6. Reinstall the oil drain plug and a new sealing washer. Tighten the plug securely.
7. Reach under the generator and reinstall the black rubber seal.

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.

8. With the generator in a level position, fill with the recommended oil to the upper limit of the oil filler neck (see page 53).
9. Reinstall the oil filler cap securely.
10. Close the right maintenance cover by turning its latch clockwise.

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

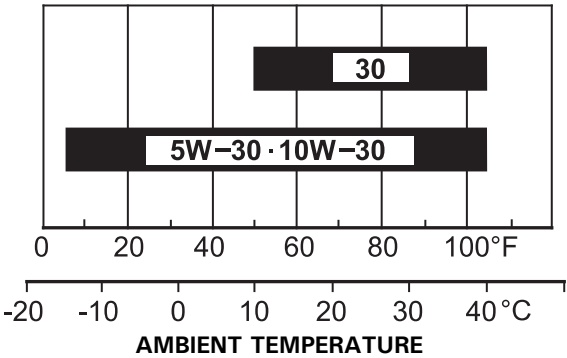


SERVICING YOUR GENERATOR

ENGINE OIL RECOMMENDATIONS

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

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

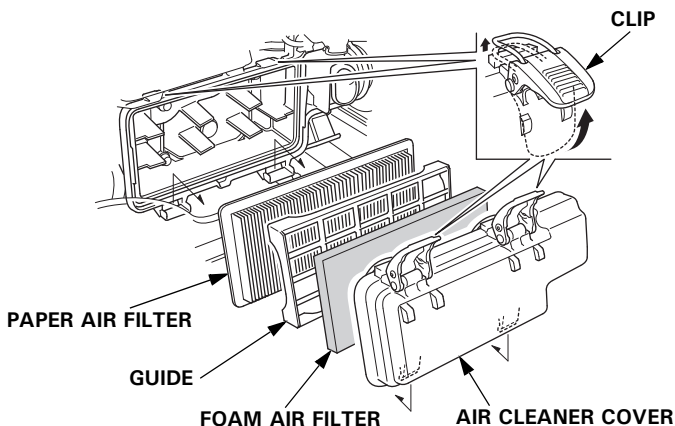


The SAE oil viscosity and service category are in the API label on the oil container. Honda recommends that you use API service category SJ or later (or equivalent) oil.

SERVICING YOUR GENERATOR

AIR CLEANER SERVICE

1. Open the left maintenance cover by turning its latch counterclockwise.
2. Unsnap the air cleaner cover clips; remove the air cleaner cover.



3. Foam air filter:
 - a. Remove the foam air filter from the air cleaner cover.
 - b. Check the foam air filter to be sure it is clean and in good condition.
If the foam air filter is dirty, clean it as described on page 55.
Replace the foam air filter if it is damaged.
 - c. Reinstall the foam air filter in the air cleaner cover.
4. Paper air filter:
 - a. Remove the guide.
 - b. If the paper air filter is dirty, replace it with a new one.
Do not clean the paper air filter.
5. Reinstall the guide and the air cleaner cover.
6. Close the left maintenance cover.

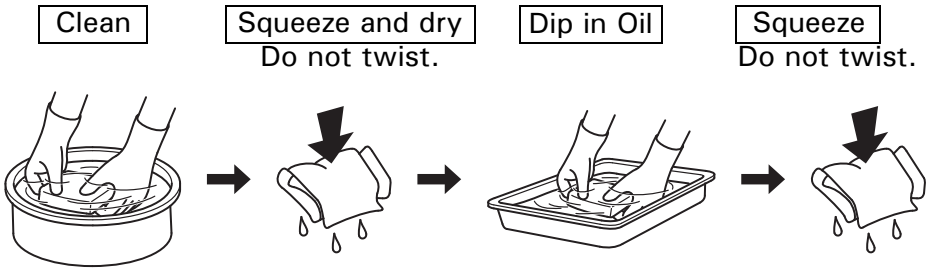
NOTICE

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

FOAM AIR FILTER CLEANING

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

1. Clean the foam air filter in warm soapy water, rinse, and allow to dry thoroughly, or clean in non-flammable solvent and allow to dry.
2. Dip the foam air filter in clean engine oil, and then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the filter.



3. Wipe dirt from the inside of the air cleaner cover using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the fuel system.

SERVICING YOUR GENERATOR

SPARK PLUG SERVICE

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

Recommended spark plugs: BPR6ES (NGK)

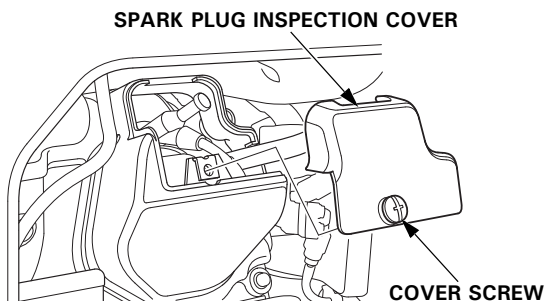
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

NOTICE

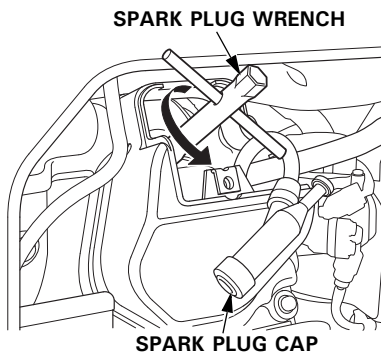
An incorrect spark plug can cause engine damage.

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

1. Open the left maintenance cover by turning its latch counterclockwise.
2. Loosen the cover screw and remove the spark plug inspection cover.



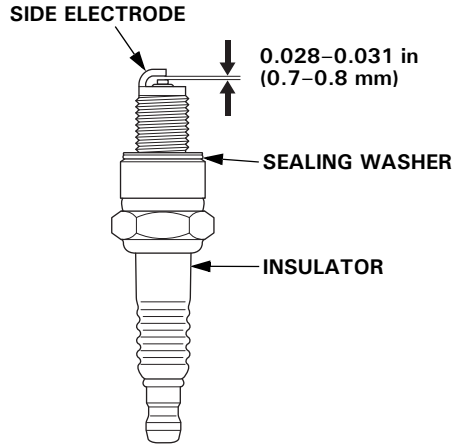
3. Disconnect the spark plug cap, and remove any dirt from around the spark plug area.
4. Remove the spark plug with a spark plug wrench.



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

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:
0.028–0.031 in (0.7–0.8 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 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. Attach the spark plug cap.
10. Reinstall the spark plug inspection cover and tighten the cover screw.
11. Close the left maintenance cover.

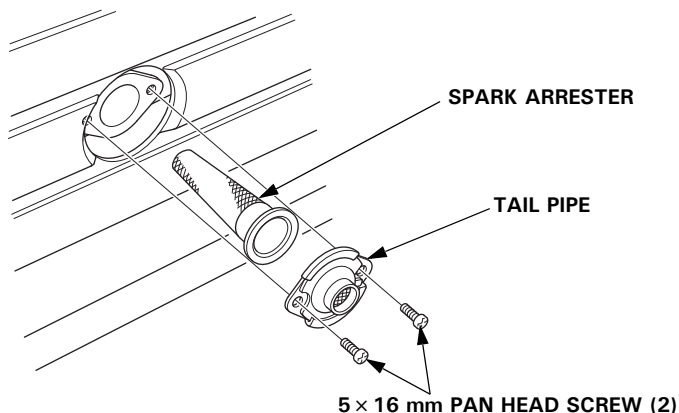
SERVICING YOUR GENERATOR

SPARK ARRESTER SERVICE

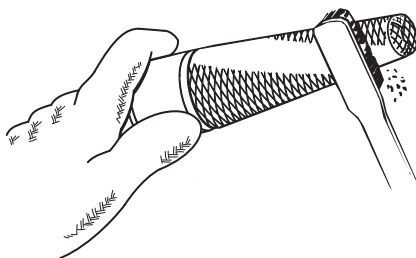
The spark arrester must be serviced every 100 hours to keep it functioning as designed.

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

1. Remove the two 5×16 mm pan head screws, and remove the tail pipe and spark arrester.



2. 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.



3. Install the spark arrester in the reverse order of removal.

BATTERY SERVICE

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

WARNING

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

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

KEEP CHILDREN AWAY FROM THE BATTERY.

Emergency Procedures

Eyes – Flush with water from a cup or other container for at least fifteen minutes. (Water under pressure can damage the eye.) Immediately call 911 (USA only) or a physician.

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

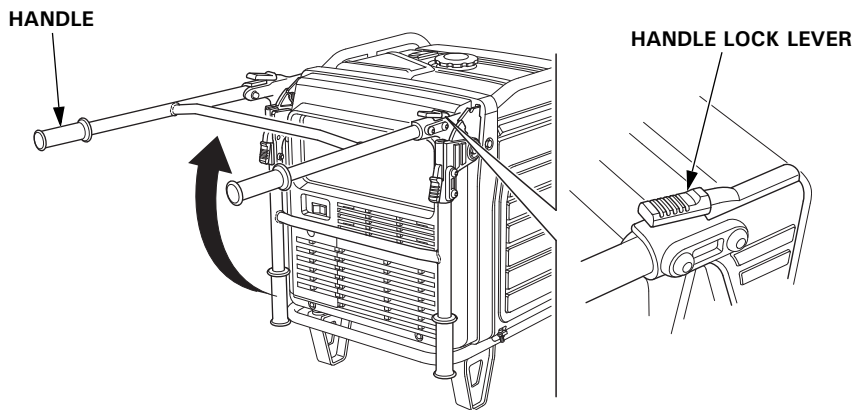
Swallowing – Drink water or milk. Call your local Poison Control Center (USA only) or a physician immediately.

SERVICING YOUR GENERATOR

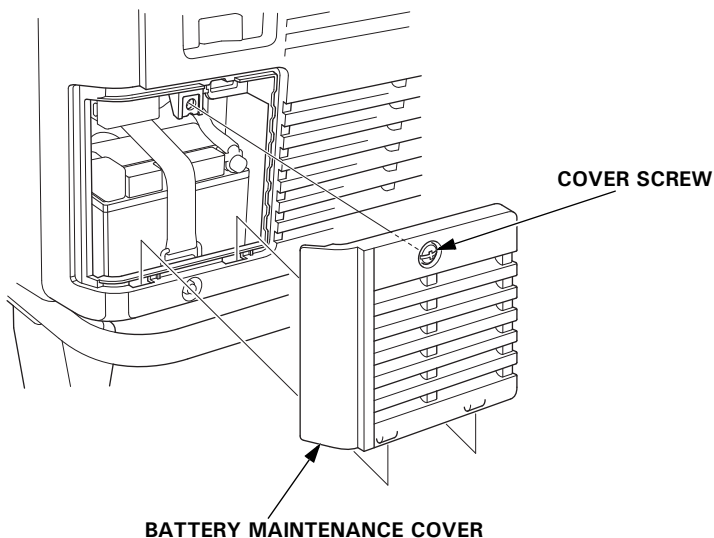
Battery Removal

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

1. Lift the handle upward. The lock levers will lock and secure the handle in place.

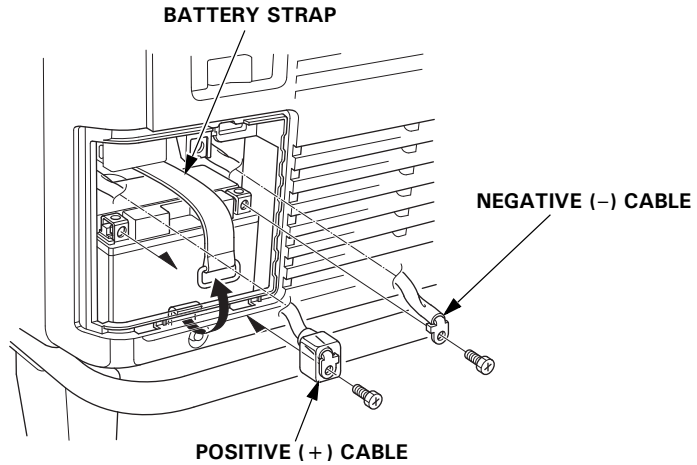


2. Loosen the cover screw and remove the battery maintenance cover.



SERVICING YOUR GENERATOR

3. Remove the negative (–) cable from the battery negative (–) terminal, and then remove the positive (+) cable from the battery positive (+) terminal.
4. Unhook the battery strap from the bottom hook of the generator.



5. Remove the battery from the battery tray.

SERVICING YOUR GENERATOR

Battery Charging

WARNING

The battery gives off explosive hydrogen gas during normal operation.

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

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

The battery is rated at 11.2 Ah (ampere-hours). Charging current should equal 10% of the battery's ampere-hour rating. A battery charger should be used that can be adjusted to deliver 1.1 amps.

1. Connect the battery charger following the manufacturer's instructions.
2. Charge the battery 5–10 hours.
3. Clean the outside of the battery and the battery compartment with a solution of baking soda and water.

Battery Installation

1. Install the battery into the generator.
2. Connect the battery positive (+) cable to the battery positive (+) terminal first, and tighten the bolt securely.
3. Slide the battery boot over the positive (+) cable and terminal.
4. Connect the battery negative (–) cable to the battery negative (–) terminal, and tighten the bolt securely.
5. Install the battery strap.
6. Install the battery maintenance cover in the reverse order of removal (see page 60).

Never operate the generator without the battery maintenance cover in place, as poor engine and generator performance will result.

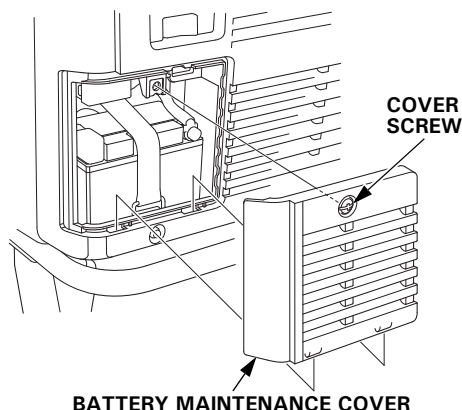
SERVICING YOUR GENERATOR

FUSE

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

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

1. Turn the MAIN switch to the OFF position and remove the key before checking or replacing the fuse.
2. Loosen the cover screw and remove the battery maintenance cover.

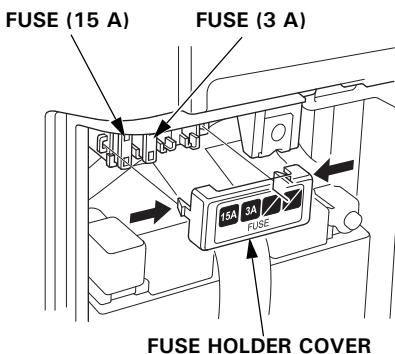


3. Remove the fuse holder cover and pull the fuse out.
4. Replace the fuse with a fuse of the same type and rating.

Specified fuse: 3 A, 15 A

NOTICE

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



5. Install the fuse holder cover and the battery maintenance cover in the reverse order of removal (see page 60).
Never operate the generator without the battery maintenance cover in place, as poor engine and generator performance will result.

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 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 fuel system components serviced or replaced. The length of time that gasoline can be left in your fuel tank 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 fuel tank.

Service according to the table below:

STORAGE TIME	RECOMMENDED SERVICE PROCEDURE TO PREVENT HARD STARTING
Less than 1 month	No preparation required.
1 month to 1 year	Fill with fresh gasoline and add gasoline stabilizer*.
1 year or more	Fill with fresh gasoline and add gasoline stabilizer*. Remove the spark plug. Put a teaspoon of engine oil into the cylinder. Turn the engine slowly with the pull rope to distribute the oil. Reinstall the spark plug. Change the engine oil (see page 52). After removal from storage, drain the stored gasoline into a suitable container, and fill with fresh gasoline before starting.
* Use gasoline stabilizers that are formulated to extend storage life. Follow the manufacturer's instructions for use. Contact your authorized Honda generator dealer for stabilizer recommendations.	

STORAGE

Draining the Fuel Tank

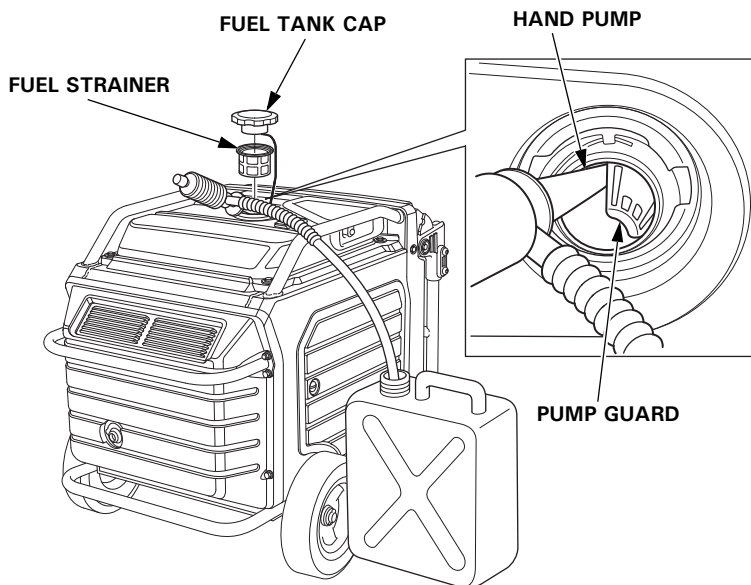
⚠ WARNING

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.

Unscrew the fuel tank cap, remove the fuel strainer, 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. Siphon the gasoline by inserting the tip of the hand pump into the side of the pump guard. Reinstall the fuel strainer and the fuel tank cap.



Engine Oil

1. Change the engine oil (see page 52).
2. Remove the spark plug (see page 56).
3. Pour a teaspoon (5 cc) of clean engine oil into the cylinder.
4. Pull the starter rope several times to distribute the oil in the cylinder.
5. Reinstall the spark plug (see page 56).
6. Slowly pull the starter grip until resistance is felt. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to protect it from internal corrosion. Return the starter grip gently.

Battery

Charge the battery before storing the generator (see page 62).

STORAGE

STORAGE PRECAUTIONS

If your generator will be stored with gasoline in the fuel tank, 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.

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

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

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

Fully charge the battery. Recharge the battery once a month (see page 62).

REMOVAL FROM STORAGE

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

If the generator was stored for 1 year or longer, drain the fuel tank (see page 66) and refuel with fresh gasoline. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline. Gasoline oxidizes and deteriorates over time, causing hard starting.

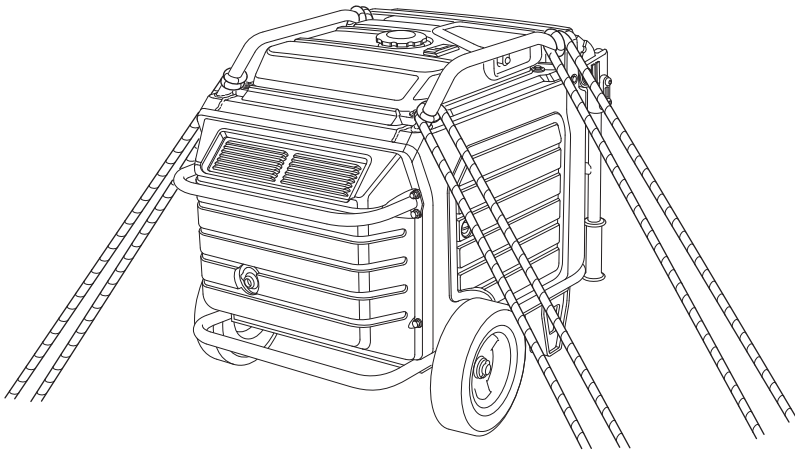
If the cylinder was coated with oil during storage preparation, the engine may smoke briefly at startup. This is normal.

TRANSPORTING

If the generator has been running, allow the engine to 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 materials.

Keep the generator level when transporting to reduce the possibility of fuel leakage.

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



TAKING CARE OF UNEXPECTED PROBLEMS

ENGINE WILL NOT START

Possible Cause	Correction
MAIN switch is in the OFF position.	Turn MAIN switch to the ON position (see page 29).
Out of fuel.	Refuel (see page 49).
Bad fuel, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank (see page 66). Refuel with fresh gasoline (see page 49).
Low engine oil level caused Oil Alert to stop engine.	Turn the MAIN switch to the OFF position. Add engine oil. Then turn the MAIN switch to the ON position and restart the engine.
Spark plug faulty, fouled, or improperly gapped.	Gap or replace spark plug (see page 56).
Spark plug wet with fuel (flooded engine).	Turn the MAIN switch to the OFF position and pull the starter grip swiftly five times or more. If it still will not start, dry and reinstall the spark plug.
Fuel filter restricted, fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc.	Take the generator to an authorized Honda servicing dealer, or refer to the shop manual.

TAKING CARE OF UNEXPECTED PROBLEMS

ENGINE LACKS POWER

Possible Cause	Correction
Air filter restricted.	Clean or replace air filter (see page 54).
Bad fuel, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank (see page 66). Refuel with fresh gasoline (see page 49).
Fuel filter restricted, fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc.	Take the generator to an authorized Honda servicing dealer, or refer to the shop manual.

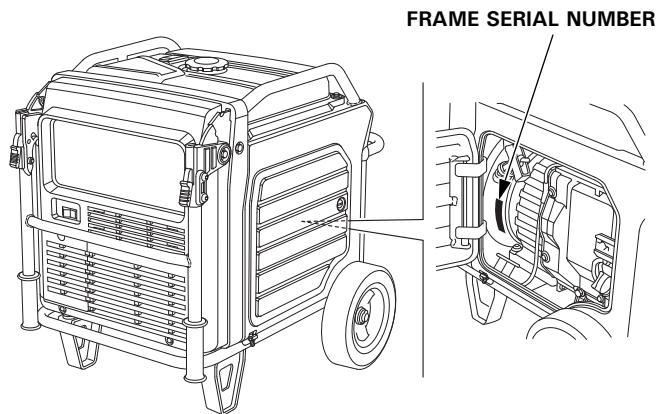
TAKING CARE OF UNEXPECTED PROBLEMS

NO POWER AT THE AC RECEPTACLES

Possible Cause	Correction
OUTPUT indicator is OFF, and OVERLOAD ALARM indicator is ON.	Check AC load. Stop and restart the engine.
	Check the cooling air inlet. Stop and restart the engine.
AC Circuit protector(s) tripped.	Check AC load and reset AC circuit protector(s) (see page 15).
Faulty power tool or appliance.	Replace or repair power tool or appliance. Stop and restart the engine.
Faulty generator.	Take the generator to an authorized Honda servicing dealer, or refer to the shop manual.

TECHNICAL INFORMATION

Serial Number Location



Record the 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: _____

TECHNICAL INFORMATION

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.

Ignition Timing Control System

The system constantly adjusts the ignition timing, reducing the amount of HC, CO, and NO_x produced.

PGM-FI System

The PGM-FI system uses fuel injection. It has three subsystems: Air Intake, Engine Control, and Fuel Control. The Generator Control Unit (GCU) uses various sensors to determine how much air is going into the engine. It then controls how much fuel to inject under all operating conditions.

Catalytic Converter

The exhaust system contains a catalytic converter that changes most of the harmful exhaust gas compounds into harmless compounds.

The U.S. and California Clean Air Acts

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

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

Tampering and Altering

NOTICE

Tampering is a violation of Federal and California law.

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

- Removal or alteration of any part of intake, fuel, or exhaust systems.
- Alterations that would cause the engine to operate outside its design parameters.

Problems That May Affect Emissions

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

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

Replacement Parts

The emission control systems on your Honda engine were designed, built, and certified to conform with EPA and California emission regulations. We recommend the use of 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 48. 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.

TECHNICAL INFORMATION

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* 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)

Specifications

Dimensions

Model	EU7000is
Description code	EEJD
Length [Handle in up position]	33.4 in (848 mm) [47.2 in (1,198 mm)]
Width	27.6 in (700 mm)
Height	28.4 in (721 mm)
Dry mass [weight] *	261.5 lbs (118.6 kg)

* With battery

Engine

Model	GX390
Engine type	4-stroke, overhead valve, single cylinder
Displacement [Bore × Stroke]	23.7 cu-in (389 cm ³) [3.5 × 2.5 in (88 × 64 mm)]
Compression ratio	8.2:1
Engine speed	2,400–3,600 rpm < with Eco-Throttle switch ON >
Cooling system	Forced air
Ignition system	Full transistor
Engine oil capacity	1.16 US qt (1.10 L)
Fuel tank capacity	5.07 US gal (19.2 L)
Spark plug	BPR6ES (NGK)

Generator

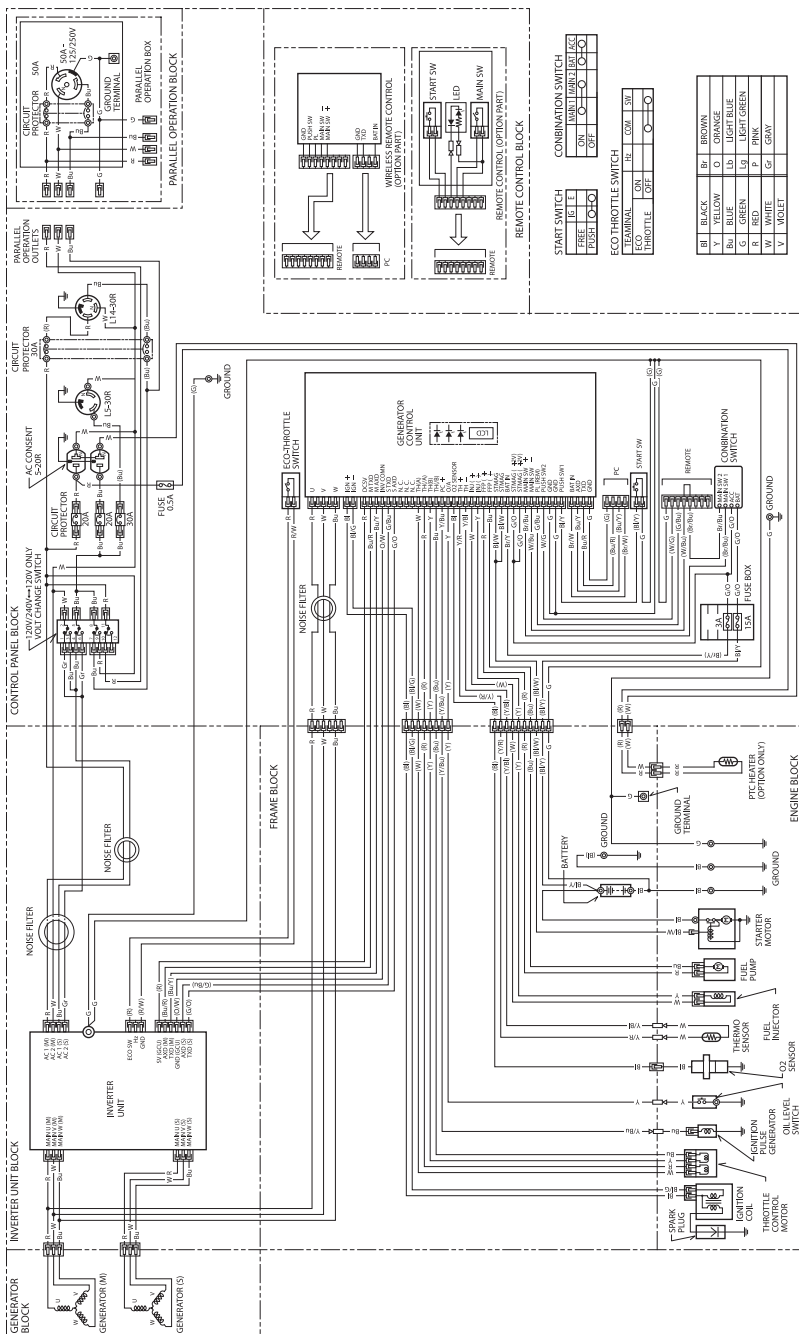
AC output	Rated voltage	120/240 V
	Rated frequency	60 Hz
	Rated current	45.8/22.9 A
	Rated output	5.5 kVA
	Maximum output	7.0 kVA

Tuneup Specifications

ITEM	SPECIFICATION	MAINTENANCE
Spark plug gap	0.028–0.031 in (0.7–0.8 mm)	Refer to page 56.
Valve clearance (cold)	IN: 0.15 ± 0.02 mm EX: 0.20 ± 0.02 mm	See your authorized Honda dealer
Other specifications	No other adjustments needed.	

Specifications are subject to change without notice.

Wiring Diagram



CONSUMER INFORMATION

Dealer Locator Information

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

Visit our website:

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

Honda Publications

Shop Manual

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

Available through your Honda dealer or visit <http://powerequipment.honda.com/support/shop-manuals>

Parts Catalog

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

Accessories Catalog

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

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

Especially popular accessories include:

- Parallel kit
- Rainproof cover
- Wireless remote control

CONSUMER INFORMATION

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 73)
- Name of the dealer who sold the generator to you
- Name and address of the dealer who services your generator
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

ASSEMBLY

SAFETY

The Importance of Proper Assembly

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

WARNING

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

Follow the procedures and precautions in the assembly instructions carefully.

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

WARNING

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

Follow the procedures and precautions in this manual carefully.

ASSEMBLY

Important Safety Precautions

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

ASSEMBLY

Unpacking

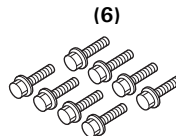
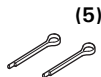
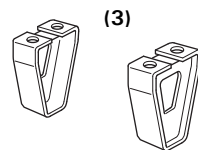
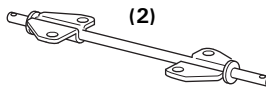
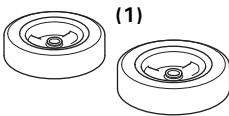
1. Remove the generator and loose parts box from the carton.
2. Compare the loose parts with the inventory list below.

Tools Required: 12 mm wrench, 10 mm wrench or Phillips head screwdriver for battery connections, pliers (not included)

Loose Parts

Check all loose parts against the following list.

Ref. No.	Description	Qty.
1	Wheel	2
2	Axle	1
3	Stand	2
4	20 mm Washer	2
5	4.0 × 28 mm Cotter pin	2
6	8 × 20 mm Flange bolt	8



ASSEMBLY

Wheel Kit Installation

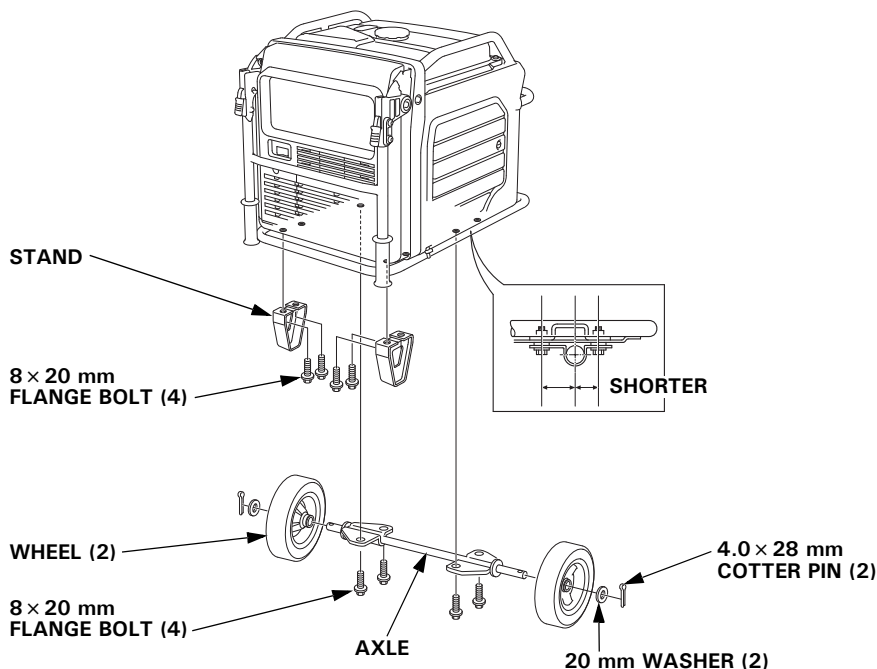
Do not operate the generator without the wheel kit installed. The wheel kit provides air space between the ground and the generator air intake.

NOTICE

If the wheel kit is not installed, it may be possible for dirt and debris to be drawn into the generator air intake, possibly causing generator damage. Always operate the generator with the wheel kit installed.

1. Install the two wheels on the axle using the 20 mm washers and 4.0×28 mm cotter pins.
2. Install the axle assembly on the generator using four 8×20 mm flange bolts.
3. Install the two stands on the under frame using four 8×20 mm flange bolts.

TORQUE: 11–16 lbf·ft (15–22 N·m, 1.5–2.2 kgf·m)

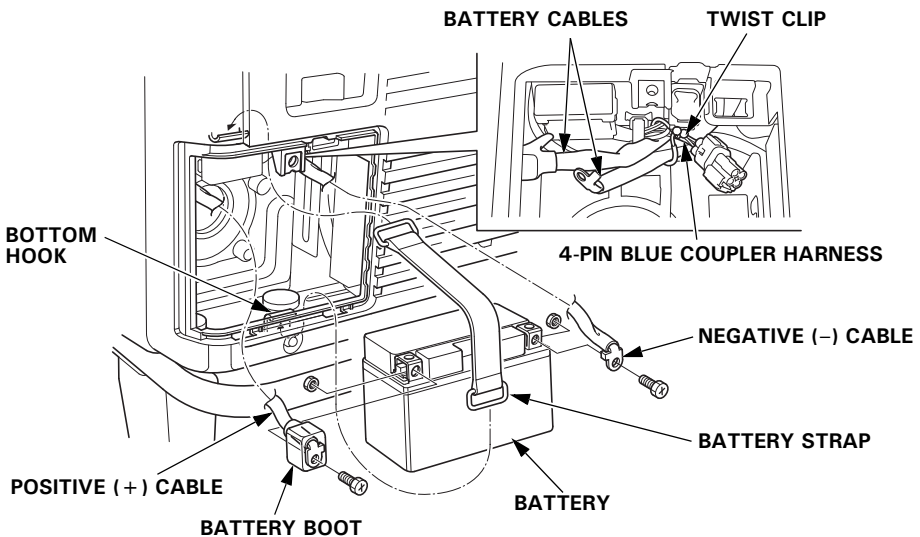


Battery

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

The battery is disconnected and strapped into the battery tray for shipment.

1. Remove the battery maintenance cover (see page 60).
2. Remove the battery strap from the bottom hook, and then remove the battery.
3. Only remove the battery cables from the twist clip.
Make sure that the 4-pin blue coupler harness is secured with the twist clip.
Charge the battery properly. See page 62.
Reinstall the battery.
4. Remove the protective cover from the battery positive (+) terminal, and connect the positive (+) cable to the battery positive (+) terminal. Make sure to cover the terminal with the battery boot.
5. Connect the negative (-) cable to the battery negative (-) terminal.
6. Secure the battery by hooking the strap onto the bottom hook of the generator.



7. Install the battery maintenance cover in the reverse order of removal (see page 60).
Never operate the generator without the battery maintenance cover in place, as poor engine and generator performance will result.

ASSEMBLY

Engine Oil

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

Place the generator on a level surface. Open the right maintenance cover by turning its latch counterclockwise. Remove the oil filter cap. Add enough of the recommended oil to bring the oil level to the upper limit of the oil filler neck.

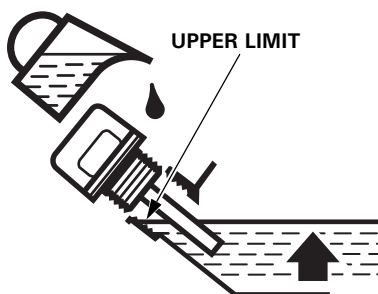
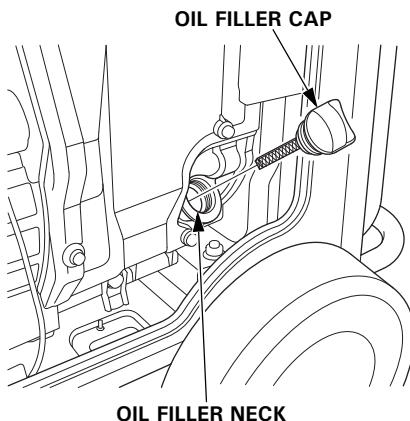
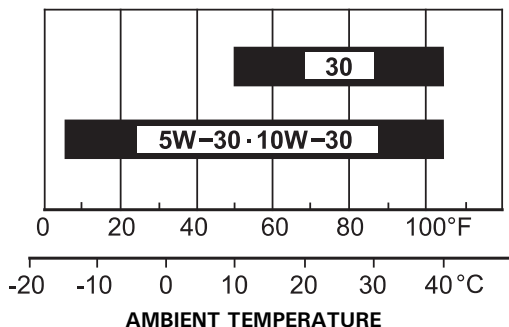
Use a 4-stroke motor oil that meets the requirements for API service category SJ or later (or equivalent).

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

Reinstall the oil filler cap securely. Close the right maintenance cover by turning its latch clockwise.

Fuel

Refer to page 49.



Battery Voltage

Check the battery voltage with the i-Monitor (see page 22).

The battery voltage should be 12.3 V or more.

If the battery voltage is low, charge the battery until the battery voltage is 12.3 V or more.

BEFORE OPERATION

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

- **GENERATOR SAFETY** (see page 6)
- **CONTROLS & FEATURES** (see page 10)
- **BEFORE OPERATION** (see page 25)
- **OPERATION** (see page 27)
- **STARTING THE ENGINE** (see page 28)
- **STOPPING THE ENGINE** (see page 31)
- **MAINTENANCE SCHEDULE** (see page 48)

REGISTRATION

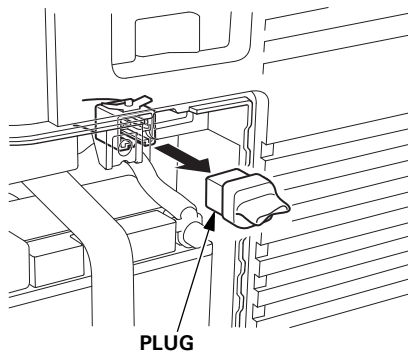
Please Register Your Generator

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

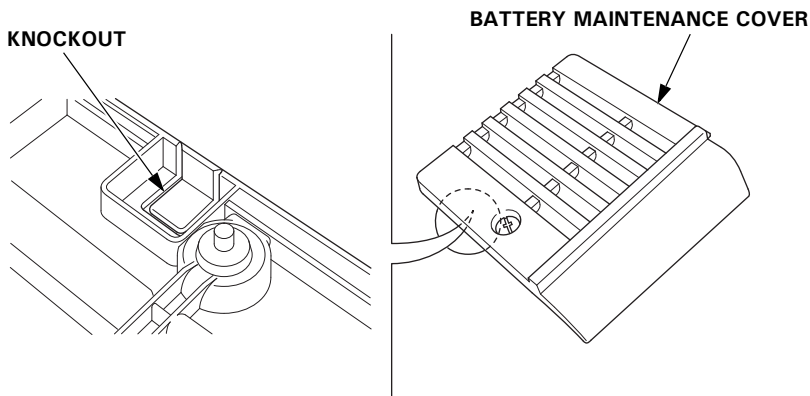
OPTIONAL PARTS

REMOTE CONTROL KIT

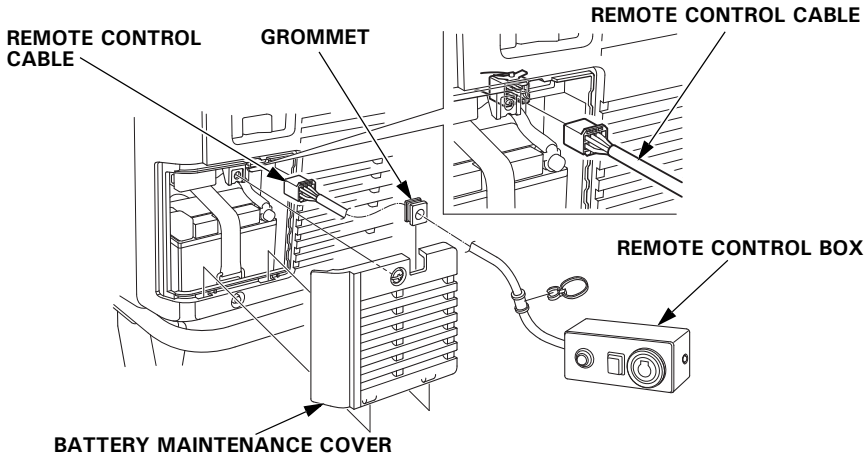
1. Remove the battery maintenance cover (see page 60).
2. Remove the plug from the connector.
 - Do not discard the plug. The plug should be installed back into the connector when the remote control kit is removed.



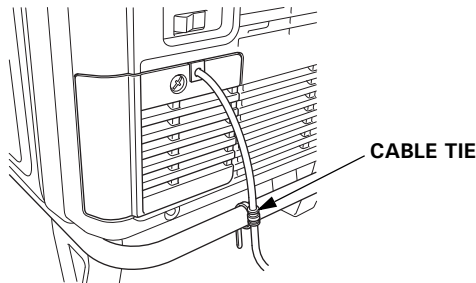
3. View the back of the battery maintenance cover and locate the knockout near the top center of the cover. Carefully remove the knockout.



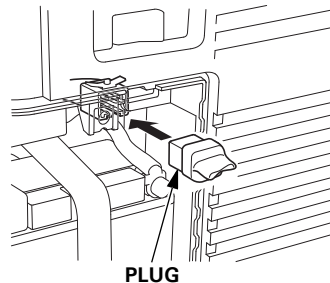
4. Pass the remote control cable through the supplied wire grommet, and fit the grommet into the battery maintenance cover knockout.
5. Plug the remote control cable into the connector.
6. Install the battery maintenance cover and tighten the cover screw.



7. To avoid accidentally unplugging the remote control cable, secure the cable to the generator frame with a cable tie as shown.



- Never operate the generator without the battery maintenance cover in place, as poor engine and generator performance will result.
- Install the plug to the connector when the remote control kit is removed.

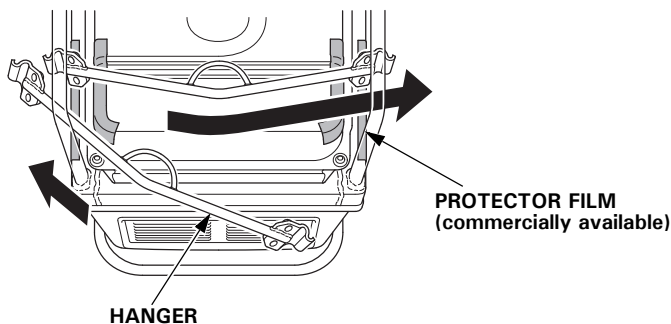


OPTIONAL PARTS

HANGER KIT

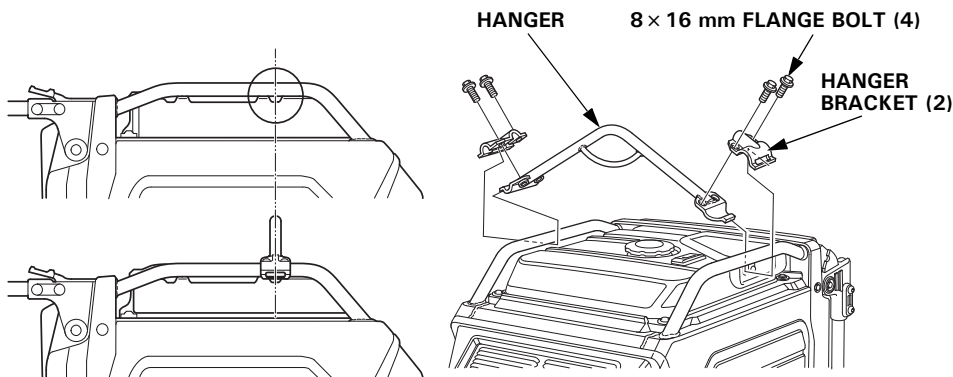
Protect the fuel tank and frame pipe with the protector films during installation of the hanger.

1. Slide one end of the hanger under the frame pipe on the left side of the generator.
2. Slide the other end of the hanger under the frame pipe on the right side of the generator.

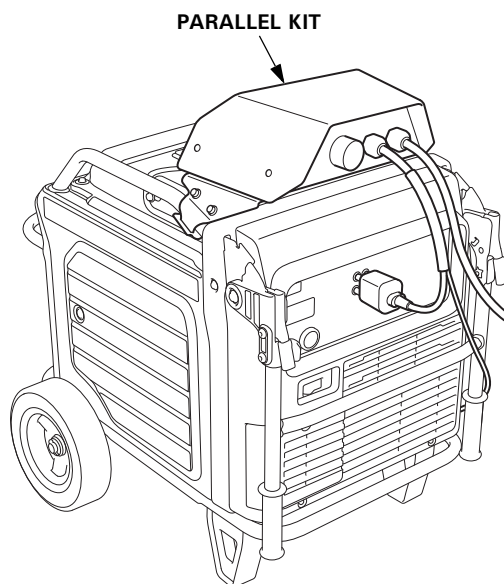


3. Slide the hanger along the frame pipes to align the center of the hanger with the recessed part on the rear side of the fuel tank.
4. Install the hanger brackets on both ends of the hanger and tighten the 8 × 16 mm flange bolts securely.

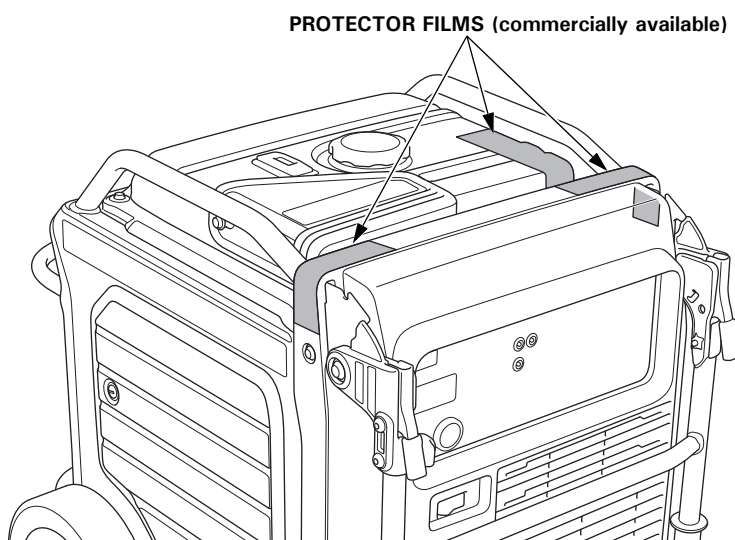
TORQUE: 17–22 lbf·ft (24–29 N·m, 2.4–3.0 kgf·m)



PARALLEL KIT



1. Protect the fuel tank and front cover with the protector films during installation of the parallel kit.

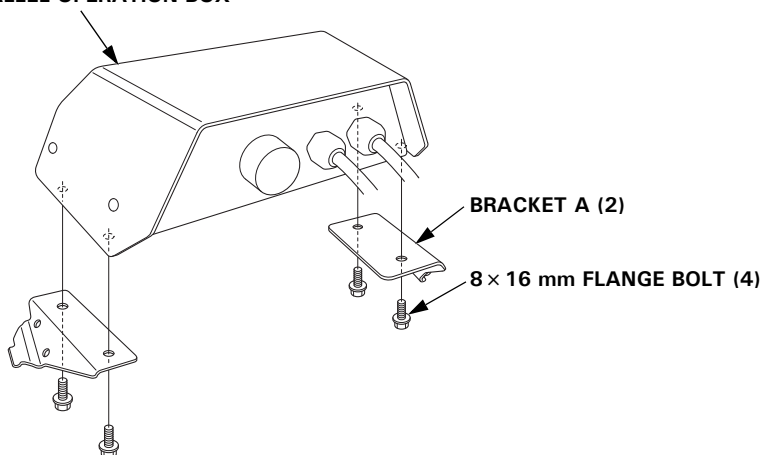


OPTIONAL PARTS

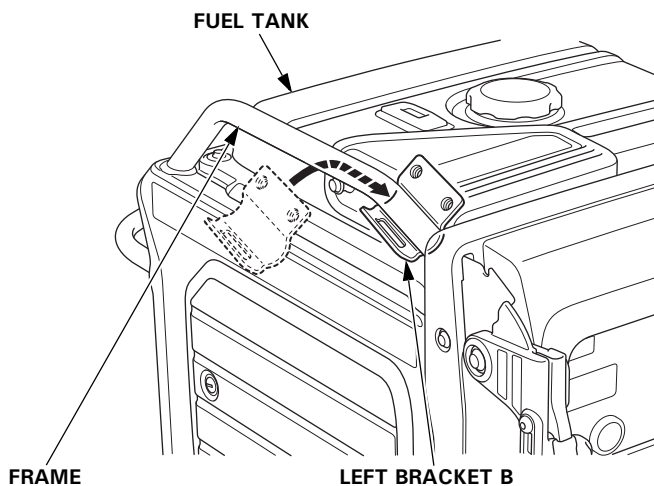
2. Install two bracket A's to the parallel operation box using four 8 × 16 mm flange bolts.

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

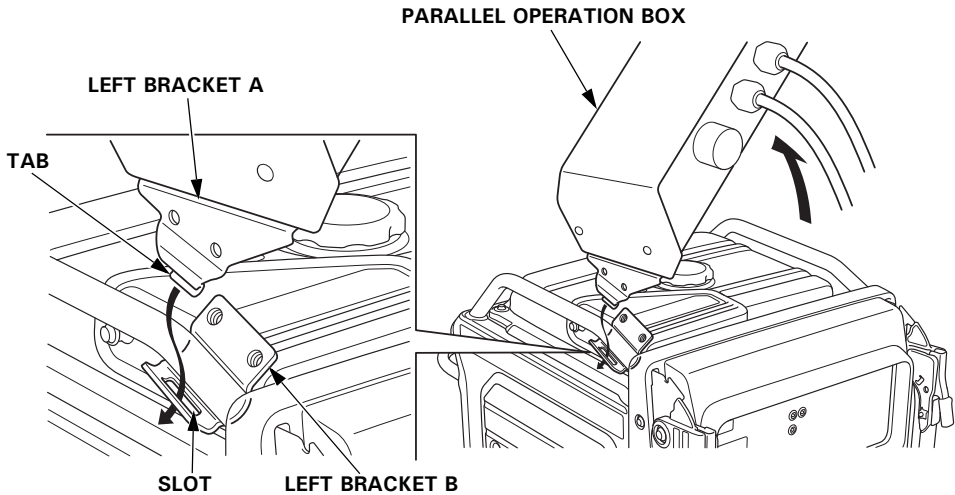
PARALLEL OPERATION BOX



3. Place the left bracket B between the frame and fuel tank.

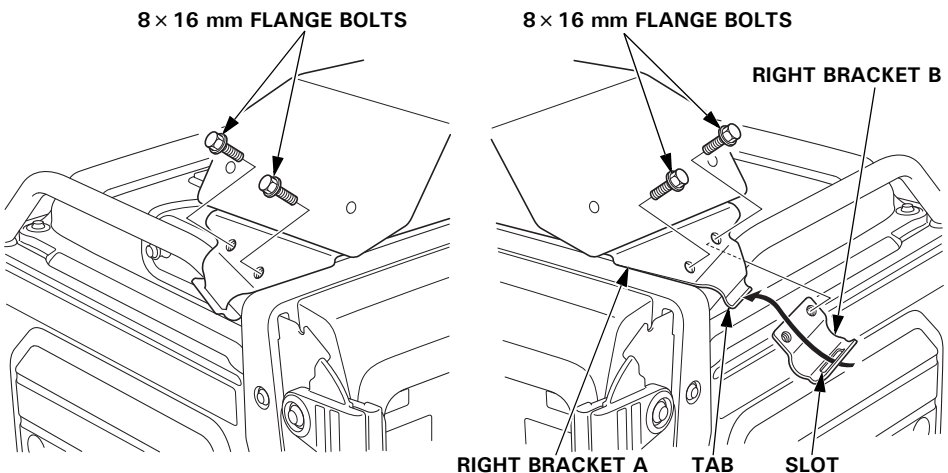


4. Lift up the right side of the parallel operation box and insert the tab of the left bracket A into the slot of the left bracket B.



5. Place the parallel operation box on the frame.
6. Insert the tab of the right bracket A into the slot of the right bracket B to place the right bracket B.
7. Connect the two bracket A's and two bracket B's using four 8 × 16 mm flange bolts.

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



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MEMO

MEMO

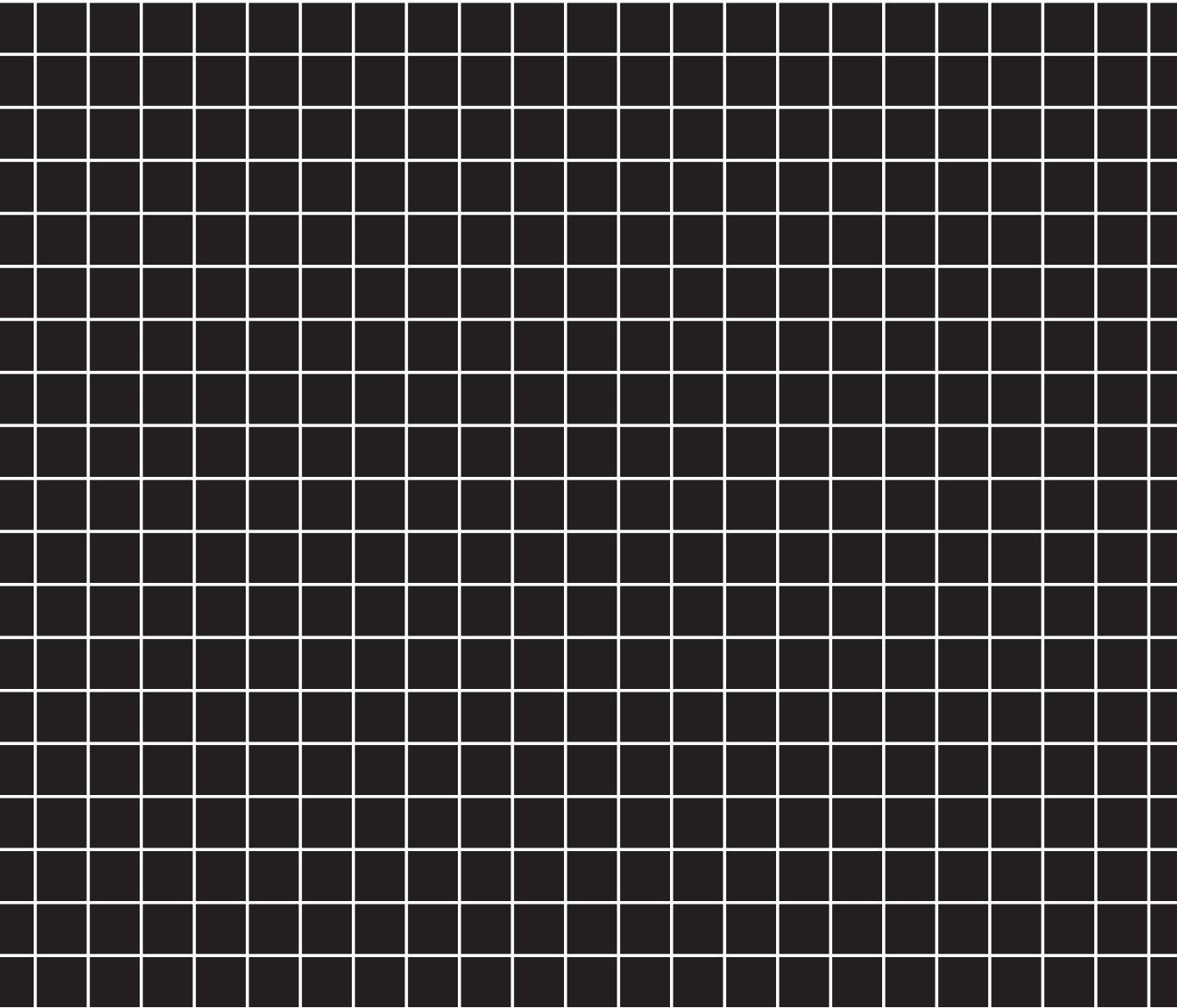
MEMO

QUICK REFERENCE INFORMATION

Fuel	Type	Regular unleaded gasoline with a pump octane rating of 86 or higher and an ethanol content of no more than 10%
Engine Oil	Type	SAE 10W-30, API SJ or later (or equivalent), for general use (see page 53)
Spark Plug	Type	NGK: BPR6ES
	Electrode Gap	0.028–0.031 in (0.7–0.8 mm)
Maintenance	Before each use	Check engine oil level Check air cleaner
	First 20 hours	Change engine oil
	Subsequent	See Maintenance Schedule (see page 48)

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