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

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

We suggest you read the warranty policy to fully understand its coverage and your responsibilities of ownership.

When your generator needs scheduled maintenance, keep in mind that your authorized Honda servicing dealer is specially trained in servicing Honda generators. Your authorized Honda servicing dealer is dedicated to your satisfaction and will be pleased to answer your questions and concerns.

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

GENERATOR SAFETY

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.

•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.

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.**IMPORTANT SAFETY INFORMATION Operator Responsibility Carbon Monoxide Hazards**

Electric Shock Hazards

•The generator produces enough electric power to cause a serious shock or electrocution if misused.

•Do not use in wet conditions. 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/change over switch has been installed by a qualified electrician.

•The exhaust system gets hot enough to ignite some materials.

–Keep the generator at least 1 meter away from buildings and other equipment during operation.

–Do not enclose the generator in any structure.

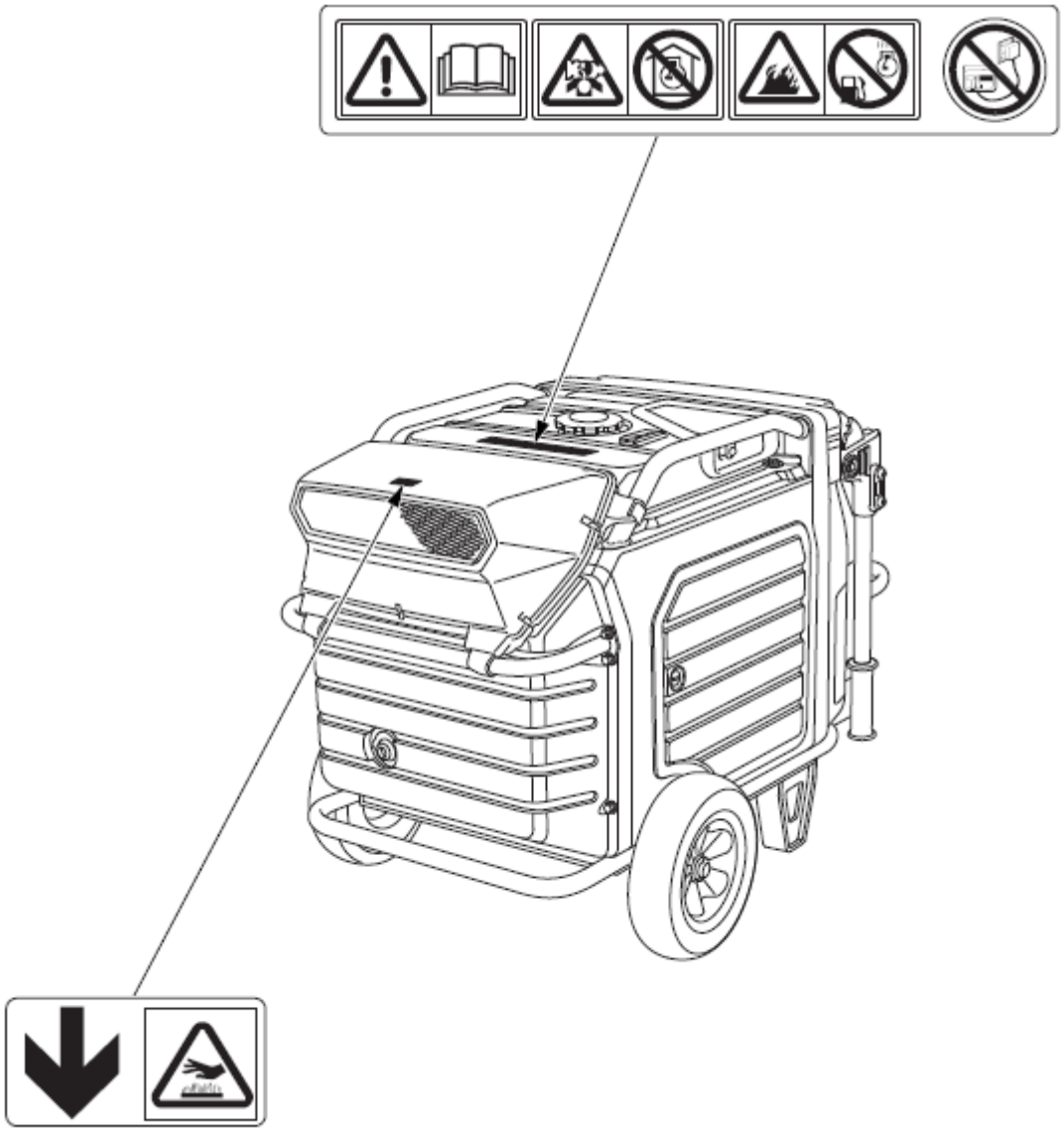
–Keep flammable materials away from the generator.

•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.

Petrol is extremely flammable, and petrol 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 petrol, and keep other flames and sparks away. Always store petrol in an approved container.Make sure that any spilled fuel has been wiped up before starting the engine.– Do not use in the rain or snow. – Do not use near a pool or a sprinkler system. – Do not use when your hands are wet. **Fire and Burn Hazards Refuel With Care.**

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 authorized Honda servicing dealer for a replacement.



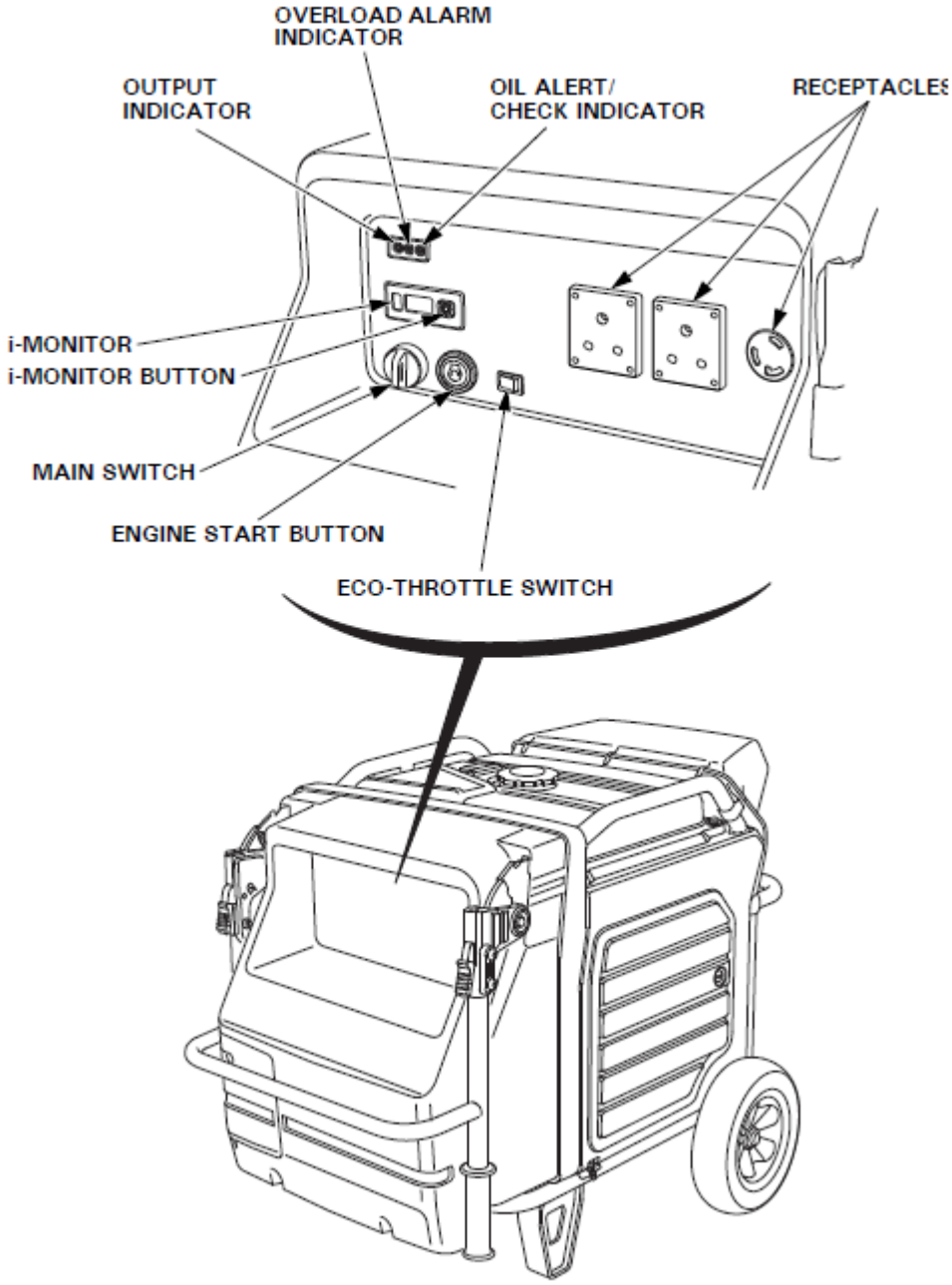
- Honda generator is designed to give safe and dependable service if operated according to instructions.
  Read and understand the Owner's Manual before operating the generator. Failure to do so could result in personal injury or equipment damage.

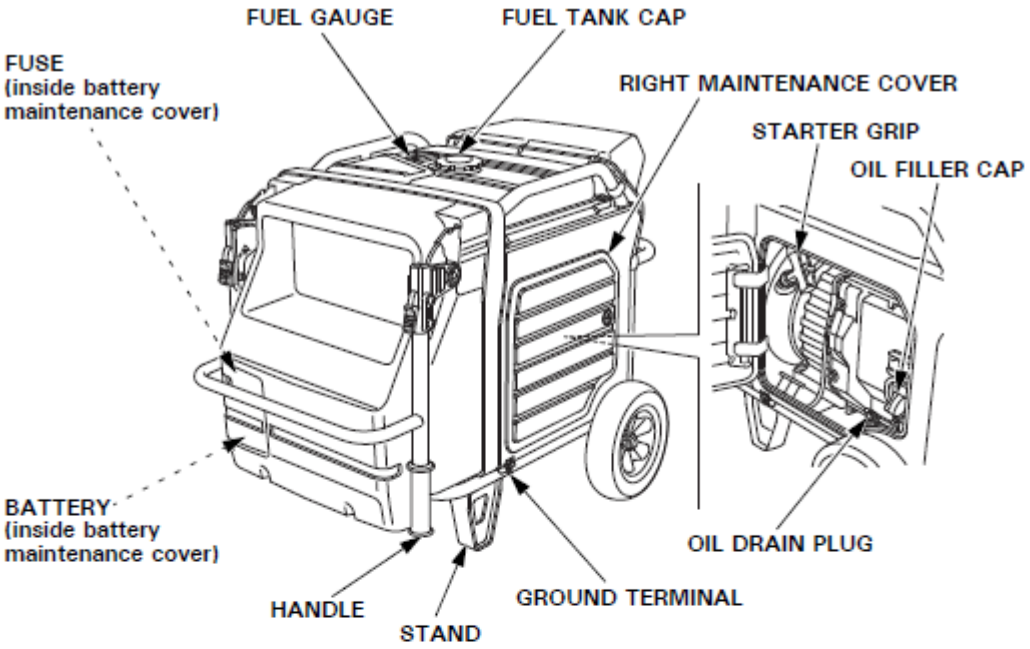
- Exhaust contains poisonous carbon monoxide, a colorless, odorless gas. Breathing carbon monoxide can cause loss of consciousness and may lead to death.
- If you run the generator in an area that is confined, or even partially enclosed area, the air you breathe could contain a dangerous amount of exhaust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

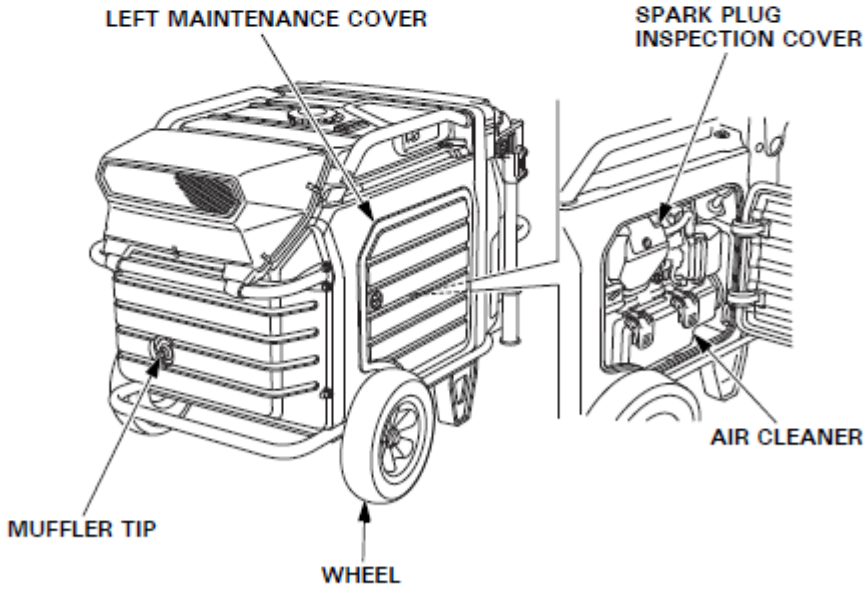
- Petrol is highly flammable and explosive.
  Turn the engine off and let it cool before refueling.

CONTROLS & FEATURES

Use the illustrations on these pages to locate and identify the most frequently used controls.**COMPONENT & CONTROL LOCATIONS**




FUEL GAUGE
FUEL TANK CAP
FUSE
(inside battery
maintenance cover)
RIGHT MAINTENANCE COVER
STARTER GRIP
OIL FILLER CAP
BATTERY
(inside battery
maintenance cover)
OIL DRAIN PLUG
HANDLE
STAND
GROUND TERMINAL


LEFT MAINTENANCE COVER
SPARK PLUG
INSPECTION COVER
AIR CLEANER
MUFFLER TIP
WHEEL

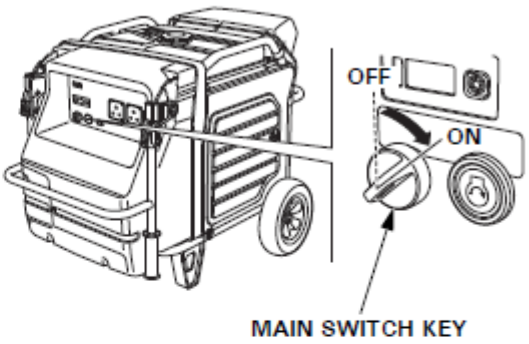
CONTROLS

MAIN Switch

The MAIN switch controls the ignition system.

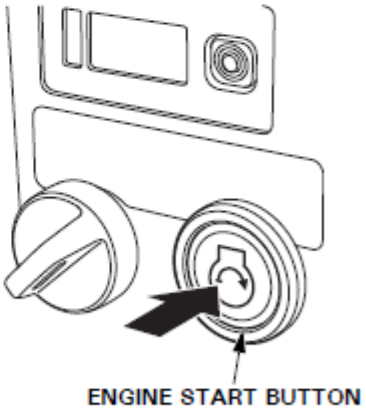
OFF – Stops the engine. The main switch key can be removed/ inserted.

ON – Running position, and for starting with the ENGINE START button or recoil starter.



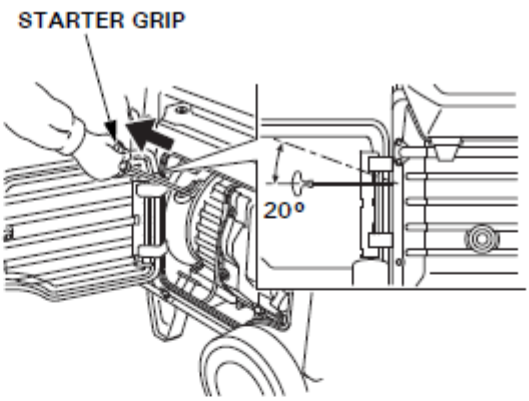
ENGINE START Button

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.*

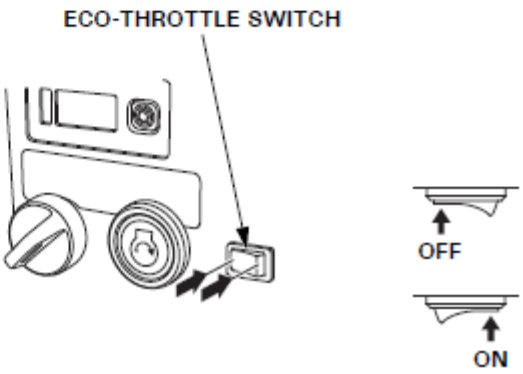
Eco-Throttle Switch

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.

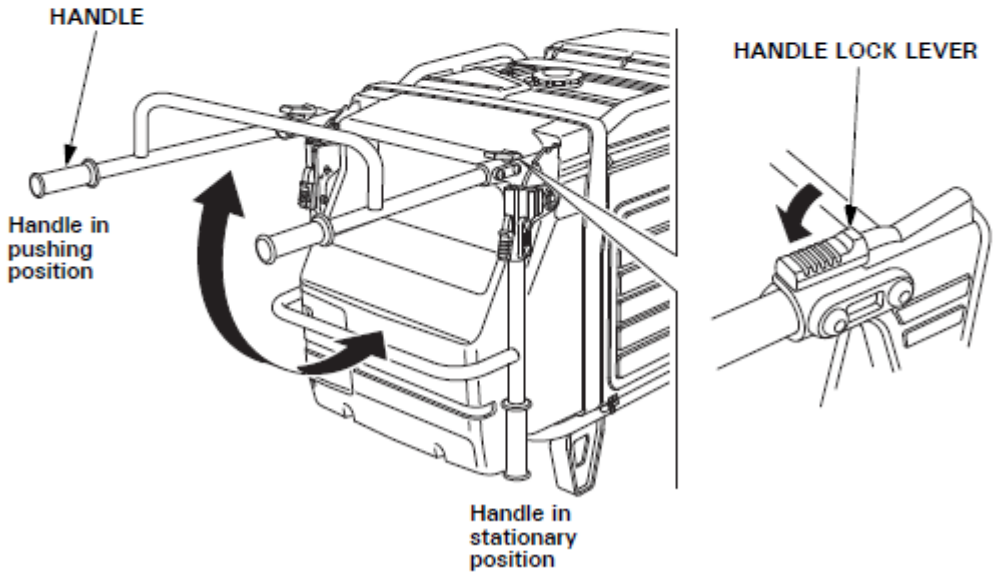
OFF – The Eco-Throttle system does not operate. Generator operates at full speed.



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.

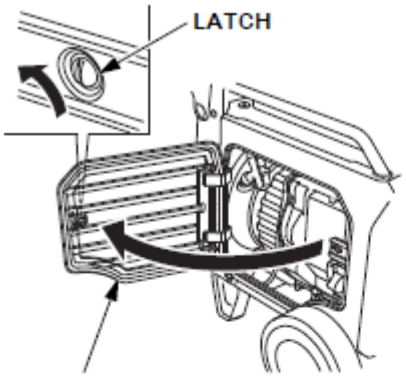
To Extend The Handle
Lift handle upward. Lock levers will lock and secure the handle into place.

To Fold The Handle
1. Press both handle lock levers downward.
2. Lower the handle.

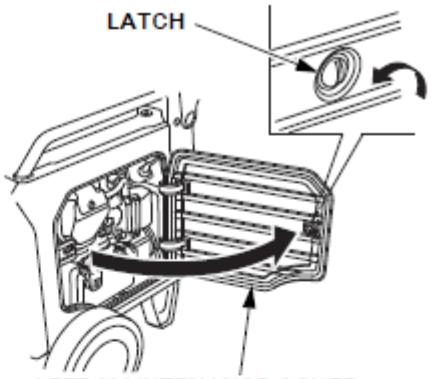


Maintenance Covers

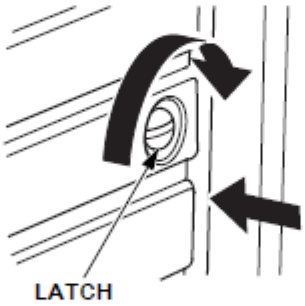
Maintenance cover location.



RIGHT MAINTENANCE COVER
- Engine oil level check
- Engine oil change
- Use recoil starter



LEFT MAINTENANCE COVER
- Spark plug inspection/replacement
- Air cleaner inspection/cleaning



Push the cover closed and turn the latch.

Be sure the maintenance covers are 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.

To open:

Turn the latch 90° counterclockwise.

To close:

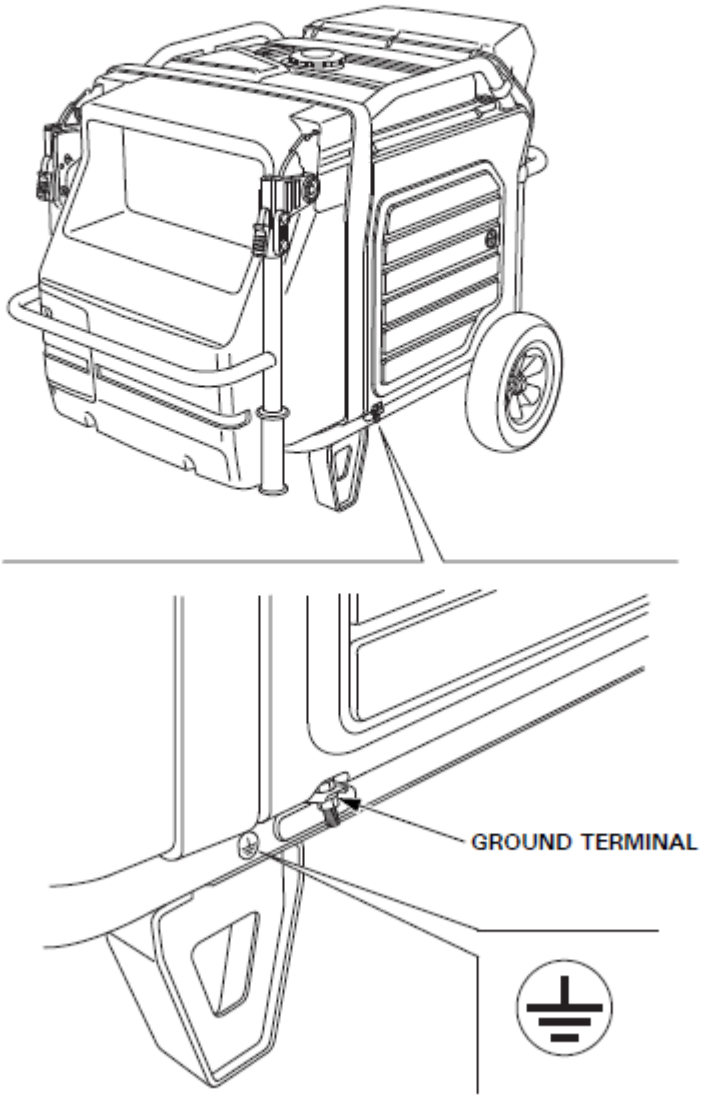
Turn the latch 90° clockwise to lock while pushing the cover.

FEATURES

Ground Terminal

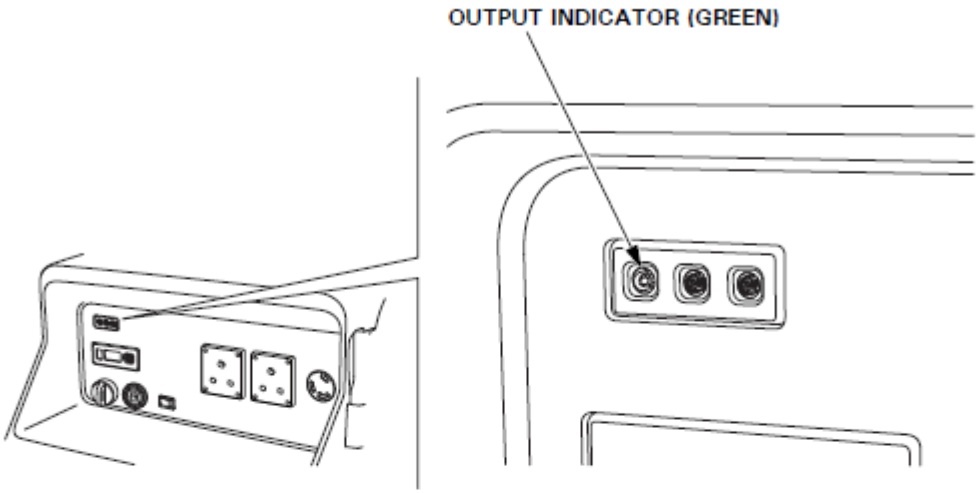
The ground terminal is connected to the frame of the generator, the metal non-current-carrying parts of the generator, and the ground terminals of each receptacle.

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.



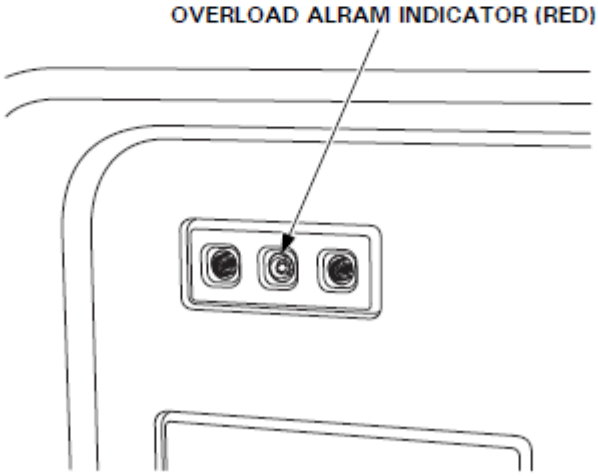
OUTPUT Indicator

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



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



OIL ALERT/CHECK Indicator

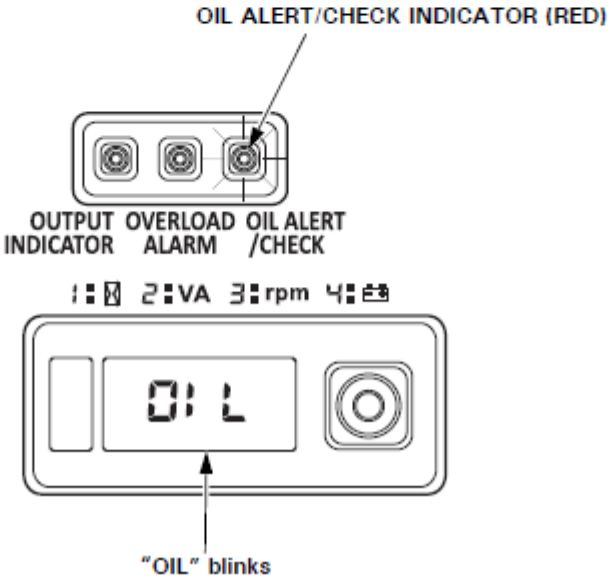
The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the OIL ALERT/CHECK indicator comes ON, and the Oil Alert system will automatically stop the engine (the MAIN switch will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

The i-Monitor display will blink ''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 42) 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 42), and then turn the MAIN switch back to the ON position.

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



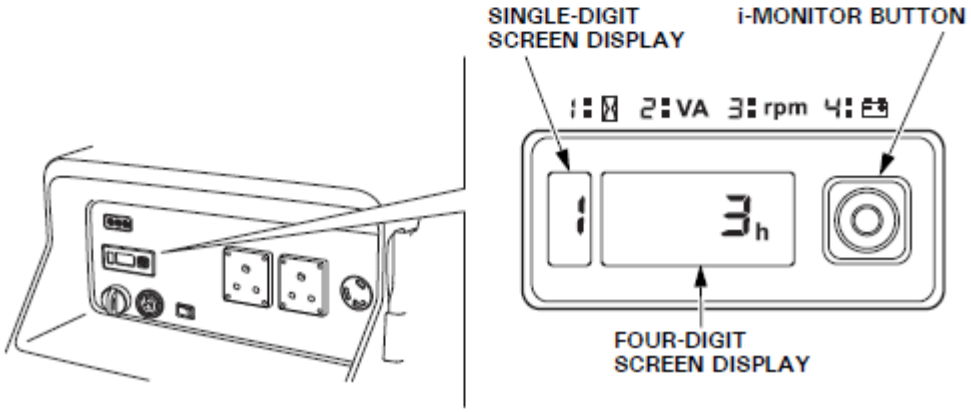
i-Monitor
The i-Monitor is a user interface that allows the operator to view (when the generator is running) total operating time in hours, generator output, engine RPM, battery voltage, and error messages. The different display modes are selected by pressing the i-Monitor button.

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.

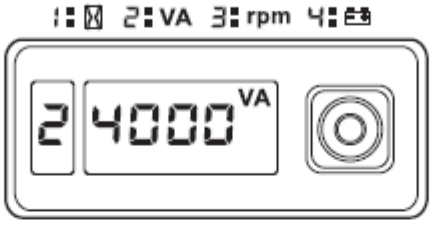
Display Backlight Flashes
If the key is left in the ON position for over 30 seconds without starting the engine, the display will start to flash.

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.

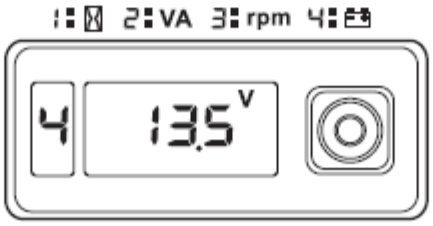


i-Monitor Display Mode 2 – Power Output
This mode displays an approximate generator output on the display screen. The output is expressed in VA (volt-amperes). The output value is not an exact measurement and should be regarded as a reference only. Power output will not display until a load is connected to the generator.



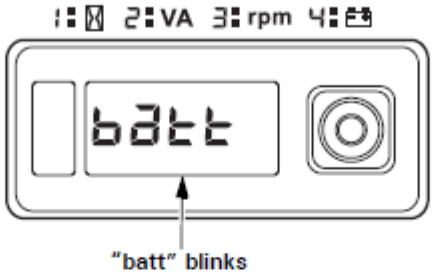
i-Monitor Display Mode 3 – Engine RPM
When the i-Monitor is in this mode, the engine's speed, expressed in revolutions-per-minute (RPM), is displayed.

i-Monitor Display Mode 4 – Battery Voltage
This mode displays the battery condition, expressed in Volts DC.



i-Monitor Low Battery Message

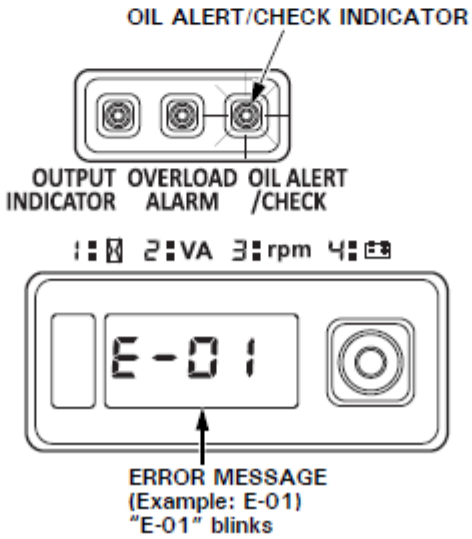
If the ENGINE START button is pressed and ''batt'' is blinked on the i-Monitor display, the battery voltage is too low to operate the engine's electric starter. Use the recoil starter to start the generator. Have the battery recharged and checked (see page 53).



i-Monitor System Error Messages

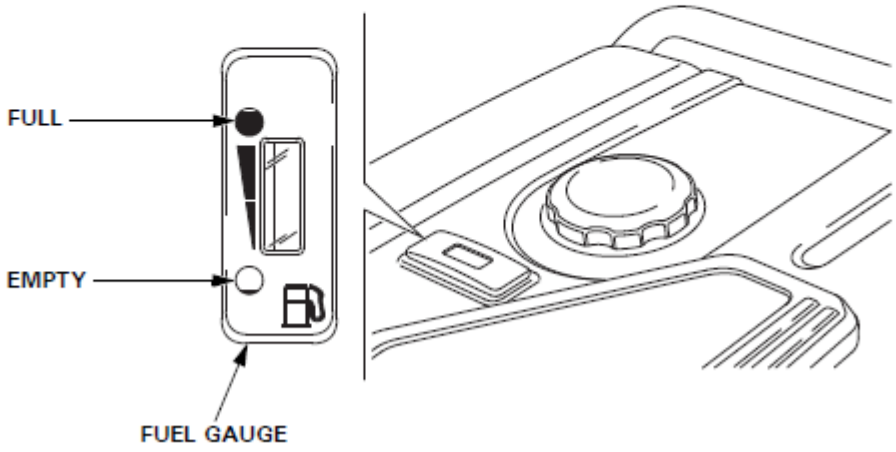
If the generator has a system malfunction, it will blink an error message on the i-Monitor display. During operation, an E-01 error message may display if the ENGINE START button is pressed for more than 10 seconds. With an E-01 error message, the engine will stay running and the electrical output may stay constant.

Normal 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.



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 33).

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 authorized Honda 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 1 meter away from building walls and other equipment during operation. Do not place flammable objects close to the engine.

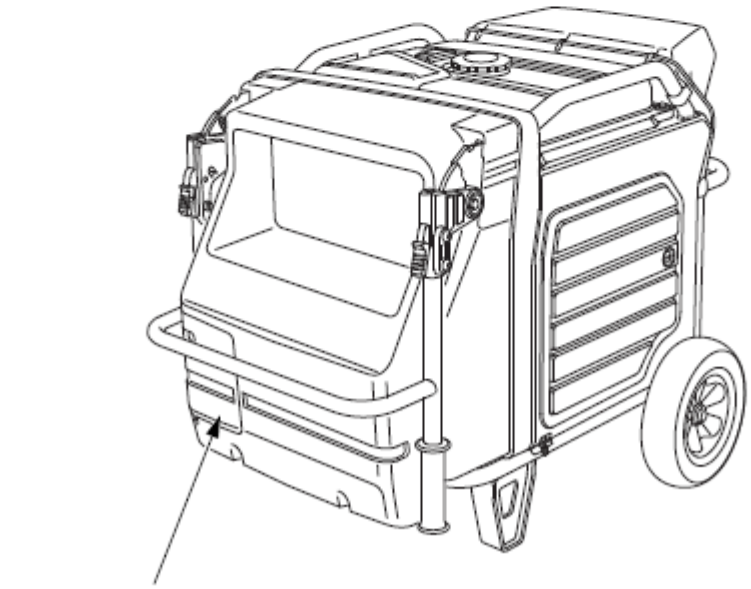
Before beginning your pre-operation checks, be sure the generator is on a level and firm surface and the MAIN switch is in the OFF position.

Check the Engine

- Before each use, look around and underneath the engine for signs of oil or petrol leaks.
- Check the engine oil level (see page 42). A low engine oil level will cause the Oil Alert system to shut down the engine.
- Check the air filters (see page 45). Dirty air filters will restrict air flow to the fuel system, reducing engine and generator performance.
- Check the fuel level (see page 40). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.

Battery Maintenance Cover

Never operate the generator with the battery maintenance cover open, as poor engine and generator performance will result.



OPERATION

SAFE OPERATING PRECAUTIONS

Before operating the generator for the first time, review chapters *GENERATOR SAFETY* (see page 6) and *BEFORE OPERATION* (see page 24).

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 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.

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 50) and the Fuel section of the *STORAGE* chapter (see page 55) for additional information regarding battery and fuel deterioration.

STARTING THE ENGINE

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

NOTICE

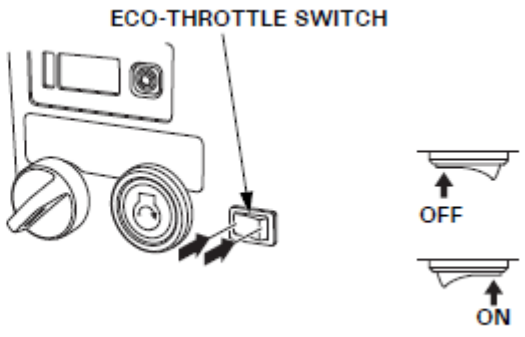
- *Operating this generator less than 1 meter from a building or other obstruction can cause overheating and damage the generator.*
- *For proper cooling, allow at least 1 meter of empty space above and around the generator.*
  Keep all cooling holes open and clear of debris, mud, water, etc. Cooling 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 26 and perform the *IS YOUR GENERATOR READY TO GO?* checks (see page 24).

Refer to *AC OPERATION* (see page 31) for connecting loads to the generator.

1. Make sure that all appliances are disconnected from the AC receptacles.

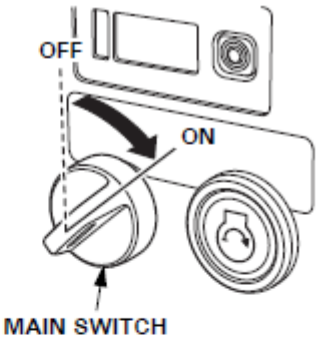
2. Make sure the Eco-Throttle switch is in the OFF position, or more time will be required for warm-up.
   If you wish to use the Eco-Throttle system, turn the Eco-Throttle switch to the ON position after the engine has warmed up for 2 or 3 minutes.

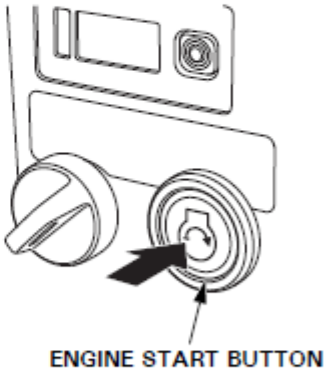


3. Turn the MAIN switch to the ON position.

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.

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



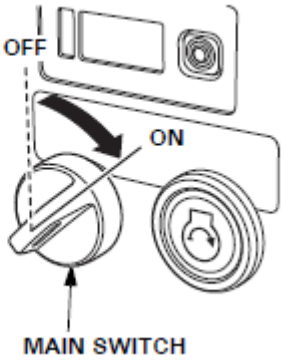


Do not leave the MAIN switch in the ON position when the generator is not operating or the battery will be drained. Turn the MAIN switch to the OFF position when not in use.

- Use the recoil starter when the battery voltage is too low to turn the starter motor.

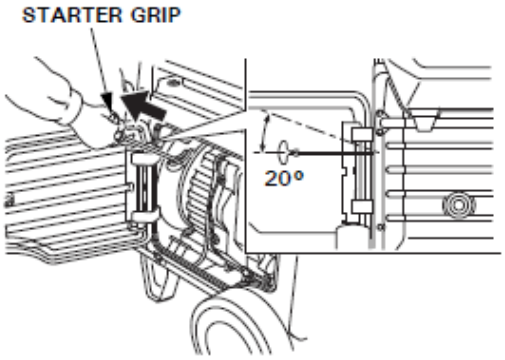
  a. Turn the MAIN switch to the ON position.

  b. Open the right maintenance cover by turning its latch counterclockwise.



MAIN SWITCH

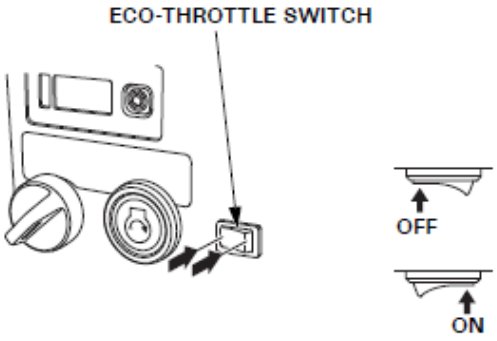
c. Pull the starter grip lightly until you feel resistance; then pull briskly in the direction of the arrow as shown.



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.

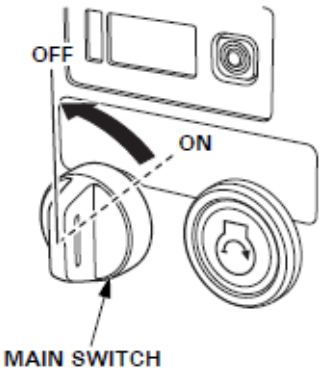


you wish to use the
co-Throttle system, turn the
co-Throttle switch to the ON
osition after the engine has
armed up for 2 or 3 minutes.

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.

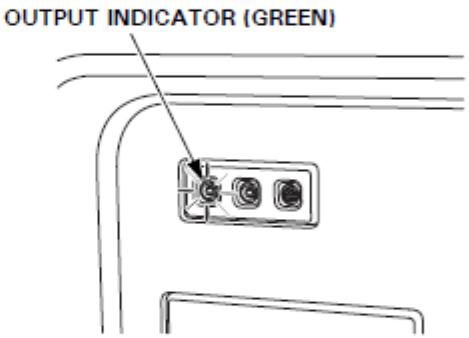
AC OPERATION

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.

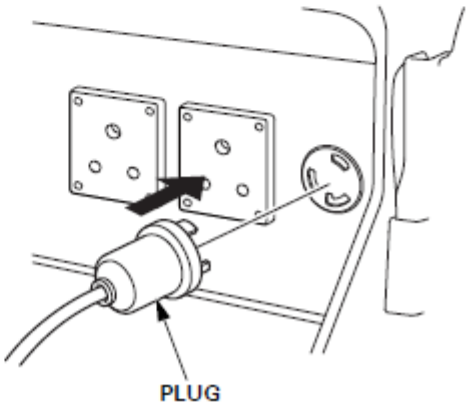
NOTICE

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



2. 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.

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.

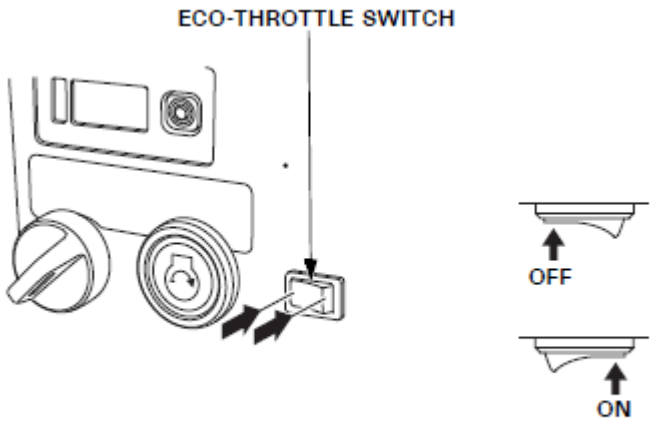
ECO-THROTTLE SYSTEM

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.



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.

Special Requirements

NOTICE

Keep all cooling holes open and clear of debris, mud, water, etc. Cooling holes are located on the control panel side of the generator. If the cooling holes are blocked, the generator may overheat and damage the engine, inverter, or windings.

NOTICE

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

There may be applicable laws, 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.