

SERVICING YOUR GENERATOR

FUEL RECOMMENDATIONS

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

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

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

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

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

If your equipment will be used on an infrequent basis, please refer to the fuel section of the STORAGE chapter (see page 54) for additional information regarding fuel deterioration.

This is of the utmost importance, less than recommended fuel will reduce the life of this instrument so as paying members of KCA this equipment was purchased by your KCA fees.

OPERATION

OPERATION

SAFE OPERATING PRECAUTIONS

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

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

⚠ WARNING

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

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

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

- Use grounded 3-prong extension cords, tools, and appliances, or double-insulated tools and appliances.
- Inspect cords and plugs, and replace if damaged.
- Make sure that the appliance is in good working order. Faulty **appliances** or power cords can create a potential for electric shock.
- **Make sure the electrical rating of the tool or appliance does not exceed that of the generator. Never exceed the maximum power rating of the generator. Power levels between rated and maximum may be used for no more than 30 minutes.**
- **Operate the generator at least 3 feet (1 meter) away from buildings and other equipment.**
- Do not operate the generator in an enclosed structure.

OPERATION

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.

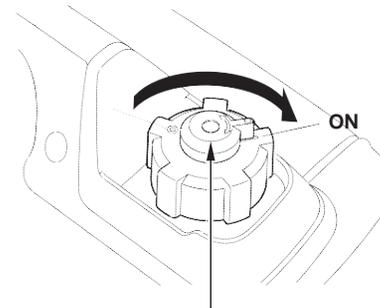
NOTICE

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.

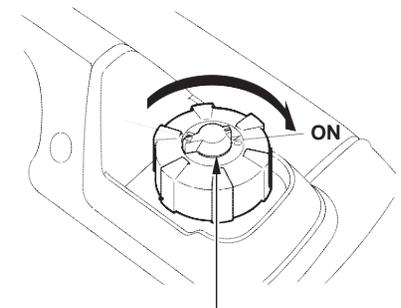
Refer to *SAFE OPERATING PRECAUTIONS* on page 22 and perform the *IS YOUR GENERATOR READY TO GO* checks (see page 20). Refer to *AC Operation* (see page 28) for connecting loads to the generator.

1. **Make sure that all appliances connected to the generator are turned off. The generator may be hard to start if a load is connected.**
2. Turn the fuel tank cap vent lever to the ON position.

NON-CALIFORNIA TYPE

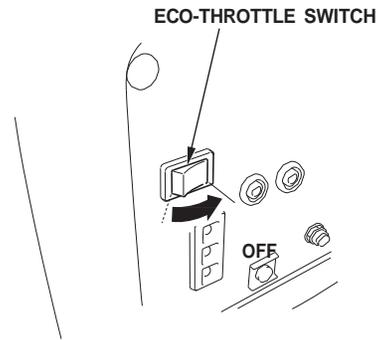


CALIFORNIA TYPE

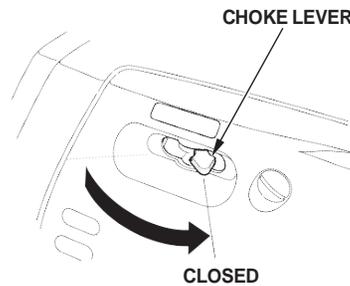


OPERATION

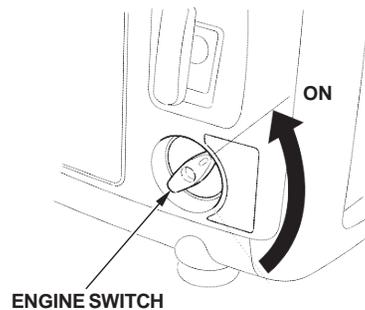
1. Make sure the Eco-Throttle switch is in the OFF position, or more time will be required for warm-up.



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



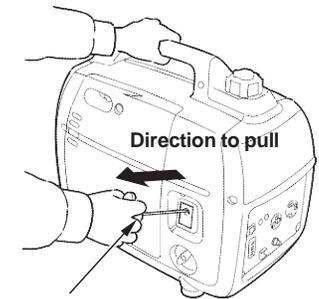
3. Turn the engine switch to the ON position.



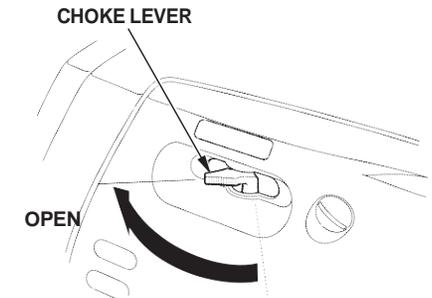
1. Pull the starter grip lightly until you feel resistance, then pull briskly in the direction of the arrow as shown.

NOTICE

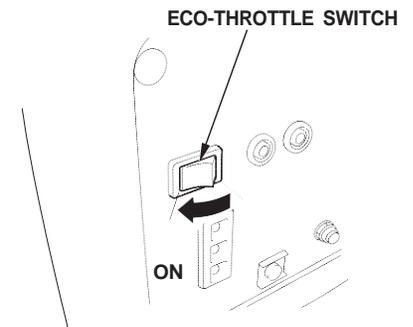
- Do not allow the starter grip to snap back against the generator. Return it gently to prevent damage to the starter.



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



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

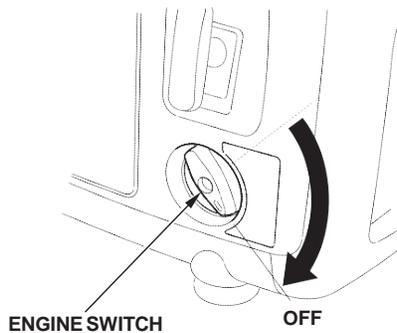


OPERATION

STOPPING THE ENGINE

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

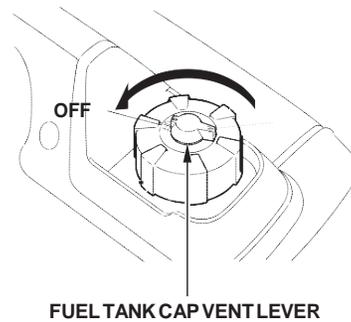
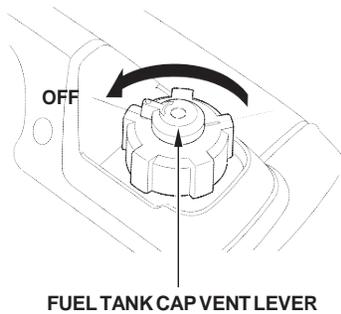
1. Turn off or disconnect all appliances connected to the generator.
2. Turn the engine switch to the OFF position.



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

NON-CALIFORNIA TYPE

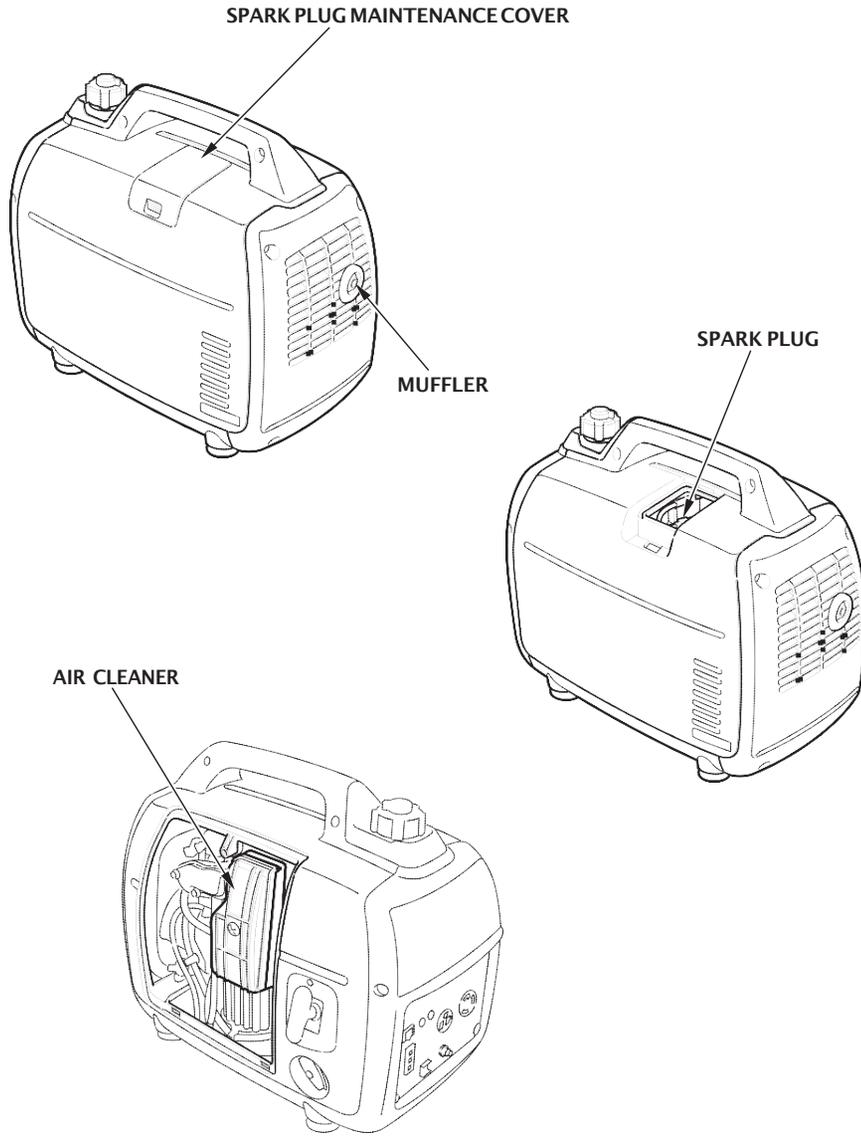
CALIFORNIA TYPE



Very important for your sensitive equipment as well as the inverter/generator.

CONTROLS & FEATURES

CONTROLS & FEATURES



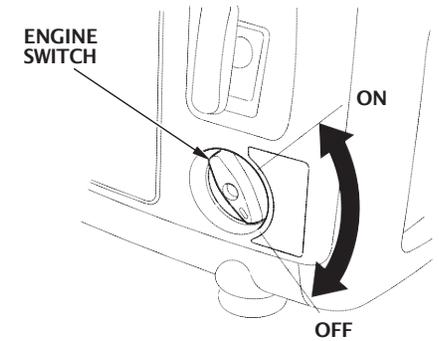
CONTROLS

Engine Switch

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

OFF – Stops the engine and closes the fuel valve.

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



Starter Grip

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

NOTICE

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

