



OPERATION MANUAL



**SCAN FOR COMPLETE OPERATION MANUAL
(MOBILE DEVICE WITH QUICK RESPONSE CODE APPLICATION REQUIRED)**

THIS IS JUST A SUMMARY OF THE COMPLETE MANUAL



BEFORE OPERATION

ARE YOU READY TO GET STARTED?

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

Knowledge

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

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

If the generator is being used to power appliances, be sure that they do not exceed the generator's load rating (see pages 28 and 32).

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

Failure to properly maintain this generator, or failing to correct a problem before operation, could result in a significant malfunction.

Some malfunctions can seriously hurt or kill you.

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



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BEFORE OPERATION

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

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

Check the Engine

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



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SAFE OPERATING PRECAUTIONS

Before operating the generator for the first time, review chapters *GENERATOR SAFETY* (see page 6) and *BEFORE OPERATION* (see page 19).

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 this product's engine in a closed, or even partly closed area.

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 or locate the generator near flammable materials.



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STARTING THE ENGINE

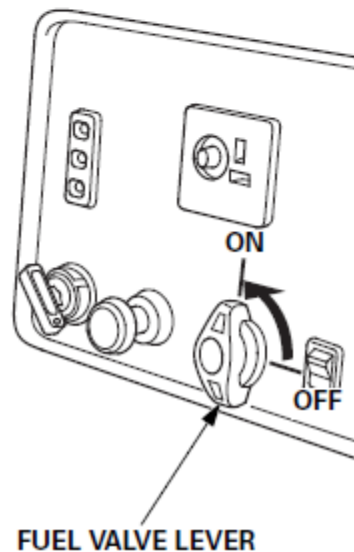
To prevent a possible fire, keep the generator at least 3 feet (1 meter) away from building walls and other equipment during operation. Do not place flammable objects close to the engine.

NOTICE

Operating this generator less than 3 feet (1 meter) from a building or other obstruction can cause overheating and damage the generator. For proper cooling, allow at least 3 feet (1 meter) of empty space above and around the generator.

Refer to *SAFE OPERATING PRECAUTIONS* on page 21 and perform the *IS YOUR GENERATOR READY TO GO* checks (see page 19). Refer to *AC OPERATION* (see page 27) or *DC OPERATION* (see page 33) for connecting loads to the generator.

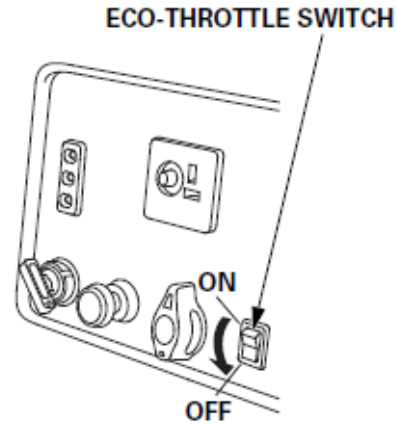
1. Make sure that all appliances are disconnected from the AC receptacle.
2. Turn the fuel valve lever to the ON position.



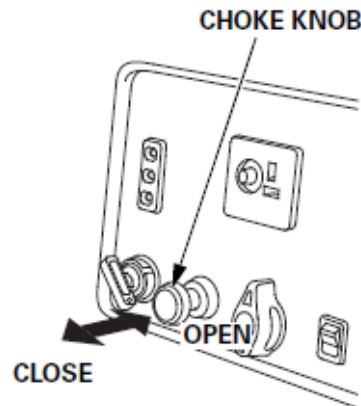


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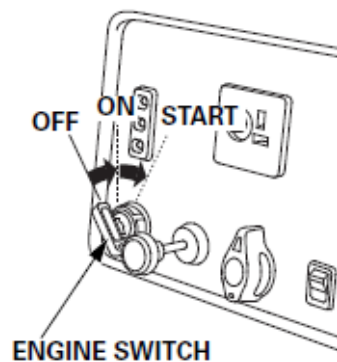
3. Make sure the Eco-Throttle switch is in the OFF position, or more time will be required for warm-up.



4. To start a cold engine, pull the choke knob out to the CLOSED position. To restart a warm engine, leave the choke knob in the OPEN position.



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



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

NOTICE

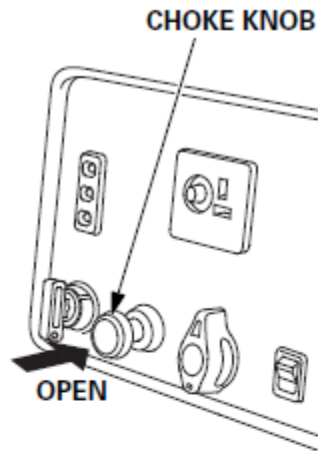
Using the electric starter for more than 5 seconds at a time will overheat the starter motor and can damage it.

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

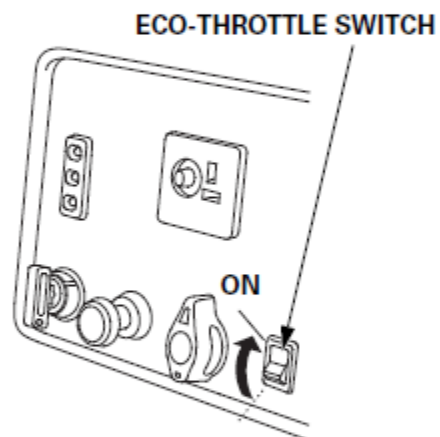


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6. If the choke knob was moved to the CLOSED position to start the engine, gradually push it to the OPEN position as the engine warms up.



7. 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.



Manual starting:

1. Make sure that all appliances connected to the generator are turned off.
2. Turn the fuel valve lever to the ON position.
3. To start a cold engine, pull the choke knob out to the CLOSED position.
To restart a warm engine, leave the choke knob in the OPEN position.
4. Turn the engine switch to the ON position.

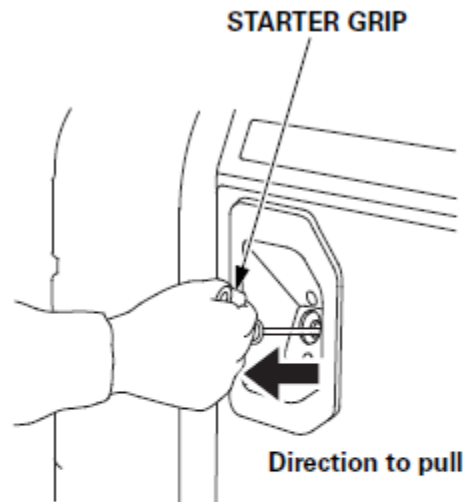


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5. Pull the starter grip lightly until you feel resistance; then pull briskly in the direction of the arrow as shown.

NOTICE

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



6. If the choke knob was moved to the CLOSED position to start the engine, gradually push it to the OPEN position as the engine warms up.
7. 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.

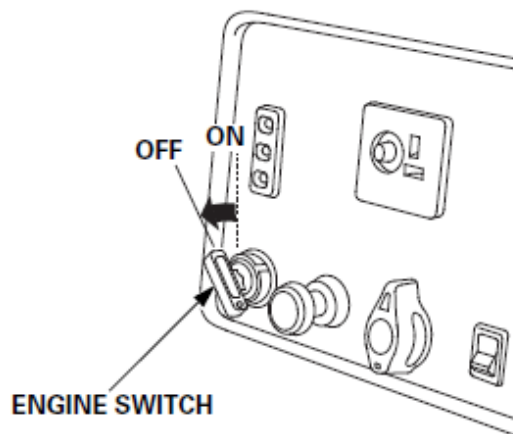


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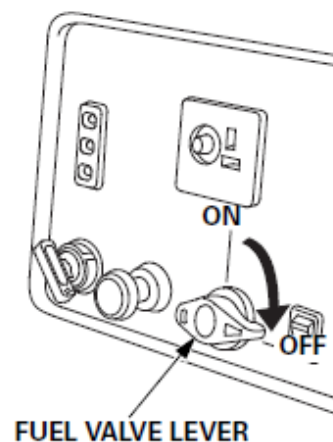
STOPPING THE ENGINE

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

1. Turn off or disconnect all appliances that are connected to the generator or the parallel operation kit.
2. Turn the engine switch to the OFF position.



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



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

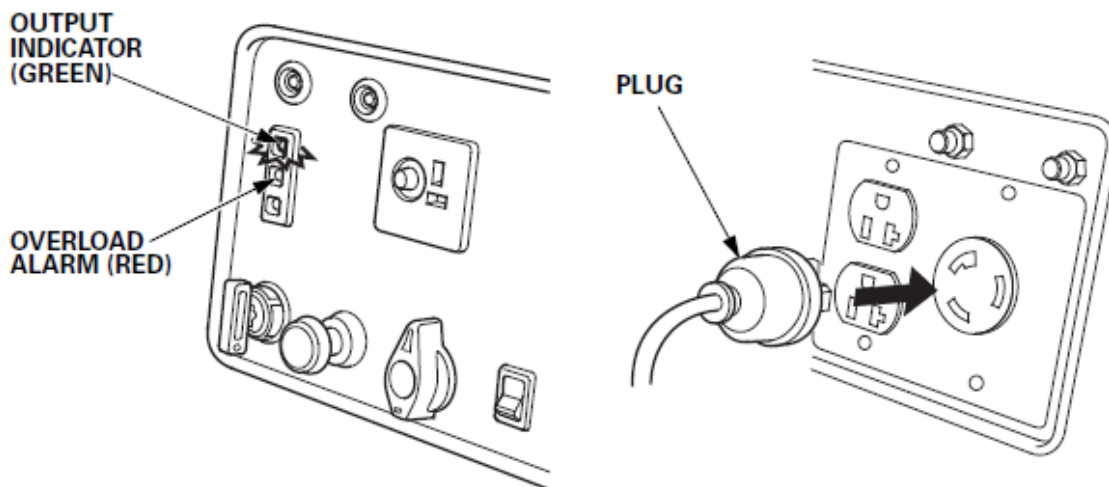


AC OPERATION

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

Most motorized appliances require more than their electrical rating for startup. When an electric motor is started, the overload alarm (red) may come on. This is normal if the overload alarm (red) goes off within 4 seconds. If the overload alarm (red) stays on, consult your generator dealer.

1. Start the engine (see page 22) and make sure the output indicator (green) comes on.
2. Plug in the appliance.



3. Turn on the appliance.

If the generator is overloaded (in excess of 3.0 kVA), if there is a short circuit in a connected appliance, or if the inverter is overheated, the overload alarm (red) will come ON. The overload alarm (red) will stay ON, and after about five seconds, current to the connected appliance(s) will shut off, and the output indicator (green) will go OFF. Stop the engine and investigate the problem.

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



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AC Applications

Before connecting an appliance or power cord to the generator:

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

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:

3.0 kVA

For continuous operation, do not exceed the rated power.

Rated power is:

2.8 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 may damage the generator. Marginal overloading that temporarily lights the red overload alarm may shorten the service life of the generator.