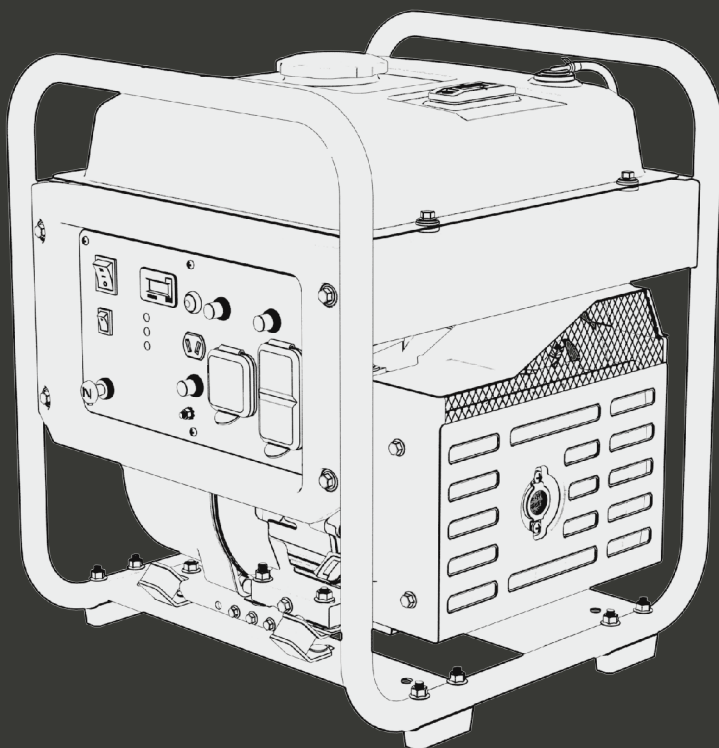


HYUNDAI

HY4800

User Manual



HYUNDAI

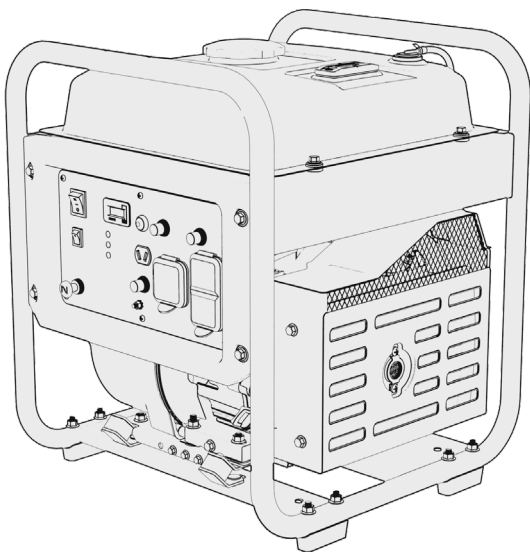
This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

©2020 Hyundai Power Equipment. All Rights Reserved.
Licensed by Hyundai Corporation, Korea.

HY4800_UG_EN_2019-12-20

Thanks for choosing the HY Series!

You're excited to power up, so we'll keep this brief. Let's get started!



THIS PRODUCT MEETS ALL CERTIFICATION REQUIREMENTS FROM:



WE'VE GOT YOU COVERED!

Contact us by phone at 1-877-528-3772,
email us at support@hyundaipower.ca, or visit us online
at www.hyundaipower.ca if you have any questions

SAVE THESE INSTRUCTIONS

This user guide contains important instructions for your product, that should be followed during installation and maintenance of the generator.

This user guide covers the safety, operation and maintenance procedures for the HY4800.

All information in this publication is based on the latest product information available at the time of print.

Visit www.hyundaipower.ca for user guide updates and operation notices.

No part of this publication may be reproduced without written permission.

WARRANTY INFORMATION

YOU CAN REGISTER EASILY USING OUR ONLINE FORM:
www.hyundaipower.ca/register-warranty

See 'Limited Warranty' for more information.

Product registration will allow you to request warranty support in the future. Product registration is required for all product support and warranty coverage.

Warranty support, operation assistance and product support is provided by Midland Power Inc., a licensed manufacturer of Hyundai Power Equipment. Please contact us directly for any warranty service questions.

1-877-528-3772
support@hyundaipower.ca
www.hyundaipower.ca



TABLE OF CONTENTS

1. Safety	1
2. Learn About Your Generator	5
2.1 Component Identification	5
2.2 Control Panel	6
2.3 Control Functions	7
2.4 Make Sure You Have Everything	9
3. Pre-Operation Check	9
3.1 Fill the oil	9
3.2 Check the Fuel Level	11
3.3 Prepare the Air Cleaner	12
4. Starting the Engine	13
4.1 Starting Your Generator	14
5. Generator Use	16
5.1 Output, Overload, and Oil Alert Indicator	16
5.2 DC Applications	17
5.3 AC Applications	18
6. Stopping the Engine	19
7. Maintenance	20
7.1 Maintenance Schedule	21
7.2 Changing the Oil	22
7.3 Cleaning the Air Filter	24
7.4 Spark Plug Service	25
7.5 Spark Arrester Maintenance	26
7.6 Fuel Filter Maintenance	27
8. Transportation & Storage	30
9. Troubleshooting	32
10. Technical Specifications	34
11. Wiring Diagram	35
12. Appendix	36
13. Limited Warranty	37


1. SAFETY

⚠ DANGER ⚠

Using a generator indoors can **KILL YOU IN MINUTES**.
Generator exhaust contains carbon monoxide.
This is poison that 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.

**Avoid other generator hazards
READ MANUAL BEFORE USE.**

DANGER!

Using a generator indoors can kill you in minutes.

Generator exhaust contains carbon monoxide. This is a poison that you cannot see or smell.

NEVER use inside a home or garage.

WARNING!

This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

1.1 OPERATOR SAFETY

WARNING!

- Always perform an oil, fuel and air filter check before starting the engine.
- Properly clean and maintain the equipment.
- Operate the generator according to instructions for safe and dependable service.
- Before operating the generator, read the user guide carefully. Otherwise, personal injuries or equipment damage may result.
- Never run the generator in an enclosed area to avoid harm from exhaust emissions of a poisonous carbon monoxide gas.
- Pay attention to the warning labels. The engine exhaust system will become heated during operation and remain hot immediately after the engine is stopped.

HYUNDAI

1

- Gasoline is a highly flammable and explosive liquid. Refuel in a well ventilated area with the engine stopped.
- Use of gasoline with an ethanol content greater than 10% can damage the engine and fuel system and will void the manufacturer's warranty.
- When refueling the generator, keep it away from cigarettes, open flames, smoke and/or sparks.
- Place the generator at least 3 feet away from buildings or other equipment during operation.
- Run the generator on a level surface. Tilting the generator may result in fuel spills.
- Do not touch the spark plug while the engine is operating or shortly after the engine has been shut down.
- Know how to stop the generator quickly and understand operation of all the controls. Never permit anyone to operate the generator without proper instructions.
- Keep children, pets and machinery with rotating parts away during operation.
- Do not operate the generator in rain or snow.
- Do not allow any moisture to come in contact with the generator.

1.2 AC SAFETY

WARNING!

Before connecting the generator to an electrical device or power cord:

- Make sure that everything is in proper working order. Faulty devices or power cords can lead to an electrical shock.
- Turn off the generator immediately if the device begins to operate abnormally. Then disconnect the device and investigate the problem.
- To prolong engine life, do not exceed the rated running wattage.
- Keep away from other electric cables or wires.
- Make sure that the electrical rating of the device does not exceed that of the generator. If the power level of the device is between the maximum output power and the running power of the generator, the generator should not be used for more than 30 minutes.
- When an extension cable is required, be sure to use a tough rubber sheathed flexible cable (according to IEC245 or equivalent standards). The maximum length of the extension cable: 196 feet (60 meters) for cable of 15.5 gauge (1.5mm²); 328 feet (100 meters) for cable of 13.25 gauge (2.5mm²).

- Connections for standby power to a building's electrical system must be done by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections may cause serious injuries to electrical workers during a power outage, and when the utility power is restored, the generator may explode or cause fires. The generator shall be connected through transfer equipment that switches all conductors other than the equipment grounding conductor. The frame of the generator shall be connected to an approved grounding electrode.
- This unit is floating neutral. The generator (stator winding) is isolated from the frame and from the AC receptacle ground pin.
- Electrical devices that require a grounded receptacle pin connection will not function if the receptacle ground pin is not functional.


1.3 MAINTENANCE SAFETY

WARNING!

- After any maintenance is performed, wash immediately using soap and clean water because repeated exposure to lubricant may cause skin irritation.
- Do not clean the filter element with flammable liquids like gasoline because an explosion may occur.
- Allow the generator set to cool down and turn off the engine before performing any maintenance. Failure to do so can cause severe personal injury or death.
- Always wear safety glasses when cleaning the generator set with air.
- Do not clean the generator set with a pressure washer because it can damage the generator set.
- When working with batteries, ventilate the area, use safety glasses, do not smoke. Always disconnect the negative first and reconnect it last.
- Use rubber gloves when coming into contact with engine oil.
- Always stop the generator set before removing the oil filler cap.
- Only qualified maintenance personnel with knowledge of fuels, electricity, and machinery hazards should perform maintenance procedures.
- See chapter 7.1 for maintenance schedule.

1.4 OTHER SAFETY TIPS

⚠ WARNING ⚠
AVERTISSEMENT



TOXIC FUMES HAZARD. Running engines give off carbon monoxide, an odourless poisonous gas that can cause nausea, fainting, or death. Do not start engine indoors or in an enclosed area, even if the windows and doors are open.

DANGER TOXIQUE. Faire fonctionner un moteur dégage de l'oxyde de carbone, un gaz inodore toxique qui peut provoquer la nausée, évanouissement ou la mort. Ne démarrer pas le moteur à l'intérieur ou dans une espace clos, meme si les fenêtres et les portes sont ouvertes.

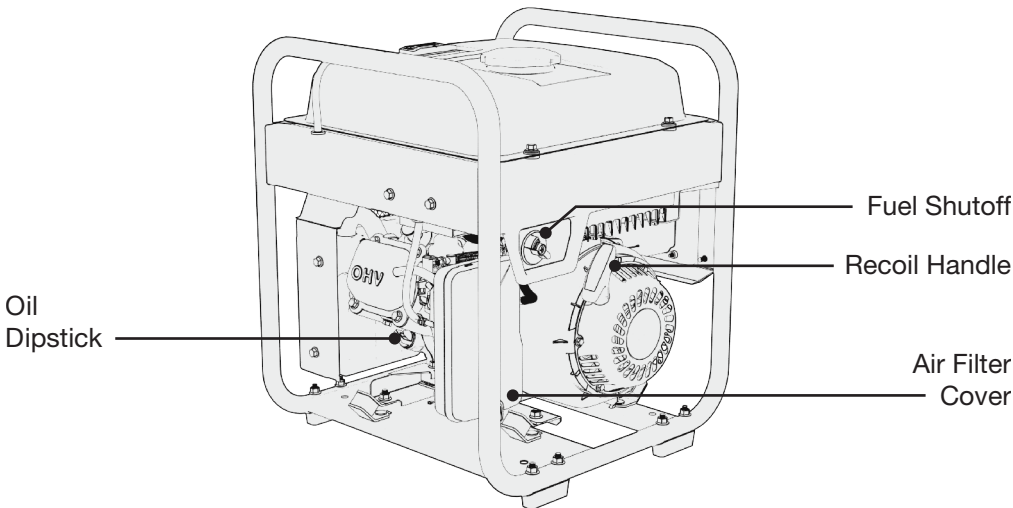
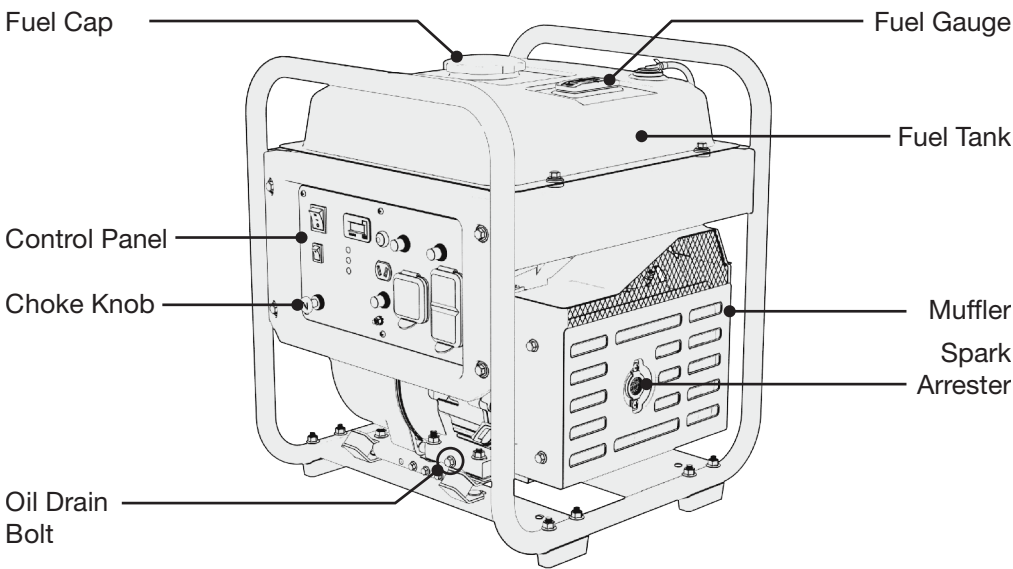
⚠ WARNING!

- To avoid breathing in poisonous carbon monoxide from the exhaust gases, adequate ventilation should be provided if the generator set is running in a partially enclosed space.
- If the generator set is stored outdoors, check all the electrical components on the control panel before each use. Moisture can damage the generator and can lead to an electric shock.
- Do not connect an extension to the exhaust pipe.
- Generators vibrate in normal use. During and after the use of the generator, inspect the generator as well as extension cords and power supply cords connected to it for damage resulting from vibration. Have damaged items repaired or replaced as necessary. Do not use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.
- If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air **RIGHT AWAY**. See a doctor. You could have carbon monoxide poisoning.

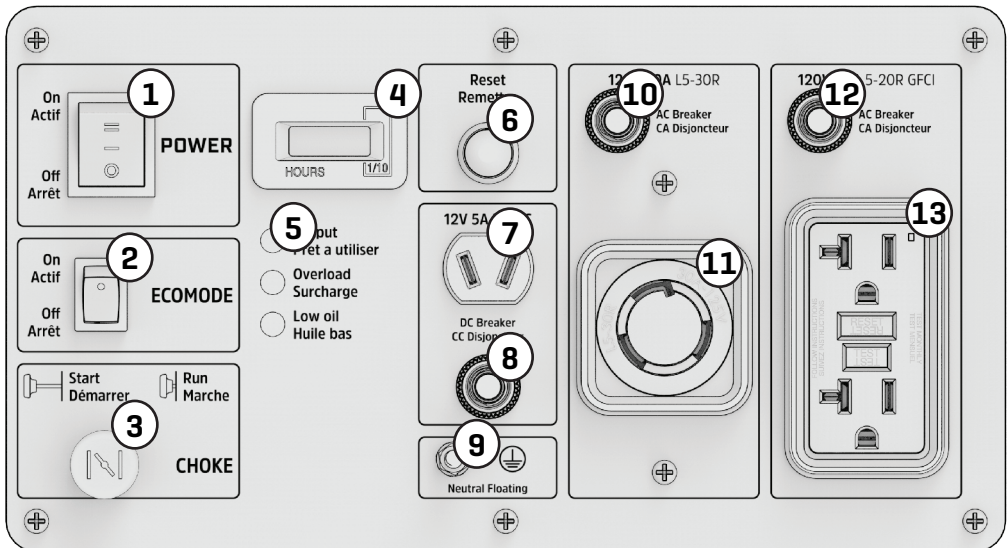
2. LEARN ABOUT YOUR GENERATOR

This section will show you how to identify key parts of your generator. Going over the terminology below will make sure we're on the same page.

2.1 COMPONENT IDENTIFICATION



2.2 CONTROL PANEL



- | | |
|-------------------------|----------------------------|
| 1. Power Button | 8. DC Breaker |
| 2. EcoMode Switch | 9. Ground Terminal |
| 3. Choke | 10. AC Breaker |
| 4. Hour Meter | 11. 120V 30A L5-30R Outlet |
| 5. Indicator Lights | 12. AC Breaker |
| 6. Reset | 13. 120V 20A 5-20R Outlet |
| 7. 12V 5A DC Receptacle | |

2.3 CONTROL FUNCTIONS

AC Circuit Breakers

- While the generator is running, the breakers should be put in the ON position.
- If the current has exceeded its limits it will automatically pop out to the OFF position. Reduce the electrical load on the generator and push the button back to the ON position.

DC Circuit Breakers

- The DC circuit breaker automatically shuts off when the charging circuit is overloaded.
- If the current has exceeded its limits the breaker will automatically pop out to the OFF position. Reduce the electrical load on the generator and push the button back to the ON position.

EcoMode (Economy Control Switch)

- Turning EcoMode to ON is recommended for minimizing fuel consumption. In this mode the engine will dynamically meet the demand of the current electrical load and will automatically go into an idle state if all electrical loads are disconnected.
- Before connecting or removing a high load device to the generator, turn EcoMode to OFF until that device has reached running power.
- When EcoMode is OFF, the engine runs at full speed.

Ground Terminal

WARNING!

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

- Floating Neutral. The ground terminal is connected to the non-current carrying metal parts (such as the fuel tank), the frame, and the ground terminals of the AC outlets.

Low Oil Indicator Light

- 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 reaches an unsafe limit, the oil alert system will automatically shut down the engine (the power switch remains in the ON position).
- If the oil alert system shuts down the engine, the low oil indicator light

(red) will turn on. Check the engine oil level.

Output and Overload Indicator

- In normal operation, the green output indicator light (READY TO USE) will remain on.
- If the generator is overloaded or a connected appliance has short-circuited, the output indicator light will turn off and the overload indicator light will turn on. Press the reset button to resume power output.

Power Switch

- The two-way power switch starts and stops the unit.
- ON: Switch must be in this position to recoil start.
- OFF: Stops the engine.

Reset Button

- Use the RESET button in the case of a sudden engine overload.
- Disconnect all electrical appliances and then press and hold the reset button for 1 second, this will reset the engine. After resetting, if the overload indicator light has turned off and the output indicator light has turned back on, reconnect the electrical appliances. Otherwise, stop the engine by turning the power switch to STOP, and check the generator.

NOTE

- The RESET button is available a maximum of 5 times for every full start of the generator. Shut down the generator and restart using the power switch to refresh available resets.
- If the generator is running normally, the RESET button will have no effect.

2.4 MAKE SURE YOU HAVE EVERYTHING

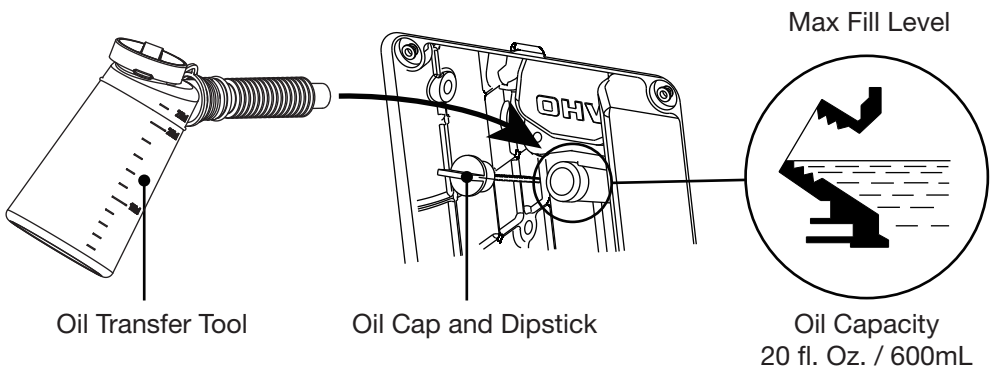
Make sure your generator has everything listed in the table below.

Part Name	Quantity
Inverter Generator	1
User Guide	1
Spark Plug Wrench - Sleeve	1
Spark Plug Wrench - Bar	1
Multi Screwdriver	1
DC Charging Cable	1
Oil Transfer Tool	1

3. PRE-OPERATION CHECK

Set the generator on a level surface and the power switch to OFF.

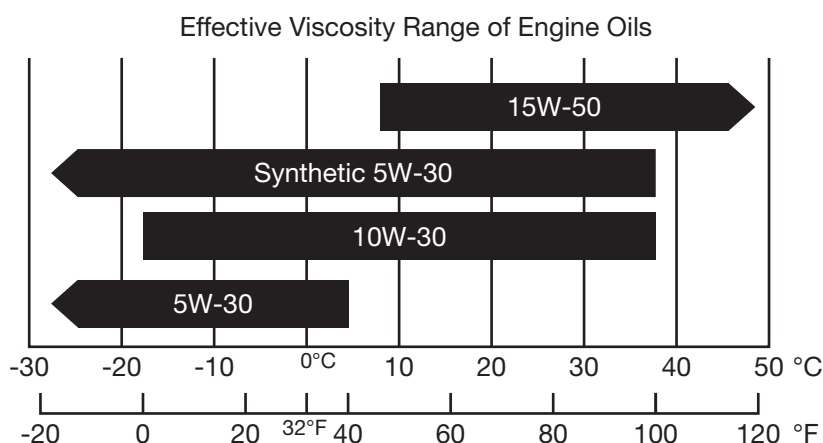
3.1 FILL THE OIL



- 1. Unscrew the oil dipstick.
- 2. Fill with fresh oil up to the maximum fill level on the dipstick.
- 3. Check the oil level by reinserting the dipstick *without* rethreading it. Remove the dipstick and examine the oil level. If the oil level is at or below the minimum oil level, continue filling the oil to the maximum oil level mark.
- 4. Reinsert the dipstick and tighten securely.

NOTE

- SAE 10W-30 or SAE Synthetic 5W-30 is recommended for general use.
- Use of synthetic oil does not change maintenance intervals.
- Oil Capacity: 20 fl. oz. / 600 mL
- DO NOT OVERFILL.



NOTE

- Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.
- Use high quality 4-stroke engine oil, certified to meet or exceed API standard SG, SF, SAE ratings with strong detergents. Using non-detergent or 2-stroke oil could shorten the engine's working life.
- Do not mix different engine oils.
- Handle and store the engine oil with care, avoid getting dirt or dust into the engine oil.
- Before the engine oil falls below the safety margin, the low oil alert system will automatically shut off the engine. The low oil light will turn on.
- To avoid the inconvenience of unexpected engine shutoff, check the oil level as often as possible.

3.2 FILL FUEL TANK

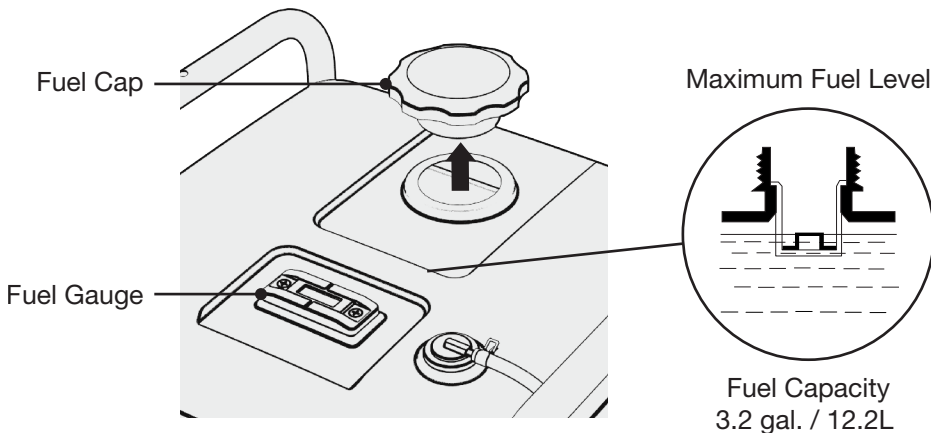
NOTE

- Use of gasoline with an ethanol content greater than 10% can damage the engine and the fuel system and will void the manufacturer's warranty.
- Only use unleaded gasoline (Octane 85 or higher).
- Never use stale or contaminated gasoline, or an oil/gasoline mixture.
- Avoid getting dirt or water into the fuel tank.
- Do not use a mixture of gasoline containing methanol. This will cause serious damage to the engine.

⚠ DANGER! ⚠

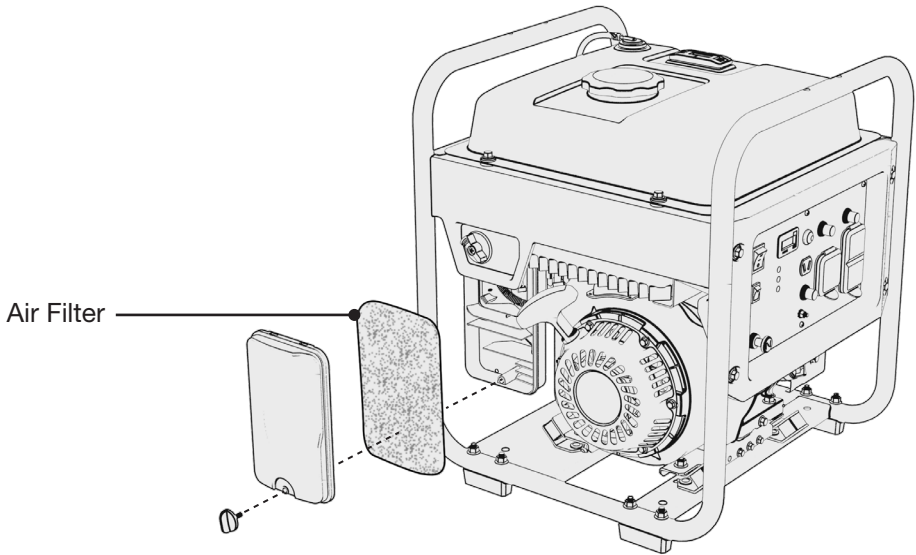
Gasoline is highly flammable and explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow open flames or sparks in the area where the generator is being refueled or where gasoline is stored. Do not overfill the tank. Be careful not to spill fuel when refueling. Wipe up any spilled gasoline and let the area dry before starting the engine.

Gasoline substitutes such as gasohol are not recommended. They may be harmful to the fuel system components.



3.3 PREPARE THE AIR CLEANER

Clean and oil the air filter before your first use. Check the maintenance section for a complete cleaning guide.



1. Unscrew the air filter cover and remove the filter.
2. Clean the air filter with soap and water or solvent and squeeze dry (do not wring out).
3. Soak in clean engine oil.
4. Squeeze (do not wring) out all excess oil and reinstall. Replace the filter if it is damaged.

NOTE

- Running the engine without the air filter will quickly degrade the engine

4. STARTING THE ENGINE

DANGER

Using a generator indoors can **KILL YOU IN MINUTES**.
Generator exhaust contains carbon monoxide.
This is poison that 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.

Avoid other generator hazards
READ MANUAL BEFORE USE.

DANGER!

Using a generator indoors **WILL KILL YOU IN MINUTES**.

Generator exhaust contains high levels of carbon monoxide (CO), a poisonous gas you cannot see or smell. If you can smell the generator exhaust you are breathing CO. Even if you cannot smell the exhaust, you could be breathing CO.

NEVER use a generator inside a home, garage, crawlspace, or other partly enclosed area, deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors will **NOT** supply enough fresh air.

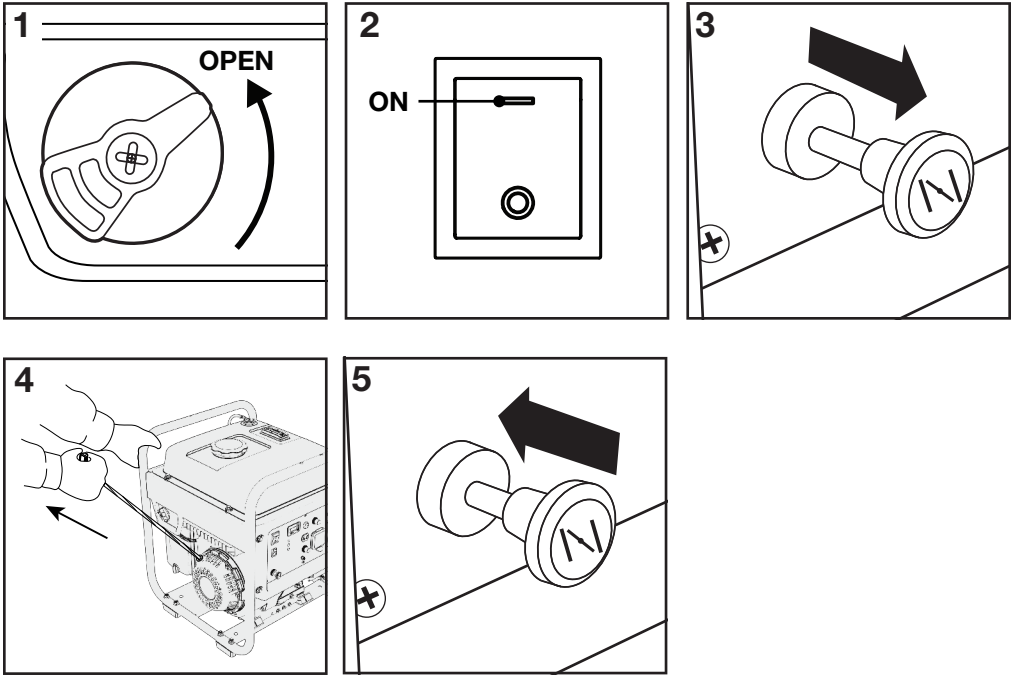
ONLY use a generator outdoors and far away from open windows, doors, and vents. These openings can pull in generator exhaust. Even when you use a generator correctly, CO may leak into the home. **ALWAYS** use a CO alarm in your home.

If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air **RIGHT AWAY** and seek medical attention. You could have carbon monoxide poisoning. Never run the generator in an enclosed or even partially enclosed area where people may be present.

4.1 STARTING YOUR GENERATOR

NOTE

- Ensure all connected appliances are turned off.
- Return the starter grip slowly by hand, do not let it snap back.



Recoil Start

1. Open the fuel valve by turning the fuel knob to the OPEN position.
2. Turn the power switch to the ON position.
3. Pull the choke knob out to the START position.
4. Pull the starter slowly until you feel it engage then pull quickly. Repeat until the generator starts.
5. When the engine warms up push the choke fully in to the RUN position. The choke is used to provide the proper air-fuel mixture when the engine is cold.

Carburetor Modification for High Altitude Operation

- At high altitudes, the standard carburetor air-fuel mixture will be too rich. Fuel consumption will increase and performance will decrease. A very rich mixture will also foul the spark plug and cause hard starting.
- If using the generator at high altitudes, change the main-nozzle or adjust the idling-screw of the carburetor. If always operating the generator at altitudes above 3280 feet (1,000m), contact an authorized service center to have the carburetor modified.
- Two jets are available for high altitude operation: altitudes of 5,000 to 6,500 feet (1500 - 2000m) and altitudes of 6,500 to 8,200 feet (2000-2500m)
- Conversely, if the carburetor has been modified for high altitude operation, the air-fuel mixture will be too lean for low altitude use. Operation at low altitude may cause the engine to overheat and result in serious engine damage. In this case the carburetor needs to be returned to its original specifications.
- Generator output power should be modified according to the altitude and ambient temperature. See more details on the correction factors in Chapter 12 - Appendix.

5. GENERATOR USE

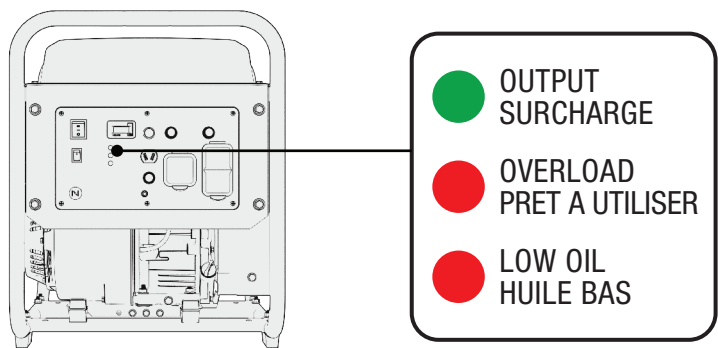
⚠ WARNING!

Do not connect directly to the building’s electrical system. Doing so may result in electrical shocks, fire, and backfeeding the grid. Connections for standby power to a building’s electrical system *must* be done by a qualified electrician and must comply with all applicable laws and electrical codes. See Chapter 1.2 - Safety for more information.

Before using the generator, consult a local electrician and local electrical codes to determine grounding requirements for your intended use. This generator is floating neutral.

Use only grounded 3-prong extension cords in good condition, ensure the wire size is sufficient to safely carry the generator’s wattage. See Chapter 1.2 - Safety for more information.

5.1 OUTPUT, OVERLOAD, AND OIL ALERT INDICATOR



Light (Solid)			Description
Green	Output Indicator	ON	Indicates normal operation
		OFF	Indicates a problem or unit is off
Red	Overload Indicator	ON	Indicates overload or problem with connected appliances, disconnect any appliances and press and hold the reset button (1s).
		OFF	Indicates normal operation
Red	Low Oil Indicator	ON	Indicates insufficient oil in the crankcase
		OFF	Indicates normal operation

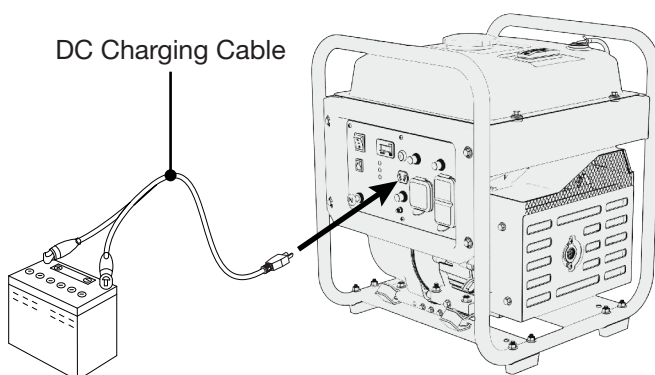
5.2 DC APPLICATIONS

The DC receptacle may be used for charging 12V batteries only. In DC operation, turn EcoMode OFF.

NOTE

- The DC receptacle can be used while the AC power is in use. If used at the same time, be sure not to exceed the total power for AC and DC. (AC: Running Wattage, DC: 5A)
- Motor vehicles require more than their rated wattage when starting.

Connecting the charging cable:



1. If connecting to a vehicle battery, disconnect the vehicle battery ground cable from the negative (-) battery terminals.
2. Connect the DC outlet to the battery terminals using the included charging cable. Connect the red lead to positive (+) battery terminal and black lead to negative (-) battery terminal.
3. Turn EcoMode OFF, and start the generator.

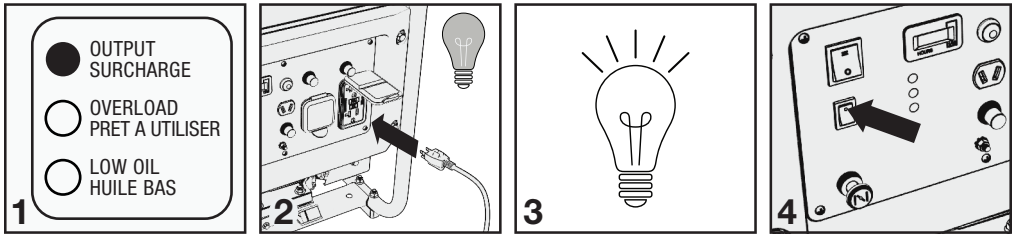
NOTE

- Do not start the vehicle engine when the generator is still connected to the battery, this will damage the generator.
- System floating for DC output.

Disconnecting the charging cable:

1. Stop the engine.
2. Disconnect the black lead from the negative (-) battery terminal, and the red lead from the positive (+) battery terminal.
3. Reconnect the vehicle battery ground cable.

5.3 AC APPLICATIONS

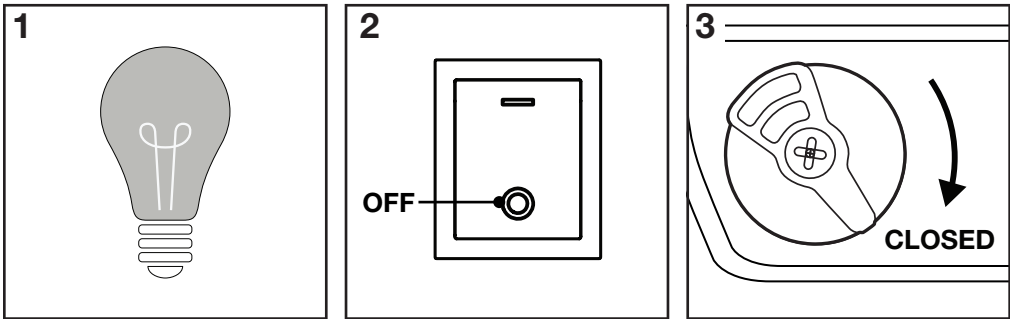


1. Start engine and make sure output indicator light (READY TO USE) is on.
2. Confirm all electrical appliances are switched off, and connect the appliance plugs to the generator receptacle.
3. Turn on the appliances.
4. Turn EcoMode ON if desired.

NOTE

- Confirm all electrical appliances are in good working condition before connecting them to the generator. If an electrical appliance becomes abnormal, sluggish, or stops suddenly, shut off the generator engine immediately, and disconnect the appliance.
- Most appliances require more than their rated wattage upon startup.
- For continuous operation do not exceed the rated output of the generator.
- The grounding system is not connected to the AC neutral wire.
- Neutral floating for AC system.

6. STOPPING THE ENGINE



1. Switch off the connected electrical appliances.
2. Turn the power switch to the OFF position.
3. Turn the fuel shutoff to the CLOSED position.

NOTE

- Make sure the fuel switch is in the CLOSED position when stopping, transporting, and storing the generator.
- To stop the engine in an emergency, turn the power switch to OFF immediately.

7. MAINTENANCE

Proper maintenance keeps your generator in the best operating condition by ensuring safe, economical and trouble-free operation. Only use genuine parts and recommended fluids to replace the worn components. Improper maintenance may cause the generator to malfunction and can lead to serious injury. Contact customer support if you have any maintenance questions.

General Inspection Tips

- Look for fuel leaks around the fuel tank, fuel hose, and fuel valve. Close the fuel valve and repair leaks immediately.
- Look and listen for exhaust leaks while the engine is running. Have all the leaks repaired before continuing operation.
- Check for dirt and debris and clean as necessary .
- Check the engine oil level and add oil as necessary.

7.1 MAINTENANCE SCHEDULE

Maintain the generator according to the maintenance schedule below.

NOTE

- Service more frequently when used in dusty areas.
- These items should be serviced by an authorized service center, unless you have the proper tools and are mechanically proficient. Refer to manual for service procedures.

Item	Task	Each Use	First 10 Hours	Every 50 Hours	Every 100 Hours	Every 300 Hours
Generator	General Inspection	•				
Engine Oil	Inspect Oil Level	•				
	Change		•*		•**	
Air Filter	Inspection	•				
	Cleaning			•		
Sediment Cup	Cleaning			•		
Spark Plug	Inspection & Cleaning				•	
	Replacement					•
Valve Clearance	Inspection & Adjusting					•
Combustion Chamber	Inspection & Adjusting					•
Fuel Tank and Strainer	Cleaning					•
Fuel Line	Cleaning	Every two months (replace if necessary)				
Exposed Metal Parts	Lubricate with oil	After every use and especially before storage				

* For first use of the generator.

**Change engine oil every 100 hours or yearly, whichever comes first.

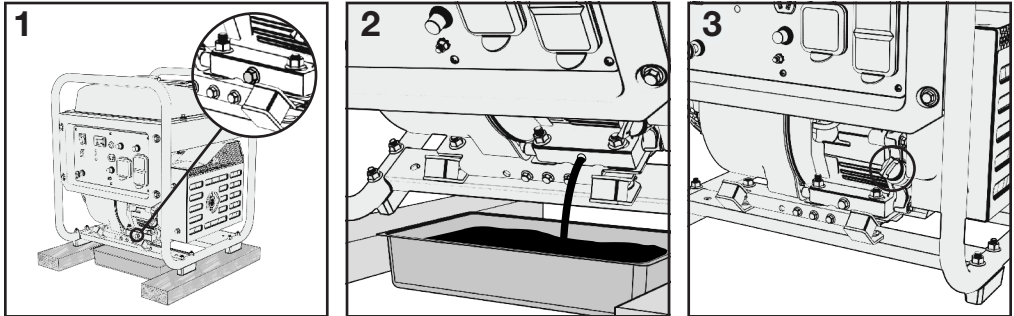
7.2 CHANGING THE OIL

⚠ WARNING!

Used motor oil can cause skin irritations if left in long-term contact with skin. Thoroughly wash off used oil as soon as possible with soap and water.

Do not dispose of used oil in drains or on soil. Local service shops provide environmentally-friendly disposal methods.

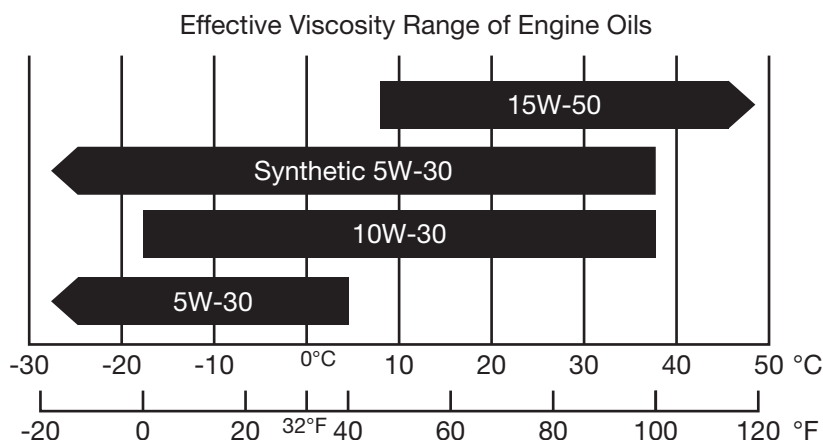
Drain the oil rapidly and completely while the engine is still warm.



1. Place an oil collection pan under the oil drain bolt. Loosen the oil drain bolt then tip the generator and continue to fully loosen the bolt.
2. Drain into the oil collection pan completely. Reinstall the oil drain bolt.
3. Refill the oil to the maximum level mark. Check the oil level by reinserting the dipstick *without* rethreading it. Remove the dipstick and examine the oil level when the unit is on a flat surface.
4. Reinstall the oil dipstick and tighten it.

NOTE

- Oil capacity: 20 fl. oz. / 600 mL
- SAE 10W-30 or Synthetic 5W-30 oil is recommended for general use.
- Use of synthetic oil does not change maintenance intervals.
- DO NOT OVERFILL.



NOTE

- Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.
- Use high quality 4-stroke engine oil, certified to meet or exceed API standard SG, SF, SAE ratings with strong detergents. Using non-detergent or 2-stroke oil could shorten the engine's working life.
- Do not mix different engine oils.
- Handle and store the engine oil with care, avoid getting dirt or dust into the engine oil.
- Before the engine oil falls below the safety margin, the low oil alert system will automatically shut off the engine. The low oil light will turn on.
- To avoid the inconvenience of unexpected engine shutoff, check the engine oil level as often as possible.

7.3 CLEANING THE AIR FILTER

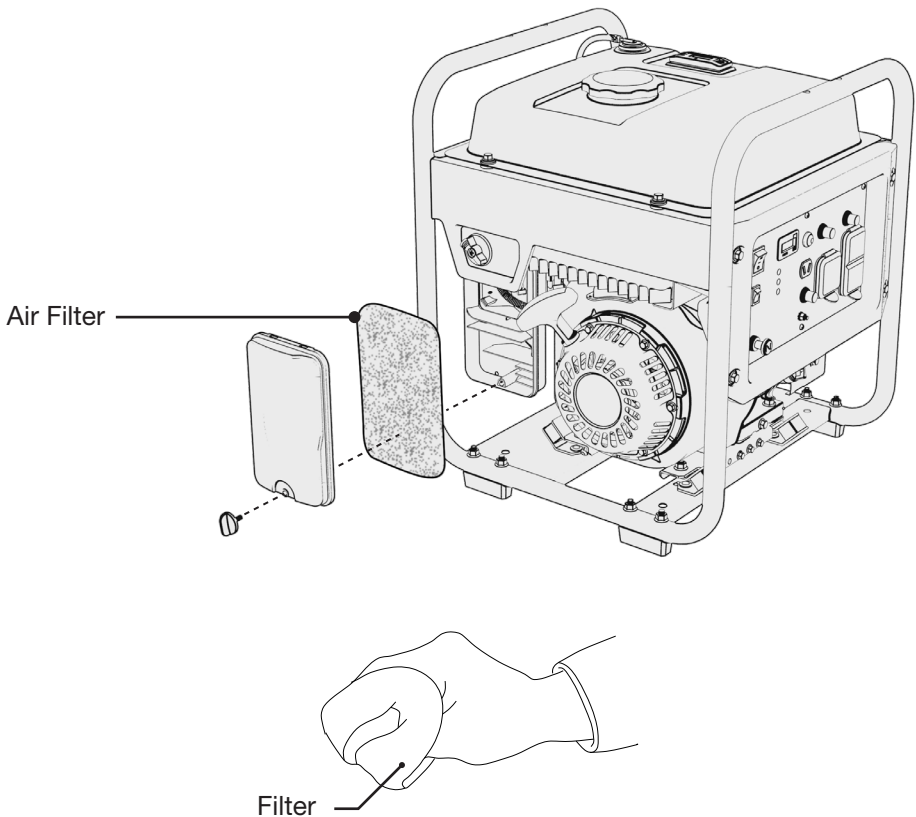
⚠ WARNING!

Using gasoline or other flammable solvents can cause a fire or explosion. Do not operate this product without an air filter.

A dirty air filter will restrict air flow into the carburetor. Clean and maintain the air filter regularly, especially in dusty areas.

NOTE

- Never run the generator without an air filter, doing so will quickly degrade the engine.



1. Unscrew and remove the air filter cover.
2. Remove the foam filter.
3. If the foam element is dirty, clean it in warm soapy water, rinse, and allow it to dry thoroughly, or clean in non-flammable solvent and allow to dry.
4. Dip the foam element in clean engine oil, then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the filter.
5. Wipe dirt from the air filter assembly and reinstall into the unit.

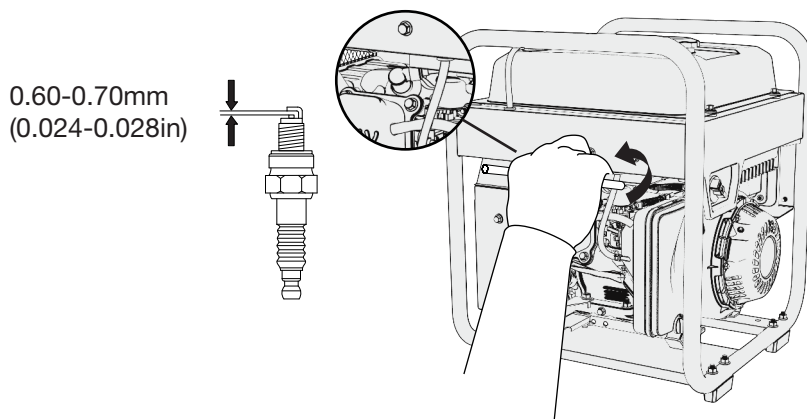
7.4 SPARK PLUG SERVICE

NOTE

- Do NOT rinse spark plug in water. Follow guidelines and be careful not to overtighten the spark plug.

Recommended spark plug: **BP7ES (NGK)**

Check the spark plug gap and clean the carbon deposits at the bottom of the spark plug.



Tighten 1/2 turn when installing a new spark plug.

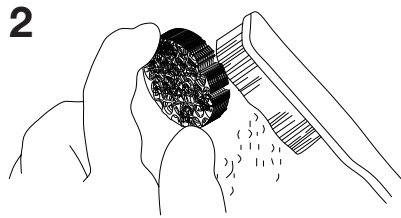
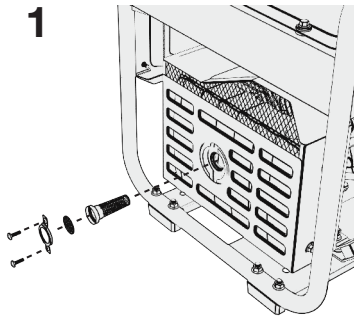
Tighten 1/8 TO 1/4 turn when re-installing an old spark plug.

1. Pull off the spark plug cap.
2. Remove the spark plug with the spark plug spanner.
3. Visually inspect the spark plug. Replace with a new one if the insulation is cracked or chipped. Clean with a wire brush if the spark plug is reused.
4. Measure the spark plug gap with a feeler gauge. The normal value is: 0.6-0.7mm (0.024- 0.028in). Adjust the gap by carefully bending the electrode.
5. Carefully reinstall the spark plug by hand, to avoid cross-threading. A new spark plug should be tightened 1/2 turn with a spanner. A used spark plug should be tightened 1/8 to 1/4 turn with spanner.
6. Reinstall the spark plug cap.

NOTE

- The spark plug must be securely tightened or it could cause the spark plug to heat up, enough to damage the engine.
- Never use a spark plug with an improper heat range.

7.5 SPARK ARRESTER MAINTENANCE

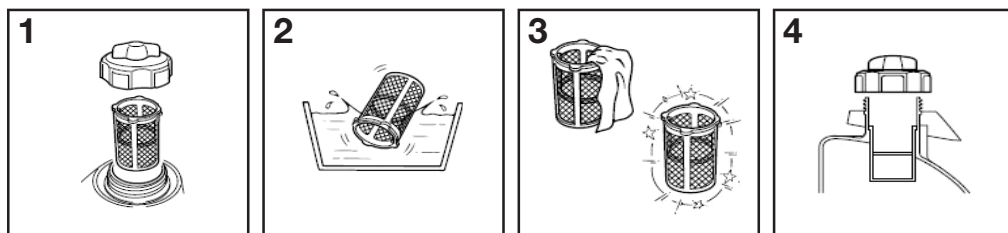


1. Wait until the engine has cooled down. Remove the screws from the spark arrester and take the spark arrester from the muffler.
2. Use a brush to remove carbon deposits from the spark arrester. If the spark arrester is worn down, replace it.
3. Reinstall the spark arrester and muffler guard.

7.6 FUEL FILTER MAINTENANCE

⚠ WARNING!

Gasoline is highly flammable and explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow open flames or sparks in the area where the generator is being refueled or where gasoline is stored. Do not overfill the tank. Be careful not to spill fuel when refueling. Wipe up any spilled gasoline and let the area dry before starting the engine.



1. Remove the fuel cap and filter.
2. Clean the filter with solvent.
3. Wipe the filter.
4. Reinsert the filter.

EMISSION CONTROL SYSTEM

Emission Source

Exhaust gas contains carbon monoxide, nitrogen oxides (NOx) and hydrocarbons. It is very important to control the emissions of NOx and hydrocarbons as they are a major contributor to air pollution. Carbon monoxide is a poisonous gas. The emission of fuel vapors is a source of pollution as well. The generator engine utilizes a precise air-fuel ratio and emission control system to reduce the emissions of carbon monoxide, NOx, hydrocarbons and evaporative fuel emissions.

Regulation

Your engine has been designed to meet current Environmental Protection Agency (EPA) and the California Air Resource Board (CARB) clean air standards. The regulations dictate that the manufacturer provides operation and maintenance standards regarding the emission control systems. Tune up specifications are provided in the Specifications section and a description of the emission control system may be found in the appendix to this manual. Adherence to the following instruction will ensure your engine meets the emission control standards.

Modification

Modification of the emission control system may lead to increased emissions. Modification is defined as the following:

- Disassembling or modifying the function or parts of the intake, fuel or exhaust system.
- Modifying or destroying the speed governing function of the generator.

Engine faults that may affect emission

Any of the following faults must be repaired immediately. Consult with your authorized service centre for diagnosis and repair:

- Hard starting or shut down after starting.
- Unstable idle speed.
- Shut down or backfire after applying an electrical load.
- Backfire or after fire.
- Black smoke and/or excessive fuel consumption.

Replacement parts and accessories

The parts making up the emission control system in your product's engine have been specifically approved and certified by the regulatory agencies. You can trust that the replacement parts supplied by customer service have been manufactured to the same production standard as the original parts. The use of replacement parts or accessories which are not designed by – may negatively affect the engine emission performance. Therefore only use replacements parts and accessories from a qualified service centre to guarantee that the replacement products will not adversely affect emission performance.

Replacement parts other than those from an authorized service centre will void the warranty.

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.

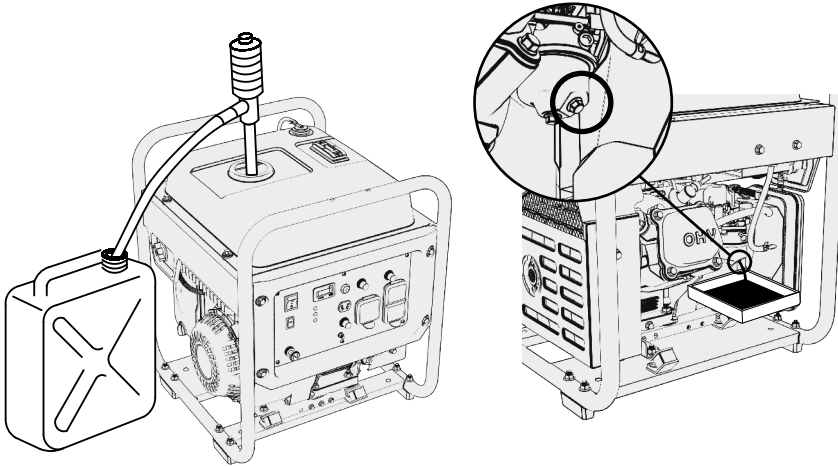
The durability description is intended to provide you with information relating to the engine's emission durability period. The descriptive term indicates the useful life period for the engine's emission control system.

The Air Index information hang tag must remain on the generator until it is sold. Remove the hang tag before operating the generator.

8. TRANSPORTATION & STORAGE

Draining the Fuel Tank

1. Turn OFF the engine. Remove the fuel cap and the debris screen underneath the fuel cap.
2. Empty the fuel tank using a siphon and an approved gasoline container.
3. Loosen the 10mm carburetor drain bolt (with a wrench or socket) to discharge all gasoline from inside of the carburetor.



Transporting the Generator

1. Do not overfill the fuel tank (No residual fuel on the neck of tank).
2. Do not use the generator in the vehicle. The generator should ONLY be used while in a well ventilated area.
3. Avoid exposing the generator to prolonged direct sunlight while in an enclosed vehicle. The high temperature inside the vehicle could cause fuel to vaporize resulting in a possible explosion.
4. Drain the generator of fuel and oil before being transported on rough roads.

Storage

Gasoline can oxidize in as little as 30 days, causing gum and varnish to build up in fuel system components.

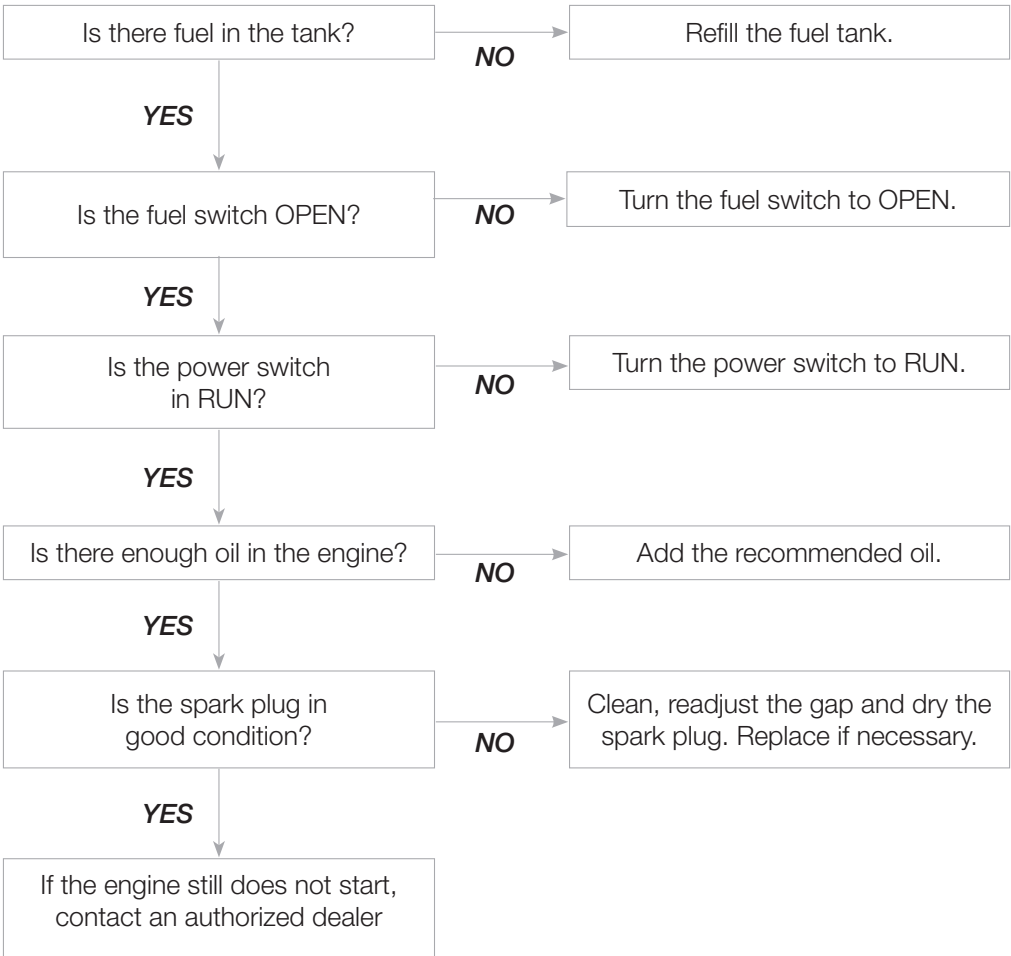
NOTE

- Ensure that the storage area is free of excess humidity and dust.

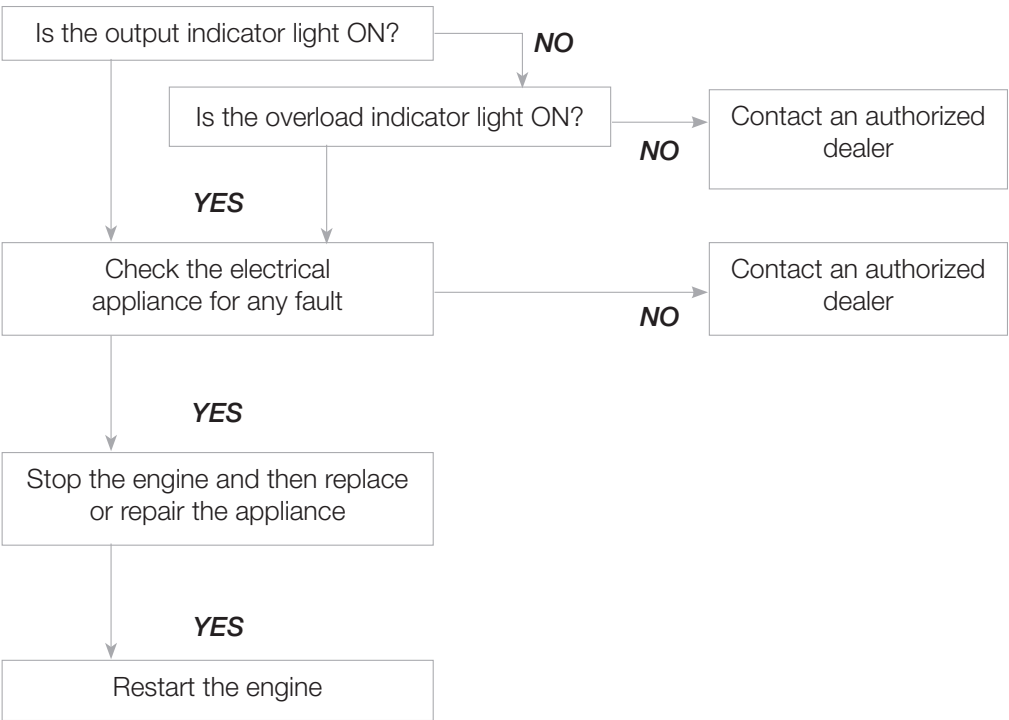
Storage Duration	Preparation Required
Less than 1 Month	<ul style="list-style-type: none">■ No storage preparation required, simply store as is.
1 Month to 1 Year	<ul style="list-style-type: none">■ Drain the old gas and completely fill the tank with fresh gas before storage. Add fuel stabilizer according to the manufacturer’s directions. Adding a quality fuel stabilizer can keep gas fresh for up to a year.
1 Year or More	<ul style="list-style-type: none">■ Drain off the gasoline from the fuel tank, and store in a suitable container. This will help prevent deposits from forming in the fuel system.■ Turn the fuel switch to OPEN and loosen the carburetor drain bolt. Take off the spark plug cap and revolve the engine 3 or 4 times, by pulling the recoil handle, to fully discharge the gasoline from the fuel lines.■ Turn the fuel switch to CLOSED and tighten the drain bolt of the carburetor.■ Change oil while engine is still warm from operation.■ Remove the spark plug, and pour a tablespoon of clean engine oil (10~20ml) into the cylinder. Revolve the engine several times by pulling on the recoil start to distribute the oil. Reinstall the spark plug. Pull the starter grip slowly until you feel resistance. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. This position helps to protect the engine from internal corrosion.

9. TROUBLESHOOTING

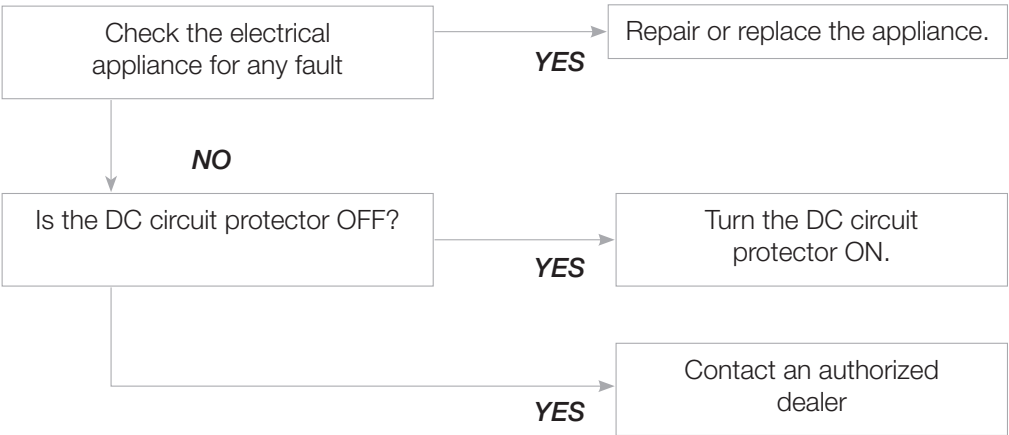
If the engine does not start:



If appliances do not operate:



DC receptacle without any electricity:

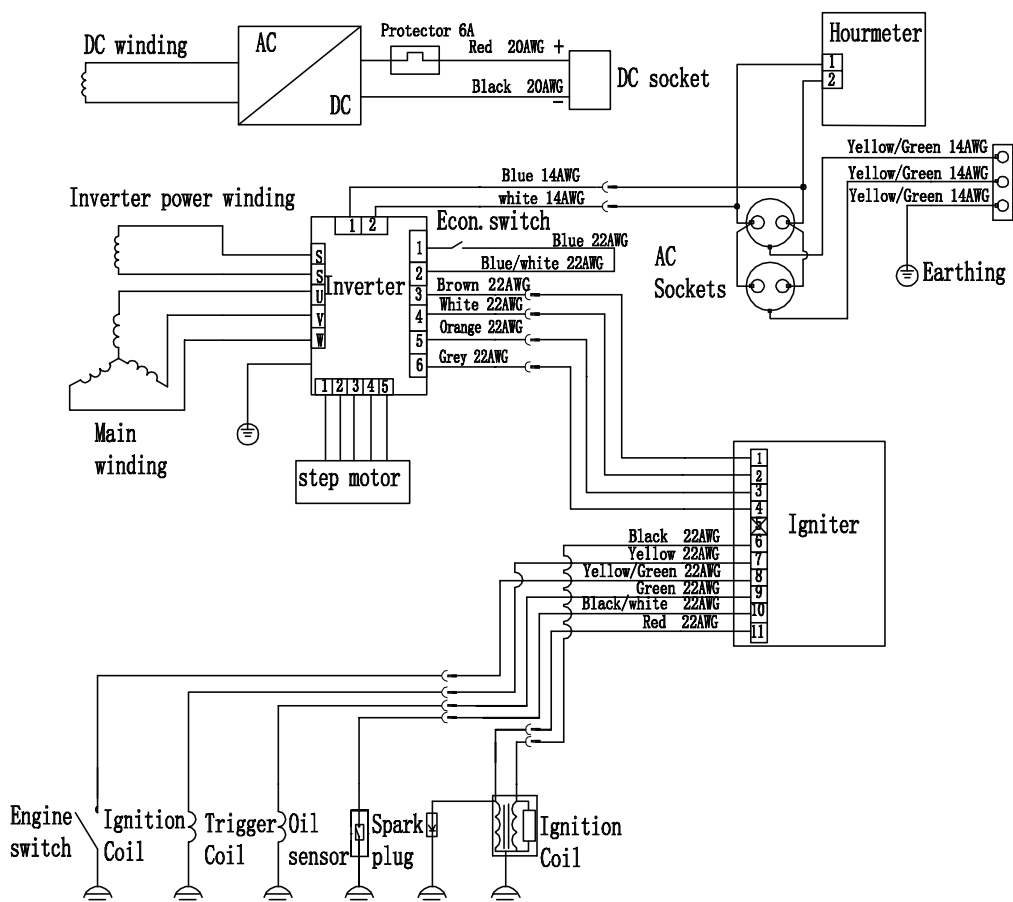


10. TECHNICAL SPECIFICATIONS

	SPECIFICATIONS	PARAMETERS
ENGINE	Type	4-stroke, overhead valve, single cylinders, forced-air cooling
	Engine Displacement	223cc
	Bore* Stroke	70.0mm*54.0mm
	Compression Ratio	8.5:1
	Ignition System	Full transistor
	Spark Plug	BP7ES (NGK)
	Spark Plug Gap	0.024 - 0.028 in. (0.6-0.7mm)
	Start System	Recoil Start
	Fuel Type	Unleaded Gasoline
	Oil Capacity	20 fl. oz. / 600mL
	Oil Type	SAE 10W-30
GENERATOR	Model Name	HY4800
	Rated Frequency	60Hz
	Rated Voltage	120V
	Rated Current	30.0A
	Rated Speed	2800-3700rpm
	Rated Output Power	3,600W
	Max. Output Power	4,800W
OTHER SPECIFICATIONS	DC Output	12V/5A
	Fuel Tank Volume	3.2 Gal / 12.2L
	Continuous Running Time	11.8h @ 50% Load
	Working Ambient Temperature	5°F to 104°F (-15°C to 40°C)
	Max. Altitude (Unmodified)	3280 ft. / 1000m
	Sound Level at 7m	70dB(A) @ 25% Load
	Dimensions (L*W*H)	17.5 x 16.7 x 20.9 in.
	Net Weight	76 lbs

■ Noise level is measured when EcoMode is ON.

11. WIRING DIAGRAM



12. APPENDIX

The standard condition of rated power output:

Altitude: 0m

Ambient temperature: 77°F (25°C)

Relative humidity: 30%

Factor of Environment Correction:

Altitude (m)	Ambient Temperature°F (°C)				
	77° (25°)	86° (30°)	95° (35°)	104° (40°)	113 (45°)
0	1	0.98	0.96	0.93	0.90
500	0.93	0.91	0.89	0.87	0.84
1000	0.87	0.85	0.82	0.80	0.78
2000	0.75	0.73	0.71	0.69	0.66
3000	0.64	0.62	0.60	0.58	0.56
4000	0.54	0.52	0.50	0.48	0.46

NOTE:

Relative humidity 60% correction factor C-0.01

Relative humidity 80% correction factor C -0.02

Relative humidity 90% correction factor C-0.03

Relative humidity 100% correction factor C-0.04

Example:

Rated power (PN) 2.8kVA generator (Altitude: 1000m) Ambient temperature: 35°C,

Relative humidity: 80%

$P=Pn*(C-0.02)=2.8*(0.82-0.02)=2.24kVA$

13. LIMITED WARRANTY

Toll Free: 1-877-528-3772

E-mail: support@hyundaipower.ca

Online: www.hyundaipower.ca

Hyundai Power Equipment products are distributed by:

Midland Power Inc.

376 Magnetic Drive, Toronto, ON M3J 2C4, Canada

This product is warranted to be free of defects in material and workmanship for three years from date of purchase. This warranty guarantees that any defective parts will be repaired or replaced at no cost, including diagnosis and replacement parts.

Limited Warranty Periods

Recreational and Residential use: Three Years Limited

- 1st Year: Parts and Labor
- 2nd and 3rd Year: Parts only

Commercial use: 6 months limited, parts and labor

This limited warranty begins at the initial time of retail purchase and covers manufacturer's defects caused by a defect in components or workmanship during the three (3) year period. The warranty coverage is continual from the initial date of purchase and does not restart at anytime under any circumstances. This limited warranty is valid for residential or recreational applications only and only when the generator receives all necessary preventative maintenance as described in the user guide.

The repair or replacement of a generator will take place within a reasonable period of time during normal business hours. All repair and replacement parts shall be warranted for (90) days after the initial date of installation or purchase.

Limitation of Remedies and Disclaimers

Midland International Inc. disclaims any responsibility for loss of time or use of the generator in a recreational vehicle or any vehicle in which the generator is installed, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written warranty.

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE OF AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND OF ANY OTHER WARRANTY WHETHER EXPRESS OR IMPLIED.

Consumable parts, such as oil or fuel filters, fuel cut off valve, brushes, fuel injection nozzle valve, lubricant, or ignition plug, are not covered under this warranty. All expenses incurred in maintaining and replacing parts for generator shall fall on the purchaser. This warranty coverage does not include parts affected by accident and/or collision, corrosion or rust, normal wear, incorrect fuel type or fuel contamination, use in an application for which the product was not intended, unauthorized service, or any other misuse, neglect, incorporation or use of unsuitable attachments or parts. Damage to voltage regulators caused by failure to ground, shorting or overloading will not be covered under this warranty. Under this Warranty, we do not have the obligation to bear any transportation fees of any product to/from an authorized Warranty Center. Unauthorized alteration, installation or any cause other than defects in material or workmanship of the product will not be covered under the warranty.

Exclusions Not Covered by this Limited Warranty

- Normal engine/alternator wear
- Damage caused by lack of maintenance as described in the Hyundai User Guides, or negligence by using improper or impure motor oil, coolant, or fuel
- Damage caused by accidents, improper installation or storage;
- Damage caused by water ingestion, submersion, or external water damage
- Damage or non-performance caused by operation of the generator set in a marine application
- Damage caused by operation with improper fuel, or at speeds, loads, conditions, or modifications contrary to published specifications.
- Items not supplied by Hyundai, including, but not limited to, starting batteries, battery cables, external wiring, fuel lines, filters, etc;(refer to exclusions)
- Repairs made during the warranty period, without first obtaining a case number from Hyundai

Batteries

Batteries supplied with any generator product should be considered a bonus item and not covered by warranty. Batteries can be damaged by shock, shorting terminals, heat, acid spillage and a number of other factors that cannot be controlled after they have left our facility. It is the customer’s responsibility to take great care when handling a battery so no spillage of acid will occur and cause corrosion; damage caused by battery acid is not covered under this warranty.

SYSTEMS COVERED IN WARRANTY	PARTS DESCRIPTION
Fuel Metering	Carburetor assembly (includes starting enrichment system), Engine temperature sensor, Engine control module, Fuel regulator, Intake manifold
Evaporative	Fuel Tank, Fuel Cap, Fuel Hoses, Vapor Hoses, Carbon Canister, Canister Mounting Brackets, Fuel Strainer, Fuel cock, Fuel Pump, Fuel Hose Joint, Canister Purge Hose Joint
Exhaust	Catalyst, Exhaust Manifold
Air Induction	Air filter housing, Air filter element
Ignition	Flywheel magneto, Ignition pulse generator, Crankshaft position sensor, Power coil, Ignition coil assembly, Ignition control module, Spark plug cap, Spark plug
Crankcase Emission Control	Crankcase breather tube, Oil filler cap
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems

Our Warranty Rights and Obligations

California

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

Other States, U.S. territories, and Canada

In other areas of the United States and in Canada, your engine must be designed, built, and equipped to meet the U.S. EPA and Environment Canada emission standards for spark-ignited engines at or below 19 kilowatts.

All of the United States and Canada

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

Your emission control system may include such parts as the carburetor or fuel injection system, the ignition system, and catalytic converter. Also included may be hoses, connectors, and other emission-related assemblies.

Emission Control System Warranty Parts:

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

Consumable parts are covered up to a maximum of 30 days.

Warranty Claim Procedure

Warranty service must be performed by one of our authorized service dealers. Do not return your product where purchased. If you feel your generator is malfunctioning due to a defect or misuse, simply contact our customer support center for technical advice, a warranty claim or general information. Warranty service, operation assistance and product support is provided by Midland Power Inc., contact us at the numbers below.

Product Registration Instructions

Product registration is required for product support and warranty coverage. You can register online at www.hyundaipower.ca. Once your registration is complete, your receipt will be on file and any future warranty claims will be easily created. If you wish, you can confirm your registration by calling customer service at 1-877-528-3772 or by e-mail at support@hyundaipower.ca

Proof of purchase may be required for warranty claims. Keep a copy of the original receipt, UPC code and serial number with this user guide.

Customer Service

Toll Free: 1-877-528-3772

E-mail: support@hyundaipower.ca

Online: www.hyundaipower.ca

Enjoy!

Be sure to check www.hyundaipower.ca for updates regarding your generator.

HYUNDAI

For Inquiries, Please Contact:

Midland Power Inc.
376 Magnetic Drive, Toronto, ON Canada M3J 2C4
1-877-528-3772
support@hyundaipower.ca
www.hyundaipower.ca