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MAXPEEDINGRODS MXR6250IE MANUAL



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MAXPEEDINGRODS
Since 2006

MXR6250iE

DIGITAL INVERTER GENERATOR

5000 Running Watts/5500 Peak Watts



DISCLAIMERS

Thank you for buying our inverter generator.

- The copyright of this specification belongs to our company.
- Any contents of the manual shall not be copied without the written permission of the company.
- The company reserves the right of modification of product and revision of the manual without any notice.
- This book is an integral part of generators and should be incidental to the sale of generators.
- This manual includes instructions for the operation and maintenance of generators. Please read the instruction carefully before using, otherwise the wrong operation may lead to safety trouble or equipment damage. Proper and safe operation will extend the service life of generator.
- The company will continue to innovate and improve the design and quality of products.
- All the contents of this book are in line with the latest products at the time of printing this book.
- If there is any trouble, or do not know about the generator,please consult the after-sales service department of the company.

⚠ DANGER



This manual contains important instructions for operating this inverter generator. For your safety and the safety of others, be sure to read this manual thoroughly before operating the generator. Failure to properly follow all instructions and precautions can cause you and others to be seriously hurt or killed.

SPECIFICATIONS

Model	MXR6250iE
Running Watts:	5000W
Peak Watts	5500W
Rated Voltage:	120V/240V
Rated Frequency:	60Hz
Phase:	Single Phase
Engine Displacement:	223cc
Rated Speed:	4800RPM
Starting Type:	Recoil, Electric Start
Fuel Tank Capacity:	2.9(Gal)/11L
Oil Capacity:	0.18(Gal)/0.7L
Total Harmonic Distortion(THD):	≤3%
Fuel Type:	87–93 Octane
Oil Type:	SAE 10W30
Spark Plug:	F7RTC/F7TC
Alternator Type:	Permanent Magnet
Maximum Ambient Temperature:	104°F (40°C)
Net Weight:	86lb(39kg)
Length:	590(mm)
Width:	390(mm)
Height:	550(mm)
Certifications:	EPA, PGMA

LIMITED WARRANTY

1. DURATION:
   Maxpeedingrods warrants all the inverter generators against defects in workmanship under normal use for a period of 2 years from the date of retail purchase by the original end-user purchaser ("Warranty Period"), and free lifetime technical support and customer service.If a product is used for business,commercial, or industrial applications, the warranty period will be limited to ninety (90) days from the date of purchase.

2. WHO GIVES THIS WARRANTY (WARRANTOR):
   Chongqing Guoyu Technology Co., Ltd

3. WHO RECEIVES THIS WARRANTY(PURCHASER):
   The original purchaser (other than for purposes of resale) of the MAXPEEDINGRODS inverter.

4. WHAT PRODUCTS ARE COVERED BY THIS WARRANTY:
   Any portable generator supplied or manufactured by Warrantor.

5. WHAT IS COVERED UNDER THIS WARRANTY:
   Substantial defects on material and workmanship which occur within the duration of the warranty period.

6. WHAT IS NOT COVERED UNDER THIS WARRANTY:
   A. Transportation changes for sending the product to Warrantor or its authorized service representative for warranty service, or for shipping repaired or replacement products back to the customer; these charges must be borne by the customer.
   B. Damages caused by abuse, accident, shipping, misuse, overloading, modification, and the effects of corrosion, erosion and normal wear and tear.
   C. Warranty is voided if the customer fails to install, maintain and operate the product in accordance with the instructions and recommendations set forth in the owner's manual(s), or if the product is used as rental equipment
   D. Pre-delivery service, i.e. assembly, oil or lubricants, and adjustment.
   E. Items or service that are normally required to maintain the product, i.e. lubricants and filters.
   F. Warrantor will not pay for repairs or adjustments to the product, or for any costs or labour, performed without Warrantor's prior authorization.

   EXCLUSIONS AND LIMITATIONS:
   Warrantor makes no other warranty of any kind, express or implied. Implied warranties, including warranties of merchantability and of fitness for a particular purpose, are hereby disclaimed. This warranty service described above is the exclusive remedy under this warranty; liability for incidental and consequential damages is excluded to the extent permitted by law.

7. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:
   A. The purchaser must provide dated proof of purchase and must notify Warrantor within the warranty period.
   B. Deliver or ship the serviced generator or component to the nearest Warrantor's authorized service representative. Freight costs, if any, must be borne by the purchaser.

8. **Having any questions? Please do contact us via your purchasing channel for quick help. We guarantee you will get satisfied and quickest solution through this way.**

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SAFETY

SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information. Be certain that the meanings of these alerts are known to all who work on or near the equipment.



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alerts symbol.

⚠ DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates a situation which can cause damage to the generator, personal property and/or the environment, or cause the equipment to operate improperly.

⚠ WARNING

Connection of the product to a building's electrical system is not applicable.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the generator to function in the manner intended.

SAFETY SYMBOL DEFINITIONS

Symbol	Description
	Safety Alert Symbol
	Asphyxiation Hazard
	Burn Hazard
	Burst/Pressure Hazard
	Don't leave tools in the area
	Electrical Shock Hazard
	Explosion Hazard
	Fire Hazard
	Read Manufacturer's Instructions

SAFETY

GENERAL SAFETY RULES

⚠ DANGER



Never use the inverter in a location that is wet or damp. Never expose the inverter to rain, snow, water spray or standing water while in use. Protect the inverter from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.



Never operate the inverter in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the inverter outside and away from windows, doors and vents.

⚠ WARNING



Voltage produced by the inverter could result in death or serious injury.

- Never operate the inverter in rain or a flood plain unless proper precautions are taken to avoid being subject to rain or a flood.
- Never use worn or damaged extension cords.
- Always have a licensed electrician connect the inverter to the utility circuit.
- Never touch an operating inverter if the inverter is wet or if you have wet hands.
- Never operate the inverter in highly conductive areas such as around metal decking or steel works.
- Always use grounded extension cords. Always use three-wire or double-insulated power tools.
- Never touch live terminals or bare wires while the inverter is operating.
- Be sure the inverter is properly grounded before operating.

⚠ WARNING





Gasoline and gasoline vapors are extremely flammable and explosive under certain conditions.

- Always refuel the generator outdoors, in a well-ventilated area.
- Never remove the fuel cap with the engine running.
- Never refuel the inverter while the engine is running. Always turn engine off and allow the generator to cool before refueling.
- Only fill fuel tank with gasoline.
- Keep sparks, open flames or other form of ignition (such as match, cigarette, static electric source) away when refueling.
- Never overfill the fuel tank. Leave room for fuel to expand. Overfilling the fuel tank can result in a sudden overflow of gasoline and result in spilled gasoline coming in contact with HOT surfaces. Spilled fuel can ignite. If fuel is spilled on the inverter, wipe up any spills immediately. Dispose of rag properly. Allow area of spilled fuel to dry before operating the inverter.
- Wear eye protection while refueling.
- Never use gasoline as a cleaning agent.
- Store any containers containing gasoline in a well-ventilated area, away from any combustibles or source of ignition.
- Check for fuel leaks after refueling. Never operate the engine if a fuel leak is discovered.

⚠ WARNING



Never operate the inverter if powered items overheat, electrical output drops, there is sparking, flames or smoke coming from the inverter, or if the receptacles are damaged.



Never use the inverter to power medical support equipment.



Always remove any tools or other service equipment used during maintenance from the inverter before operating.

NOTICE

Never modify the inverter.

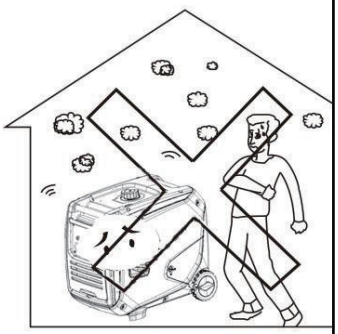
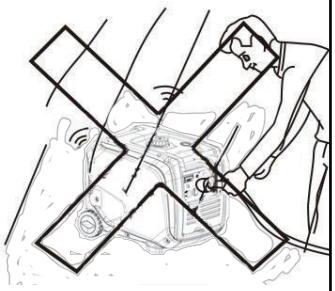
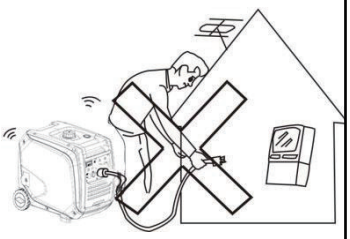
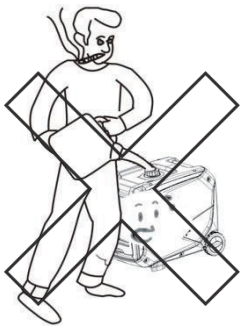
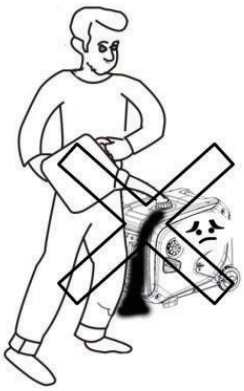
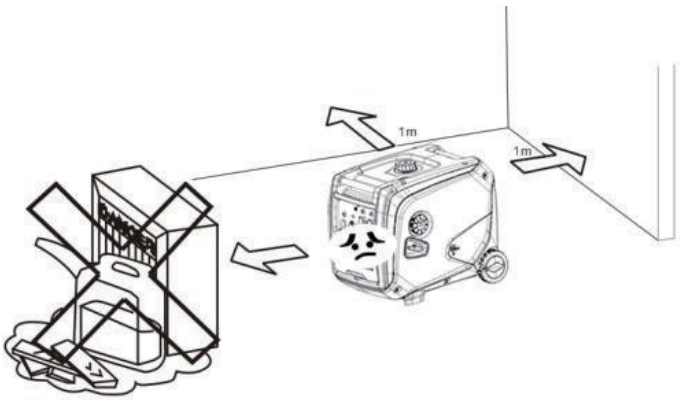
Never operate the inverter if it vibrates at high levels, if engine speed changes greatly or if the engine misfires often.

Always disconnect tools or appliances from the inverter before starting.

SAFETY

USAGE NOTES

Please read and understand this manual well before operating.
Familiarize with the safe operating procedures of generators can help you avoid accidents.

<table>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td>Do not use indoor</td><td>Do not use it in damp environment</td><td>Connect to the appliance</td><td>Do not smoke while fueling</td></tr>
<tr><td></td><td></td><td colspan="2">
</td></tr>
<tr><td>Do not spill fuel while filling</td><td>Do not re-fuel while generator is running</td><td colspan="2">Move all combustible materials away from generator at least 6.5ft. while in use</td></tr>
</table>

SPECIAL REQUIREMENTS

- Electrical equipment including wires and plugs should be no nudity.
- Protective circuit- breaker should match the generator equipment. As for a replacement, apply exactly the same parameters, performance circuitbreaker replacement.
- Ground the generator before use.
- You should meet the following requirements if you want to use extension line: 4mm², less than 100m.

SAFETY

SECURITY WARNING STICKERS

Pay attention to the security warning stickers before you use.



COMPONENTS



COMPONENTS FEATURE

① **Fuel Cap:**
Add unleaded fuel here. Close the cap until it clicks.

② **Engine Service Cover:**
Cover provides access to the engine, air cleaner, carburetor, and spark plug.

③ **Transport Wheels:**
Wheels allow one-handed maneuverability when used with the extendable handle.

④ **Extendable Handle:**
Extend and retract the handle by pushing the locking button.

⑤ **Carry Handles:**
Built-in handles allow easy, two-person transport.

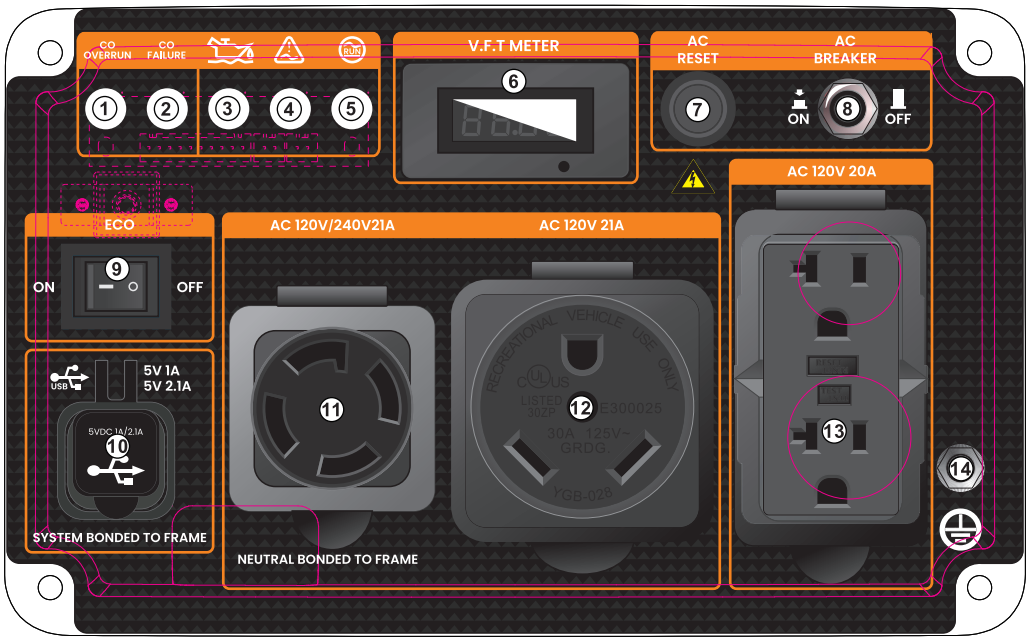
⑥ **Recoil Handle:**
Pull the recoil handle to manually start the engine.

⑦ **Control Panel:**
The control panel contains the outlets and operational controls.

⑧ **Oil Access Cover:**
Cover provides access to the oil fill cap/dipstick and oil drain plug.

⑨ **Muffler and Spark Arrestor:**
The spark arrestor prevents sparks from exiting the muffler.

COMPONENTS



CONTROL PANEL COMPONENTS

① **Co Alarm Light:**
Flashing red light: dangerous levels of carbon monoxide gas have built up leave immediately until area has aired out. Move generator to well-ventilated area before operation. The CO Sensor monitors for the accumulation of poisonous carbon monoxide gas around the generator when the engine is running.
If increasing levels of CO gas are detected, the CO Sensor automatically shuts down the engine.

② **Equipment Failure Light:**
Flashing yellow light: carbon monoxide sensor malfunction, sensor needs service.

③ **Low Oil Light:**
Indicates low oil level . When the oil level in the crankcase falls below the safe operating limit, the low oil level indicator will illuminate and the generator will automatically shut off the engine.

④ **Overload Light:**
Indicates that the generator is overloaded.

⑤ **Output Ready Light:**
illuminates when the generator is operating normally. Indicates the generator is producing electrical power at the receptacles.

⑥ **VFT Data Center:**
Displays cumulative run time, single run time, output voltage and frequency.

⑦ **AC Reset:**
The generator inverter will automatically switch OFF, when all AC output to protect the generator if overloaded or if there is a short circuit in a connected appliance.Unplug the devices and reduce the load. Push in the AC reset to reset it.

⑧ **AC Breaker:**
Circuit breaker limits the current that can be delivered through the NEMA5-20R receptacle to 20 Amps.

⑨ **Eco Mode:**
Eco mode minimizes fuel consumption and noise by adjusting the engine RPM to the minimum required for the current load.

⑩ **USB Ports:**
5V DC that come in 1 amps and 2.1 amps.

⑪ **120/240-Volt, 30-Amp Outlet:**
The outlet is capable of carrying a maximum of 30 amps.

⑫ **120-Volt, 30-Amp Outlet:**
The outlet is capable of carrying a maximum of 30 amps.

⑬ **120 Volt AC, 20 Amp Duplex NEMA 5-20R Receptacles:**
Receptacles can supply a maximum of 20 Amps.

⑭ **Ground Terminal:**
The ground terminal is used to externally ground the generator.

OPERATION

BEFORE STARTING THE INVERTER

BEFORE STARTING THE INVERTER, REVIEW SAFETY SECTION STARTING.

Location Selection – Before starting the inverter, avoid exhaust and location hazards by verifying:

- You have selected a location to operate the inverter that is outdoors and well ventilated.
- You have selected a location with a level and solid surface on which to place the inverter
- You have selected a location that is at least 6 feet (1.8 m) away from any building, other equipment or combustible material.
- If the inverter is located close to a building, make sure it is not located near any windows, doors or vents.

⚠ DANGER

Using a generator indoors
CAN KILL YOU IN MINUTES.
Generator exhaust contains carbon monoxide.
This is a poison you cannot see or smell



NEVER use inside a home or garage, **EVEN IF** doors and windows are open



Only use **OUTSIDE** and far away from windows, doors, and vents.

Avoid other generator hazards.
READ MANUAL BEFORE USE.

⚠ WARNING



Always operate the inverter on a level surface. Placing the inverter on non level surfaces can cause the inverter to tip over, causing fuel and oil to spill. Spilled fuel can ignite if it comes in contact with an ignition source such as a very hot surface.

NOTICE

Only operate the inverter on a solid, level surface. Operating the inverter on a surface with loose material such as sand or grass clippings can cause debris to be ingested by the inverter that could:
• Block cooling vents
• Block air intake system

Weather – Never operate your inverter outdoors during rain, snow or any combination of weather conditions that could lead to moisture collecting on, in or around the generator.

Dry Surface – Always operate the inverter on a dry surface free of any moisture.

No Connected Loads – Make sure the inverter has no connected loads before starting it. To ensure there are no connected loads, unplug any electrical extension cords that are plugged into the control panel receptacles.

NOTICE

Starting the inverter with loads already applied to it could result in damage to any appliance being powered off the inverter during the brief start-up period.

GROUNDING THE INVERTERS

There is a permanent conductor between the portable generator stator winding and the frame.
Status of the AC neutral conductor is BONDED TO FRAME.
Status of DC output receptacle(s) is BONDED TO FRAME.
Consult with your local municipalities for your grounding codes.

⚠ WARNING



Be sure the inverter is properly connected to earth ground before operating.

OPERATION

ADD FUEL

⚠ DANGER



Filling the fuel tank with gasoline while the inverter is running can cause gasoline to leak and come in contact with hot surfaces that can ignite the gasoline.

⚠WARNING



Never refuel the inverter while the engine is running.



Always turn the engine off and allow the inverter to cool before refueling.

⚠CAUTION



Avoid prolonged skin contact with gasoline. Avoid prolonged breathing of gasoline vapors.

Required Gasoline – Only use gasoline that meets the following requirements:

- Unleaded gasoline only
- Gasoline with maximum 10% ethanol added
- Gasoline with an 87 octane rating or higher

Filling the Fuel Tank – Follow the steps below to fill the fuel tank:

Fuel Tank Capacity : 11L

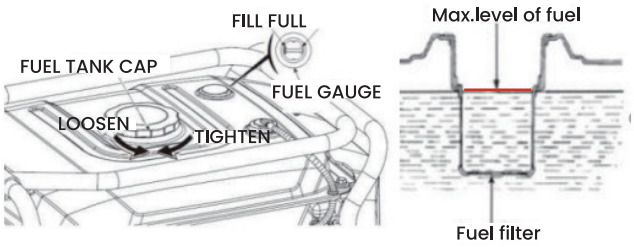
1. Shut off the inverter.
2. Allow the inverter to cool down so all surface areas of the muffler and engine are cool to the touch.
3. Move the inverter to a flat surface.
4. Clean area around the fuel cap.
5. Remove the fuel cap by rotating counterclockwise.

NOTICE

Do not overfill the fuel tank. Spilled fuel will damage some plastic parts.

6. Slowly add gasoline into the fuel tank. Be very careful not to overfill the tank.

   Note: The gasoline level should NOT be higher than the red ring.



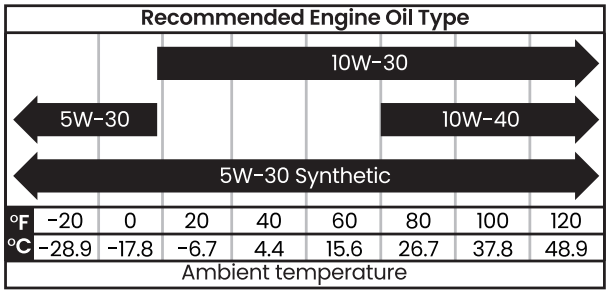
7. Install the fuel cap by rotating clockwise.

ADD ENGINE OIL

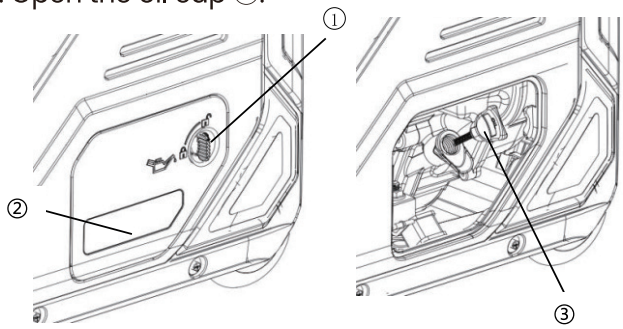
NOTICE

Engine oil must be added when the inverter is on a flat, level surface, or an inaccurate reading may result. Do not overfill. If the engine is overfilled with oil, it can cause serious engine damage.

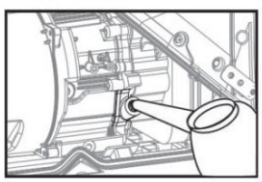
The included, recommended oil type for typical use is 10W-30 engine oil. If running the generator in extreme temperatures, refer to the following chart.



1. Please place the generator on a horizontal plance.
2. Turn the knob ① to the ON position and remove the oil maintenance door ②.
3. Open the oil cap ③.



4. Inject the specified amount of recommended oil and tighten the oil cap.
5. Restore the oil maintenance door and turn the knob to the OFF position.





NOTICE

As residual oil from the factory may remain in the engine, add the oil incrementally near the end of the bottle to prevent overfilling the engine.

OPERATION

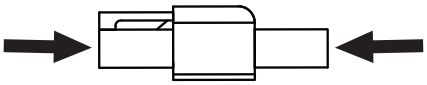
CONNECT THE BATTERY

NOTICE

1. For the first use, open the side panel and connect the battery line.
2. Disconnect the battery line if long storage is required.

1. Open the side panel.
2. Verify that the rubber battery strap is firmly securing the battery in place . If loose , pull on the strap and hook it onto the mounting base.
3. A quick-connect battery plug is pre-installed on the battery. Remove the cable tie securing the plugs then push firmly to connect them.

CONNECT BATTERY LINE



NOTICE

The generator is equipped with a battery charging feature. Once the engine is running, a small charge will slowly recharge the battery.

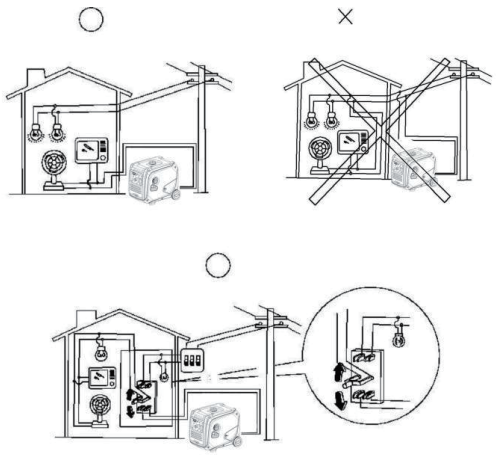
GENERATOR USAGE

- Applicable temperature: -5°C ~ 40°C.
- Applicable humidity: below 95%.
- Applicable altitude: the area below 1000 meters.

CONNECT TO HOUSEHOLD POWER SUPPLY

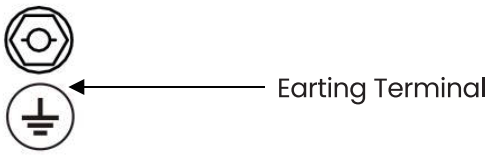
NOTICE

- When the generator is connected to the home power supply as a backup power supply, it should be connected by a special electrician or someone familiar with electricity.
- After connecting the load to the generator, carefully check whether the electrical connection is safe. Improper electrical connection may result in damageto the generator, combustion or fire.



GENERATOR GROUND

It is recommended to ground the generator with a good lead with in insulated leather in order to prevent the generator from being damaged by electric shock or the wrong use of electricity.

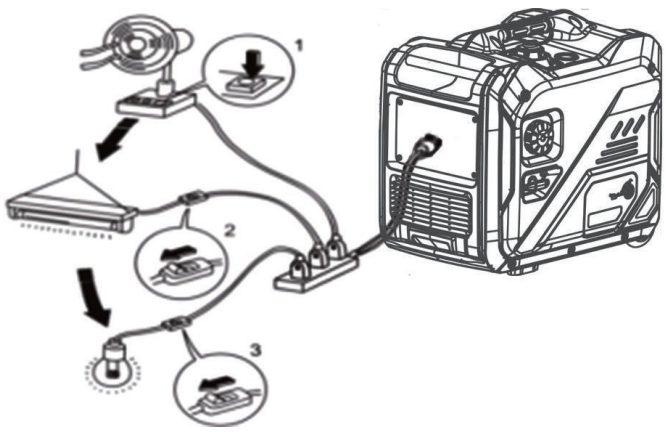


ALTERNATING CURRENT

Make sure before starting the generator.
The total power of the load apparatus (the sum of resistive, capacitive and inductive load) shall not exceed the rated power of the generator.

NOTICE

Overload will lead to generator flameout or greatly shorten the life of the generator. If more than one load or electrical equipment is connected to the generator set, remember that the one with the highest starting load isconnected first,and the one with the lowest starting current is conected last.



OPERATION

In general, capacitive and inductive load, especially motor drive device,produce a large starting current when starting up.The following table is for your reference when you connect these electrical appliances to the generator set.

Type	Wattage		Typical Equipment	Example		
	Start	Rated		Device	Start	Rated
Incandescent Lamp Heating Apparatus	X1	X1	Incandescent Lamp TV set	Incandescent Lamp 100w	100VA (W)	100VA (W)
Fluorescent Lamp	X2	X1.5	Fluorescent Lamp	Fluorescent Lamp 40W	80VA (W)	60VA (W)
Electromotor Drive Device	X3-5	X2	Refrigerator Electric Fan	Refrigerator 150W	450-750 VA(W)	300VA (W)

OPERATION AT HIGH ALTITUDE

1. The density of air at high altitudes is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Output will be reduced approximately 3.5% for every 1000 feets of increased altitude from sea level.
2. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling.
3. The performance of gasoline engines can be improved by replacing the carburetor with a slightly smaller main injector or by adjusting the adjusting screw.If you often use the generator at an altitude of more than 1000 feets, you can buy special high-altitude parts to replace for use.Otherwise, the load power should be reduced to use the generator.
4. Even with the suitable carburetor, a 1000 feets rise in altitude reduces petrol engine power by about 3.5%. Without the replacement of a suitable carburetor, this decline would be even greater.

⚠ WARNING

If a carburetor suitable for high altitude use is fitted to a gasoline engine for low altitude use, too thin mixture will reduce the power output of the gasoline engine, cause overheat or even serious damage.

START THE GENERATOR

Before attempting to start the inverter, verify the following:
The engine is filled with engine oil;
The inverter is situated in a proper location;
The inverter is on a dry surface;
All loads are disconnected from the inverter;
The inverter is properly grounded;

⚠ DANGER



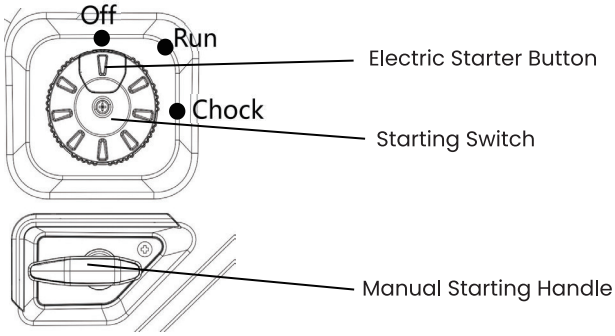
Never use the inverter in a location that is wet or damp. Never expose the inverter to rain, snow, water spray or standing water while in use. Protect the inverter from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.



Never operate the inverter in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the inverter outside and away from windows, doors and vents.

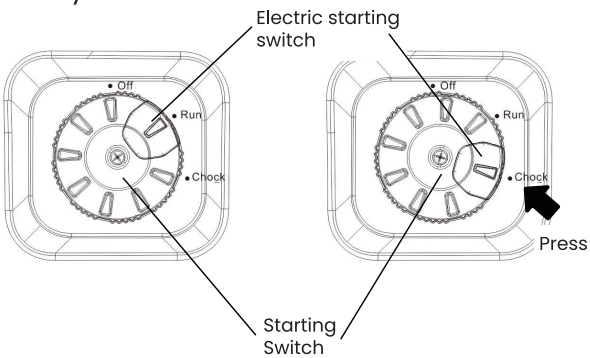
RECOIL START

1. Remove all the loads out of the output;
2. Turn the three-in-one switch to "CHOKE";
3. Gently pull the starting handle up until resistance is felt and pull it out quickly;
4. After the generator starts , turn the the three-in-one switch to "ON" and the generator can be used normally with load.



ELECTRIC START

1. Remove all the loads out of the output;
2. Turn the three-in-one switch to "CHOKE" and press the red button for 3-5s;
3. After the generator starts , turn the the three-in-one switch to "ON" then the generator can be used normally with load.



OPERATION

NOTICE

When the generator is started in warm state, turn the start switch to make the start button in the "run" position.

NOTICE

- Turn the generator switch to the electric starting position for no more than 5 seconds, otherwise it will damage the starting motor. If the start is unsuccessful, 10 seconds should be the interval for multiple starts.
- After The starter motor is used for a period of time, if the speed of it declines much, it means that the battery should be removed to charge.

STOP THE GENERATOR

During normal operation, use the following steps to stop your inverter:

1. Remove all loads in the output;
2. Turn the three-in-one switch to " OFF " and the generator stops running.

⚠ WARNING

If you need to stop the generator in an emergency, put the generator switch in the "off" position.

GENERATOR CAPACITY

NOTICE

Do not overload the generator's capacity. Exceeding the generator's wattage/amperage capacity can damage the generator and/or electrical devices connected to it.

Make sure the generator can supply enough continuous (running) and surge (starting) watts for the items you will power at the same time.
The total power requirements (Volts x Amps = Watts) of all appliances connected must be considered.
Appliance and power tool manufacturers usually list rating information near the model or serial number.

To determine power requirements:

1. Select the items you will power at the same time.
2. Total the continuous (running) watts of these items. This is the amount of power the generator must produce to keep the items running.
3. Estimate how many surge (starting) watts you will need. Surge wattage is the short burst of power needed to start electric motor-driven tools or appliances such as a circular saw or refrigerator. Because not all motors start at the same time, total surge watts can be estimated by adding only the item(s) with the highest additional surge watts to the total rated watts from step.

Example:

Tool or Appliance	Running Watts*	Starting Watts*
RV Air Conditioner (11,000 BTU)	1010	1600
TV (Tube Type)	300	0
RV Refrigerator	180	600
Radio	200	0
Light (75 Watts)	300	0
Coffee Maker	600	0
	2590 Total Running Watts*	1600 Highest Starting Watts*

Total Running Watts	2590
Highest Starting Watts	+ 1600
Total Starting Watts Needed	4190

*Wattages listed are approximate. Verify actual wattage.

MAINTAIN

Good maintenance is the best guarantee to achieve safe, economic and zero-fault operation. It also contributes to the environment protection.
To keep the engine in good condition, you must check and maintain it regularly. Please follow the schedule below.

Item \ Maintenance Period		Every time	First time in 1 month or 20 hours after use	Every 3 months or every 50 hours after use	Every Year or Use
Engine Oil	Check-Add	✓			
	Replace		✓	✓	
Reduction Gearbox Oil (if any)	Check Oil Level	✓			
	Replace		✓	✓	
Air filter Element	Check	✓			
	Clean			✓	
	Replace				✓
Sediment Cup (if any)	Clean				✓
Spark Plug	Clean-Adjust				✓
spark Arrestor	Clean		✓	✓	
Idling (if any)	Check-Adjust				✓
Valve Clearance	Check-Adjust				✓
Fuel Tank and Fuel Filter	Clean				✓
Fuel Pipe	Check	Every two years (Replace if necessary)			
Cylinder head, piston	Eliminate carbon deposition	Displacement <225cc, every 125 hours; Displacement ≧225cc, every 250 hours.			

NOTICE

- If you often work under high temperature or high load, you shouldchange the oil every 10 hours.
- If you often work in dusty or harsh environments, the air filter element should be cleaned every 10 hours, and if necessary, the air filter element should be replaced every 25 hours.
- Check the period and date, and maintenance should be carried out on the first arriving machine.
- If the maintenance period expired, the maintenance should be carried out according to the form above as soon as possible.

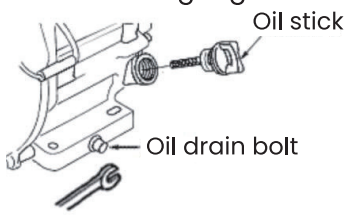
⚠ DANGER

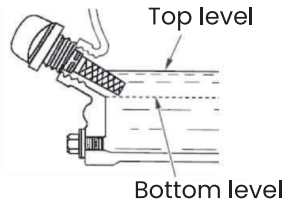
- Please stop the machine before carrying out any maintenance. The engine should be placed in a horizontal position. To prevent the engine from starting, separate the spark plug cap from the spark plug.
- Do not use it indoors or in poorly ventilated places such as tunnels and caves, and make sure that the working area is well ventilated. Exhaust gas from engine contains toxic gas carbon monoxide, which can cause shock, loss of consciousness and even death when inhaled.

CHANGE THE OIL

The oil can be discharged quickly and cleanly after starting the gasoline engine.

1. Remove the oil gauge. Then unscrew the oil opening bolt to drain the oil.
2. Install the oil drain bolt and tighten it.
3. Fill the oil and check the oil level.
4. Install the oil gauge.





NOTICE

1. Long-term and frequent skin contact with engine oil may lead to skin cancer. Although this is not inevitable, it is recommended to wash the skin exposed to engine oil immediately and thoroughly with soap and water.
2. From the perspective of environmental protection, please properly dispose of the used engine oil after use. We strongly recommend that you put the waste engine oil in a sealed container and send it to the local service station or waste oil recovery center.
3. Remember: do not throw it into a garbage or dump it on the ground or in a ditch.

MAINTAIN

CLEANING THE AIR FILTER

⚠ WARNING

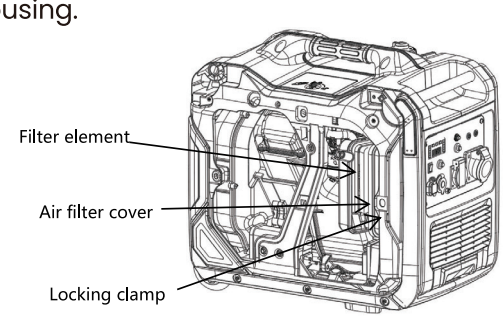
- Dirty air filter will affect air flowing into carburetor. To prevent carburetor failure, please regularly maintain the air filter. If used in dusty environment, it should be maintained more frequently.
- Please clean the filter element with soapy water or nonflammable solvent for the gasoline or the flammable solvent may cause fire or explosion.

NOTICE

It is forbidden to start the generator without installing an air filter, otherwise the gasoline engine will be worn-out quickly.

The air filter must be cleaned after every 50 hours of use or 3 months (frequency should be increased if inverter is operated in a dusty environment).

1. Turn off the inverter and let it cool for several minutes if running.
2. Remove the engine service panel to gain access to the air filter.
3. Unscrew the air cleaner cover and tip the cover down.
4. Remove the foam element from the air cleaner housing.



5. Wash the foam air filter element by submerging the element in a solution of household detergent soap and warm water. Slowly squeeze the foam to thoroughly clean.

NOTICE

NEVER twist or tear the foam air filter element during cleaning or drying. Only apply slow but firm squeezing action.

6. Rinse in clean water by submerging the air filter element in fresh water and applying a slow squeezing action.



NOTICE

Never dispose of soap cleaning solution used to clean the air filter by dumping the solution into a sewer, on the ground, or into ground water or waterways. Always be environmentally responsible. Follow the guidelines or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

7. Dispose of used soap cleaning solution properly.
8. Dry the air filter element by again applying a slow firm squeezing action.
9. Return the air filter element to its position in the air cleaner housing.
10. Install the air cleaner cover, making sure the tabs lock into place.
11. Install the engine service panel.

REPLACE THE SPARK PLUG

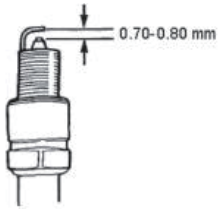
Please replace the spark plug in accordance with the original specification: F7RTC/F7TC

1. Stop the inverter and let it cool for several minutes if running.
2. Move the inverter to a flat, level surface.
3. Detach the cover of spark plug.
4. Remove the spark plug boot by firmly pulling the plastic spark plug boot handle directly away from the engine.
5. Using the spark plug socket wrench provided, remove the spark plug from the cylinder head.

NOTICE

Never apply any side load or move the spark plug laterally when removing the spark plug. Applying a side load or moving the spark plug laterally may crack and damage the spark plug boot.

6. Place a clean rag over the opening created by the removal of the spark plug to make sure no dirt can get intothe combustion chamber.
7. Measure spark plug with thickness gauge,and bend the side electrodes to adjust the gap. The gap should be guaranteed to be 0.70-0.80mm.



Please use the spark plug with proper calorific value.

8. Inspect whether the spark plug gasket is in good condition.
9. Install the spark plug, and tighten it with the socket wrench， press the spark plug ring and cover the spark plug cap tightly.

MAINTAIN

CLEANING THE SPARK ARRESTOR

Check and clean the spark arrestor after every 100 hours of use or 6 months.

1. Stop the inverter and let it cool for several minutes if running.
2. Move the inverter to a flat, level surface.
3. Remove the screws holding the inverter cover as well as the bolts and screw holding the inverter cover.
4. Once the inverter cover is removed, tilt the top of the muffler cover downward and pull out to remove it.
5. Loosen the clamp holding the spark arrestor onto the muffler with a screw driver.
6. Slide the spark arrestor band clamp off the spark arrestor screen.
7. Pull the spark arrestor screen off the muffler exhaust pipe.
8. Using a wire brush, remove any dirt and debris that may have collected on the spark arrestor screen.
9. If the spark arrestor screen shows signs of wear (rips, tears or large openings in the screen), replace the spark arrestor screen.
10. Install the spark arrestor components in the following order:
    a.Place spark arrestor screen over the muffler exhaust pipe. Push on the screen until it fully bottoms out.
    b.Place the spark arrestor band clamp over the screen and tighten with a screwdriver.
11. Replace the muffler cover and the inverter cover that you removed in step 4.

TRANSPORTING

- Allow the generator to cool a minimum of 30 minutes before transporting.
- Replace all protective covers on the generator control panel.
- Only use the generator's fixed handle(s) to lift the unit or attach any load restraints such as ropes or tie-down straps. Do not attempt to lift or secure the generator by holding onto any of its other components.
- Keep the unit level during transport to minimize the possibility of fuel leakage or, if possible, drain the fuel or run the engine until the fuel tank is empty before transport.
- The generator wheels are only intended for hand transport. The wheels are not suitable for towing the generator either on or off-road.
- Use the extendable handle for one-person, hand transport. Only extend or retract the handle while the generator is OFF, stationary, and resting on a horizontal surface. Do not use the extendable handle to lift the generator entirely off the ground, tow it, or up-end it.

STORAGE

⚠ WARNING

In order to avoid burning or fir caused by contact with high-temperature parts of the generator, the generator must be cooled before being packaged and stored.

Please ensure the storage area is clean and dry if long-term storage is needed.

1. Clean the fuel in the fuel tank. Clean the fuel filter screen, O-ring seal and settling cup before installing them. Unscrew the carburetor oil drain bolt, clean the fuel in the carburetor, and then install and tighten the carburetor oil drain bolt.

⚠ WARNING

Usually, the engine oil is combustible and explosive. Please drain the oil under well ventilated conditions after shutdown. Fireworks are strictly prohibited during oil discharge.

2. Unscrew the oil level gauge and the oil drain bolt on the crankcase, and drain the oil in the crankcase. Then tighten the oil drain bolt, fill new oil to the upper limit of oil, and then install the oil level gauge.
3. Remove the spark plug and pour a tablespoon of clean engine oil into the combustion chamber. Rotate the crankshaft several times to distribute the oil everywhere. Then install the spark plug.
4. Gently pull the starting handle until resistance is felt, so that the intake and exhaust valves are closed.
5. Place the generator set in a clean and dry area.

TROUBLE SHOOTING

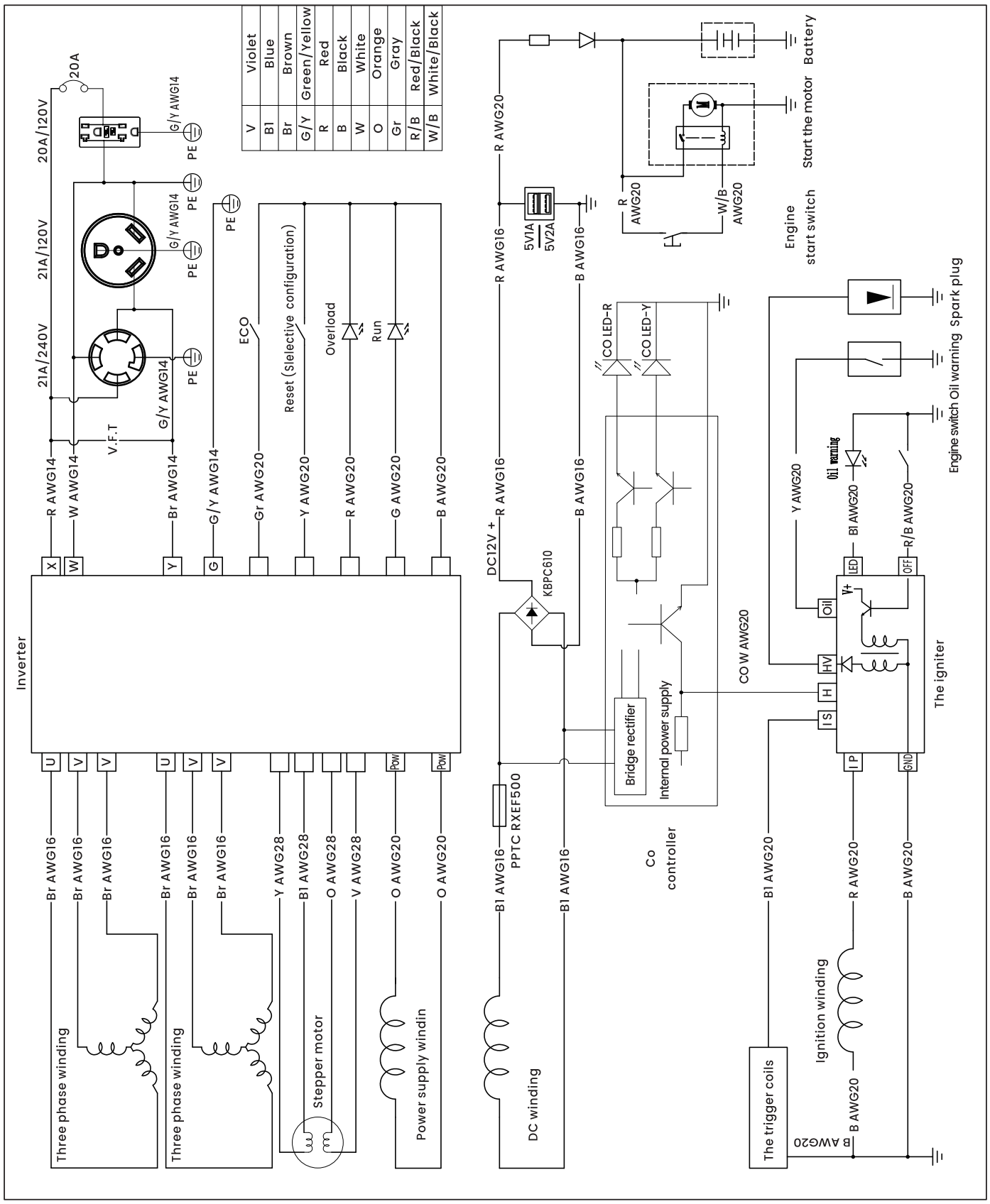
⚠WARNING



Before attempting to service or troubleshoot the generator, the owner or service technician must first read the owner's manual and understand and follow all safety instructions. Failure to follow all instructions may result in conditions that can lead to voiding certification or product warranty, serious personal injury, property damage or even death.

PROBLEM	POTENTIAL CAUSE	SOLUTION
Engine is running, but no electrical output.	1. Reset breaker is tripped.	1. Reset the reset breaker.
	2. The power cord's plug connector is not fully engaged in the inverter's outlet.	2. Verily plug connector is firmly engaged in the inverter's outlet.
	3. Faulty or defective power cord.	3. Replace power cord.
	4. Faulty or defective electrical appliance.	4. Try connecting a known good appliance to verify the inverter is producing electrical power.
Engine will not start or remain running while trying to start.	1. Inverter is out of gasoline.	1. Add gasoline to the inverter.
	2. Fuel flow is obstructed.	2. Inspect and clean fuel delivery passages.
	3. Dirty air filter.	3. Check and clean the air filter.
	4. Low oil level shutdown switch is preventing the unit from starting.	4. Check oil level and add oil if necessary.
	5. Spark plug boot is not fully engaged with the spark plug tip.	5. Firmly push down on the spark plug boot to ensure the boot is fully engaged.
	6. Spark plug is faulty.	6. Remove and check the spark plug. Replace if faulty.
	7. Dirty/plugged spark arrester.	7. Check and clean the spark arrester.
	8. Stale fuel.	8. Drain fuel and replace with fresh fuel.
Inverter suddenly stops running.	1. Inverter is out of fuel.	1. Check fuel level. Add fuel if necessary.
	2. The low oil shut down switch has stopped the engine.	2. Check oil level and add oil if necessary.
	3. Too much load	3. Restart the inverter and reduce the load.
Engine runs erratic; does not hold a steady RPM.	1. Choke was left in the **CHOKE** position.	1. Move choke to the **RUN** position.
	2. Dirty air filter.	2. Clean the air filter.
	3. Applied loads maybe cycling on and off.	3. As applied loads cycle, changes in engine speed may occur; this is a normal condition.

CIRCUIT DIAGRAM



EMISSION CONTROL SYSTEM WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The U. S. EPA and Chongqing Guoyu Technology Co., Ltd. are pleased to explain the emissions control system warranty on your model year 2022 and later small off-road engine and equipment (equipment).
New equipment must be designed, built and equipped to meet the stringent anti-smog standards. Chongqing Guoyu Technology Co., Ltd. must warranty the emission control system on your equipment for the period of time listed below, provided there has been no abuse, neglect or improper maintenance of your equipment.
Your emission control system may include parts such as the carburetor, air cleaner, ignition system, exhaust system, and other associated emission-related components.
Where a warrantable condition exists, Chongqing Guoyu Technology Co., Ltd. will repair your equipment at no cost to your including diagnosis, parts and labor.

MANUFACTURER'S WARRANTYCOVERAGE

This emissions control system is warranted for two years. If any emission-related part on your equipment is defective, the part will be repaired or replaced by Chongqing Guoyu Technology Co., Ltd.

OWNER'S WARRANTY RESPONSIBILITIES

As the equipment owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. Chongqing Guoyu Technology Co., Ltd. recommends that you retain all your receipts covering maintenances on your equipment, but Chongqing Guoyu Technology Co., Ltd. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance to all scheduled maintenance.
As the equipment owner, you should however be aware that Chongqing Guoyu Technology Co., Ltd. may deny your warranty coverage if your equipment or part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
You are responsible for presenting your equipment to an Authorized Chongqing Guoyu Technology Co., Ltd. Service Dealer as soon as a problem exists. The warranted repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact Chongqing Guoyu Technology Co., Ltd. customer service representative at 1-877-673-7767.

DEFECTS WARRANTY REQUIREMENTS

Chongqing Guoyu Technology Co., Ltd. warrants to the ultimate purchaser and each subsequent purchaser that the equipment is designed, built and equipped so as to conform with all applicable regulations; and free from defects in materials and workmanship that cause the failure of a warranted part, and is identical in all material respects to that part as described in the application for certification.
The warranty period begins on the date the equipment is delivered to an ultimate purchaser or first placed into service. Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

1. Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by Chongqing Guoyu Technology Co., Ltd. according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.

2. Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.

3. Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by Chongqing Guoyu Technology Co., Ltd. according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

4. Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.

5. Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.

6. The equipment owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.

7. Chongqing Guoyu Technology Co., Ltd. is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.

8. Throughout the equipment warranty period stated above, Chongqing Guoyu Technology Co., Ltd. will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

9. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of Chongqing Guoyu Technology Co., Ltd.

10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claim. Chongqing Guoyu Technology Co., Ltd. will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

WARRANTED PARTS

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if Chongqing Guoyu Technology Co., Ltd. demonstrates that the equipment has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. Further, the coverage under this warranty extends only to parts that were present on the equipment purchased. The following emission warranty parts are covered (if applicable):

1. Air-induction system
   - Air cleaner
   - Intake manifold
2. Fuel system
   - Cold start enrichment system (soft choke)
   - Carburetor and internal parts
   - Fuel Pump
   - Fuel Tank
3. Ignition system
   - Spark plug(s)
   - Magneto Ignition System
4. Exhaust systems
5. Miscellaneous Items Used in Above System
   - Vacuum, temperature , position, time sensitive valves and switches
   - Sensors
   - Electronic control units
6. Evaporative Emissions Control
   - Fuel Cap.
   - Fuel Line.
   - Fuel Line Fittings.
   - Vapor Hoses.
   - Carbon Canister.

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