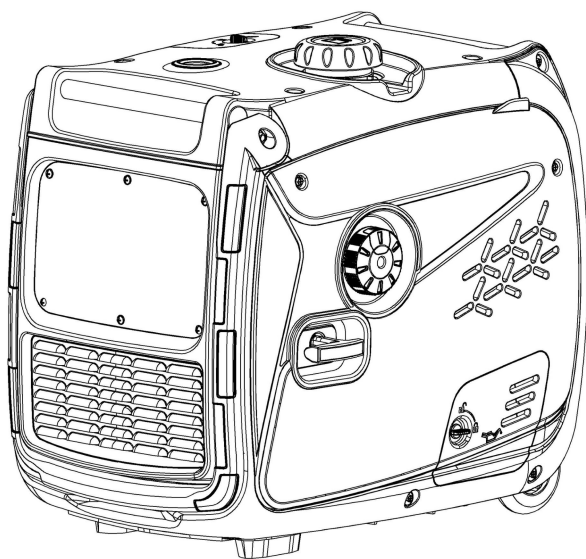


INVERTER GENERATOR

RAD6000iE



Please read and save this manual.



WARNING

- Be sure to read the manual before using, otherwise the wrong operation will lead to safety risks or equipment damage. As long as follow the operation of this manual book, the company's inverter generator is safe and reliable.

Safety Warning

- The personal and property safety of you and others is very important. Please read carefully the extremely important safety warnings we have written in the manual and the label of the generator set.
- Safety warnings can alert you to potential dangers that may harm you and others.
- There are one of these three symbols: "Danger", "Warning", "Notice" in front of safety warning. Details as below:



DANGER

If you do not follow the instructions, your life will be in danger or you will be seriously injured.



WARNING

If you do not follow the instructions, your life could be in danger or you will be seriously injured.



NOTICE

If you do not follow the instructions, you will be slightly injured.

If you do not follow the instructions, your generator set and other property may be damaged.

CONTENT

1. SAFETY INFORMATION	5
2. LABELS	11
3. Components Identification	13
3.1 Components Feature	13
3.2 Control Panel	14
4. Control System	15
4.1 Oil Alarm System (Yellow)	15
4.2 Overload Indicator (Red)	15
4.3 Operation Indicator Light (Green)	16
4.4 CO Shutoff System Indicator Light (Red)	17
4.5 CO System Fault Indicator Light (Yellow)	17
4.6 Energy-Saving Switch	17
4.7 Ground Terminal	18
5. Preparations	18
5.1 Fuel	18
5.2 Oil	19
5.3 Recoil Start Handle	20
5.4 Three-in-one Switch	21
5.6 AC Circuit Breaker Protection	22
5.7 Ground Terminal	22
6. Generator Usage	22
6.1 Connect Household Electrical Equipment	22
6.2 Generator Ground	23
6.3 Alternating Current	24

6.4 Used at high altitudes	25
7. Start the Generator	26
7.1 Recoil Start	26
7.2 Electric Start	27
8. Stop The Generator	31
9. Maintenance	31
9.1 Change Oil	33
9.2 Maintain the Air Filter	34
9.3 Spark Plug	35
10. Storage	36
11. Trouble Shooting	38
12. Circuit Diagram	39
13. Parameter	41

To ensure personal and property safety, please read the following content carefully.

1. SAFETY INFORMATION

- Before use, add gasoline to the red ring in the tank!
- Check the oil level before use!



TOXIC FUMES

- The engine tail gas contains carbon monoxide, and it is strictly prohibited to run the generator at the place where the indoor or the ventilation is not good.
- Ensure that adequate ventilation is provided while the generator is in operation.
- The muffler is hot when the generator is running and just stopping. Be careful not to touch it.



FIRE

- Under certain circumstances, gasoline and LPG(if equipped) is extremely flammable and explosive.
- Be sure to add gasoline in a well-ventilated place. Turn off the engine and let it cool before filling.
- When refuelling, keep away from the open fire.
- If there is oil spill while refuelling, wipe the spilled gasoline immediately.
- Use in places with high fire risk should be prohibited.



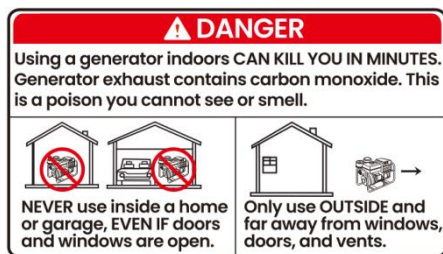
ELECTRICAL SHOCK

- Do not connect the generator to building's electrical system, or it may cause people to die from electric shock when they come into contact with the wire; damage the generator or damage the home appliance.
- This generator produces powerful voltage and the electricity CAN KILL YOU.
- This generator must be properly connected to an appropriate ground to help prevent electric shock. Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit. Consult an electrician for local grounding requirements.
- Installation should be performed by a certified electrician. Improper installation can result in electrical shock and death.
- The portable generator stator winding is isolated from the frame and from the AC receptacle ground pin;and
- Electrical devices that require a connection between one conductor pin and the grounded receptacle pin may not function properly.



HOT SURFACE

- Running engines generators produce heat. Severe burns can occur on contact.
- DO NOT touch generator while operating or just after stopping. Avoid contact with hot exhaust gases.
- Maintain at least three feet of clearance on all sides to ensure adequate cooling.
- Combustible material can catch fire on contact. Maintain at least five feet of clearance from combustible materials.
- Place the appliance on stable surfaces only.
- The load must not exceed the power marked on the rating label of the generator. Overloading may result in damage to, or a shorter life of the appliance.
- The motor must not be operated with excessive rotary speed. The operation of the motor with excessive rotary speed raises the risk of injury. Parts which affect the rotary speed must not modified or replaced.
- Do not operate or store the appliance in wet or humid surroundings or on highly conductive surfaces such as metal coatings or steel constructions.



Poisonous gas!

- Engine exhaust gas is poisonous; don't operate in an unventilated room. When installed in ventilated room, additional requirement for fire and explosion protection shall be observed.



- A pre-operation check must be performed before starting the engine to avoid accidents or equipment damage.

- Generators must operate at least one meter away from the building and other equipment.

- Please put the generator on the horizontal ground. If the generator is tilted, it may cause gasoline overflow.

- Be sure to master how to quickly shut off generators and understand the operation of all control components.

Children and pets must stay away from the operating area. While the engine is running, all personnel must be away from its rotating parts.

- If the operation is not proper, there is a potential danger to the generator. Do not operate the generator with a wet hand.

- Do not operate in the rain, snow, lest wet generator.

- Maintenance of generators should be by professionals only.



- It is strictly forbidden to use in an indoor or enclosed environment.

- Do not use in environments with explosion hazard.

- The operation and maintenance of equipment requires the use of personal protective equipment such as gloves, earmuffs, etc.

- These labels warn you of potential dangers that can cause serious casualties. Please read carefully the label contents described in this manual, as well as safety warnings and comments. If the label has fallen off or cannot be seen clearly, please contact our distributor and replace it.



Electrical safety

- Before use, the generating set and its electrical equipment (including lines and plug connections) should be checked to ensure that they are not defective.

Protection against electrical shock depends on circuit breakers specially matched to the generating set. If the circuit breakers require

replacement, they should be replaced with a circuit breaker having identical ratings and performances characteristics

- Due to high mechanical stresses, only tough rubber-sheathed flexible cable or the equivalent should be used.

- If you need extension cords, use flexible cables such as rubber sleeves (compliant with IEC245 or corresponding requirements). Specification: $\geq 14\text{AWG}/20\text{ft.}$ the extension lines should be special used for power supply cord line.

- The choice of protection arrangement to be carried out depending on characteristic of the generator, running conditions and scheme of grounded liaisons determined by the user. The user that he shall conform to regulations of electrical safety applicable to the place where the generating sets are used. And the requirements and the precautions to be respected by the user in the case of re-supply by generating sets of an installation, depending on existing protective measures in this installation and applicable regulations.

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

- Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry.

- If the generator is stored outdoors, unprotected from the weather, check all electrical components on the control panel, before each use. Moisture or ice can cause a malfunction or short circuit in electrical components which could result in electrocution.

- Do not connect to a building electrical system unless an isolation switch has been installed by a qualified electrician.

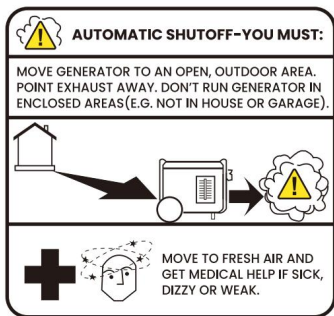
Grounding

- The portable generator stator winding is isolated from the frame and from the AC receptacle ground pin;and
- Electrical devices that require a connection between one conductor pin and the grounded receptacle pin may not function properly.
- Status of the AC neutral conductor is NEUTRAL FLOATING.
- Status of DC output receptacle(s) is BONDED TO FRAME.

2.LABELS

2.1 Warning labels

1) User instruction label



2) CO poisoning hazard label



3) Warning labels



4) Direction of engine exhaust label



5) Burning hazard label

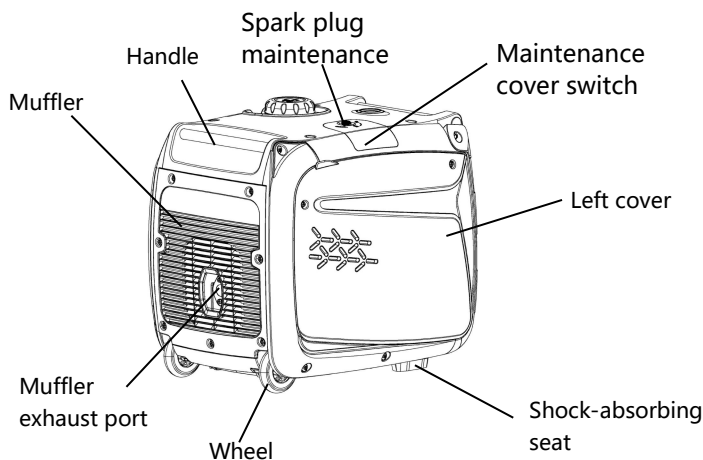
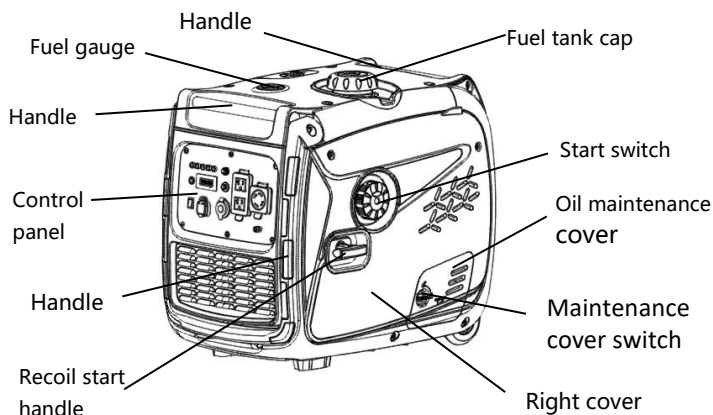


1.2 Nameplate

RINADURS		RAD6000iE	
Rated Power:	5.0kW	Rated Speed:	4800rpm
Rated Voltage:	120V/240V	Ambient Temp.:	-5~40°C
Rated Current:	20.8A	Number of Phases:	Single
Rated Frequency:	60Hz	Insulation Class:	Class H
Power Factor:	1.0	MADE IN CHINA	
Chongqing meizehui technology co., ltd			

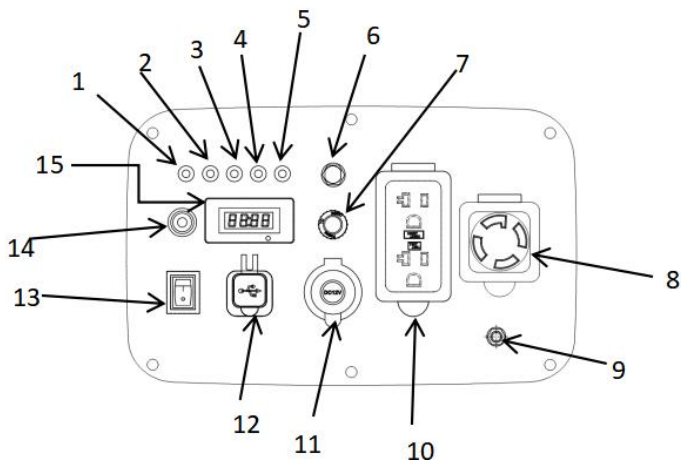
3. Components Identification

3.1 Components Feature



3.2 Control Panel

(Depending on the configuration, the factory will make the appropriate adjustments, those changes are without separate notice.)



1.CO Overrun indicator (red)	10.20A Socket
2.CO Failure indicator (yellow))	11.DC 12A Socket
3.Low oil indicator (yellow)	12.USB Socket
4.Overload indicator (red)	13.ECO
5.Running indicator (green)	14.Reset
6.AC Overload	
7.DC Overload	
8.50A Socket	
9.Ground protection	

4. Control System

4.1 Oil Alarm System (Yellow)

The engine oil protection system will stop the engine automatically if the oil is insufficient and the oil indicator will turn on. Check the oil level and re-fill it if necessary then start again.



If the oil alarm indicator flashes for few seconds, it means the oil capacity is insufficient. Refill the oil and restart the engine.

4.2 Overload Indicator (Red)

4.2.1 When the red indicator light flashes and the green indicator light remains on constantly, it indicates that the generator set has exceeded the rated load. If used for a long time, the output will be automatically disconnected. Please reduce the load equipment or lower the load power to the rated power range.



4.2.2 When the green indicator light goes out and the red indicator light flashes 6 times every 3 seconds, it indicates that the output of the generator set is disconnected due to overload protection or short circuit. Please reduce the load equipment or lower the load power to the rated power range, or remove the short circuit fault, and then gently touch the reset button. When the green indicator light is on again, it indicates that the generator set is operating normally.

4.2.3 When the green indicator light is off and the red indicator flashes 3 times every 3s, it indicates that the operating temperature of the generator set has exceeded the limit. Please turn off the generator set and place it in a well-ventilated environment with a temperature below 40°C before using it again. Or reduce the load power and then gently touch the reset button. When the green indicator light is on again, it indicates that the generator set is operating normally.

4.2.4 When the green indicator light is off and the red indicator light flashes once every 3s, it indicates that the power input of the generator set is insufficient. Please turn off the generator set, maintain the air filter, spark plug and carburetor before using it again. Or reduce the load power and then gently touch the reset button. When the green indicator light is on again, it indicates that the generator set is operating normally.

NOTE: When using the electrical equipment with high starting current (like compressors and sinking pumps,etc.), the overload indicator may flash for few seconds, which is a normal phenomenon, because the inverter is controlled according to the current, as long as the duration does not reach the protection time, the equipment will return to normal after successful operation.

4.3 Operation Indicator Light (Green)

The Operation indicator is on when the engine starts and outputs normally.



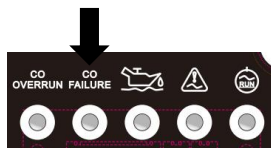
4.4 CO Shutoff System Indicator Light (Red)

When the CO concentration in the environment where the generator set is located exceeds the value stipulated by relevant regulations, it will flash and cause the generator set to shut down, no longer emitting exhaust gas.



4.5 CO System Fault Indicator Light (Yellow)

When the CO sensor of the generator set malfunctions and cannot normally determine the CO concentration in the environment, the indicator light will light up, causing the generator set to shut off and fail to start normally. It is necessary to replace the CO sensor equipment or repair the generator set.



4.6 Energy-Saving Switch

4.6.1 "ON"

When the switch is in the "ON" position, the energy-saving device controls the engine speed according to the load it is connected to, resulting in better fuel consumption and low noise.

4.6.2 "OFF"

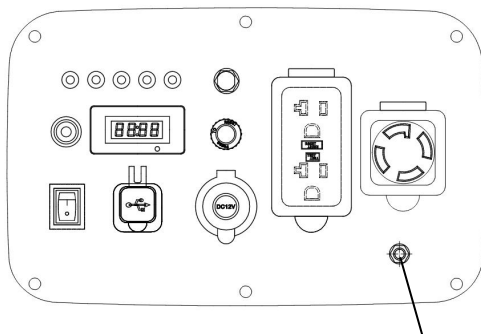
When the energy-saving switch is in the "OFF" position, the engine runs at rated speed (4800r/min regardless of whether the load is connected.



Tips: When using devices such as air compressors or sinking pumps, the ECO must be turned off as a large starting current is required.

4.7 Ground Terminal

The ground terminal is connected to the ground wire to prevent electric shock. When electrical equipment is grounded, the generator must be grounded.



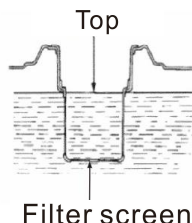
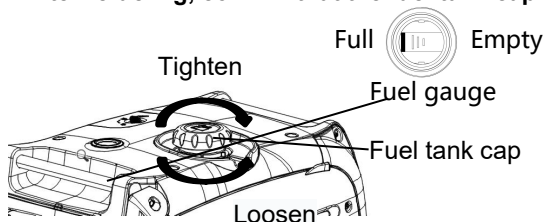
Ground terminal

5. Preparations

5.1 Fuel



- Fuel is flammable and toxic. Please read the safety instructions carefully before refueling (see page 6 for details).
- Do not fill the fuel tank too full, otherwise, the fuel will overflow when the tank gets warm.
- After refueling, confirm that the fuel tank cap has been tightened.

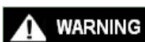




- After refueling, wipe the residual gasoline with a clean, soft cloth to avoid damaging the plastic shell.
- Do use unleaded gasoline, because leaded gasoline can seriously damage the engine's internal parts.

Recommended fuel: Unleaded gasoline

5.2 Oil

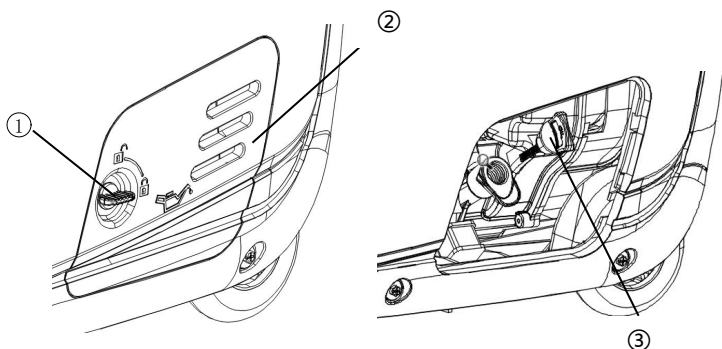


The generator was delivered without engine oil. Do not start the generator without sufficient engine oil.

5.2.1 Please place the generator on a horizontal place.

5.2.2 Turn the knob ① to the ON position and remove the oil maintenance door ②.

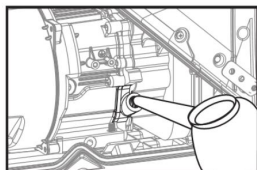
5.2.3 Open the oil filling cap ③.



5.2.4 Inject the specified amount of recommended oil and tighten the

oil cap.

5.2.5 Restore the oil maintenance door and turn the knob to the OFF position.

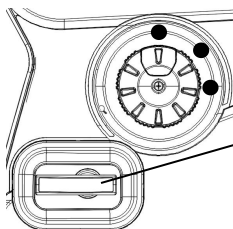


Recommended engine oil: SAE 10W-30

Recommended grade of engine oil: API standard SJ type or higher grade

5.3 Recoil Start Handle

Gently pull the start handle up until resistance is felt, then pull it out quickly.



Recoil start handle

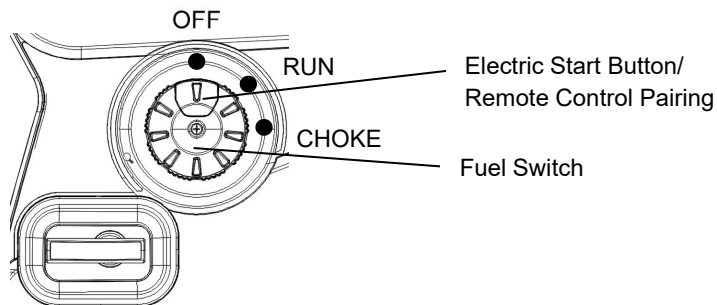


Do not release the start handle directly after startup. Instead, gently put the handle back.

5.4 Three-in-one Switch

(Fuel switch/Electric start button/Choke)

Fuel switch is the device that controls the flow of fuel from the tank to the carburetor. After shutdown, ensure that the start button on the fuel switch is in the OFF position. When the start button points to the OFF position, the fuel switch cuts off the fuel supply. When the start button points to the RUN and CHOKE positions, the fuel supply is provided.

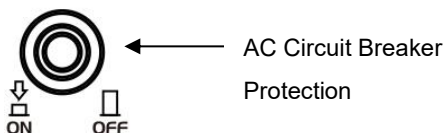


Electric start button is a control device which drives the starting battery built in the unit to drive the engine to start. When turn the start switch to the CHOKE position and then press the electric start button, the starting motor drives the engine to start. After starting, the start switch must be turned to the RUN position.

Choke provides a high-concentration mixture to the gasoline engine during cold start-up. When starting a hot engine and it fails to start normally according to the above method, turn the switch to RUN position and start it again.

5.6 AC Circuit Breaker Protection

Overload current can automatically turn off the breaker protector. Load short circuit and overload should be avoided. If the circuit breaker is automatically turned off, be sure to check the load condition before pressing it to the ON position.



5.7 Ground Terminal

Ground terminal is a special terminal used to ground the whole generator well.



6. Generator Usage

- Applicable temperature: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$.
- Applicable humidity: below 95%.
- Applicable altitude: the area below 1000 meters (Drop the power or contact the dealer to adjust the carburetor for use in the area above 1000 meters).

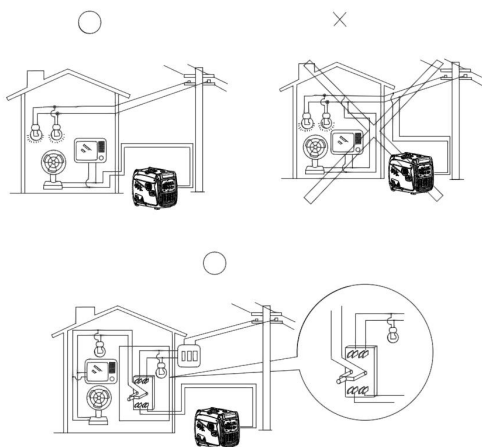
6.1 Connect Household Electrical Equipment



After connecting the household electrical equipment to the generator, carefully check whether the electrical connection is safe and reliable. If there is any incorrect electrical connection, it may cause damage, combustion or fire to the generator.

When connecting the generator to the household power grid as a backup power, it should be operated by a specialist electrician or someone familiar with electricity.

Generator without ATS (Automatic Transfer Switch) function shall not be directly connected to the household power grid.



6.2

Generator

Ground

To prevent inferior electrical appliances from being electrocuted or the generator from being damaged due to incorrect use of electrical equipment, it is recommended to ground the generator with high-quality insulated wires.



← Ground Terminal



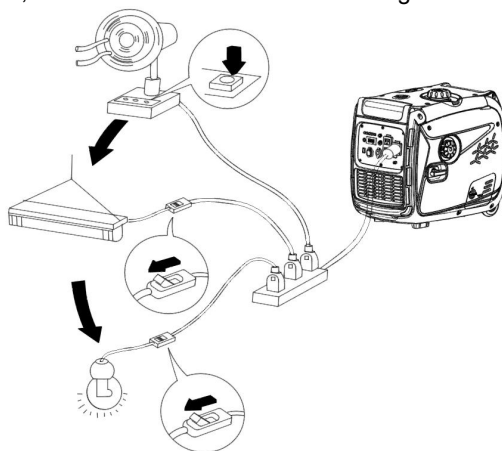
6.3 Alternating Current

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.



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 is connected first, and the one with the lowest starting current is connected last.



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	X1	X1			100VA (W)	100VA (W)
●Heating Apparatus				100W		
●Fluorescent Lamp	X2	X1.5			80VA (W)	60VA (W)
●Electromotor Drive Device	X3-5	X2	 	 150W	450-750VA (W)	300VA (W)

6.4 Used at high altitudes

At high altitudes, a standard carburetor can over-concentrate the mixture gases of the engine, reduce power output and increase fuel consumption. 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 meters, you can buy special high-altitude parts to replace for use. Otherwise, the load power should be reduced to use the generator.

Even with the right carburetor, every 300 meters increase in altitude, the power of a gasoline engine will decrease by approximately 3.5%. Without the replacement of a suitable carburetor, this decline would be even greater.



If carburetors suitable for high-altitude use are equipped on gasoline engines for low-altitude use, the overly thin mixture will cause a decrease in the output power of the gasoline engine, overheating and even serious damage.

7. Start the Generator

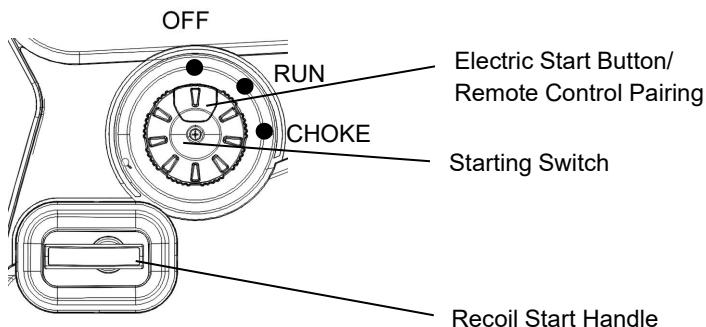
Before starting the generator, please prepare the unit before operation. You should fill the oil and fuel, and if have the tank cap ventilation switch, turn the ventilation switch of the fuel tank cap to the "ON" position.

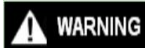
7.1 Recoil Start

7.1.1 Remove all loads from the output.

7.1.2 Turn the start switch to the CHOKE position.(Remote control, mobile phone Bluetooth APP unit, and one-touch start/stop unit, turn the start switch to the RUN position.)

7.1.3 Press the AC circuit breaker protector to the OFF position.





When start a hot engine and fail to start normally according to the above method, then turn the switch to RUN position and start it again.

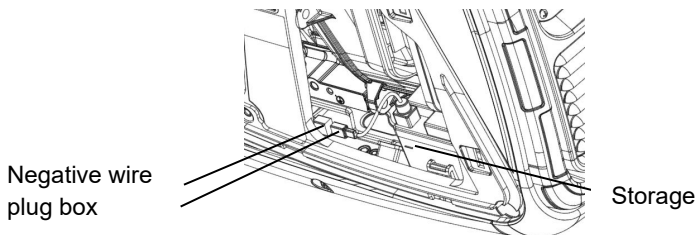
7.1.4 Gently pull the starting handle up until resistance is felt and pull it out quickly.

7.1.5 When the generator is started, turn the start switch to the RUN position.

7.1.6 Press the AC circuit breaker protector to the ON position before the electrical load can be used.

7.2 Electric Start

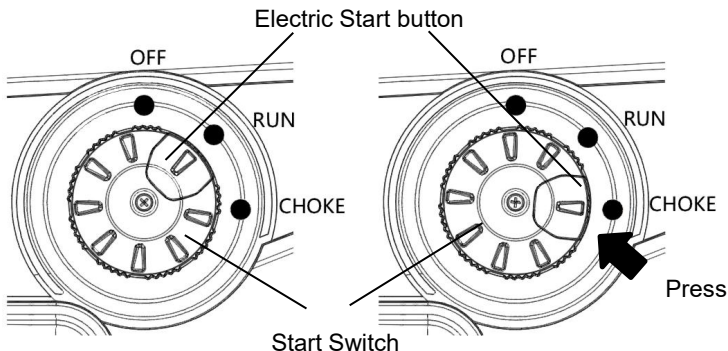
Before starting, remove the cover and connect the negative wire into the box. Please refer to the attached diagram for details.



7.2.1 Remove all loads from the output end.

7.2.2 Turn the start switch to the CHOKE position.

7.2.3 Press the AC circuit breaker protector to the OFF position.





When start a hot engine and fail to start normally according to the above method, then turn the switch to RUN position and start it again.

7.2.4 Press the electric start button.

7.2.5 When the generator is started, turn the start switch to RUN position.

7.2.6 Press the AC circuit breaker protector to the ON position before the electrical load can be used.



Press the electric start button for no more than 5 seconds; otherwise, the starting motor will be damaged. If the start-up is unsuccessful, there should be a 10-second interval between multiple starts.

If the speed of the starter motor drops significantly after being used for a period of time, it means that the battery should be removed for charging.



The lithium-ion battery is required to store no more than 50% of its capacity when it leaves the factory. When running the remote-controlled generator for the first time, please start the engine by recoil start and let the machine run continuously for more than 2 hours to complete the charging. Otherwise, the service life of the battery will be shortened.

When the generator with remote control configuration fails to start more than three times, please press the "OFF" button of the remote control key to stop the repeated starting and switch to recoil start. Or eliminate the fault before remote control start. Otherwise, the starter motor and battery may be damaged.

If it is not used within 48 hours, please turn off the power switch to avoid affecting the battery life or causing abnormal starting, and turn off the fuel switch to prevent leakage.

The daily use of the starting battery of the generator set should pay attention to the following matters to protect the starting battery and extend its service life:

1. Theoretically, the battery power should be kept above 60%, which is more helpful to prolong the service life of the battery.

2. When starting the generator, please be careful not to start the generator several times in a short time to avoid damage to the battery or circuit. If the generator cannot be started after 5 consecutive starts, please stop it for inspection or send it to a special maintenance point for inspection and maintenance.

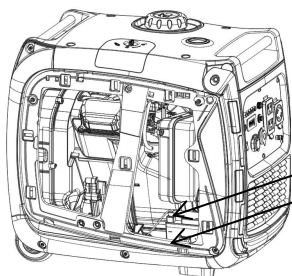
3. If it is not used for a long time, please fully charge the battery before disconnecting the negative pole of the battery connection, and store the unit in a dry and cool place. The battery self-discharge is affected by the ambient temperature and humidity. High temperature and high humidity will accelerate the battery. of self-discharge. And the battery should be charged and recharged every month to keep the battery power above 60%, so as to avoid the irreversible capacity loss caused by the low capacity of the battery due to self-discharge.

4. If it is found that the battery of the unit cannot be charged or cannot be started, please check whether the battery is exhausted or damaged. Damaged or low capacity, please replace the battery. The generator can still be started in the following ways when the battery is depleted or damaged:

1) Connect an external DC12V power supply to start

As shown in the figure below, first remove the two bolts of the left cover with tools, then remove the left cover.

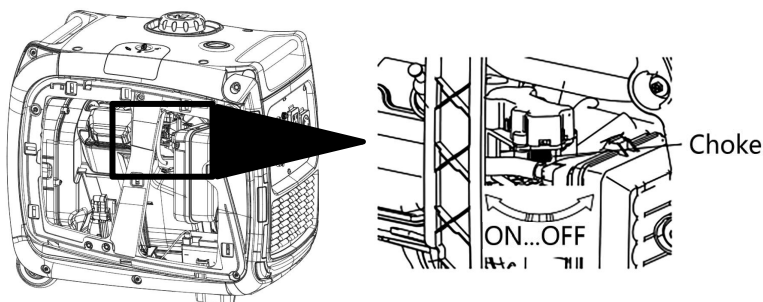
Connect the DC12V battery or DC12V power supply to the battery terminal in parallel, this way is to provide power for the system to make the generator set control system work and cooperate with the operator to start the generator. Note that if the battery or power supply specification is not smaller than the DC12V battery that comes with the unit, it can be started by recoil, electric or remote control. If the low-power DC12V power supply is used, it can only be started by recoil, to avoid damage to the electrical system or the DC12V power supply, because the current that can be supplied by a low-power DC12V power supply is not sufficient to start the generator.



Connect a DC12V battery or a power supply in parallel to the battery terminals

2) Turn the choke valve and use recoil start

Remove the left cover, turn the choke valve to OFF position, when the engine is hot and can not be started normally, turn it to "ON" position. Then, by pulling the recoil start handle, the generator can be started. If it still can't be started normally, try to move the choke valve to the middle position and try to use recoil start. The operating position is shown in the figure below.



8. Stop The Generator

- 8.1 Disconnect all electrical equipment.
- 8.2 Turn the ECO energy-saving switch to "OFF".
- 8.3 Turn off the AC circuit breaker protector.
- 8.4 Turn the start switch the "OFF" position.
- 8.5 Turn the tank cap ventilation switch to the "OFF" position.



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

When temporarily out of use, the remote control, one-touch start/stop generator set can be turned off through the remote control, the APP or the one-touch start/stop button. However, at this time, the remote control module is still supplying power. To avoid battery power consumption causing the generator set to fail to start normally next time or damage the battery, if it is not used for a long time, please turn the three-in-one switch to the "OFF" position to cut off the power.

9. Maintenance

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.

Maintenance Period Item		Every time	First time in 1 month or 20 hours after use	Every three months or every 50 hours	Every Year or 300 hours after use
Engine Oil	Check-Add	√			
	Replace		√	√	
Reducer Gear Oil (if equipped)	Check Oil Level	√			
	Replace		√	√	
Air Filter Elements	Check	√			
	Clean		√		
	Replace			√	
Sedimentation Cup (if equipped)	Clean				√
Spark Plug	Clean-Adjust				√
Spark Arrester	Clean		√	√	
Idling(if equipped)**	Check-Adjust				√
Valve Lash**	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 $\geq$ 225cc, every 250 hours.
*These items should be replaced if necessary. **These items shall be maintained by the authorized dealer of our company unless the User has the appropriate tools and maintenance capabilities.		

- If it often works at high temperatures or under high loads, the engine oil should be changed every 10 hours.
- If it often works in a dusty or harsh environment, the air filter element should be cleaned every 10 hours. If necessary, the air filter element should be replaced every 25 hours.
- The inspection cycle and time should be maintained on a first-come, first-served basis.
- If the maintenance period expired, the maintenance should be carried out according to the form above as soon as possible.



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.

9.1 Change Oil

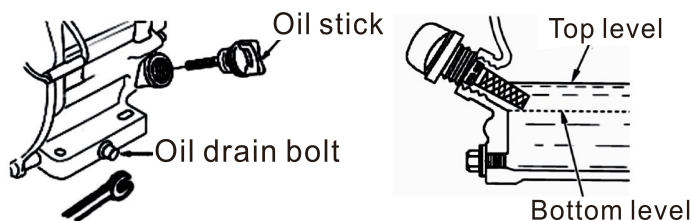
Letting the gasoline engine start before draining the engine oil can ensure that the oil is drained quickly and cleanly.

9.1.1 Remove the oil dipstick. Unscrew the oil drain bolt and drain oil.

9.1.2 Install the oil drain bolt and tighten it.

9.1.3 Add oil and check the oil level.

9.1.4 Install the oil dipstick.



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.

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. Remember: do not throw it into a garbage or drop it on the ground or in a ditch.

9.2 Maintain the Air Filter

A dirty air filter will affect the flow of air into the carburetor. To prevent carburetor malfunctions, please maintain the air filter regularly. If used in dusty environment, it should be maintained more frequently.



Cleaning the filter element with gasoline or flammable solvents may cause fire or explosion. Please use soapy water or non flammable solvent

to clean the filter element.

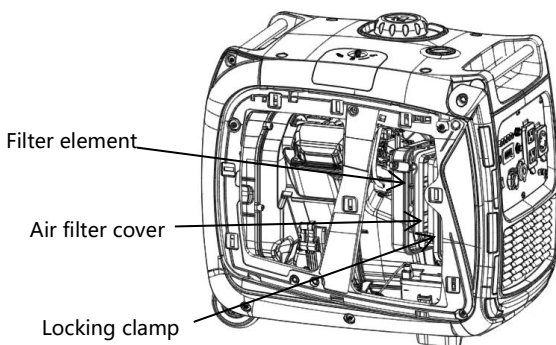


It is strictly forbidden to start the generator without installing an air filter, otherwise it will cause rapid wear and tear of the engine.

9.2.1 Open the connecting button of the air filter cover and remove the air filter cover. Check the air filter element to ensure it is intact and clean.

9.2.2 If the foam filter element gets dirty, please clean it. It can be washed in hot water with household detergent, or in non-flammable or high flash point solvents. Then rinse it with clean water and squeeze, and drop a few drops of engine oil and squeeze evenly.

9.2.3 Install the filter element and cover the air filter.



9.3 Spark Plug

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

9.3.1 Remove the cover of the spark plug.

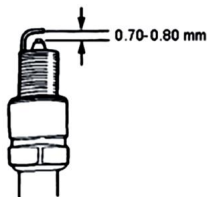
9.3.2 Remove the spark plug with the socket wrench.

9.3.3 Inspect whether the spark plug insulator is damaged or not. Replace the spark plug if it is damaged.

9.3.4 Measure the spark plug clearance with a thickness gauge, and bend the side electrodes to adjust the clearance. The clearance should be guaranteed within 0.70-0.80mm.

9.3.5 Inspect whether the spark plug gasket is in good condition.

9.3.6 Install the spark plug, and tighten it with the socket wrench, press the spark plug gasket and cover the spark plug cap tightly.



Please use the spark plug with proper calorific value.

10. Storage



In order to avoid burning or fire 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.

10.1 Drain the the fuel tank completely. Clean the fuel filter screen, O-ring seal and sedimentation cup before reinstalling them. Unscrew the carburetor's drain bolt, drain all the fuel from the carburetor, then reinstall it and tighten the carburetor's drain bolt.



Under normal circumstances, gasoline is flammable and explosive. Please drain the fuel in a well-ventilated area after the machine stops. Smoking and open flames are strictly prohibited during the process of draining fuel.

10.2 Unscrew the oil dipstick, unscrew the oil drain bolt on the crankcase, and drain the oil from the crankcase completely. Then tighten the oil drain bolt and fill with new oil to the upper limit, and install the oil dipstick properly.

10.3 Remove the spark plug and add a tablespoon of clean engine oil into the combustion chamber. Rotate the crankshaft several times to distribute the oil throughout. Install the spark plug again.

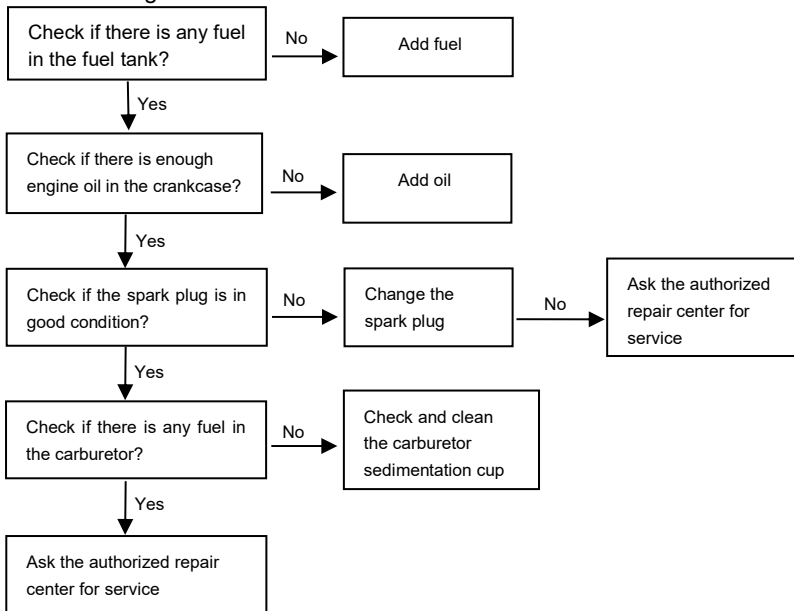
10.4 Gently pull the start handle until you feel resistance to keep both the intake and exhaust valves closed.

10.5 After fully charging the battery, disconnect the negative terminal of the battery wiring, and store the generator in a dry and cool place. The self discharge of the battery is affected by environmental temperature and humidity, high temperature and humidity environments will accelerate the self discharge of the battery. And the battery should be charged monthly to keep the battery power above 60% to avoid the irreversible capacity loss caused by the low capacity of the battery due to self-discharge.

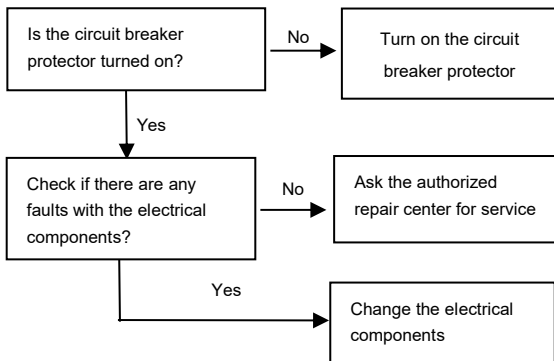
10.6 Place the generator set in a clean, cool, and dry area.

11. Trouble Shooting

When the engine cannot start:



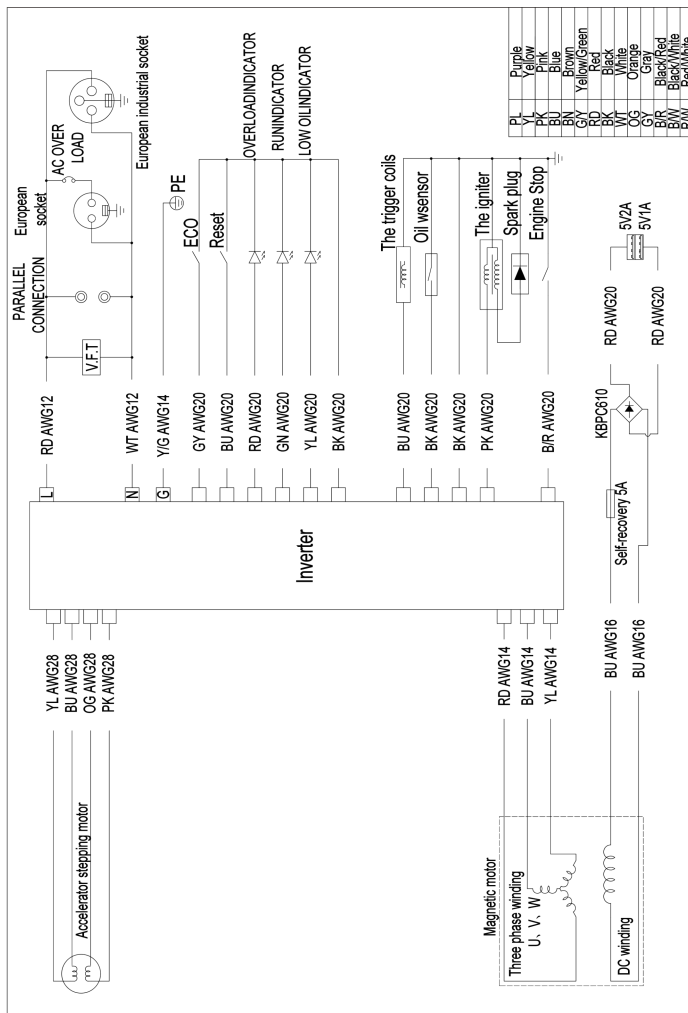
When it shows no voltage:



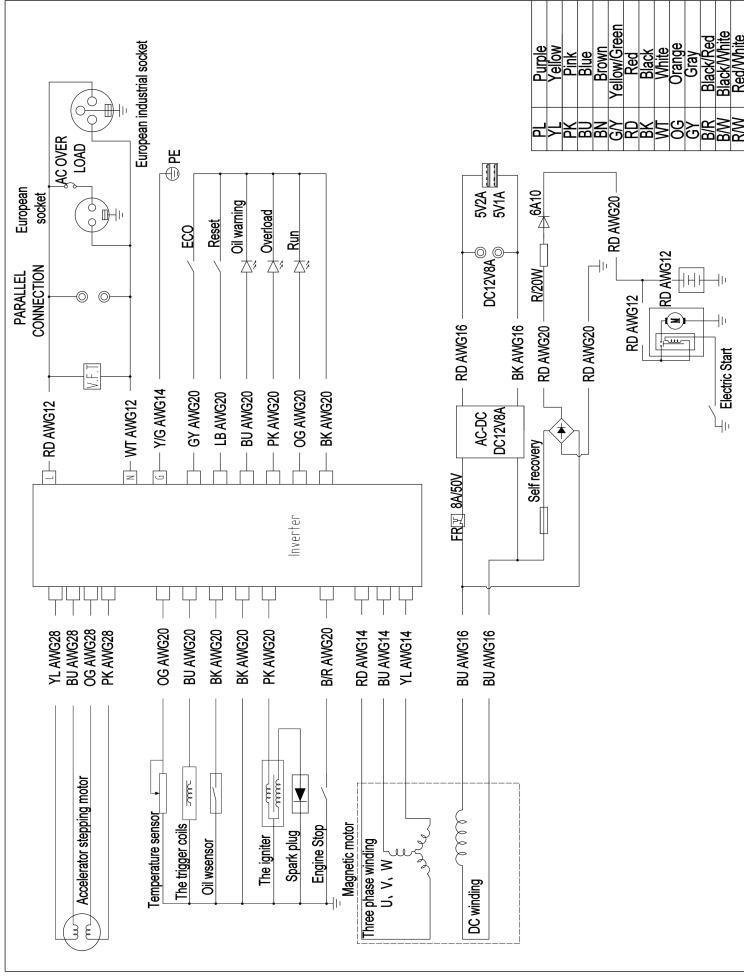
12. Circuit Diagram

(According to different configurations, the factory will make corresponding adjustments. Subject to change without prior notice)

Reciol Start



Electric Start



13. Parameter

Gasoline engine	Items	RAD6000iE
	Engine type	Single cylinder, four-stroke, air-cooled
	Displacement(cc)	223
	Ignition system	Integrated digital ignition
	Start mode	Recoil start/E-start
	Oil capacity(L)	0.65
Generator set	Tank capacity (L)	13
	Fuel type	Unleaded gasoline
	Frequency (Hz)	60
	Phase	Single phase
	Voltage (V)	120/240
	Rated power(kW)	5.0
	Max. power (kW)	5.5
	DC output	12V/8.3A
	Length(mm)	605
	Width(mm)	430
	Height(mm)	560

EMISSION CONTROL SYSTEM WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The U. S. EPA and Chongqing Meizehui Technology Co., Ltd. are pleased to explain the emissions control system warranty on your model year 2025 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 Meizehui 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 Meizehui Technology Co., Ltd. will repair your equipment at no cost to your including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

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 Meizehui 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 Meizehui Technology Co., Ltd. recommends that you retain all your receipts covering maintenances on your equipment, but Chongqing Meizehui 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 Meizehui 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 Meizehui 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:

Company: Chongqing Meizehui Technology Co., Ltd.

Contact Person: Mr.Li

Tel.: 8888966881

Mail: aftersales-001@outlook.com

Add.: No. 13-5, No. 49, Xiejiawan Main St., Xiejiawan St., Jiulongpo Dist., Chongqing

DEFECTS WARRANTY REQUIREMENTS

Chongqing Meizehui 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 Meizehui 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 Meizehui 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 Meizehui 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 Meizehui 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 Meizehui 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 Meizehui 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 Meizhui 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.