

11. Specification

Size and weight

L x W x H	680×510×640mm
Net weight	85kg

Engine

TYPE	188F
Engine specification	4-stroke,overhead valve, single cylinder
Displacement	406CC
Compression ration	8.1
engine speed	3600rpm
cooling system	wind
Ignition system	TEI
Oil capacity	1.1L
Fuel tank capacity	15.5L
Spark plug	NGK F7RTC
Sound class	65db

Generator

TYPE	DG-6500	
AC output	rated voltage(V)	110/120/220/230/240
	Rated frequency(HZ)	50/60
	Rated current(A)	37.5/18.8
	Rated output(KW)	5.8
	Maximum output(KW)	6.4
	12V/8.3A	For 12V batteries only

DG-6500

USER MANUAL



OPERATING INSTRUCTIONS

PLEASE READ THIS MANUAL CAREFULLY

BEFORE USING MACHINE

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1. safety information:

⚠ warning!



- XG generators are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual carefully before operating your generator or it may cause seriously hurt or equipment damage.

⚠ warning!



- Exhaust contains poisonous carbon monoxide, a colorless and odorless gas; DO NOT operate generators in confined area! BE SURE operating generators at ventilated environment or with aerator!

⚠ warning!



- The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before storing the generator indoors.

⚠ Be careful!



- DO NOT parallel connect another cables to receptacles, please use special jack, or it may cause an electrical shock!

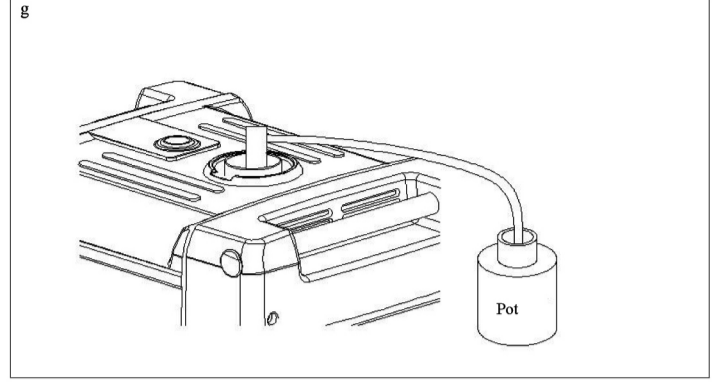
Insure safe operation items

⚠ warning!

- Gasoline is extremely flammable and is explosive under certain Conditions. Stop engine before adding fuel. Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.

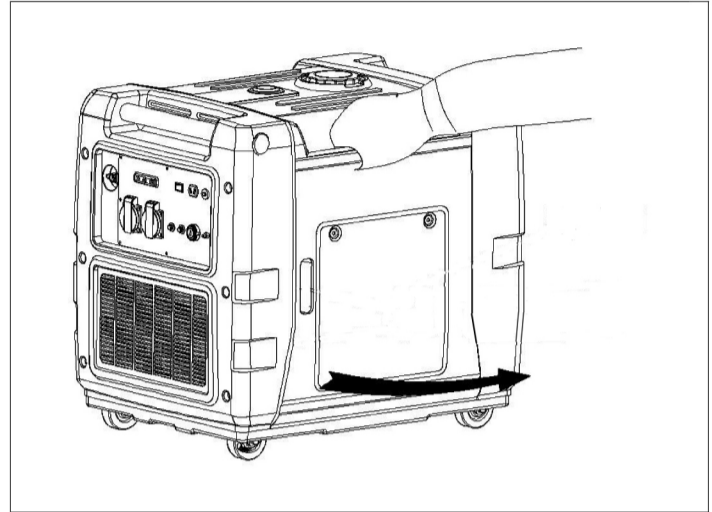
⚠ warning!

- Connections for standby power to a building electrical system must be made by a qualified electrician. The connection must isolate the generator power from utility power, and must comply with all applicable laws and electrical codes. Improper connections to a building electrical system can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored.



3.change engine oil

4.Remove spark plug and fill cylinder with a spoon of fresh oil, and start engine for a few times to disperse oil, then reassemble spark plug.



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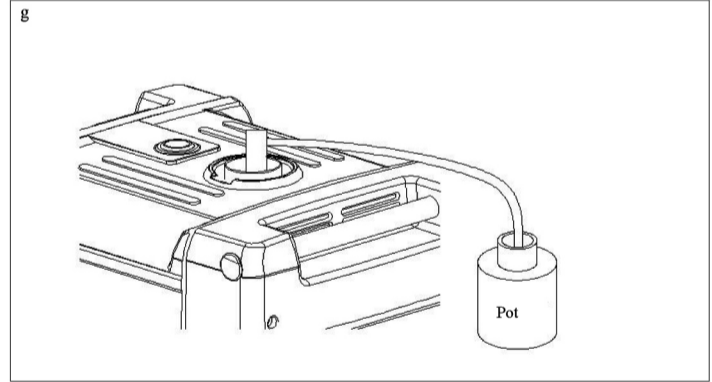
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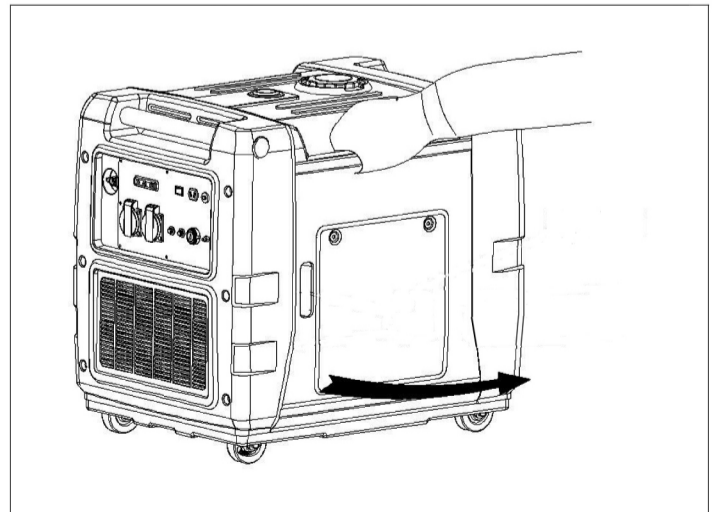
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- ◆ **Make sure to connect the correct the pole when fix the battery (red color is positive pole, connect the red side,**
- ◆ **(The black color is negative pole, connect the black side.) Or the generator will not start, and the battery will lose the power soon, the life will be reduced.**

9. Transportation and storage

To avoid gas leakage during transportation and storage, please close gas switch and vent lever switch, and put generator at where higher than normal operation position.

⚠ warning!

- When transport generator:
- Do not add too much gas in the tank. (There should be no gas at the top)
 - DO not operate generators on the truck or other vehicles, get them down and operate them at ventilated condition.
 - When transport generators, we'd better avoid keeping it in the sun; if we keep generators in a hermetic carriage, high temperature may force gas volatilize and cause an explosion.
 - DO not transport generators on rough road for a long time, if you have to do so, please discharge all gas in the tank.

Before long time storage of generators

1. Ensure that the depository is dry and clean.
2. Discharge all gas in the tank.

⚠ warning!

- Gas may become extremely incentive and explosive at some condition. Where have gas must be where haven't beacon.

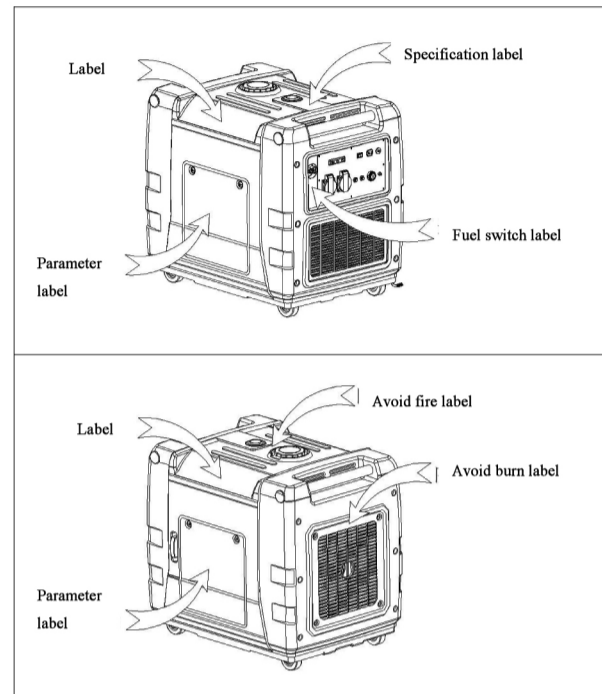
- a. Divert gas from gas tank to a spare tank. Open gas switch, loose bolts in carburetor and divert gas to a spare tank; loose gas discharging bolts, remove spark plug and pull start coil 3-4 times to discharge the rest gas in the gas pump.
- b. Close oil switch and fasten gas-discharging bolts, and reassemble spark plug.

⚠ warning!

- To avoid accident and equipment damage, check generation system every time before start engine.
- Generators must keep a distance at least 1 meter from other equipments and keep away from buildings when it runs.
- Generators must keep horizontal when it runs. And if generators incline, it may cause fuel overflow.
- Generator operators must be trained, he who must know how to quickly stop generators and understand the operation of all controllable parts. No-trained operators are never allowed to operate generators.
- Children and pets must keep way from operation area.
- Operators must keep away from rotating parts when engine runs.
- The generator is a potential source of electrical shock if misused. Do not operate it with wet hands.
- Do not expose the generator to moisture, rain or snow.

2. safety label locations

These labels warn you of potential hazards that can cause serious injury. Read them carefully.



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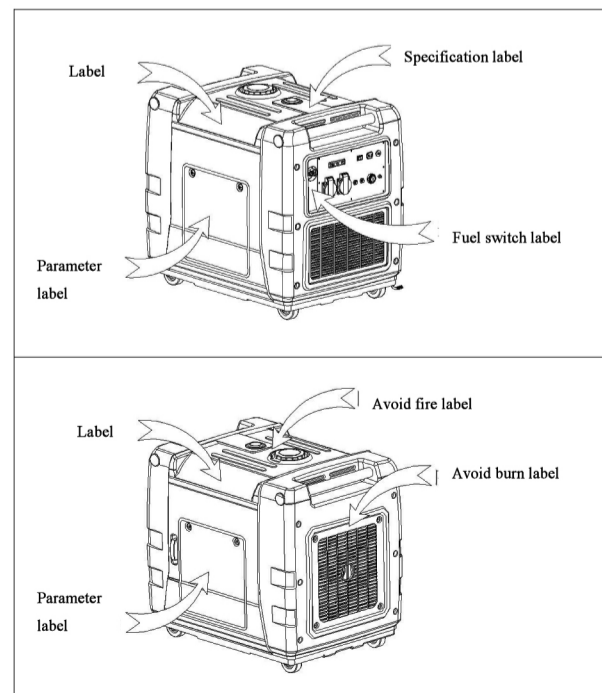
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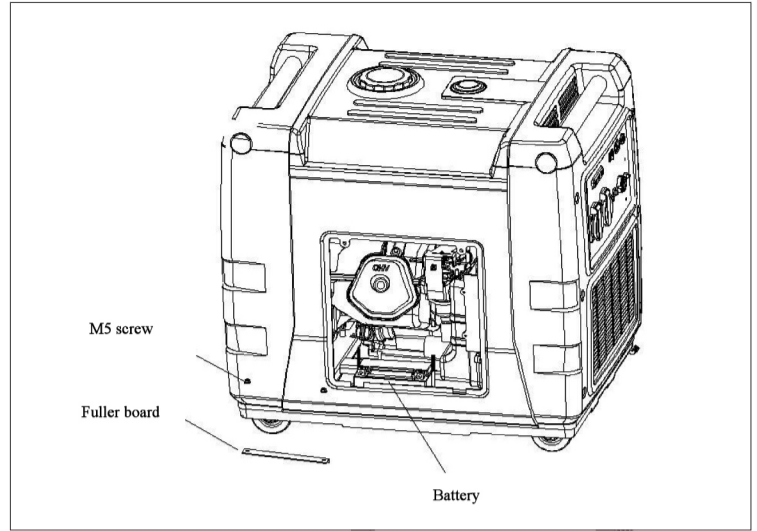
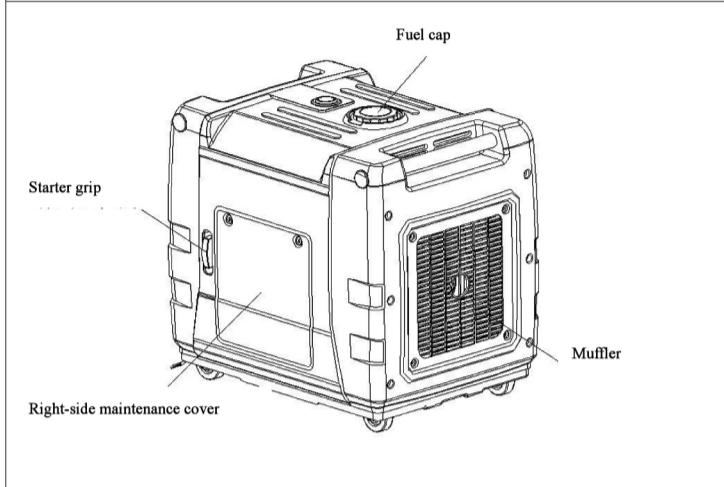
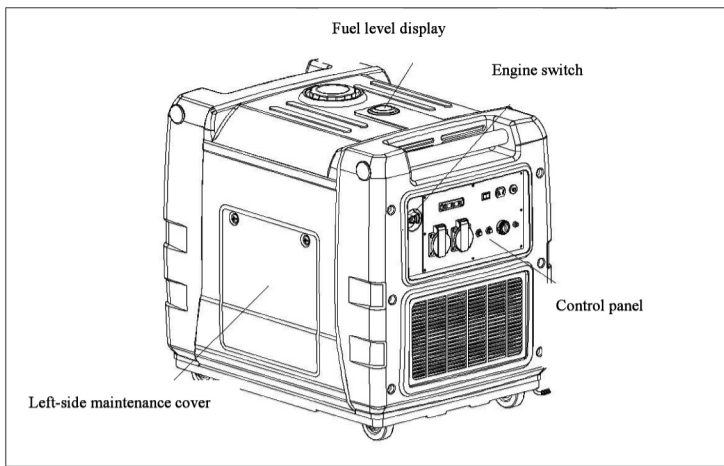
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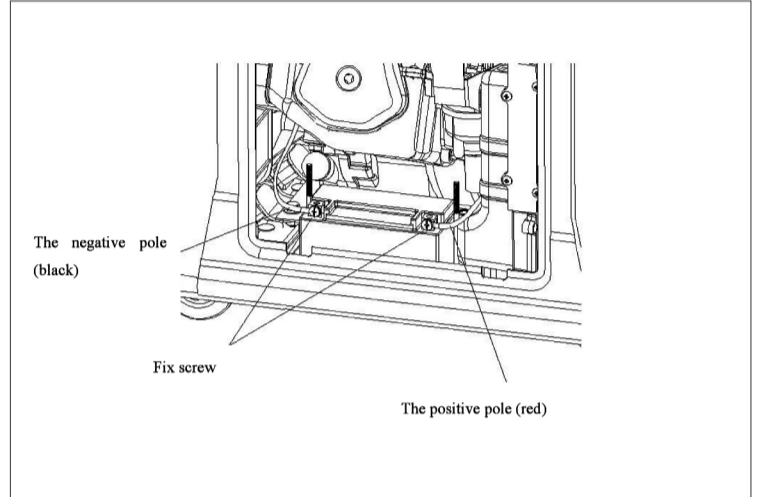
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3. component identification

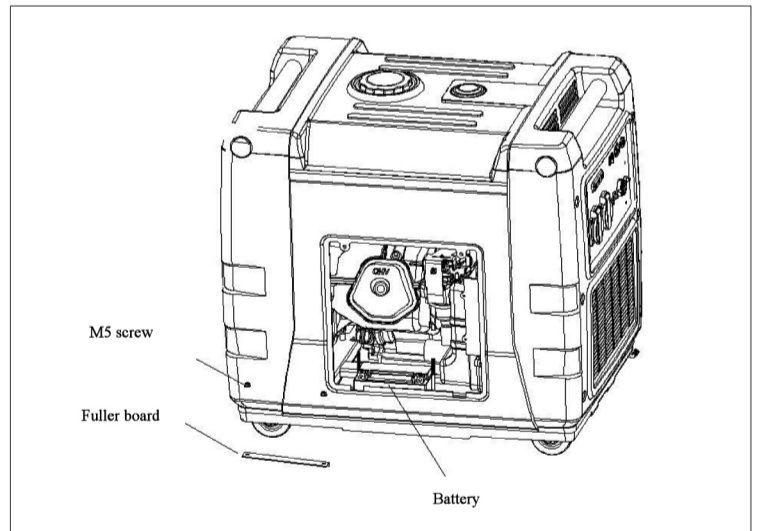
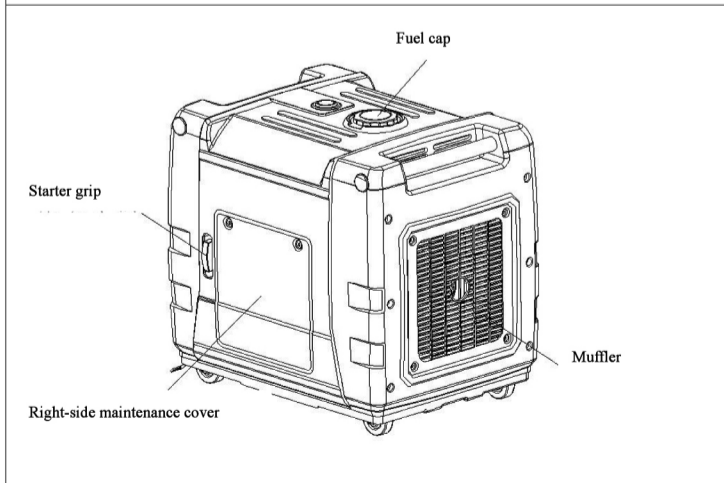
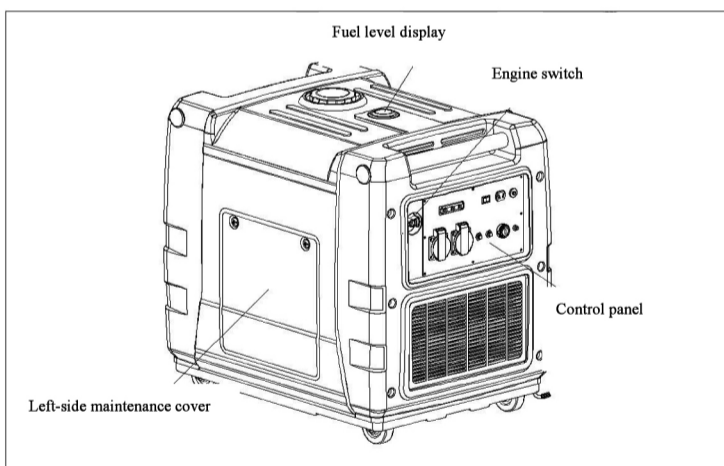


3. Remove the wire's fix screw, connect the electrical wire. Red color wire is positive pole, connect the red side, the black wire is negative pole, connect the red black side. And then lock it with fix screw.

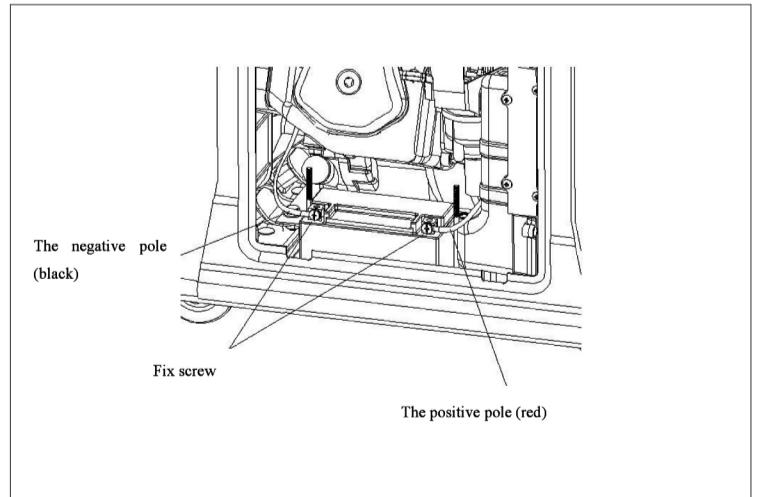


4. Re-fix the access maintenance panel.
5. If you want to replace or maintenance the battery, operate it by this way as above.

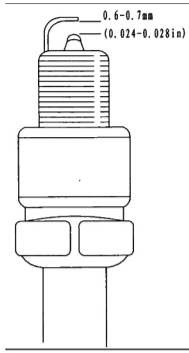
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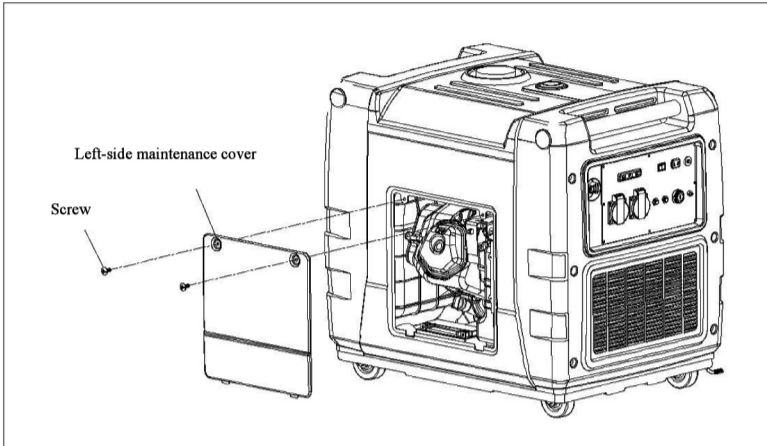
4. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped.
5. Please use plug gauge to check spark plug gap, it should be 0.6-0.7mm (0.024-0.028inch)
6. Check that the spark plug sealing washer is in good condition, and threads the spark plug in by hand to prevent cross-threading.
7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer. If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 1/4 turn after the spark plug seats to compress the washer.
8. Reinstall the spark plug cap on the spark plug securely.
9. Reinstall the spark plug maintenance cover.

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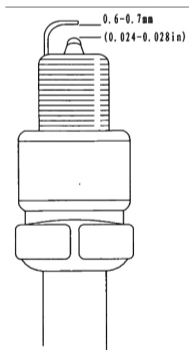
- Spark plug must be assembled firmly, or it will become hot and may damage generator.
- A loose spark plug can overheat and damage the engine.

4. The battery's fix and overhauling (only for electric starter model)

1. Remove the screw of left-side maintenance cover and remove the maintenance cover.



2. Put the battery into the slot, and press down the fuller board, lock it with screw.



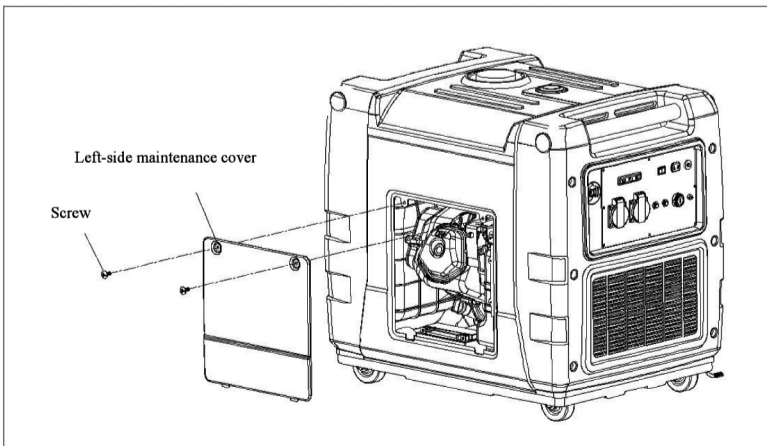
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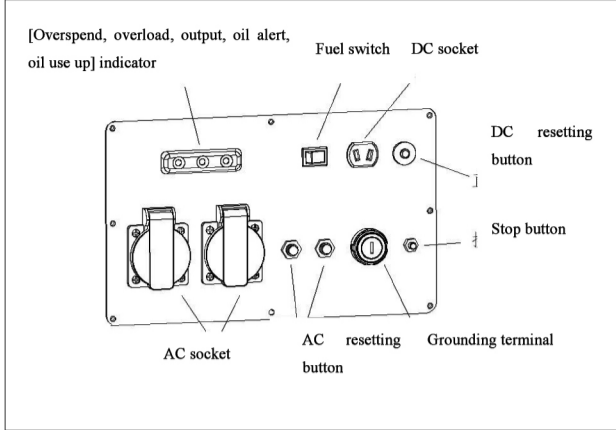
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SMART ECOTHROTTLTETM SWITCH

when loads are cut off from generators, generators go to gas-saving mode; when it loads, it will turn to correct speed automatically in order to supply enough power, that device is used to minimize consumption and reduce noise levels when no load is applied to the generator.

⚠ caution

- When electric equipments need instant power, smart gas-saving system won't runs sufficiently.
- If high electrical loads are connected simultaneously, turn the EcoThrottle TM switch to the OFF position to reduce voltage changes.
- When generators are working at constant rated power output mode, turn off ECOTHROTTLTETM SWITCH

4. Pre-operation check

⚠ caution

- Check if the generator is horizontal, engine switch is open or not.

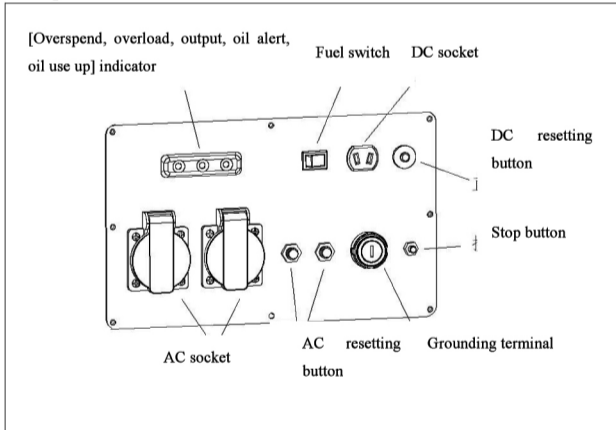
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- Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2stroke engine oils will damage the engine and are not recommended.

Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SJ. Always check the APISERVICE

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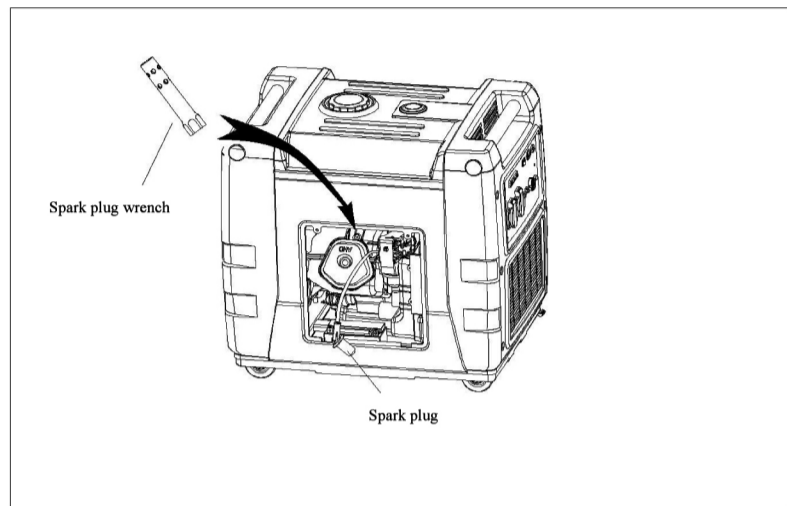
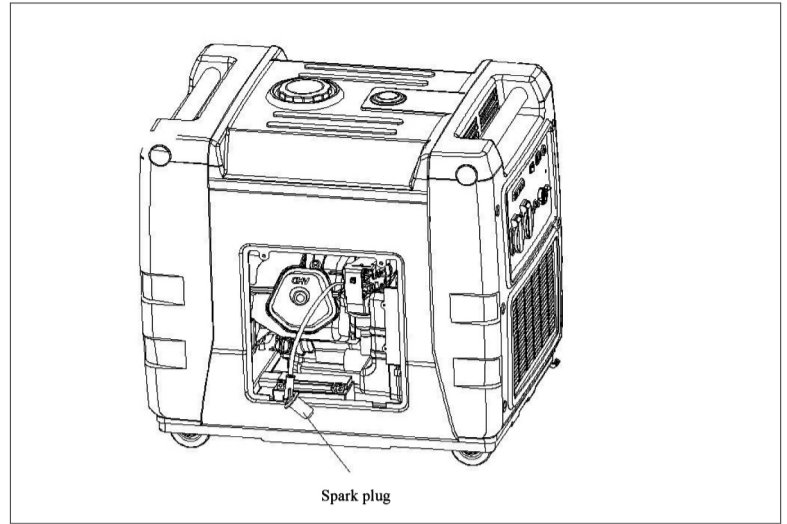
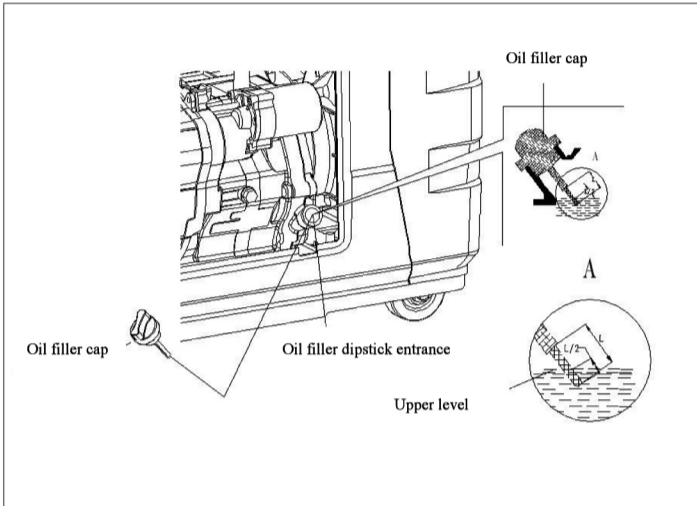
Remove the screw of right-side maintenance cover, take it off.
Remove the oil filler cap, wipe the dipstick with a clean rag, and check the oil level by inserting the dipstick in the filler hole without screwing it in.
If the oil level is below the end of the dipstick, refill the recommended oil up to the top of the oil filler neck.

▲ Be careful

Operate generators with not enough oil may destroy engine.

Note:

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the oil alert indicator light comes on and the Oil Alert system will automatically stop the engine (the engine switch will remain in the ON position). If the engine stops or the Oil Alert indicator light comes on when you pull the starter grip, check the engine oil level before troubleshooting in other areas.



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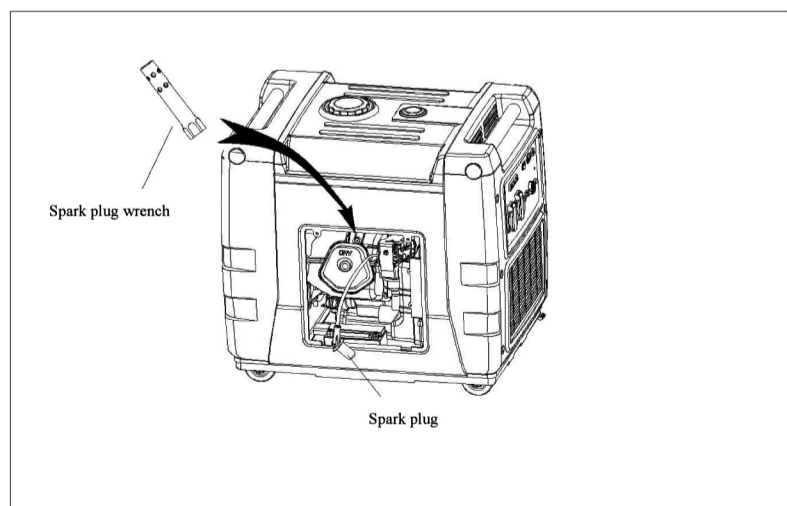
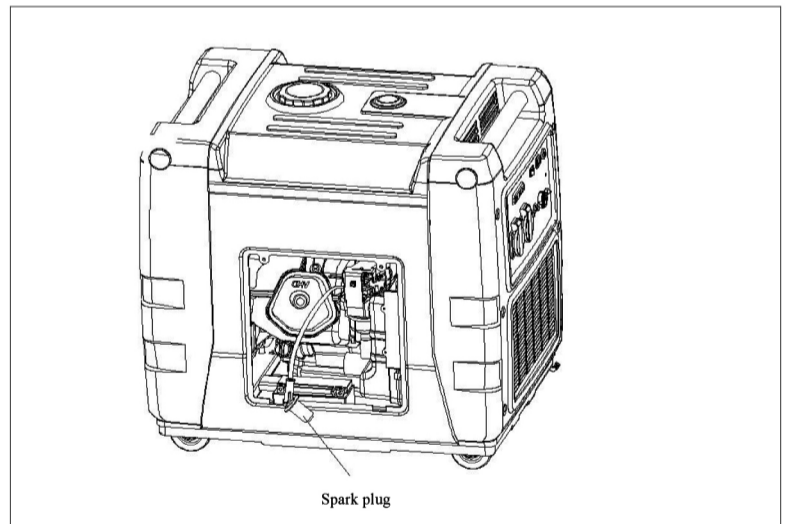
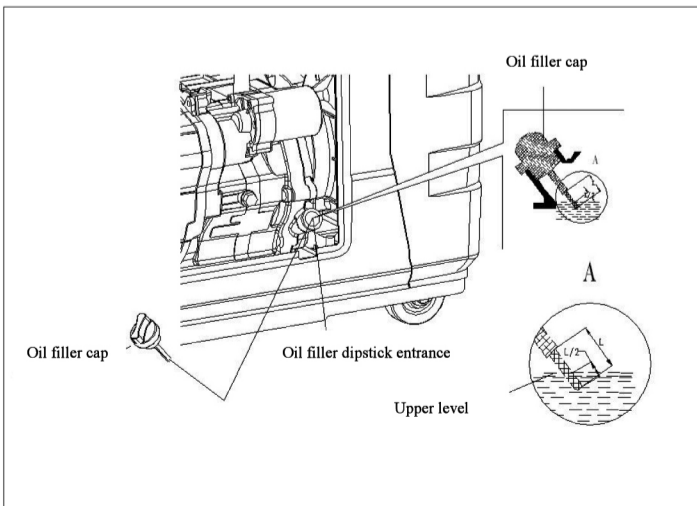
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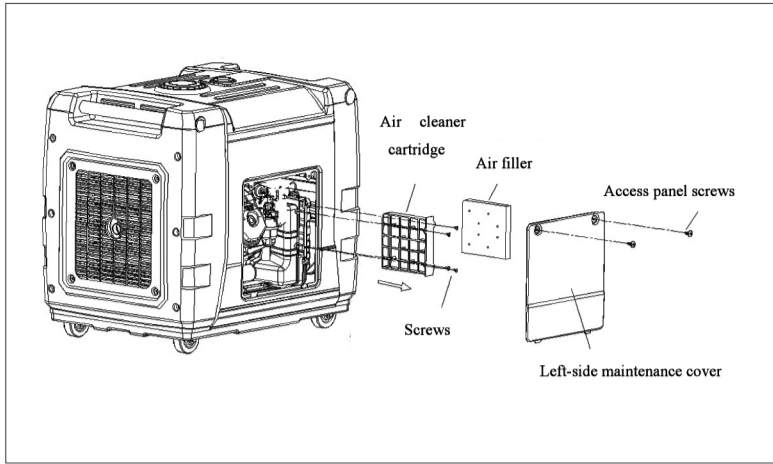
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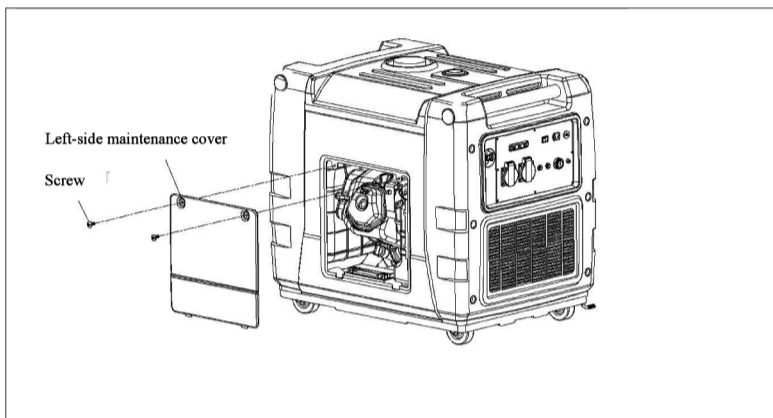




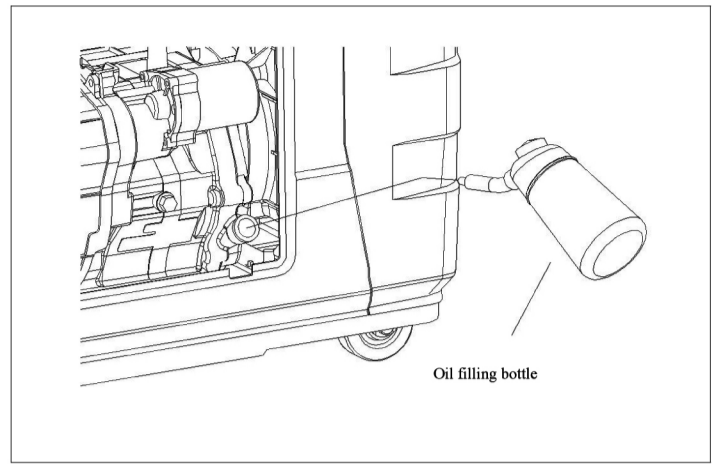
3. Spark plug servicing

Please use high quality authentic spark plug. To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Remove the screws on top o maintenance cover and remove maintenance.
2. Clean any dirt from around the spark plug base
3. Use a spark plug wrench to remove the spark plug.



21



2. Check gas level

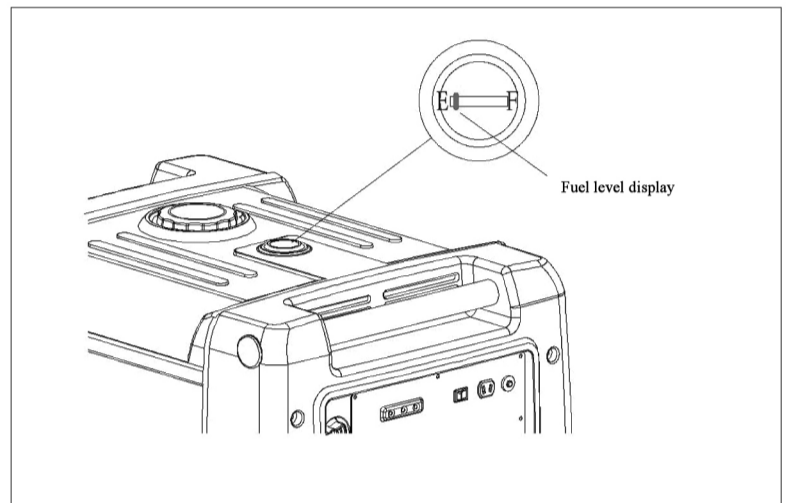
Use automotive fuel (unleaded or low leaded is preferred to minimize combustion chamber deposits)

Check the fuel level display carefully, refill fuel to the standard level when the red pointer point to "E" position.

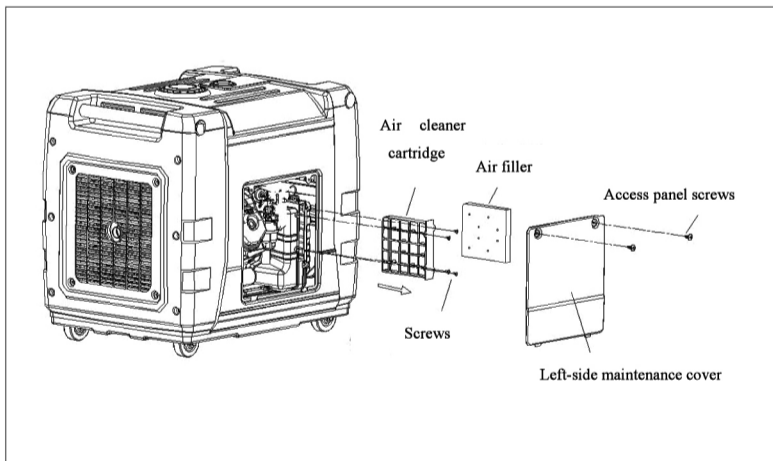
!! Don't use fuel-containing alcohol; fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol are not covered under the warranty.

Avoid getting the dirt, dust or water into the fuel tank.

After refueling, tighten the fuel filler cap securely.



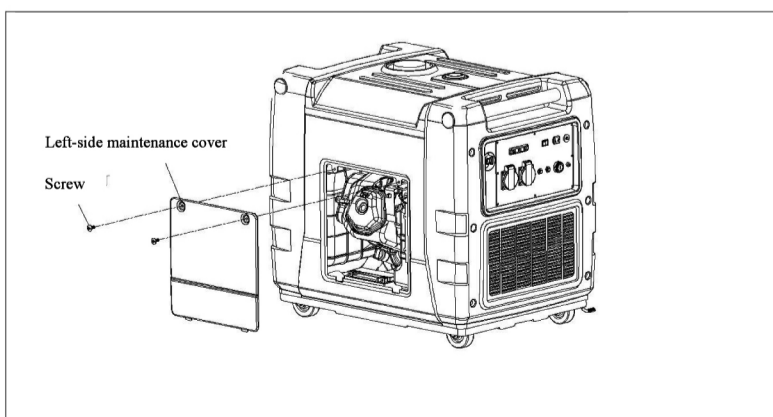
6



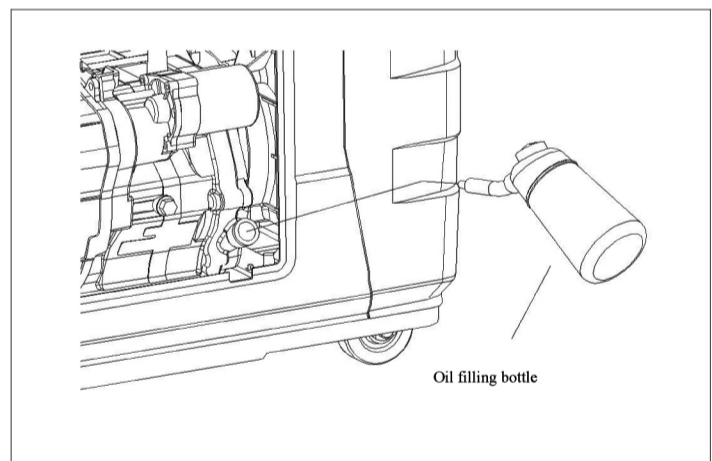
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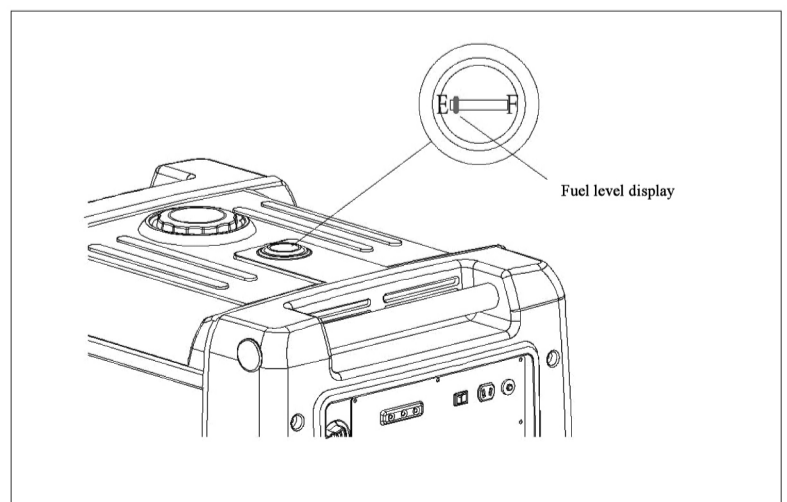
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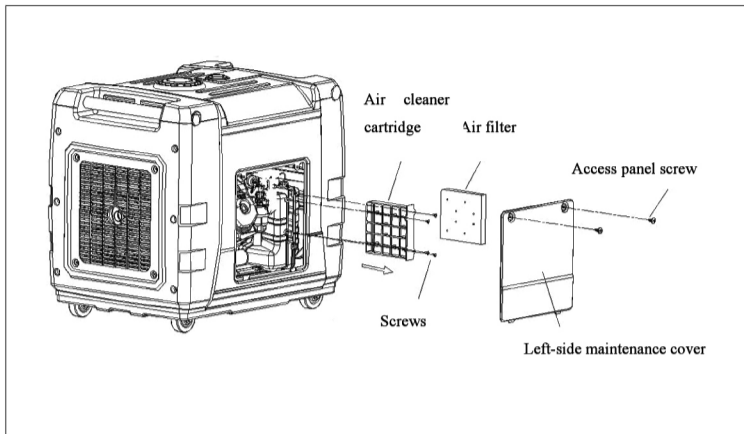
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- Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.
- DO NOT let fuel spill over tank (gas level lower than safety line). Fasten lid after adding fuel.
- Be careful that do not let gas spill when add fuel, spilled fuel or gas brume may catch on fire. If there is some fuel spill, be sure that all fuel has volatilized before start engine.
- Avoid long time, repeat touch gas or inbreathe gas brume.

3. Check the air cleaner.

Check the air cleaner element to be sure it is clean and in good condition.

1. Loosen the cover screw and remove the left side maintenance cover.
2. Press the latch tab on the top of the air cleaner body, remove the air cleaner cover, and check the element.
3. Pull the air clean cartridge outside by following picture.
4. Clean or replace the element if necessary.



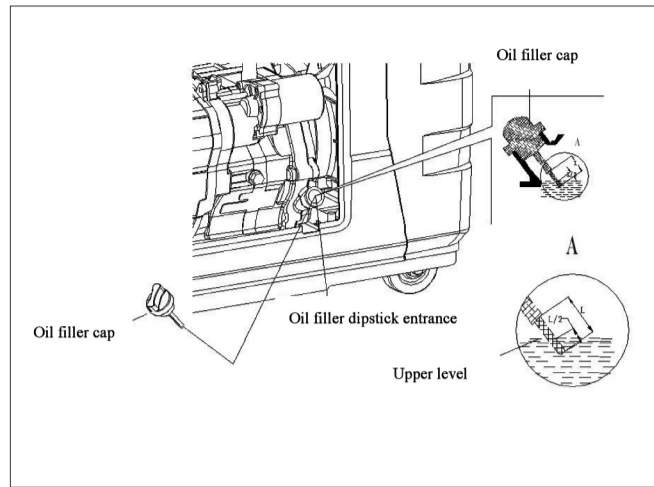
⚠ Be careful

- DO NOT start engine without cleaner core, or dirt will enter engine through carburetor and increase wear and tear.

5. Start the engine

Make sure that all appliances are disconnected from the AC Receptacle.

The way of electric start (only for electric starter model)



Wash your hands with soap and water after handling used oil.

⚠ Be careful

- Improper disposal of engine oil can be harmful to the environment. If you change your own oil, please dispose of it properly. Put it in a sealed container, and take it to a recycling center. Do not discard it in a trash bin, dump it on the ground, or pour it down a drain.

2. Air cleaner servicing

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

⚠ Warning

- Using gasoline or flammable solvent to clean the air filter can cause a fire or explosion. Use only soapy water or nonflammable solvent.

1. Loosen the cover screw and remove the left side maintenance cover.
2. Press the latch tab on the top of the air cleaner body, remove the air cleaner cover, and check the element.
3. Pull the air clean cartridge outside by following picture.
4. Clean or replace the element if necessary.
5. Clean or replace the filter core and fit it on by the contrary.

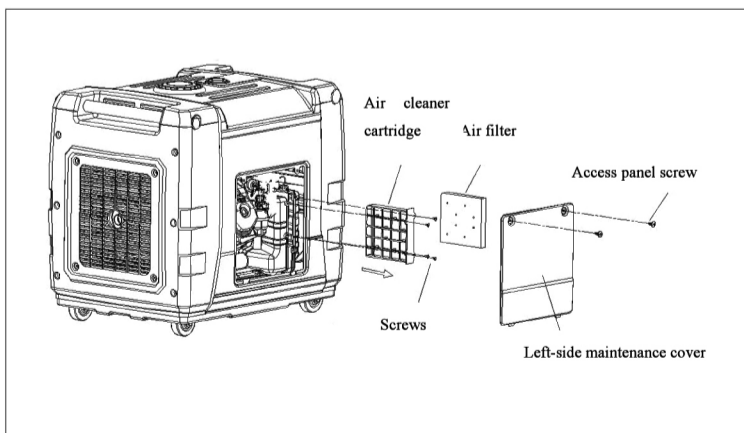
⚠ warning!

- Gasoline is extremely flammable and is explosive under certain Conditions.
- Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.
- DO NOT let fuel spill over tank (gas level lower than safety line). Fasten lid after adding fuel.
- Be careful that do not let gas spill when add fuel, spilled fuel or gas brume may catch on fire. If there is some fuel spill, be sure that all fuel has volatilized before start engine.
- Avoid long time, repeat touch gas or inbreathe gas brume.

3. Check the air cleaner.

Check the air cleaner element to be sure it is clean and in good condition.

1. Loosen the cover screw and remove the left side maintenance cover.
2. Press the latch tab on the top of the air cleaner body, remove the air cleaner cover, and check the element.
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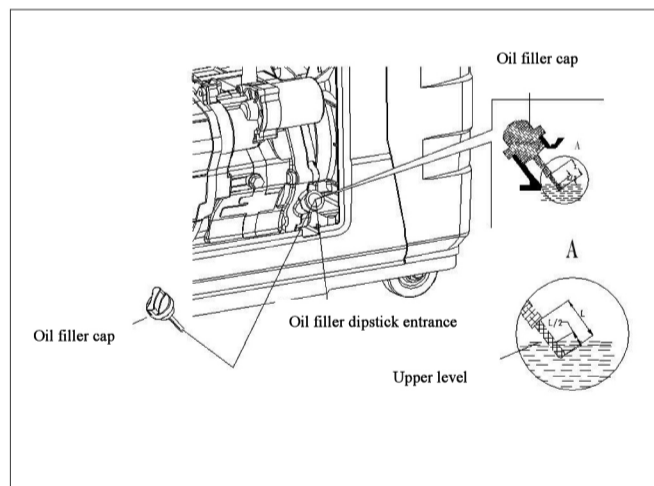
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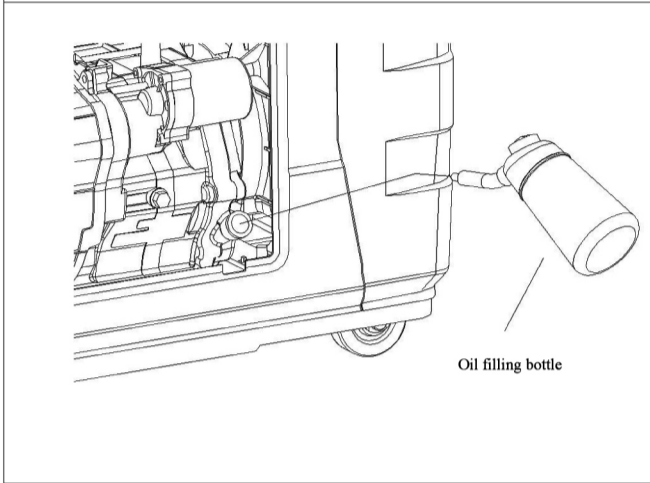
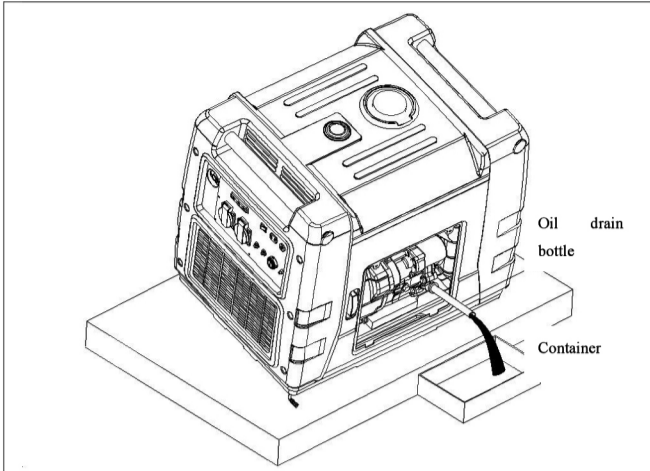
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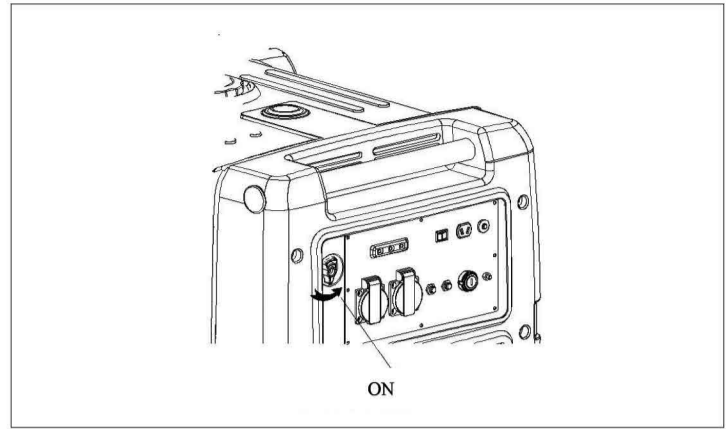
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d. After refill the new oil into the crank case, please shake the generator some times and make sure the bobber of the oil alarm system is floating.

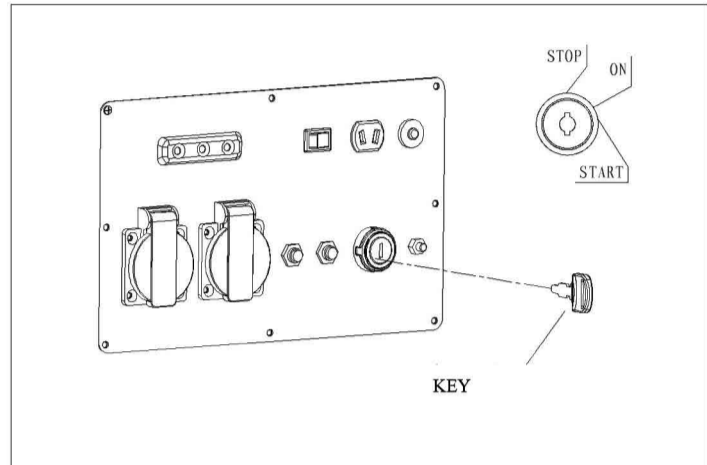
Oil tank capacity: 1L



1. Open gas switch



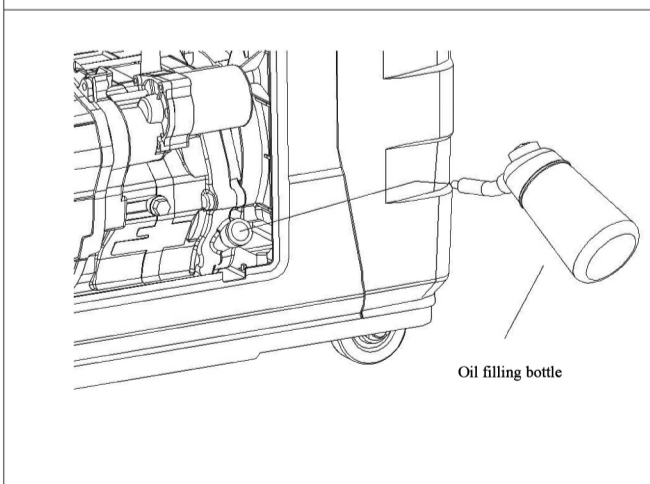
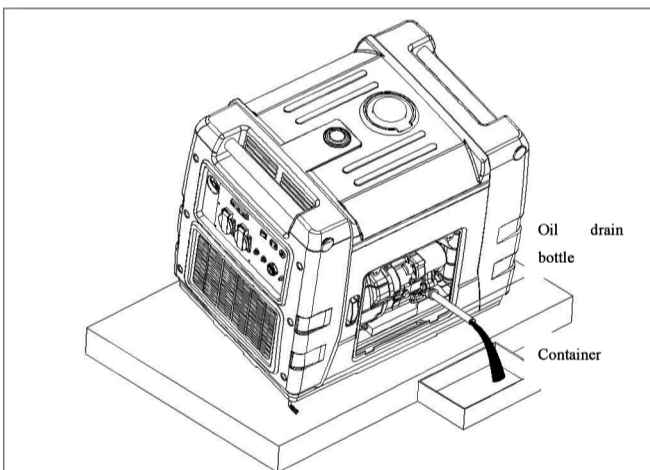
2. Put the key into the switch, turn it to the "NO" position.



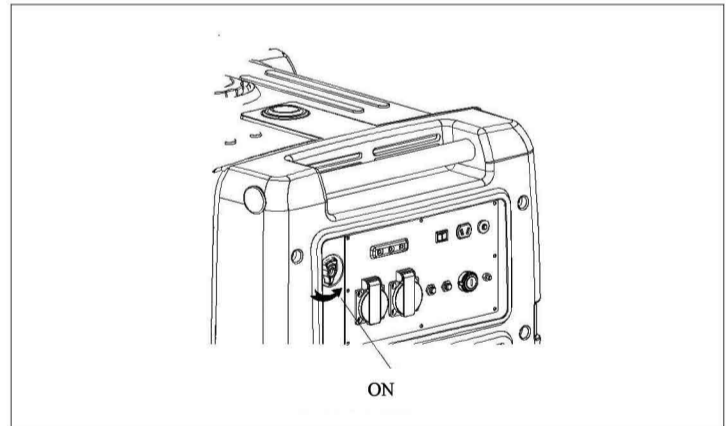
3. Turn the key to START by clockwise, loosen it until the engine running.

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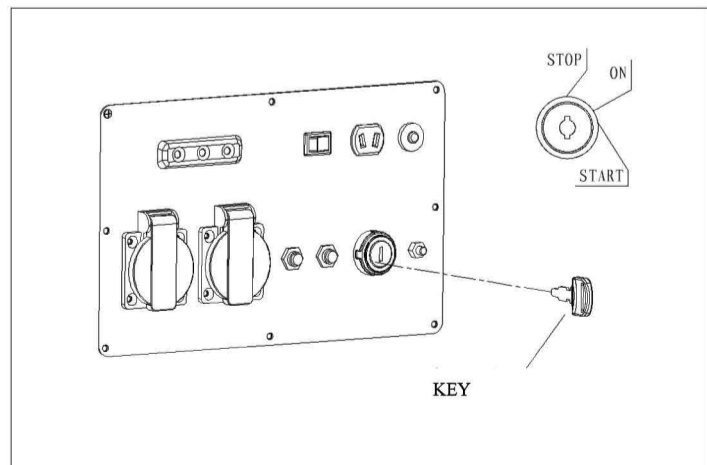
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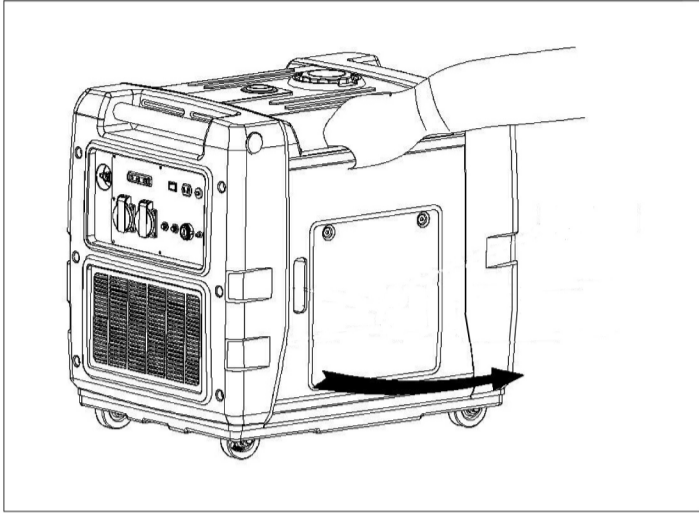


3. Turn the key to START by clockwise, loosen it until the engine running.

The way of recoil start

1. Open the fuel switch.
2. Put the key insert the start switch, and turn it to "ON" position.

⚠ Be careful



⚠ NOTE

- Once engine cannot start after stopped, please check up oil level first.

High altitude area operation

At high altitude, the standard carburetor air/fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. High altitude performance can be improved by specific modifications to the carburetor. If you always operate your generator at altitudes above 5,000 feet (1,500 meters), Please ask XG's agency to do some amendment of carburetors.

⚠ WARNING

- Please stop engine before servicing. If servicing must operate generators, BE SURE operating generators at ventilated environment, Because Exhaust contains poisonous gas -carbon monoxide.

⚠ NOTE

- Please use authentic XG parts or the same high quality parts to replace, or bad quality parts may destroy generators.

maintenance calendar

Regular service period perform at very indicated month or operating hour interval whichever comes first. item		Every time use it	Every month or every 20 hours	Every 3 months or every 50 hours	Every 6 months or every 100 hours	Every year or every 300 hours
engine oil	check	○				
	replace		○		○	
Air cleaner	check	○				
	clean			○		
Spark plug	Clean -adjust				○	
spark arrester	Clean				○	
Valve clearance	Check-adjust					○
gas tank and air cleaner	clean					○
fuel line	Check		Every two years (change it If necessary)			

Note:

- (1) normal maintain work alternation time
- (2) Service more frequently when used in dusty areas.

ENGINE OIL CHANGE

Drain the used oil while the engine is warm. Warm oil drains quickly and completely.

⚠ Be careful

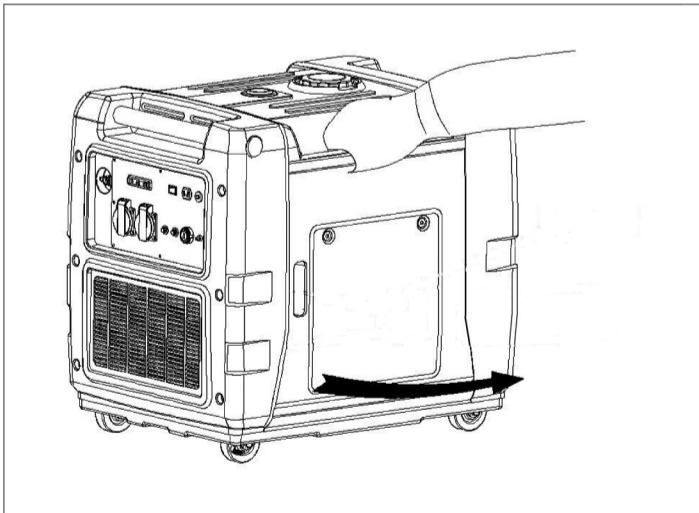
- Turn the engine switch and vent lever to the OFF position to reduce the possibility of fuel leakage.

- Put the oil-filling pipe into the oil filler hole. (In attached bag)
- Tilt the generator, drain dirty oil completely
- Refill with the recommended oil (see 4.1), and check the oil level.

The way of recoil start

1. Open the fuel switch.
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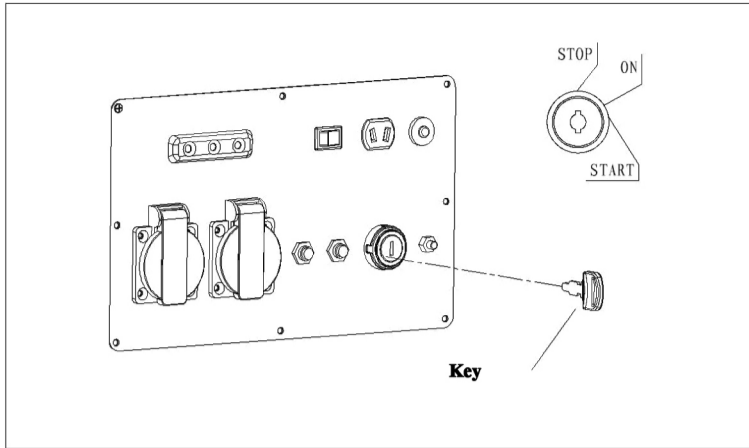
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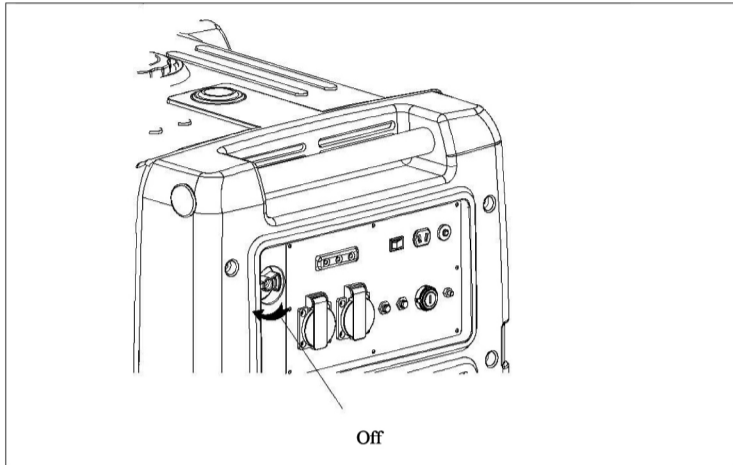
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3. Turn the fuel value knob to "OFF" position.



⚠ BE careful

- Ensure that gas tank cap is closed and engine switch is off when close, transported and store generators.

MAIN TENANCE

Good maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000-foot (300-meter) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

⚠ BE CAREFUL

- When the carburetor has been modified for high altitude operation, with a modified carburetor may cause the engine to overheat and result in serious engine damage.

6. Applications

⚠ Warning!

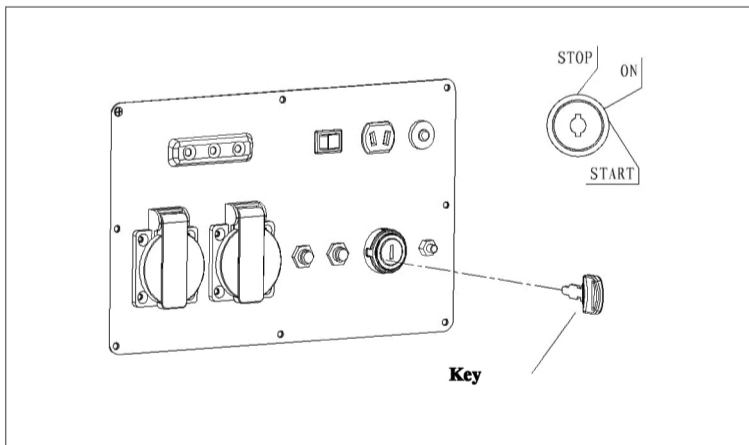
- In order to avoid to get an electric shock because of wrong operation, generator should be used a big cable connected to ground.
- Connections for standby power to a building electrical system must be made by a qualified electrician. The connection must isolate the generator power from utility power, and must comply with all applicable laws and electrical codes. Improper connections to a building electrical system can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored.

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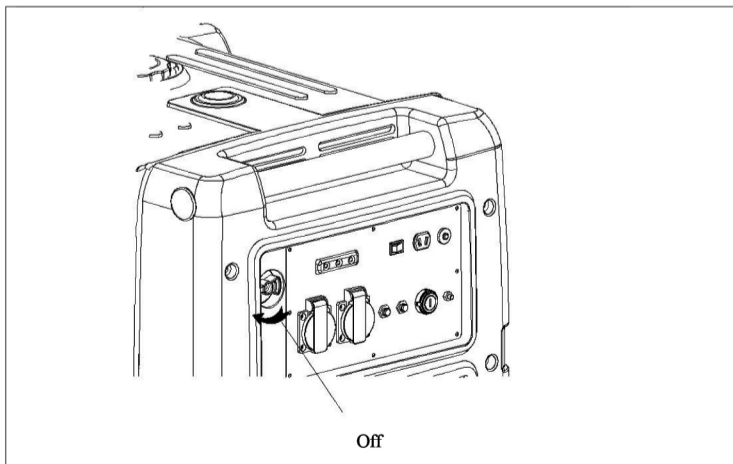
- When generator operates constantly, do not over its rated power. Other situations, please consider total power for the equipments.
- DO NOT over its rated current.
- DO NOT connect generator to family circuit, otherwise, it may destroy generator or home electric equipments.
- DO NOT use generator for its unreachable purpose and please obey the following rule:
- DO NOT parallel connect generators.
- DO NOT lengthen vent-pipe.
- Please use SJ or SJO type cables if you need to lengthen wires.
- Lengthened wire length limit: 1.5 mm _ cable 60 meter maximum; 2.5 mm _ 100 meter maximum.
- Generators must keep away from other electric wires or cables, like: distribution center.

⚠ NOTE!

- You can use DC power at the same time that you are using AC power. Please do not exceed the power summation of DC & AC
- Equipment's motors start powers do not exceed its rated power.



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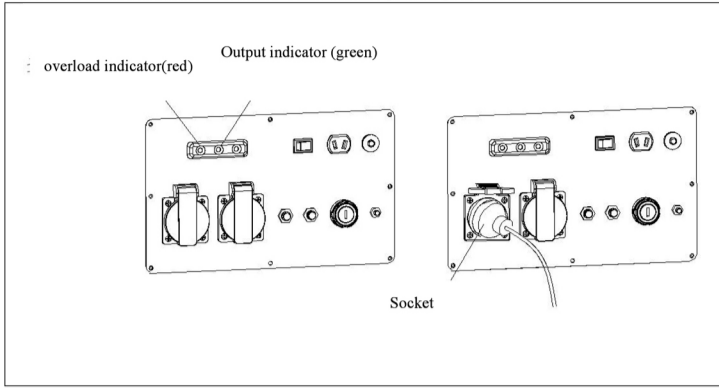
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How to use AC power

1. Start the engines and make sure the output indicator lights (green) come on.
2. Insure that all loads have been cut of, and then put the plug in the socket.



⚠ Be careful

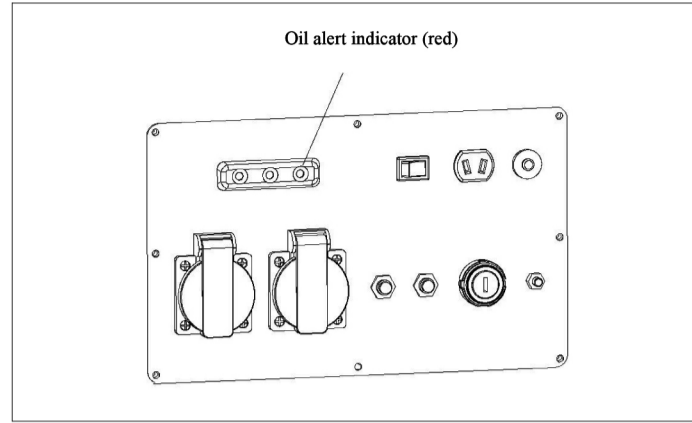
- Substantial overloading that continuously lights the overload indicator light (red) may damage the generator. Marginal overloading that temporarily lights the overload indicator light (red) may shorten the service life of the generator.
- If an appliance begins to operate abnormally, becomes sluggish or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance, or if the rated load capacity of the generator has been exceeded.

Output and overload indicator

At normal condition, output indicator (green light) will keep on. If the generator is overloaded (in excess of 0.85kVA), or if there is a short circuit in a connected appliance, the overload indicator light (red) will go ON. The overload indicator light (red) will stay ON, and after about four seconds, current to the connected appliance(s) will shut off, and the output indicator light (green) will go OFF.

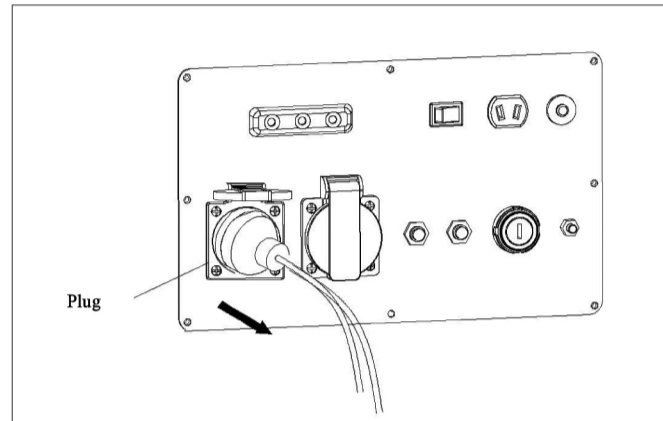
If read indicator turns on, please stop engine and find out the reason for overload.

- Check up equipments that if they are work well and if its rated power exceeds generators', then put the plug in the socket, and start engine.
- Be sure all equipments are turned off before use.



7. stop engine
To stop the engine in an emergency, simply turn the engine switch to the OFF position.

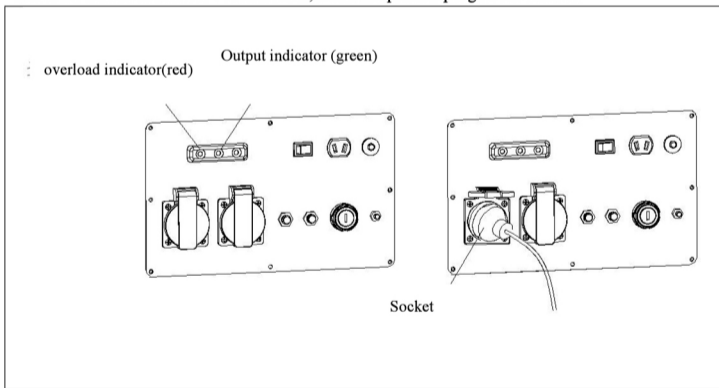
- Normal usage
1. Unplug appliances from the generator receptacles



2. Turn the start switch to "OFF" position, (As for the electric starter model, turn the key to " OFF" position, pull it out.)

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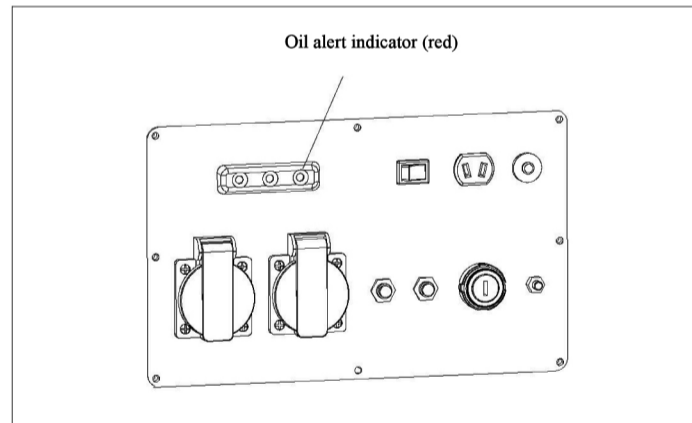
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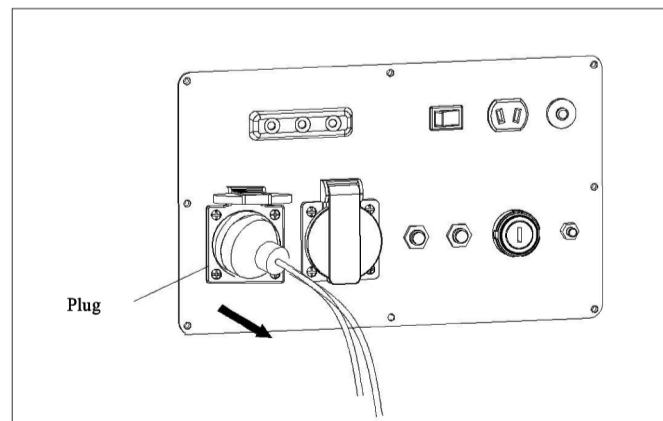
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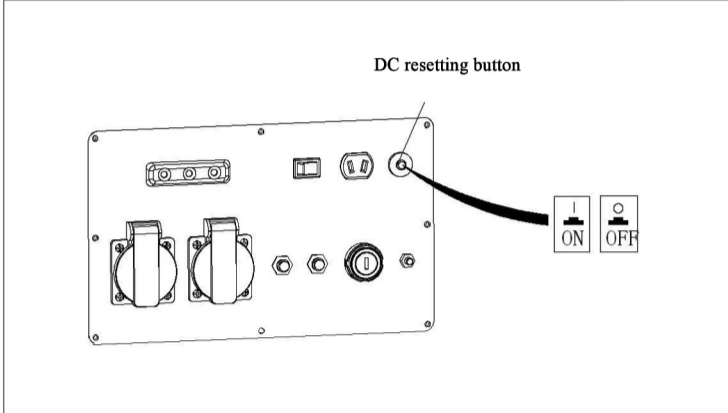
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⚠ Warning!

- It's better to charge at ventilated condition and keep away from beacon, for batteries generate incentive gas during charging.
- Batteries contain vitriol (electrolyte), it can burn skin and eyes when we touch it, please wear safety clothes and veil.
If electrolytes bespatter skin, please fresh water to wash at once.
If electrolytes bespatter eyes, please use fresh water wash 15 minutes at once and get some medical help in hospital.
- If gulped electrolytes by mistake, please drink a mass of water or milk at once, and then some magnesia milk or vegetable oil, later go to hospital for medical help.
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2. start engine

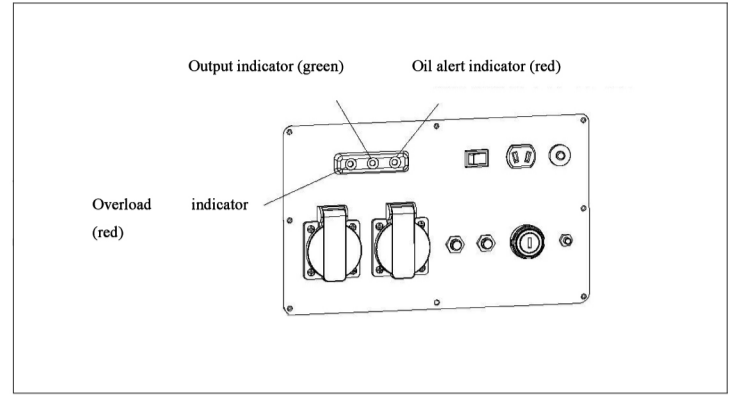
- We can use DC power and AC power at the same time.
- DC overload circuit may drive DC protector works, at this time, press resetting button.



oil alarm system

Oil alert system is designed for avoid engine damage from not enough oil on crank, oil alarm system will stop engine automatically before oil level in crank tank down to safety line (ignition button still keeps on)

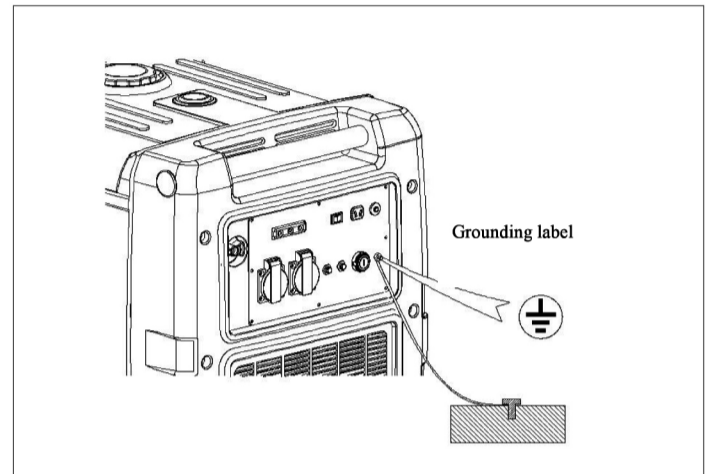
If you want to restart engine after stopped by oil alarm system, oil alarm system indicator (red) will keep on, you can't start engine at this time. Please add more oil at this condition (see page 13)..



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- If overload indicator (read light) and output indicator (green light) turn on at the same time when engine starts and overload indicator still keep on after output indicator turns off, please contact XG company.

1. connect to ground



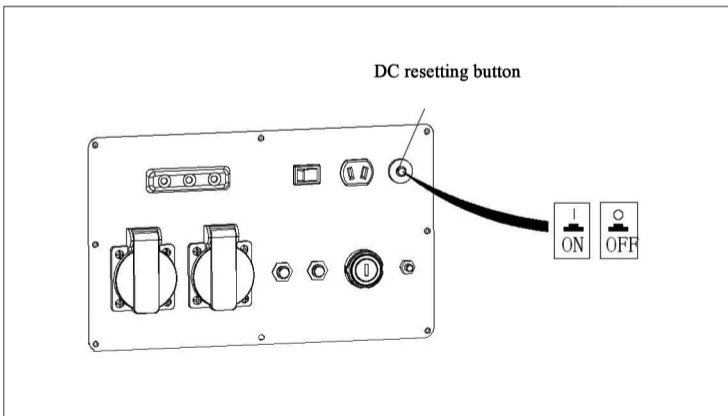
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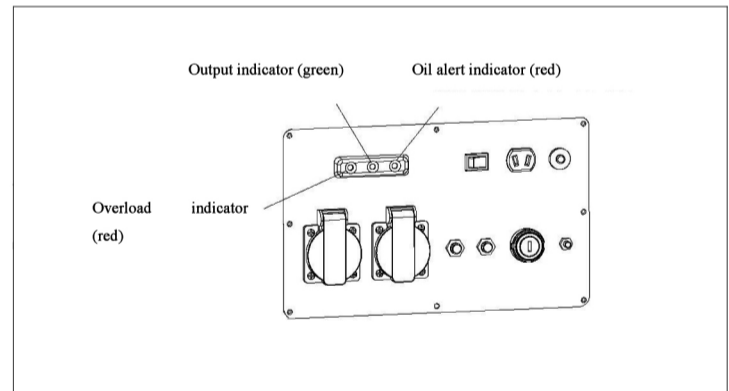
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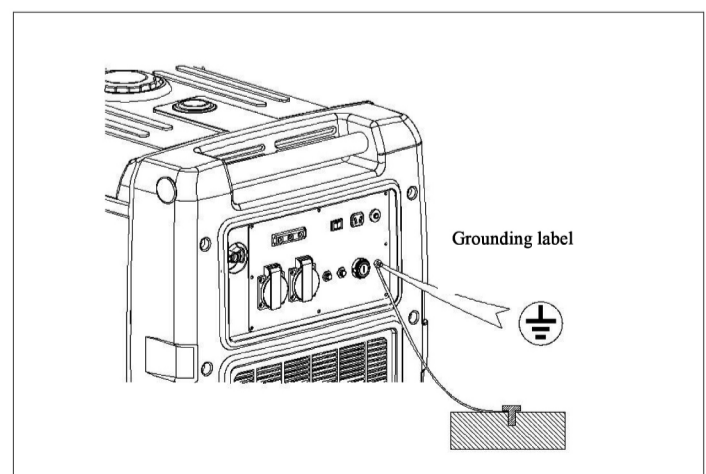
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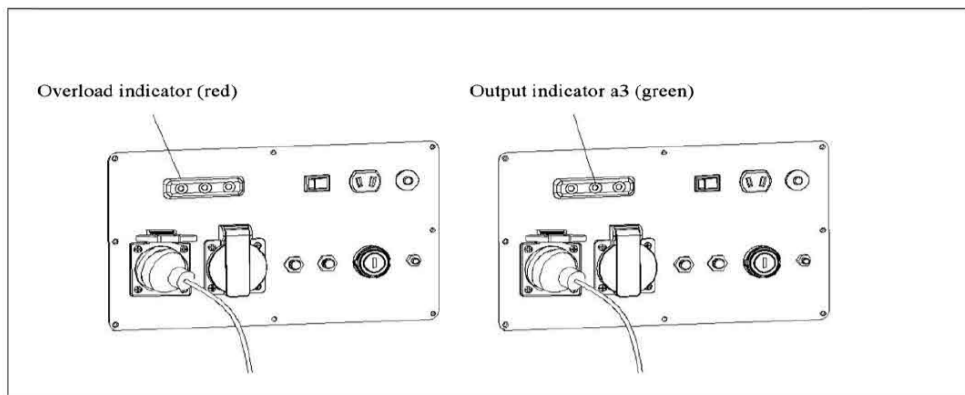
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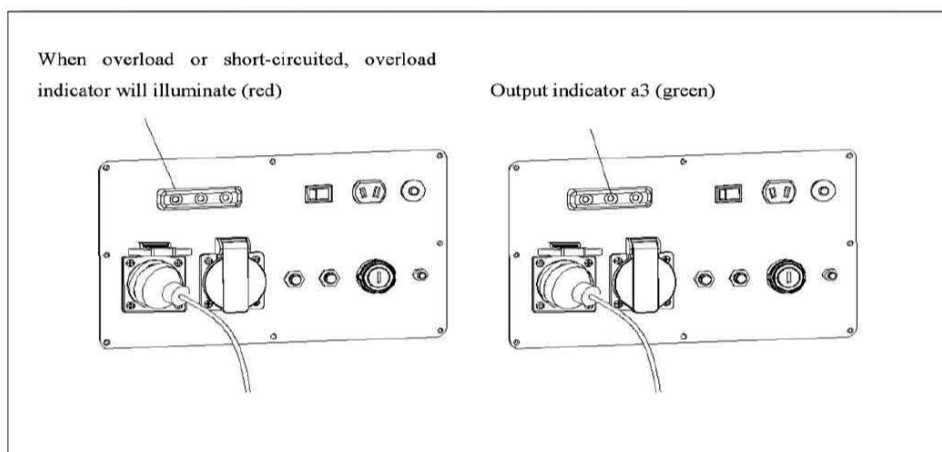
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- If connected equipment is always on before connecting, it will start suddenly, and cause injury.



4. Turn on equipments after output indicator (green light) turns on.

If overload or malfunction in equipments, output indicator (green light) will turn off and overload indicator (red light) will turn on and no power out. But at this time, engine won't stop, you must turn off the ignition switch to stop engine.

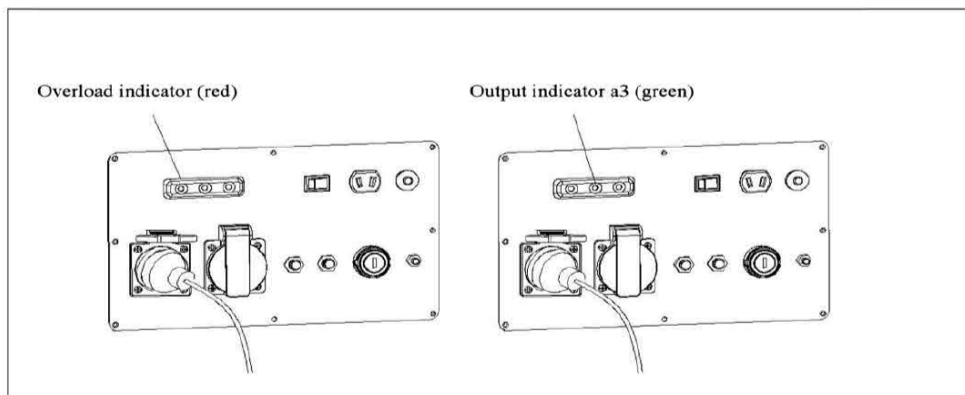


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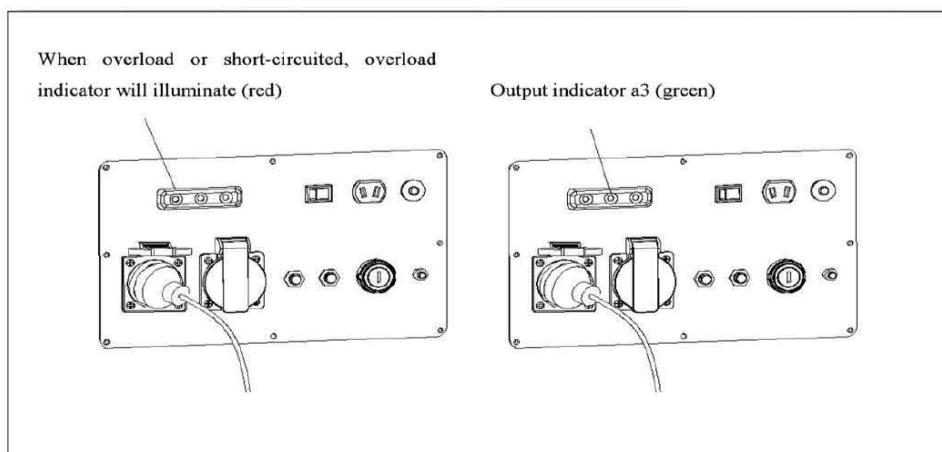
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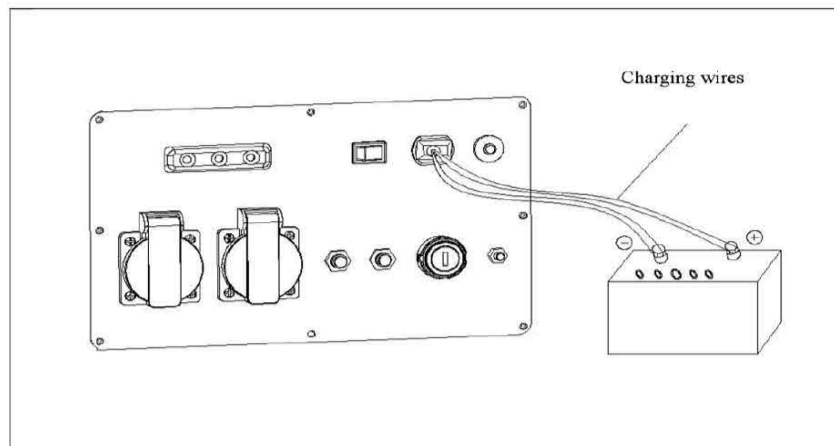
⚠ Be careful

- If the equipments are inductive load, it need more power for start, overload indicator and output indicator will turn on at the same time for a short period, that's natural. And red indicator turns off but green light still keeps on after equipments start.

Only for charging 12V automotive batteries.

⚠ NOTE!

- When using the DC output, turn the EcoThrottle switch to the OFF position.



Put the charging plug in the DC socket, and then connect to the terminals of the battery.

⚠ Warning!

- When charging, put the charging plug in the DC socket, and then connect to the terminals of the battery. And after charging, disassemble battery terminals first, it will reduce the spark.
- When charging auto car batteries, please cut off ground wire of the batteries first, and connect it after charging, it can avoid short circuit or spark when you make the ground wire touch the body of auto cars by inattention.

⚠ Be careful

- Do not start cars when generators connect to batteries, or it may destroy generators.
- Make sure that the positive and the negative of the batteries match the generators, or it will destroy generators or batteries.

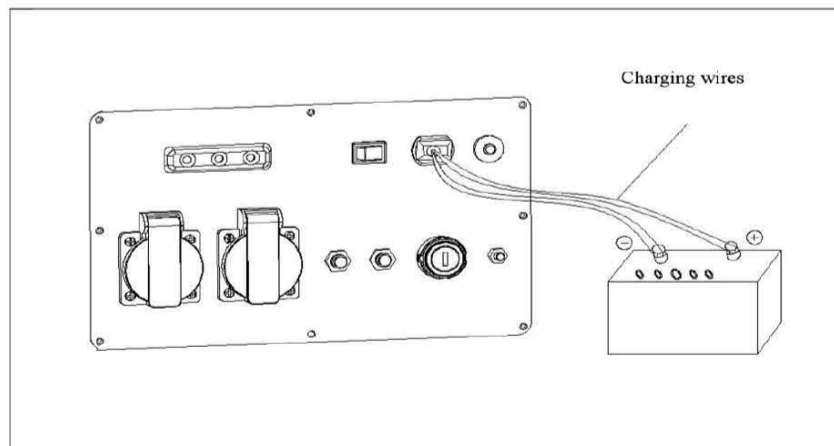
⚠ Be careful

- If the equipments are inductive load, it need more power for start, overload indicator and output indicator will turn on at the same time for a short period, that's natural. And red indicator turns off but green light still keeps on after equipments start.

Only for charging 12V automotive batteries.

⚠ NOTE!

- When using the DC output, turn the EcoThrottle switch to the OFF position.



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