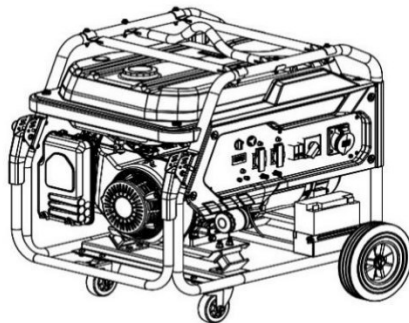




**OPERATING INSTRUCTIONS
FOR
GASOLINE GENERATOR SET
12000E 15000E**



PREFACE

Thank you for choosing a gasoline generator set by our Co.

Based on the latest technology at home and abroad, our Co. has successfully developed the gasoline generator set. The unit is characterized by advanced design, compact structure, reliable performance, convenient service, low fuel consumption and noise as well as fashion shape. With general gasoline engine as power, it is widely used in many fields such as living, open working, shop, bank, fishing and so on.

The manual gives information with respect to operation and maintenance of the gasoline generator, and be sure to read it carefully first before operating. If any trouble occurs, call your dealer who will provide you with the best after service.

All the materials and diagrams of this manual are in accordance with the newest products at the publishing time. Due to revision and other change, the information described in this manual may be a little different from the actual states. The copyright of this manual belongs to our Co., any group or individual is forbidden to reprint or copy any it. The manual is subject to change without notice.

IMPORTANT NOTICES

Please pay special attention to statements preceded by the following words:



WARNING:

A warning is used to alert the user to fact that hazardous operating and maintenance procedures may result in injury to or death of personnel if not strictly observed.

CAUTION:

A caution is used to alert the user to fact that hazardous operation and maintenance procedures may result in injury to or death of personnel if not strictly observed.

NOTE:

Give helpful information.

This manual should be considered as a permanent part of the unit and should remain with the unit when resold.

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1. GENERATOR SAFETY



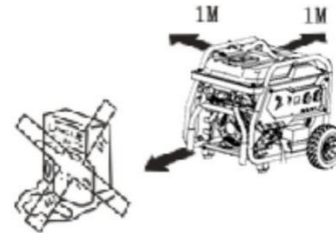
1.1 Never operate it in an enclosed room.



Never connect to home circuit.



1.3 Do not operate it under wet circumstances.



1.4 Place inflammables away from the unit at least one meter.



1.5 No smoking when filling fuel.



1.6 Always fill fuel after stopping it.

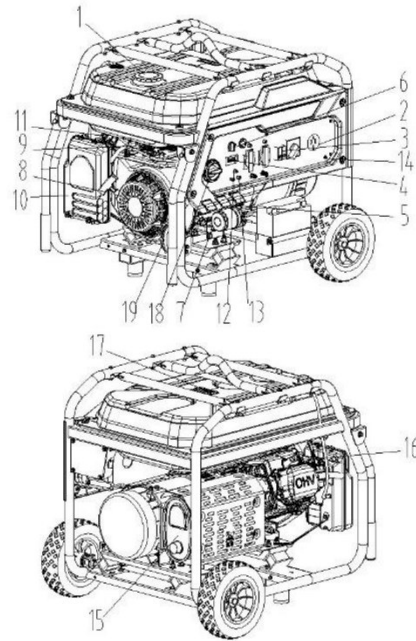


1.7 Do not spill out when filling fuel.

2.INTROUCITON TO PARTS AND COMPONENTS

Main components of the unit are located as follows.

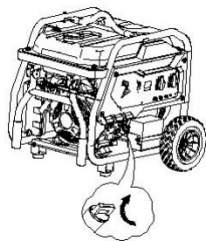
- | | |
|-------------------------|---------------------------------|
| 1.Fuel filler cap | 18. fuel selection switch |
| 2. AC plug socket | 19. Gas pressure reducing valve |
| 3. AC breaker | |
| 4. Voltmeter | |
| 5. Dipstick | |
| 6. Ignition switch | |
| 7. Drain plug | |
| 8. Starting handle | |
| 9. Fuel switch | |
| 10. Air cleaner | |
| 11. Choke lever | |
| 12. DC breaker | |
| 13. DC terminal | |
| 14. Ground terminal | |
| 15. Muffler Choke lever | |
| 16. Spark plug | |
| 17. Fuel sensor | |



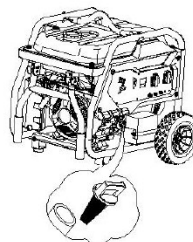
3. PRE-OPERATING INSPECTION

3.1 ENGINE-OIL LEVEL

NOTE: always check the generator in the case of stopping the generator on a level ground.



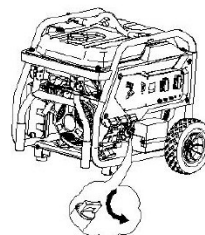
1. Turn out the oil filler cap and clean the dipstick with a clear clothe.



3. In the case that the oil ever is below the lower level mark of the dipstick, fill oil to the upper level mark of the dipstick.



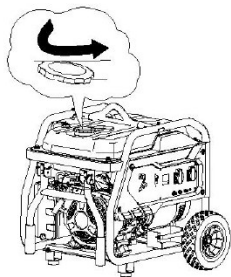
2. Insert the dipstick back into the oil filler hole without turning it in.



4. Reinstall the oil filler cap well.

3.2 FUEL LEVEL

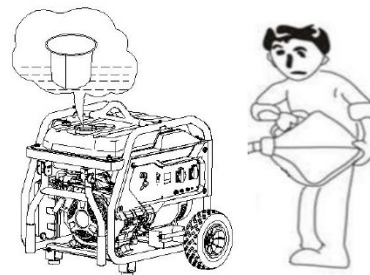
1. Open the fuel filler cap.



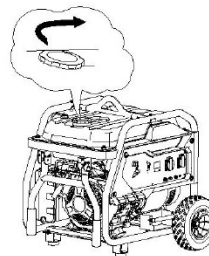
2. Fill fuel to the shoulder of the filter.



3. Check the fuel level, and fill fuel if necessary.

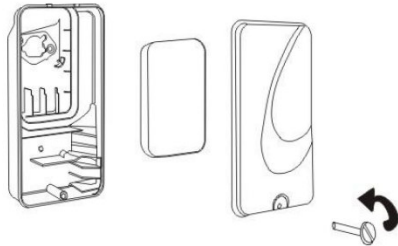


4. Reinstall the fuel filler cap well.

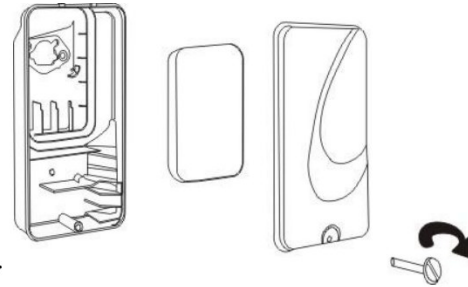


3.3 AIR CLEANER

1. Remove the clip and dismantle the air housing
2. Check and make sure the air cleaner core is intact and clean. If it is broke, replace it with a new one.

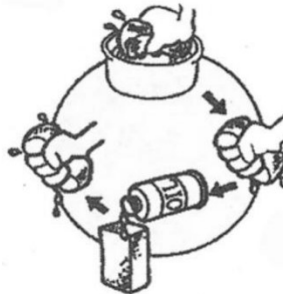


4. Put the filter element in to the original position, install the cover and secure it well.



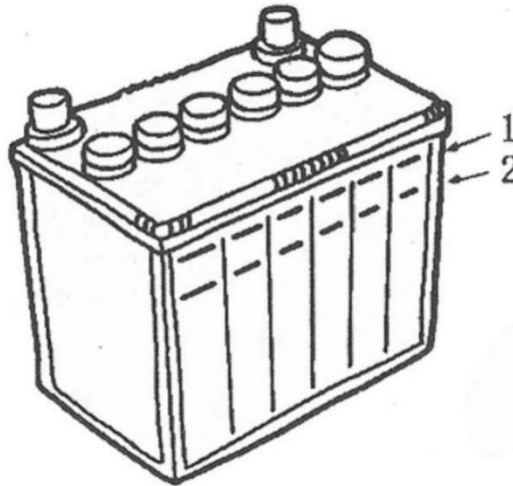
3. If the core is filthy, clean it in the following sequence.

- a) Clean the core in the cleansing solvent.
- b) Dry it up
- c) Dip a few drops of engine oil into it.
- d) Squeeze excess oil



3.4 BATTERY (Electric)

Check and make sure that the electrolyte level of each battery cell is between is upper and lower level marks.



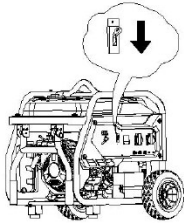
1. upper level mark

2. lower level mark

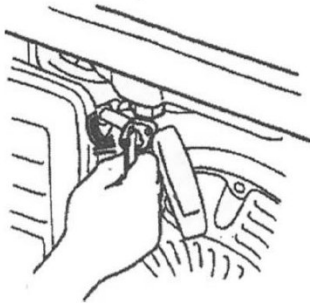
4. STARTING THE GENERATOR

4.1 Remove all loads from AC socket.

4.2 Switch off the AC breaker.

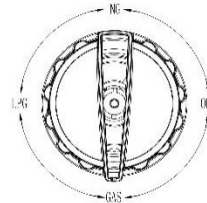


4.3 Turn on the fuel cock.

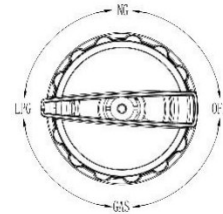


4.4 Choose fuel

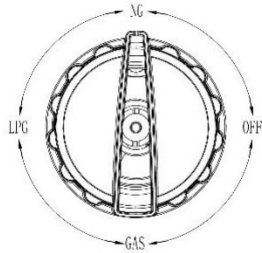
4.4.1 The direction of the knob is gasoline as shown in the figure



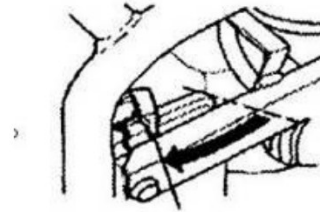
4.4.2 The direction of the knob is as shown in the figure for liquefied petroleum gas



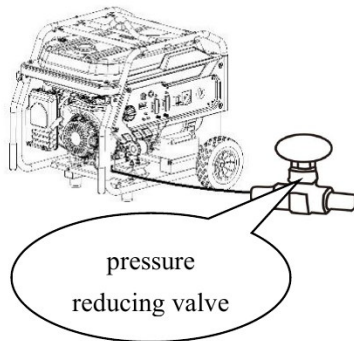
4.4.3 The direction of the knob is natural gas as shown in the figure



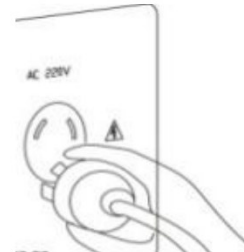
4.4 Set the choke lever to OFF position.



4.4.4 Connect the gas pressure reducing valve air pipe and tighten the joint nut

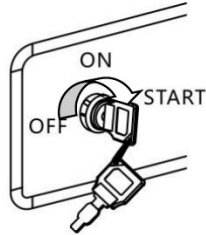


Don't close the choke when starting the engine in hot condition.

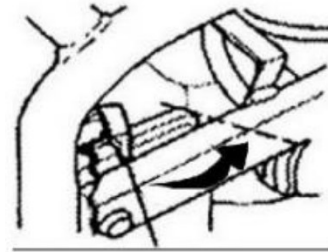


4.5 start mode

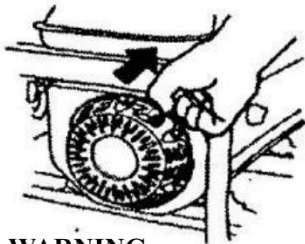
4.5.1 Turn on the ignition switch and turn it to the right to start the engine



4.6 Once the engine is warmed up, set the choke lever to ON position.



4.5.2 Pull the start handle gently until feeling an anti-action, and then pull it up strongly.



WARNING

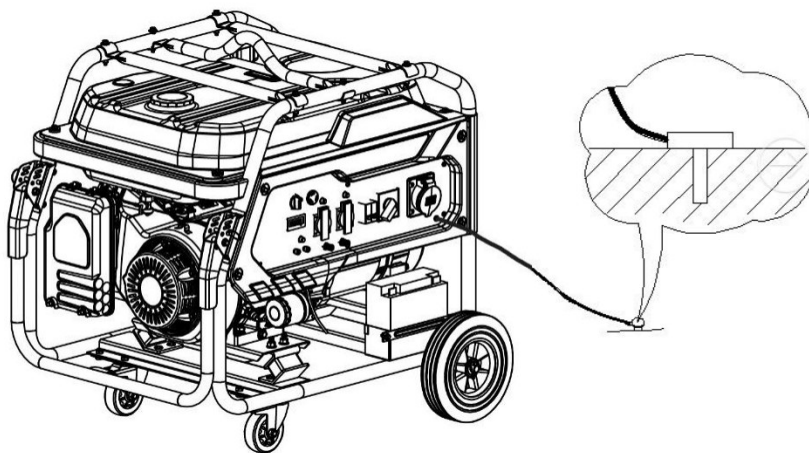
After starting up, release the starting lever slightly so avoid injuring personnel or damaging equipment due to its bouncing back.

5. SERVICE

Always do as the following so as to keep the generator in a sound condition.

WARNING

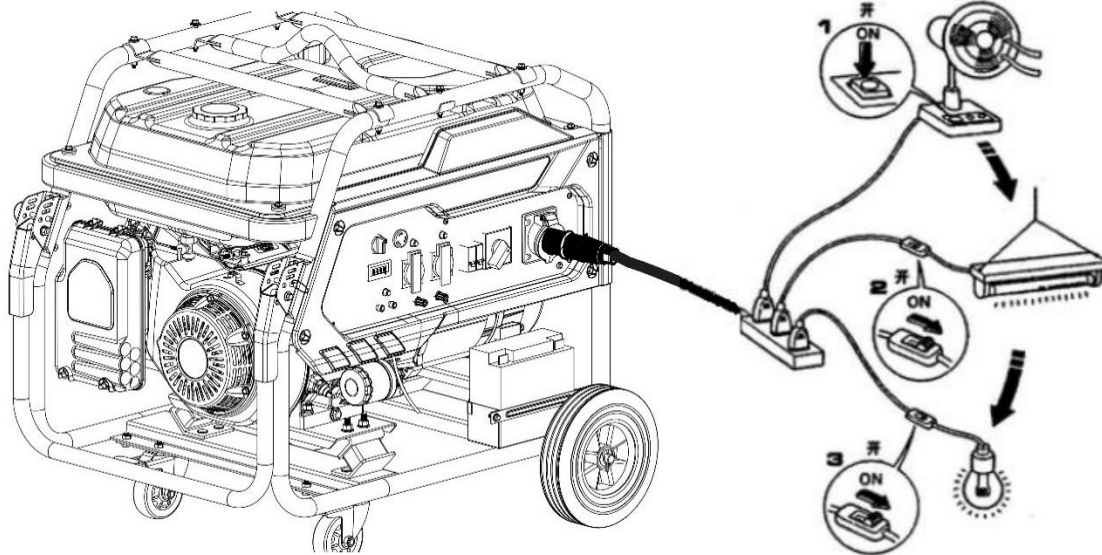
5.1 Always connect the generator to the earth to prevent misusing.



2. The following table gives reference information for connection the electric appliances to generator.

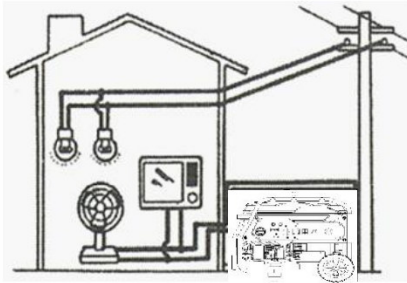
Description	Wattage		Typified	Example		
	Start	Rating		Electric device	Start	Rating
● Incandescent lamp ● Heating device	×1	×1	Incandescent lamp  TV 	Incandescent lamp 100W 	100VA (W)	100VA (W)
● Fluorescent lamp	×2	×1.5	Fluorescent lamp 	Fluorescent lamp  40W	80VA (W)	60VA (W)
● Motor drive device	×3~5	×2	Refrigerator  Electric fan 	Refrigerator  150W	450~750VA (W)	300VA (W)

3. If the generator is to supply two or above loads with power supply, be sure to connect them one by one with higher start current first.

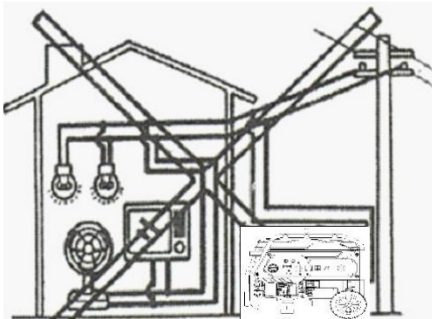


5.4 Connecting methods are illustrated as follows.

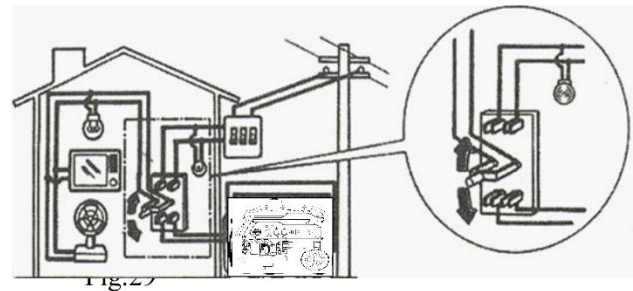
a) Correct



b) Forbidden



c) Correct

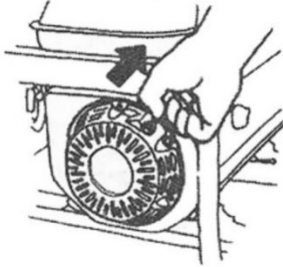


⚠ WARNING

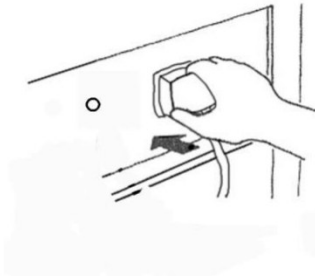
When connect the generator to home power supply, be sure that a skilled electrician does this job. Improper connecting between the generator and loads may cause damage to the generator, even a fire.

5.5 USE INSTRUCTION WHEN PROVIDING ALTERNATIVE CURRENT SUPPLY

5.1 Start the generator



5.2 Connect devices.

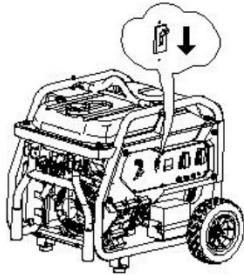


5.3 Switch on the AC breaker.

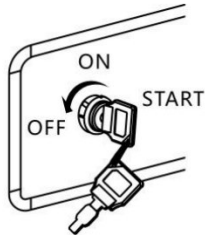


6. STOPPING THE ENGINE

6.1 Switch off the AC breaker.

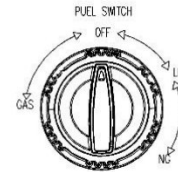


6.2 Turn the ignition switch to OFF.

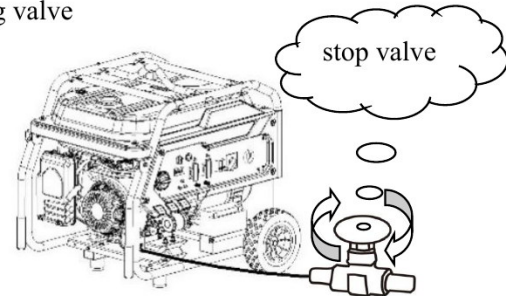


Electric
start

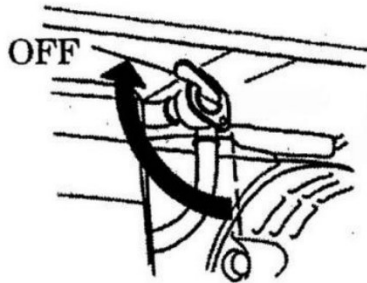
6.2.1 Turn the fuel selection switch to OFF.



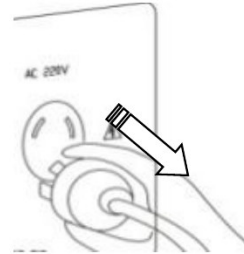
6.2.2 Tighten clockwise to close the gas pressure reducing valve



6.3 Set the fuel cock to off.

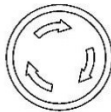


6.4 Remove the plug connected to the generator socket



NOTE:

To stop the generator in an emergency, turn the ignition switch to OFF or press the red emergency stop button.



7. MAINTERNANCE

User should service the unit according to the Maintenance Schedule as follows:

PERIOD			 Or first month	 Or every 3 months	 Or every 6 months	 Or every one Year	Ref. page
Engine oil check		Check					P.7
Replace engine oil			Replace		Replace		P.20
Air cleaner check		Check					P.9
Air cleaner wash				Clean			P.9
Oil filter cup					Clean		P.22
Battery electrolyte level		Clean					P.10
Spark plug					Clean		P.21
Valve clearance						Check, readjust	-
Cylinder cover wash						Clean	-
Fuel tank wash		Replace every 3-year					-

7.1 REPLACEMENT OF ENGINE OIL

1 Turn and then take out the dipstick.



Don't pour containers and waste oil into the dustbin, or on the ground. We recommend that you put the oil into a closed container, sent to the local waste oil regeneration to stand, to protect the environment and health.

2. Unscrew the drain plug, and empty the engine oil from the crankcase.

3. Screw on the drain plug.

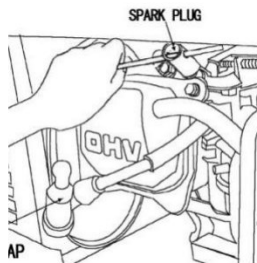
4. Fill engine oil to the upper level mark of the dipstick.

Engine oil recommended: 4-stroke gasoline engine oil – engine oil class SE, SF from API Service classification or SEA 10W – 30 engine equivalent to Class SG.

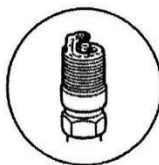
5. Fit the dipstick to the original position.

7.2 SPARK PLUG

1. Withdraw the spark plug cap front the spark plug.



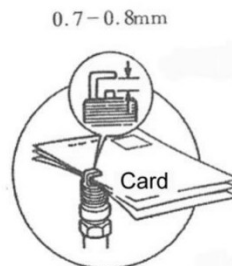
2. Dismantle the spark plug by means of a special tool.



3. Clear away carbon fouling around the spark plug.



4. Check the spark plug gap and adjust if necessary.
The gap should be 0.7~0.8mm.

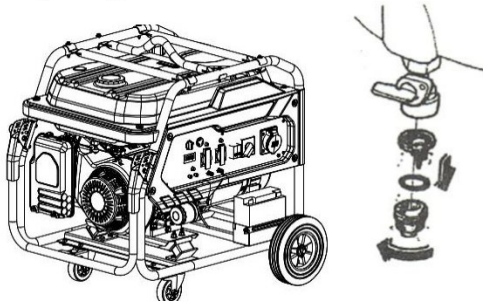


5. Reinstall the spark plug and cap well.
Spark plug recommended: F6RTC.



7.3 MAINTENANCE OF FUEL FILTER CUP

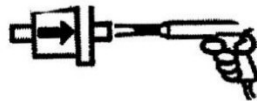
1. Set the fuel cock to OFF, and dismantle the fuel filter cup and gauze.



3. Fit the fuel filter cup and gauze to the original position.



2. Fit the fuel filter cup gauze to the original position.

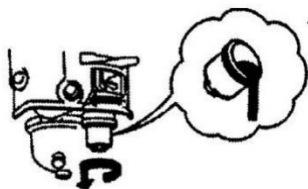


8. STORAGE

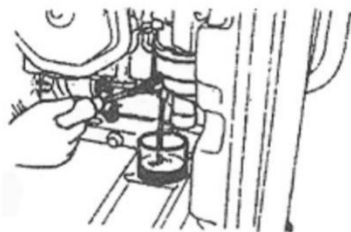
During long – term storage of the unit which are not kept in use, carry out procedures as follows.

8.1 Empty the fuel tank.

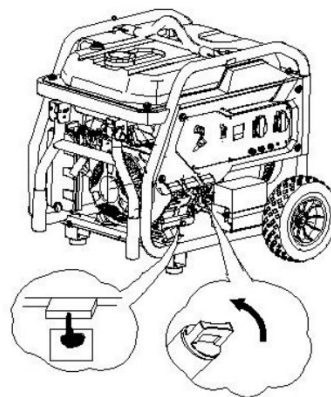
8.2 Having wash the fuel filter cup and gauze, install them to the original position.



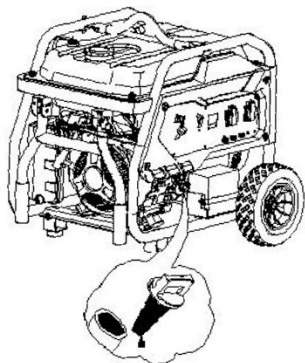
8.3 Discharge the fuel from the carburetor.



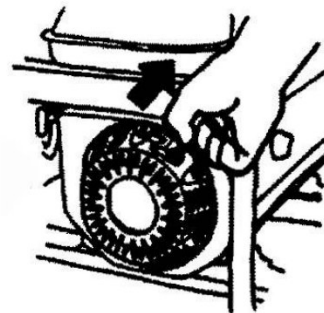
8.4 Turn off the oil filler cap and oil drain plug, and empty the engine oil from the crankcase.



8.5 Reinstall the oil drain plug, fill engine oil to the upper level mark of the dipstick, followed by fitter cap to the original position.



8.6 Pull up the handle gently until feeling an anti-action.



8.7 Place the unit in the clean area.

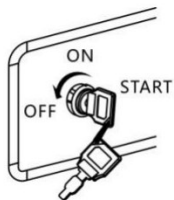


9. TROUBLESHOOTING

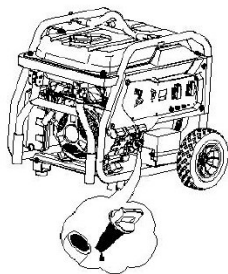
9.1 TROUBLE: the generator fails to start.



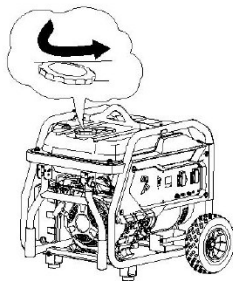
1. Check to see if the ignition switch is at ON.



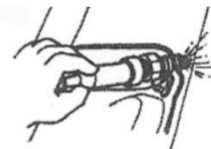
2. Check engine oil level.



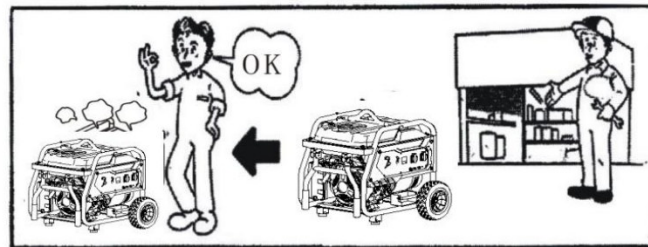
3. Check the fuel inside tank.



4. Remove the spark plug, and check it for proper sparks.



5. If the generator set is still out of work, see your dealer for help.

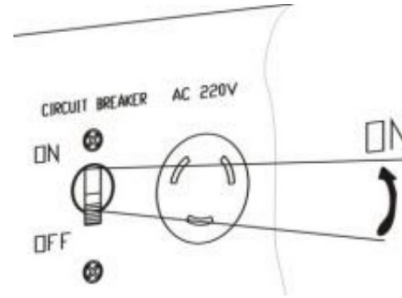


9.2 TROUBLE: the unit fails to generate electricity.

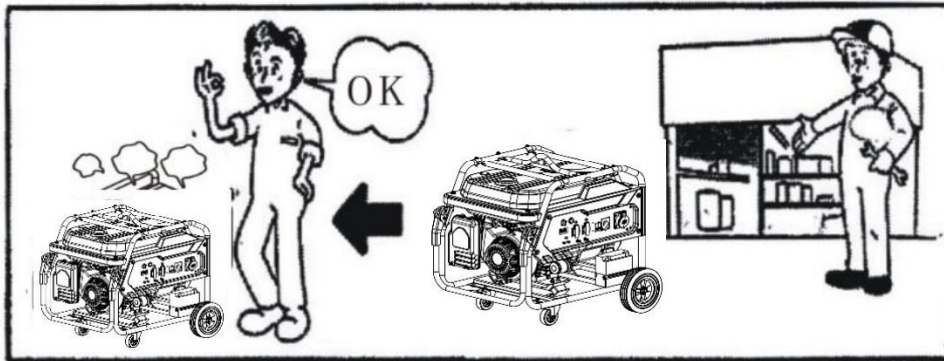
1. Check the light bulb.



2. Check to see if the AC breaker is at ON.



3. If such check is still unsatisfactory, see your dealer for help.



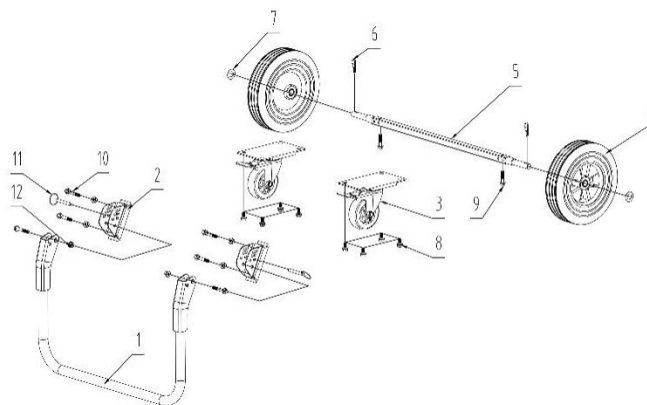
10. ASSEMBLY OF PARTS

10.1 WHEEL

Assemble the wheel, to this end:

1. Fit the wheel onto the axle, then secure them with Nut and split pin.
2. Mount the assembled axle on the frame with bolt and nut.

1. Armrest components
2. Armrest seat assembly
3. Wheel components
4. Wheel components
5. Wheel axle
6. Pin axis locking clip
7. Flat cushion Ø16×Ø30×2
8. Hexagon flange bolt GB/T16674 M8×16mm
9. Hexagon flange bolt GB/T16674 M8×35mm
10. Hexagon flange bolt GB/T16674 M8×50mm
11. Handrail latch assembly
12. Self-locking nut GB/T6186.1 M8mm



10.2 BATTERY

To install the battery, proceed as follows;

10.2.1 Assemble the battery with nuts, bolts and washers.

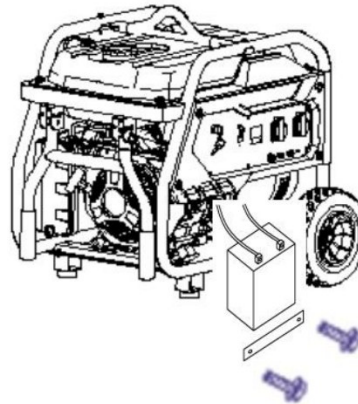
10.2.2 Connect the starting cable to the starting motor terminal along the bottom of the fuel tank.

10.2.3 Connect the earth line with line with the rear end of the generator.

10.2.4 Connect the starting cable to the positive lead of the battery first, and then to the negative one.

Disconnect in the reverse order.

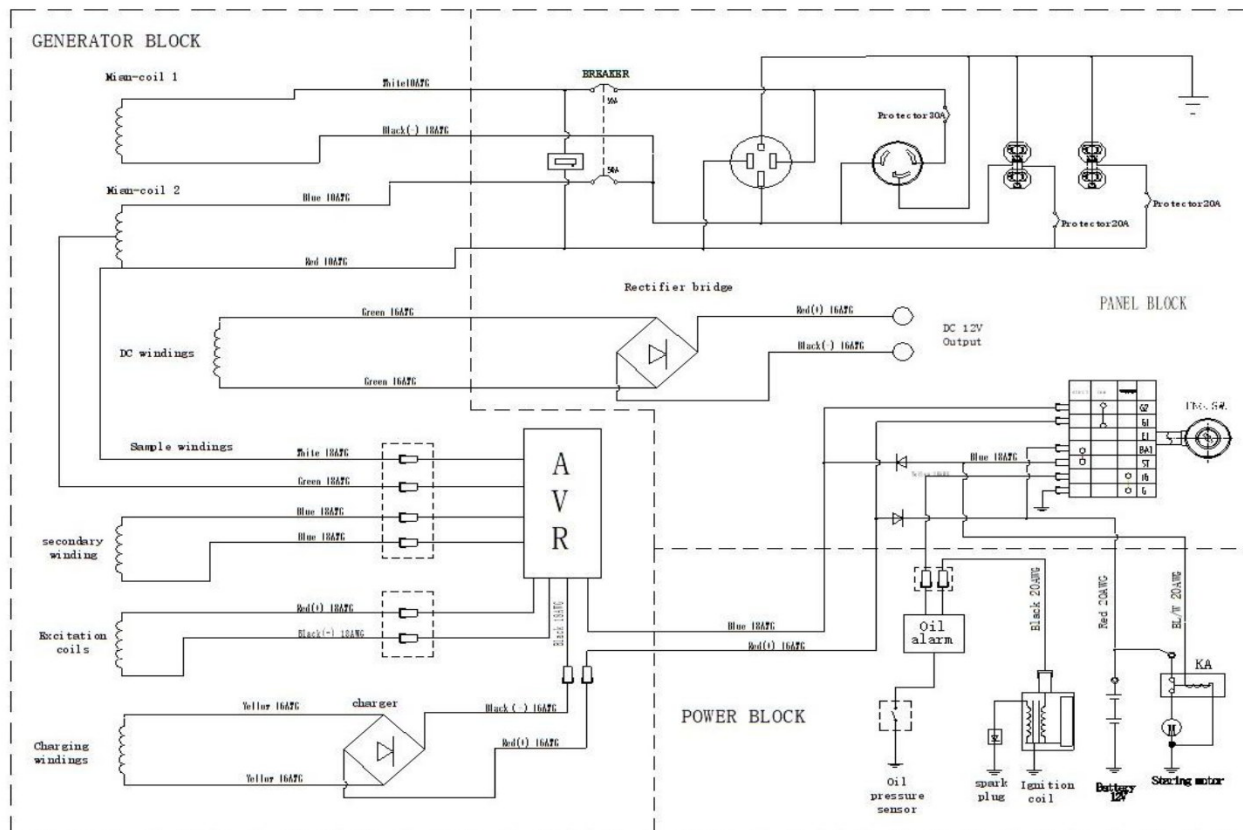
1. Control panel Assy
2. Starting motor
3. Positive wire
4. Battery (with a rating of 12V-35Ah)
5. Negative wire
6. Retaining frame

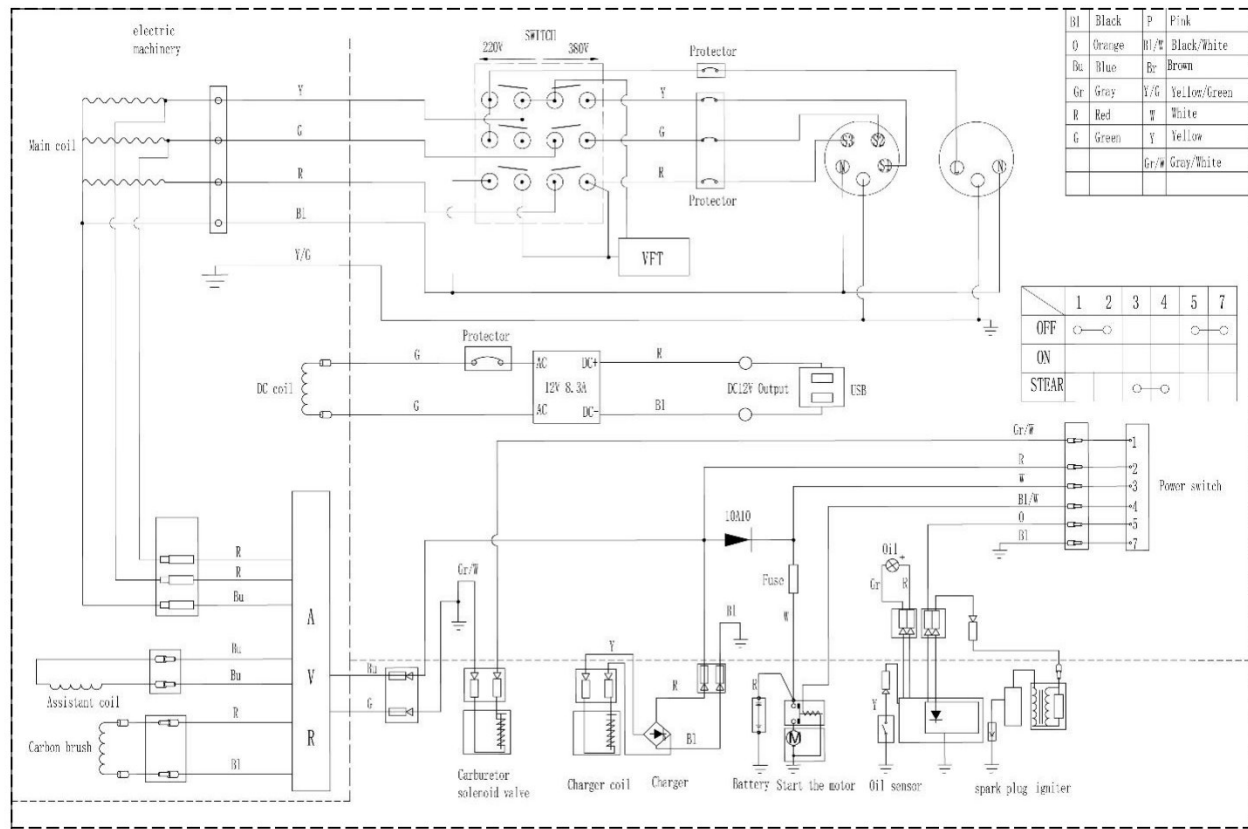


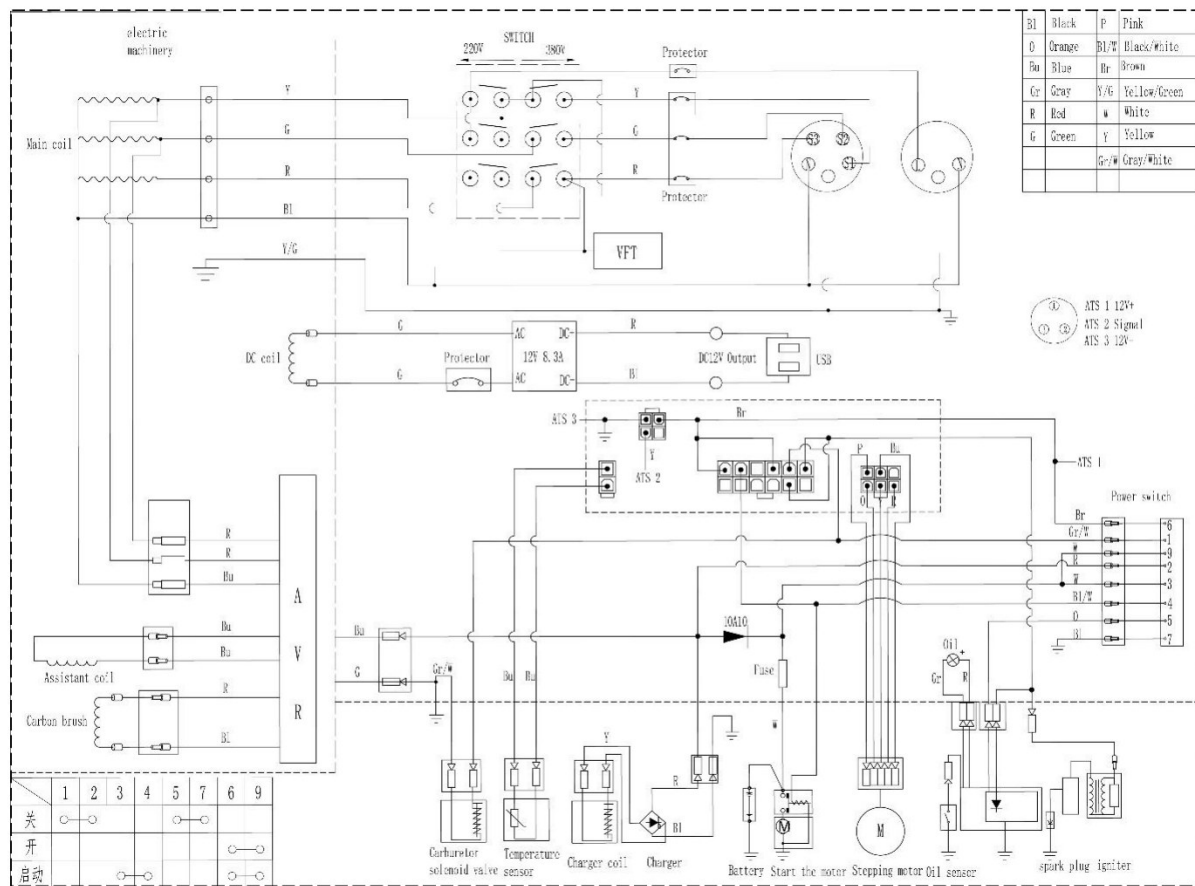
11. SPECIFICATONS

Model		12000E	15000E
Engine	Engine model	1100FD	
	Type	4-storke OHC single-cylinder gasoline engine with forced air-cooled	
	Displacement (cm ³)	683	
	Maximum power output (kW/rpm)	14.5/3600	
	Ignition system	Non-contact transistor	
	Start system	Hand-operated & electric	
	Fuel tank capacity (L)	60	
	Fuel consumption (L/hr)	5.8	
	Duration of runs (h)	8	
	Engine oil capacity (L)	1.5	
	Noise (7 meters away) (dB)	≤86	
Generator	Rated voltage (V)	120/240	
	Rated frequency (Hz)	60	
	Tri-fuel generator	GAS/LPG	GAS/LPG/NG
	Rated power (kW)	12/11	13/11.8/10.6
	Max. power (kW)	11/10	12/10.8/9.6
Generating set	Overall length (mm)	865	
	Overall length (mm)	660	
	Overall length (mm)	706	
	Dry mass (kg)	158/175	

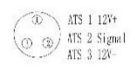
12. WIRING DIAGRAM







Bl	Black	P	Pink
O	Orange	Bl/W	Black/white
bu	Blue	br	Brown
Gr	Gray	Y/G	Yellow/Green
R	Red	w	White
G	Green	Y	Yellow
		Gr/W	Gray/White



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