OPERATING INSTRUCTIONS
FOR
GASOLINE GENERATOR SET

G6500E(6500W)

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 descried in this manual may be a little different from the actual stares. 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.

Contents

1. GENERATOR SAFETY

1.1 Never operate it in an enclosed room.

Fig.1

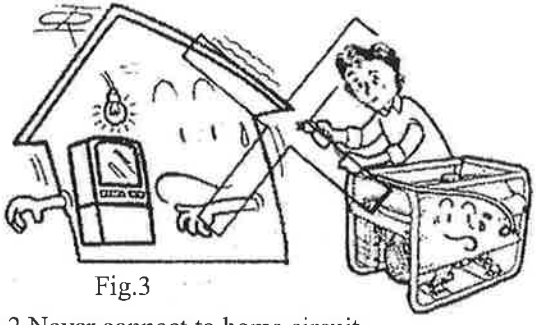


Fig.3

1.2 Never connect to home circuit.

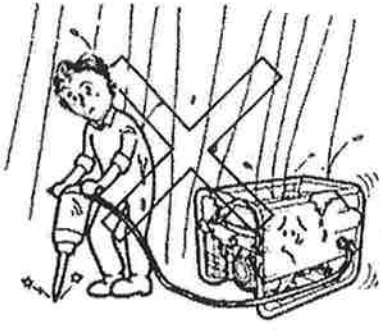


Fig.2

1.3 Do not operate it under wet circumstances.

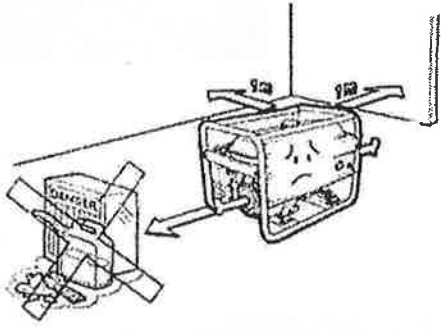


Fig.4

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

1.5 No smoking when filling fuel.

Fig.5

Fig.7

1.7 Do not spill out when filling fuel.

Fig.6

1.6 Always fill fuel after stopping it.

THERE IS A PERMANENT CONDUCT OR BETWEEN THE GENERATOR (ST ATOR WINDING) AND THE FRAME

, or equivalent

2.INTROUCITON TO PARTS AND COMPONENTS

Main components of the unit are located as follows.

1.Fuel sensor
2. Fuel filler cap
3. AC plug socket
4. AC breaker
5. Voltmeter
6. Dipstick
7. Ignition switch
8. Drain plug
9. Starting handle
10. Fuel cock
11. Air cleaner
12. Choke lever
13. Ground terminal
14. Muffler
15. Spark plug

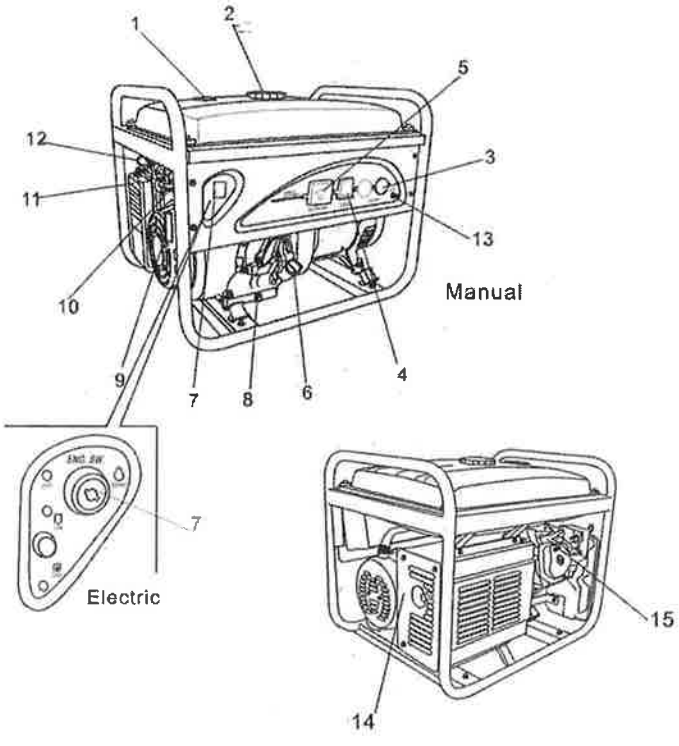


Fig.8

3. PRE-OPERATING INSPECTION

3.1 ENGINE-OIL LEVEL

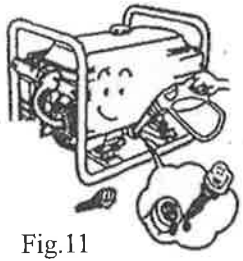
NOTE: always check the generator in the case of stopping the generator on a level ground.

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

Fig.9

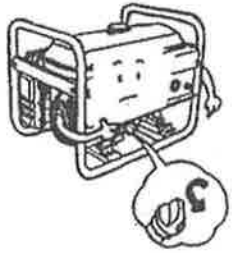
2. Insert the dipstick back into the oil filler hole without turning it in.

Fig.10



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.

Fig.11



4. Reinstall the oil filler cap well.

Fig.12

3.2 FUEL LEVEL

1. Open the fuel filler cap.

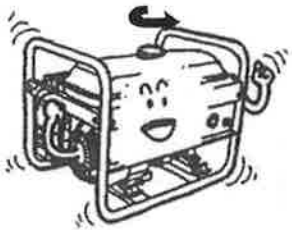


Fig.13

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

Fig.14

3. Fill fuel to the shoulder of the filter.

Fig.15

4. Reinstall the fuel filler cap well.

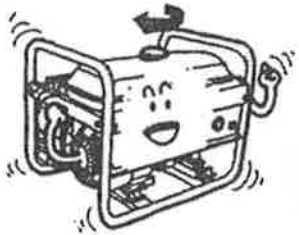
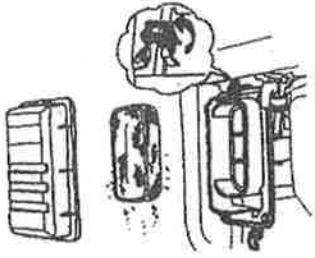


Fig.16

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.

Fig.17



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

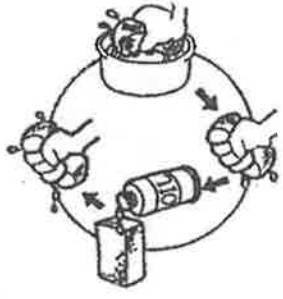


Fig.18

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

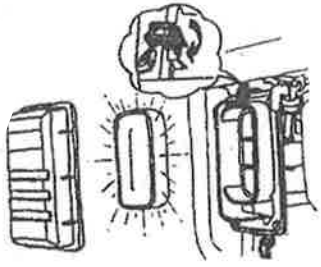


Fig.19

3.4 BATTERY

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

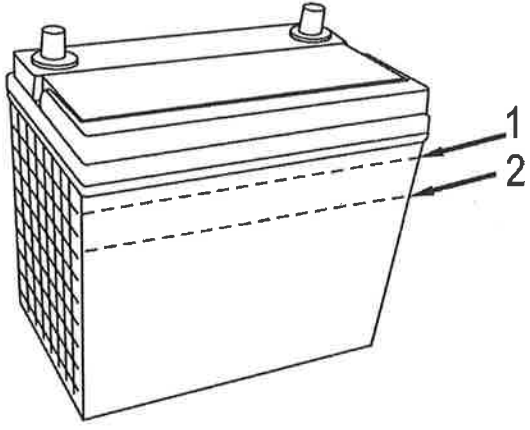


Fig.20

1. upper level mark 2. lower lever mark

4. STARTING THE GENERATOR

4.1 Remove all loads from AC socket.

4.2 Switch off the AC breaker.

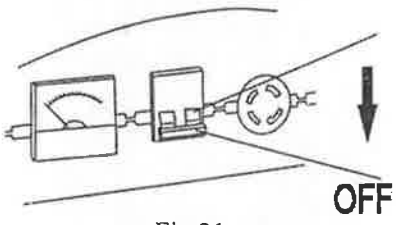


Fig.21

4.3 Turn on the fuel cock.

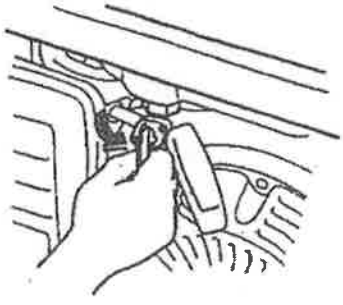
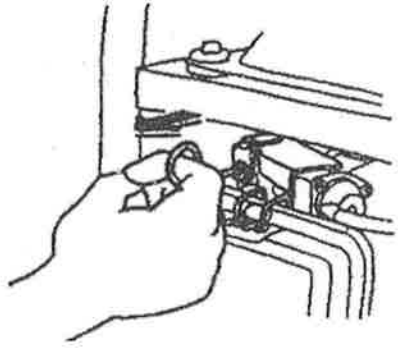


Fig.22

4.4 Set the choke lever to OFF position.

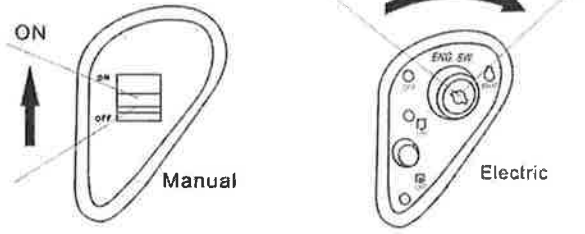
Don't close the choke when starting the engine in hot condition.

Fig.23



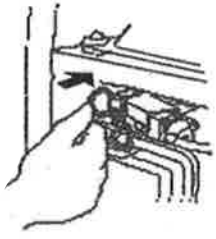
4.5 Turn on the ignition switch .

Fig.24



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

Fig.26



4.6 Pull the start handle gentling 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.

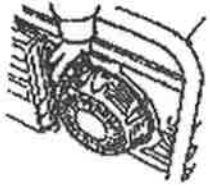


Fig.25

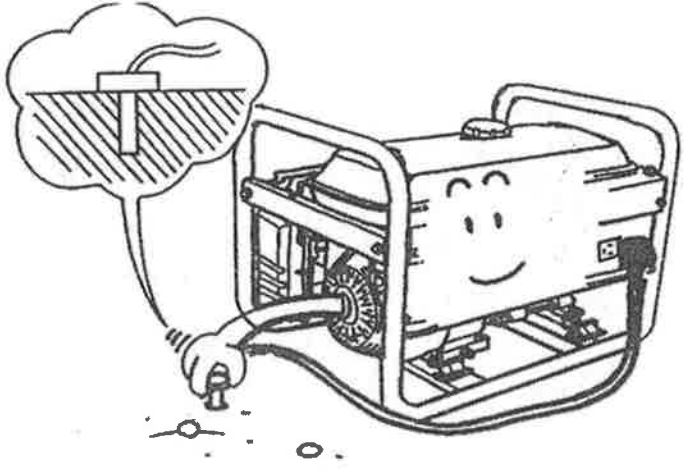
5. SERVICE

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.

Fig.27



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.

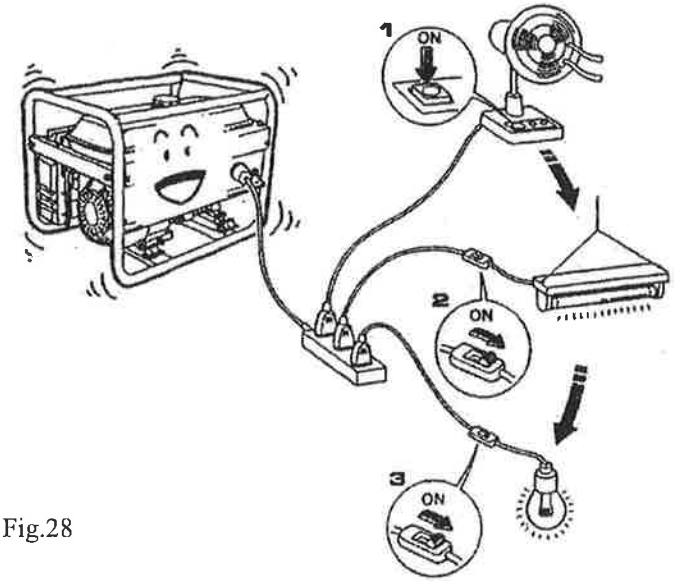


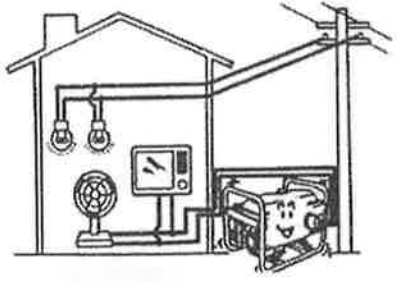
Fig.28

⚠ WARNING

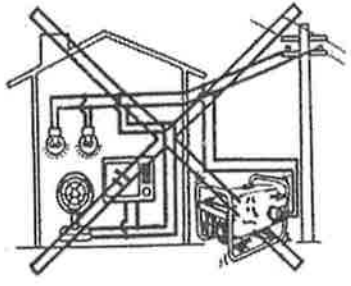
Do not use AC and DC at the same time.

5.4 Connecting methods are illustrated as follows.

a) Correct



b) Forbidden



c) Correct

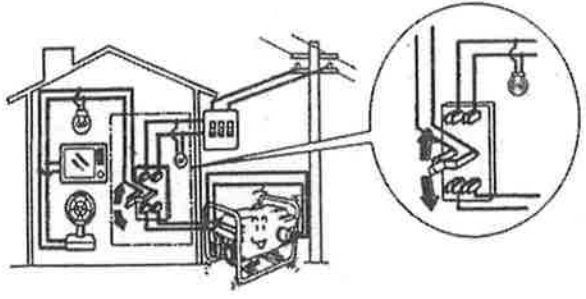


Fig.29

⚠ 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.

6. STOPING THE ENGINE

6.1 Switch off the AC breaker.

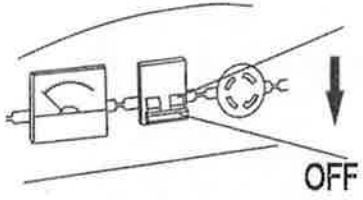


Fig.33

6.2 Turn the ignition switch to OFF.

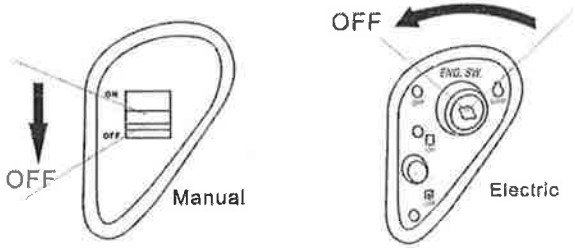


Fig.34

6.3 Set the fuel cock to off.

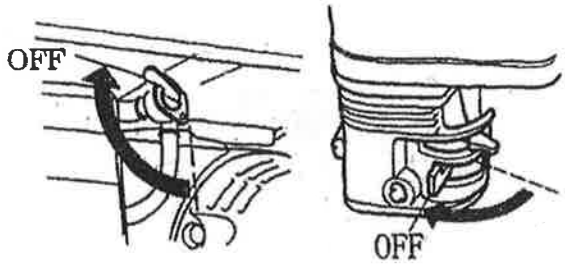


Fig.35

NOTE:

To stop the generator in an emergency, turn the ignition switch to OFF.

7. MAINTERNANCE

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

PERIOD / ITEM		Before use	Or every 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 REPLACEM ENT OF ENGINE OIL

1 Turn and then take out the dipstick.

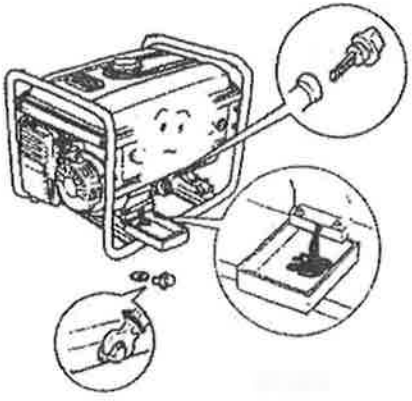


Fig.36

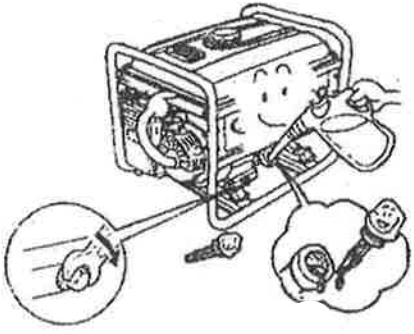


Fig.37

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.

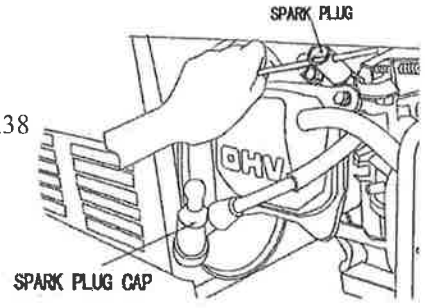


Fig.38

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

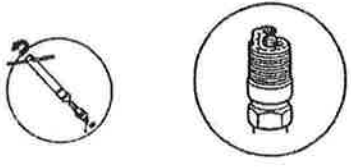


Fig.39

3. Clear away carbon fouling around the spark plug.

Fig.40

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

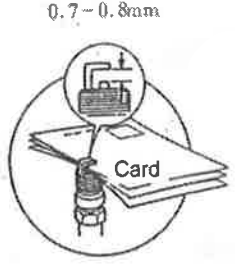


Fig.41

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

Fig.42

7.3 MAINITENANCE OF FUEL FILTER CUP

1. Set the fuel cock to OFF, and dismantle the fuel filter cup and gauze.
2. Fit the fuel filter cup gauze to the original position.
3. Fit the fuel filter cup and gauze to the original position.

Fig.43

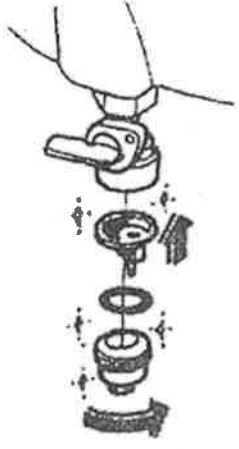


Fig.44

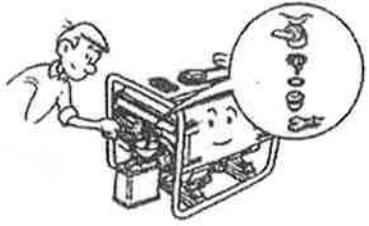
8. STORAGE

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

8.1 Empty the fuel the fuel tank.

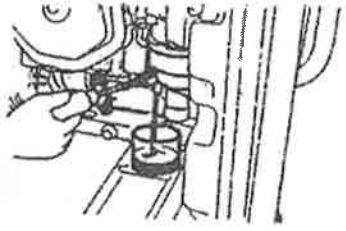
8.2 Having wash the fuel filter cup and gauze, install them to the original position.

Fig.45



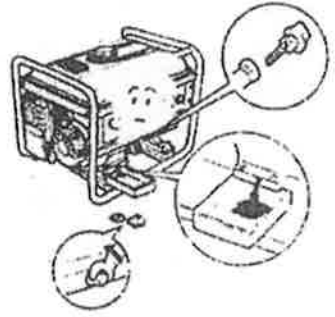
8.3 Discharge the fuel from the carburetor.

Fig.46



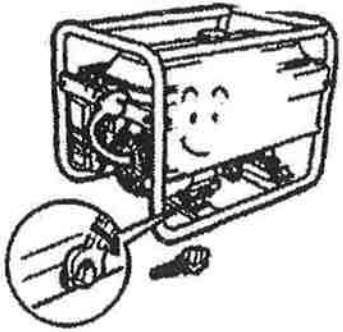
8.4 Turn off the oil filer cap and oil drain plug, and empty the engine oil from the crankcase.

Fig.47



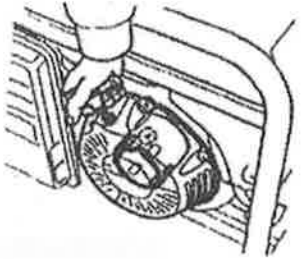
8.5 Reinstall the oil drain plug, fill engine oil to the upper level mark of the dipstick, followed by fitter cap to the original position.

Fig.48



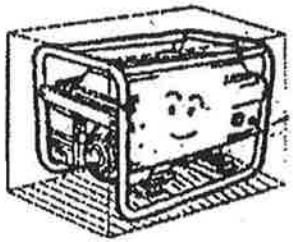
8.6 Pull up the handle gently until feeling an anti-action.

Fig.49



8.7 Place the unit in the clean area.

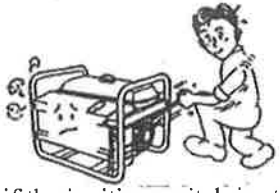
Fig.50



9. TROUBLESHOOTHING

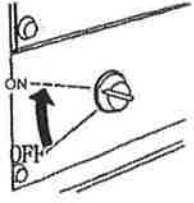
9.1 TROUBLE: the generator fails to start.

Fig.51



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

Fig.52



2. Check engine oil level.

Fig.53

3. Check the fuel inside tank.

Fig.54

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

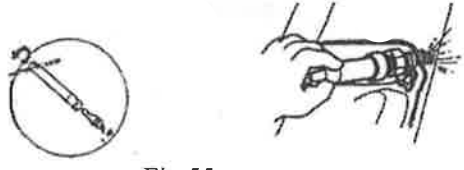


Fig.55

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

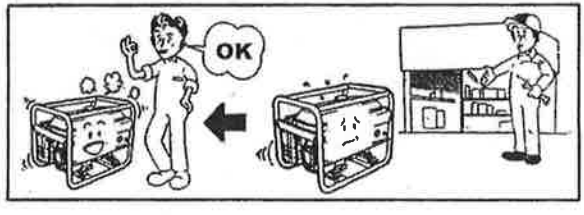


Fig.56

9.2 TROUBLE: the unit fails to generate electricity.

1. Check the light bulb.

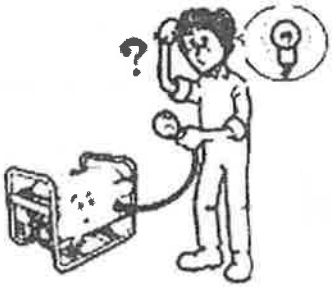


Fig.57

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

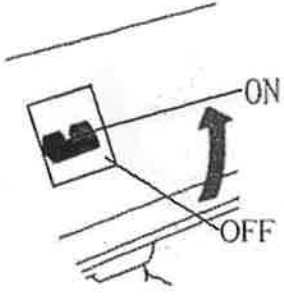


Fig.58

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

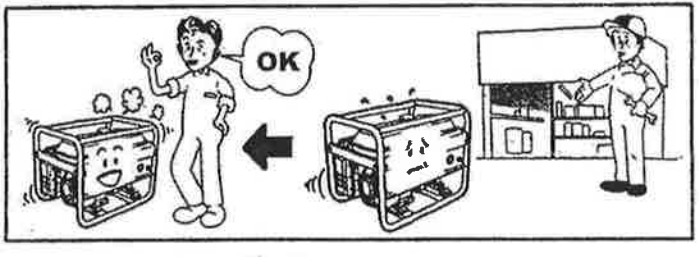


Fig.59

10. ASSEMBLY OF PARTS

10.1 WHEEL

Assemble the wheel, to this end:

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

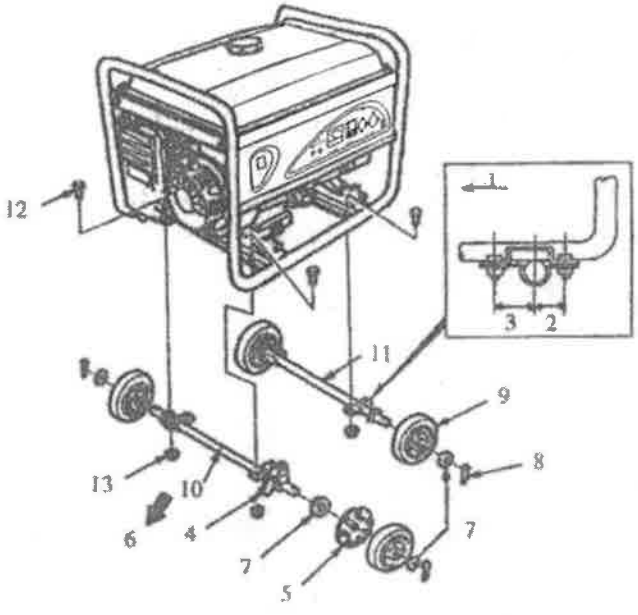


Fig.60

1. Inner side
2. Shorter side
3. Longer side
4. Latch
5. Stopping disc
6. Engine location
7. Retainer
8. Split pin
9. Wheel
10. Right axle close to engine)
11. Left axle (close to generator)
12. Nut
13. Bolt

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 alone 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.

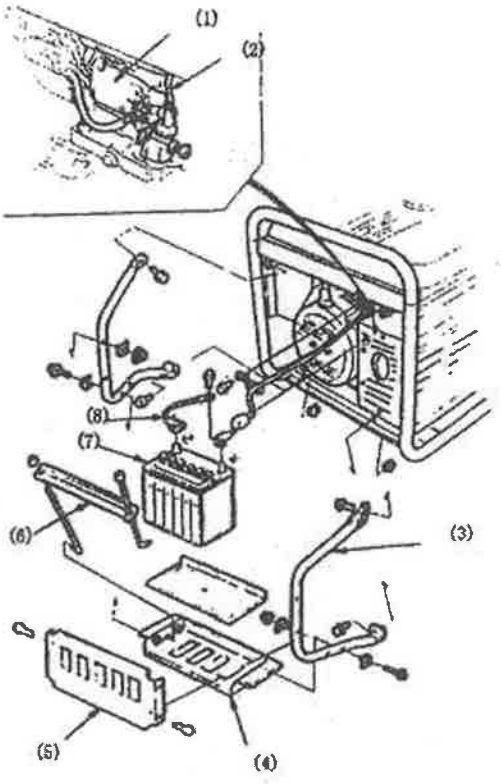


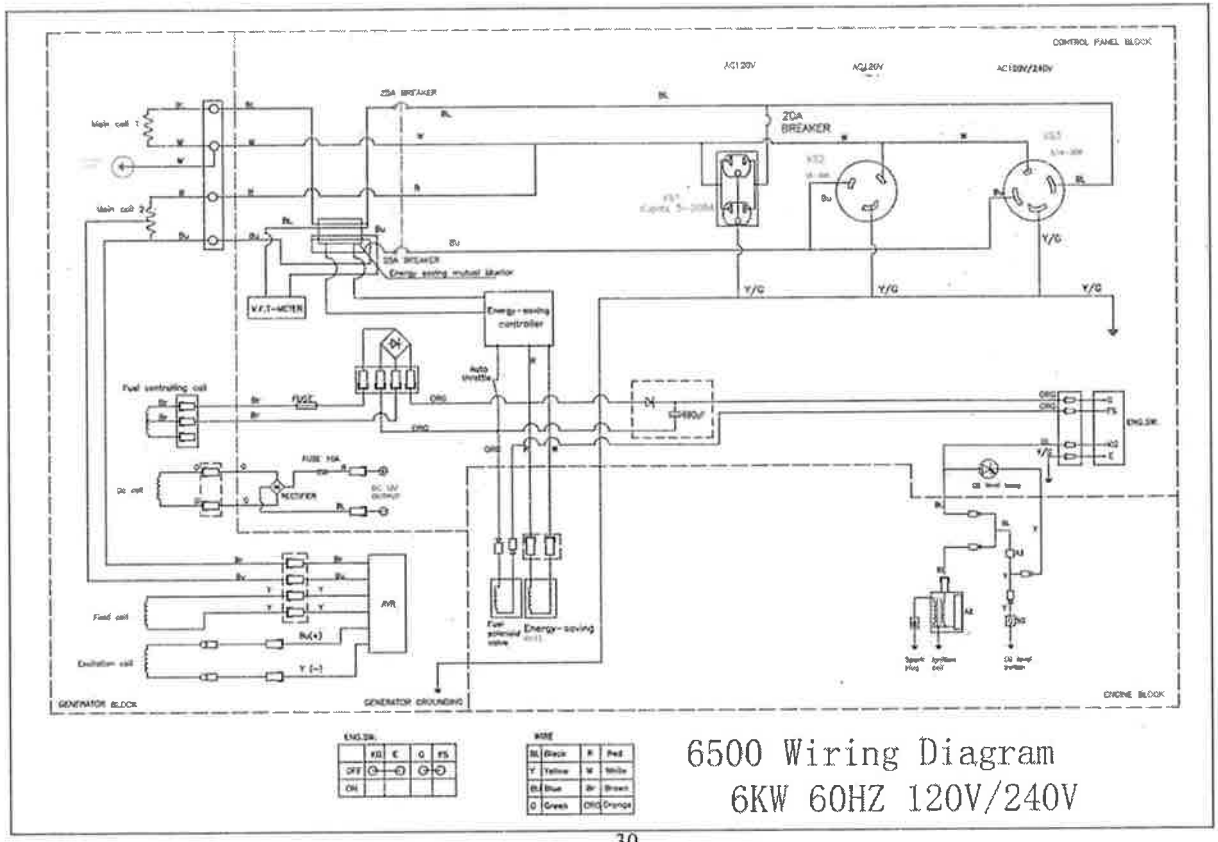
Fig.61

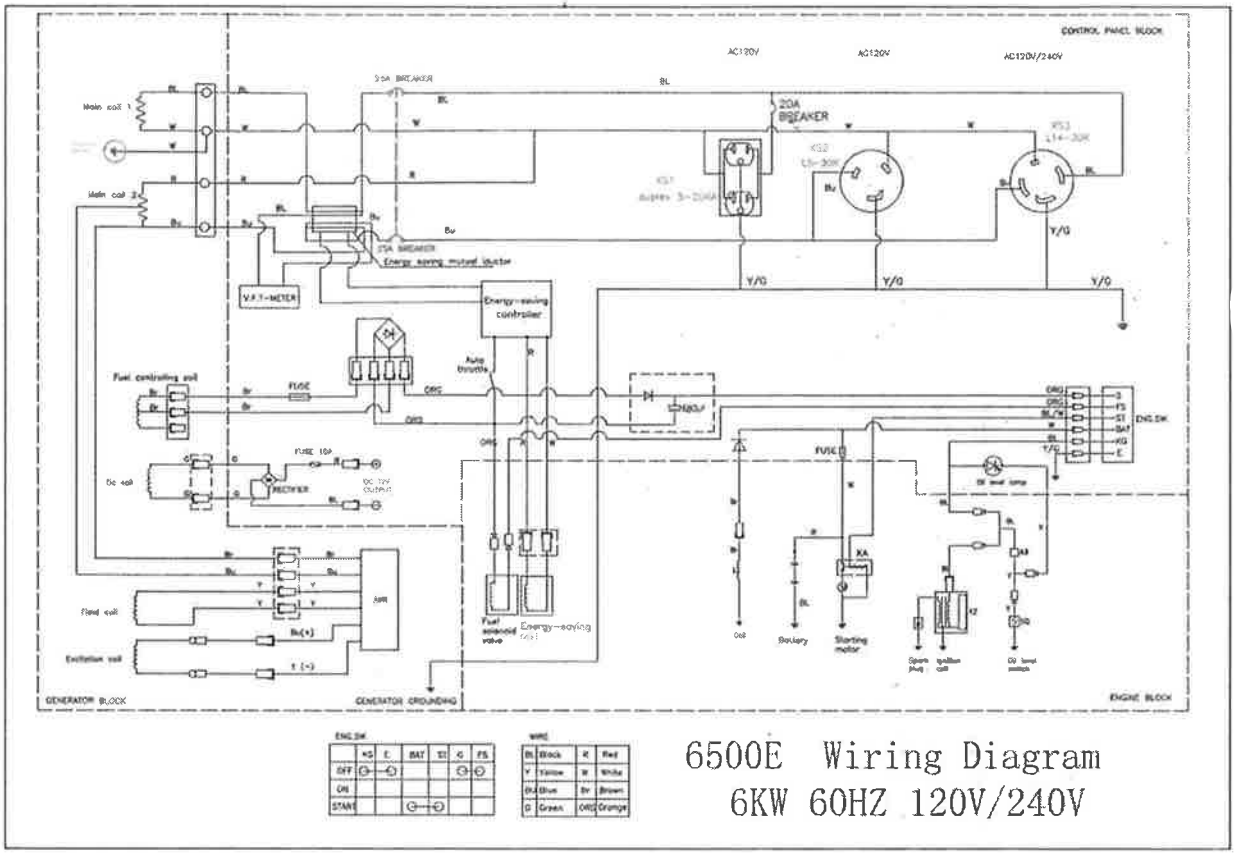
1. Starting motor
2. Starting cable
3. Protective frame
4. Battery bracket
5. Battery guard
6. Retaining frame
7. Battery (with a rating of 12V-35Ah)
8. Negative wire

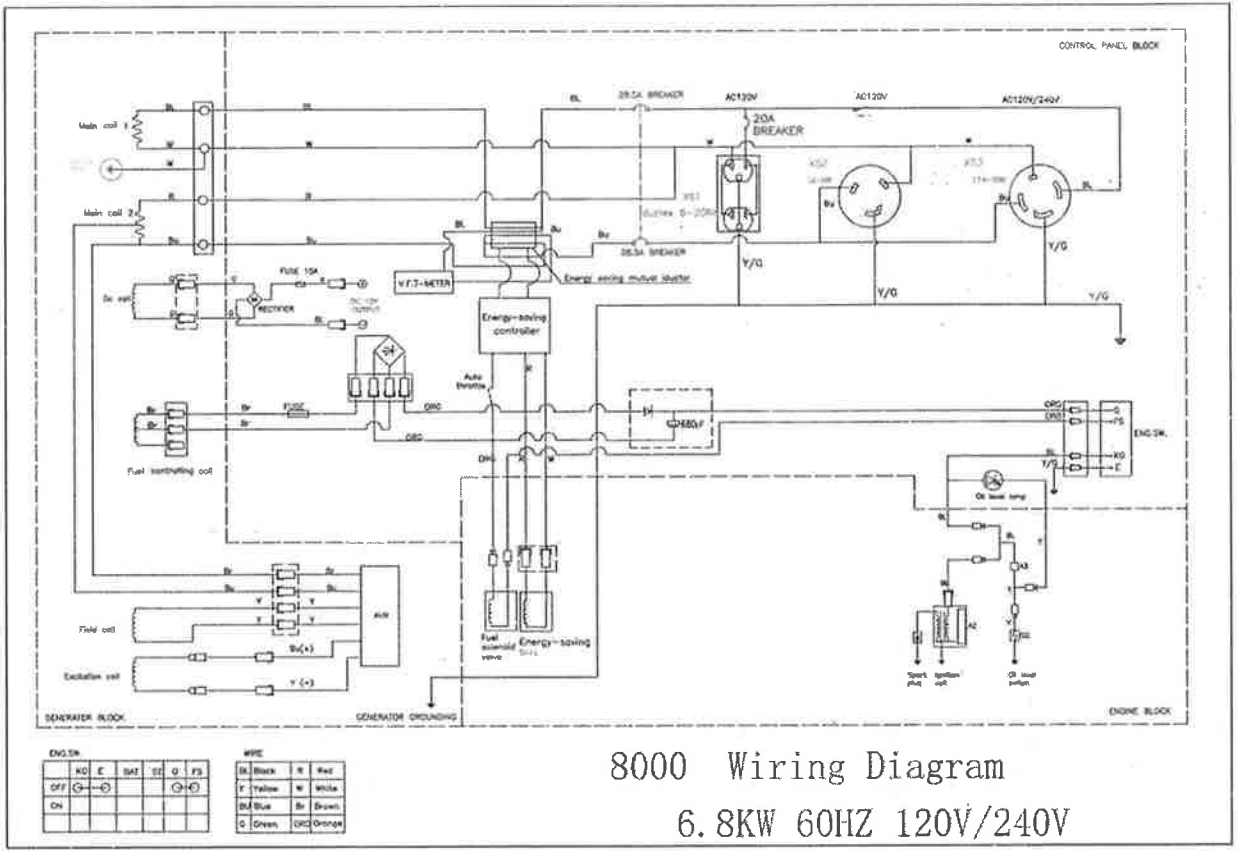
11. SPECIFICATONS

Model		5500/5500E	6500/6500E	8000/8000E	9000/9000E
Engine	Engine model	182F/182FD	188F/188FD	190F/190FD	192F/192FD
	Type	4-storke OHC single-cylinder gasoline engine with forced air-cooled			
	Displacement (cm^3)	337	389	420	370
	Maximum power output (kW/rpm)	6.4/3600	7.2/3600	8.5/3600	8.8/3600
	Ignition system	Non-contact transistor			
	Start system	Hand-operated & electric			
	Fuel tank capacity (L)	25	25	25	25
	Fuel consumption (L/hr)	2.45	2.7	3	3.6
	Duration of runs (h)	10	9	8	7
	Engine oil capacity (L)	1.1	1.1	1.1	1.1
	Noise (7 meters away) (dB)	≤72	≤74	≤75	≤78
Generator	Rated voltage (V)	120/240	120/240	120/240	120/240
	Rated frequency (Hz)	60	60	60	60
	Rated power (kVA)	5.0	6.0	6.8	7.5
	Max. power (kVA)	5.5	6.5	7.5	8.0
Generating set	Overall length (mm)	680			
	Overall length (mm)	510			
	Overall length (mm)	540			
	Dry mass (kg)	77/80	80/82	85/88	87/90
	IP Degree	IP23			

12. WIRING DIAGRAM

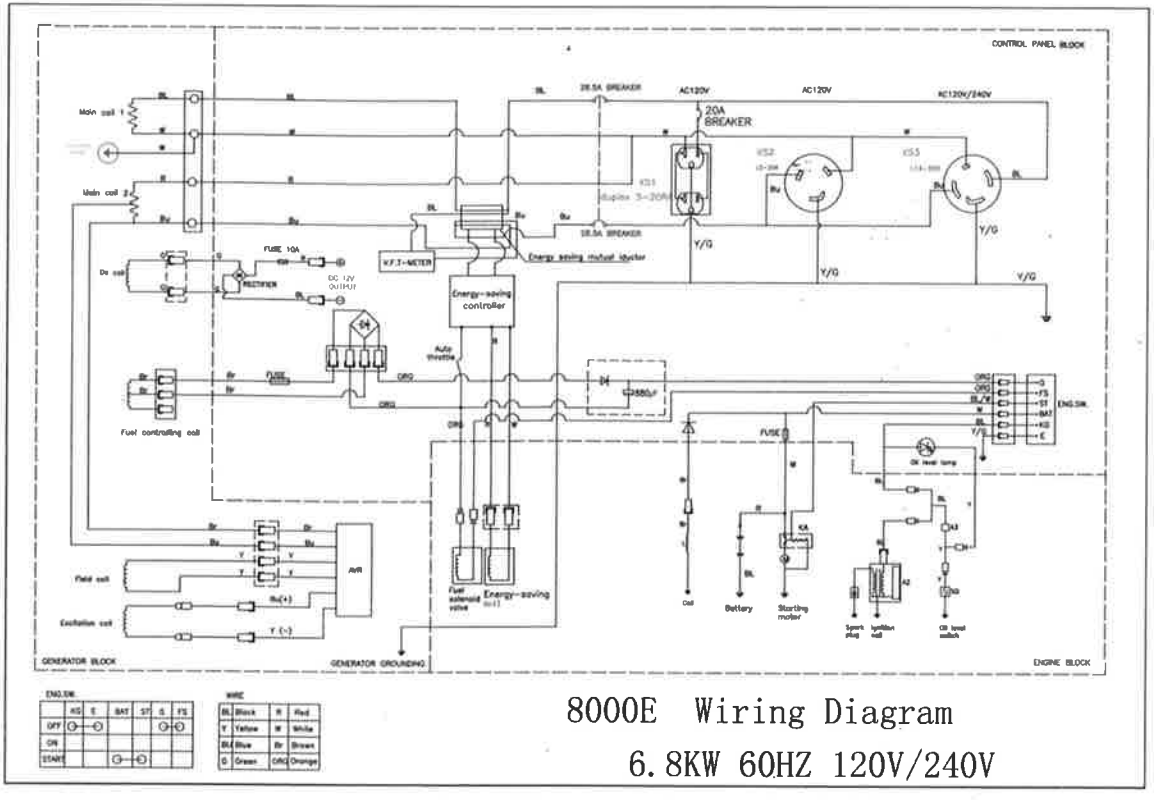



CONTROL PANEL BLOCK
AC120V
AC120V
AC120V/240V
20A BREAKER
Energy-saving controller
Fuel controlling coil
Field coil
Excitation coil
Fuel solenoid valve
Energy-saving coil
Battery
Starting motor
GENERATOR BLOCK
GENERATOR GROUNDING
ENGINE BLOCK
6500E Wiring Diagram
6KW 60HZ 120V/240V



8000 Wiring Diagram

6.8KW 60HZ 120V/240V



NOTE: THERE IS PERMANENT CONDUCTOR BETWEEN THE GENERATOR (STATOR WINDING) AND THE FRAME, OR EQUIVALENT;