# OPERATING INSTRUCTIONS FOR GASOLINE GENERATOR SET

G3500E(3500W)

# 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, etc.

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 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

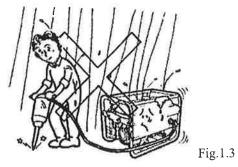
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## I . GENERATOR SAFETY

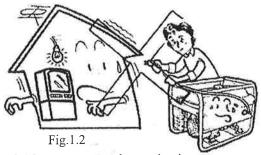


1. Never operate it in an enclosed room.

Fig.1.1



3. Do not operate it under wet circumstances.



2. Never connect to home circuit.

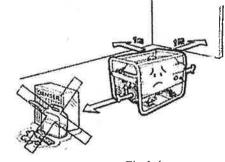


Fig.1.4

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

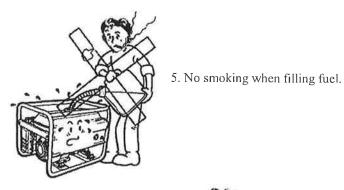






Fig.1.7 7. Do not spill out when filling fuel.

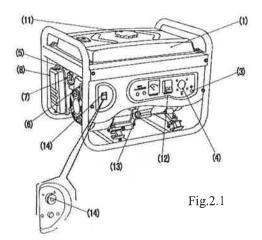


Fig.1.6 6. Always fill fuel after stopping it.

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

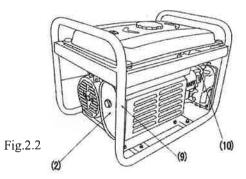
, or equivalent

# **II**. NITRODUCTION TO PARTS AND COMPÓNENTS



- 11. Fuel filler cap
- 12. AC breaker
- 13. Dipstick
- 14. Ignition switch

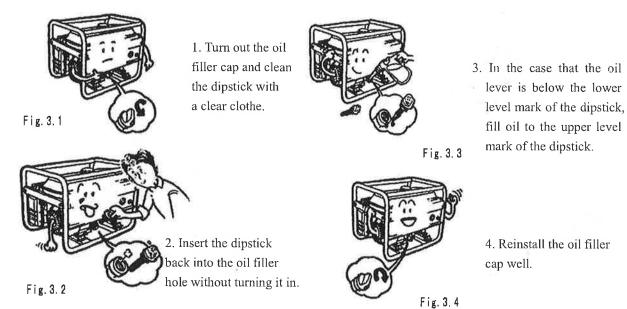
- 1. Fuel tank
- 2. Muffler
- 3. Earth terminal
- 4. AC plug socket
- 5. Carburetor choke lever
- 6. Starter handle
- 7. Fuel cock
- 8. Air cleaner
- 9. Pipe frame
- 10. Spark plug



# $\blacksquare$ . PRE-OPERATING INSPECTION

### 1. ENGINE-OIL LEVEL

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



### 2. FUEL LEVER



Fig. 3. 5

5. Open the fuel filler cap.



Fig. 3. 7 7. Fill fuel to the shoulder of the filter.

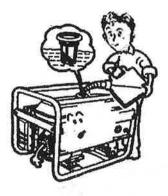


Fig. 3.6

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

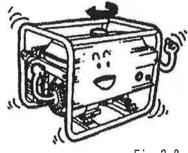
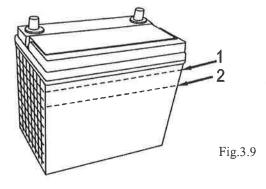


Fig. 3. 8

8. Reinstall the fuel filler cap well.

### **3. BATTERY (only for Electric)**

Check and make sure that the electrolyte level of each battery cell is <u>between</u> is upper and lower level marks (Fig.20).





### 4. AIR CLEANER

1. Remove the clip and dismantle the air housing or turn off the wing nuts and air cleaner cover

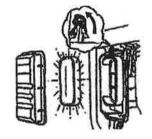
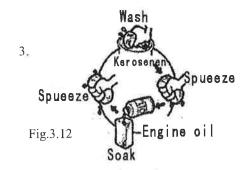


Fig.3.10

2. Dismantle the filter element.







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

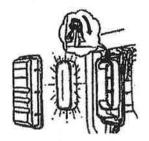


Fig.3.13

# **IV. STARTING THE GENERATOR**

1. Remove all loads form AC socket and switch off the AC breaker. Remove all loads from AC socket.

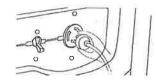


Fig.4.1

2. Set the fuel cock to "ON"



Fig.4.2

3. Push the choke lever to "OFF"

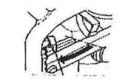
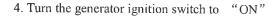
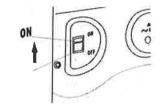
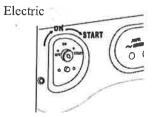


Fig.4.3









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

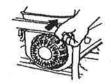
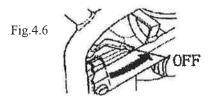


Fig.4.5

6. Once the generator starts, set the choke lever to "OFF"



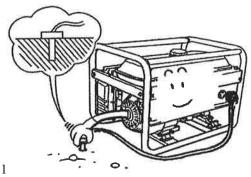
NOTE: Don't close the choke when starting the engine in hot condition.

# V. SERVICE

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

# **WARNING**

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

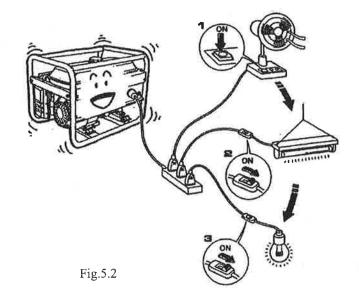




#### Wattage Example Description Typified Start Rating Electric device Start Rating Incandescent lamp Incandescent lamp Incandescent lamp 8 100VA 100VA Heating device $\times 1$ 8 100W (W) (W) O ΤV Fluorescent lamp Fluorescent lamp Fluorescent lamp 0 80VA 60VA $\times 2$ ×1.5 40W (W) (W) Refrigerator Refrigerator F drive Motor 300VA 450~750VA ×3~5 ×2 device (W) (W) P Electric fan 150W

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

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.



# WARNING

Do not use AC and DC at the same time.

**WARNING** 

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

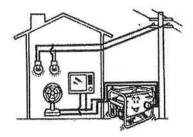


Fig.5.3 Correct

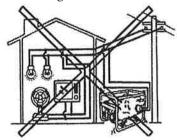


Fig.5.4 Forbidden

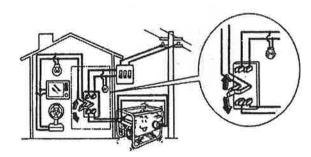
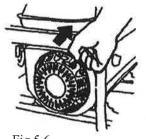


Fig.5.5 Correct

# 4. USE INSTRUCTION WHEN PROVIDING ALTERATIVE CURRENT SUPPLY

1. Start the generator



- Fig.5.6
- 2. Connect devices





3. Switch on the AC breaker.

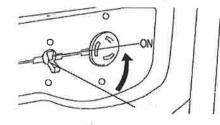
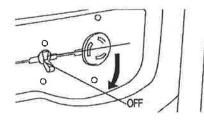


Fig.5.8

# **VI. STOPPING THE ENGINE**

1. Switch off the AC breaker.



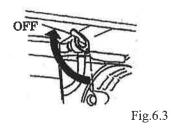


- 2. Turn the ignition switch to "OFF"
- ~ OFF Electric

Fig.6.2



3. Set the fuel cock to "OFF"



NOTE: To stop the generator in an emergency, turn the ignition switch to "OFF"

### **VII. MAINTERNANCE**

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

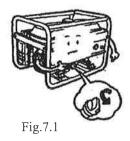
PERIOD		0	1	8		<b>@</b>	
ITEM	/	<u>YQ</u>	Or first month	Or every 3 months	Or every 6 months	Or every one Year	Ref. page
Engine oil check	<b>1</b>	Check					P.9
Replace engine oil			Replace		Replace		P.20
Air cleaner check		Check		C	1		P.11
Air cleaner wash	0 9			Clean			P.11
Oil filter cup	9				Clean		P.22
Oil filter cup filter	÷				Clean		P.22
Spark plug	ALCON				Clean		P.21
Valve clearance						Check, readjust	-
Cylinder cover wash	9					Clean	0 <b>0</b> 00
Fuel tank wash	P	Replace every 3-year					-

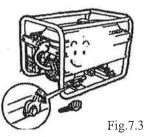
### **1. REPLACEMENT OF ENGINE OIL**

1. Turn and then take out the dipstick.

3. Screw on the drain plug.







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

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

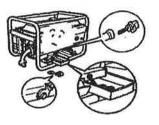


Fig.7.2



Engine oil:4-stoke gasoline engine oil engine oil Class SE, SE from API Service Classification or SAE10W-30 engine oil equivalent to Class SG.

Fig.7.5

Low air temperature(blow 10°C) Engine oil recommended:SAE10W-30 Frigid air temperature(blow-15°C) Engine oil recommended:

Class SE, SF from API Service Classification or SAE10W-30 engine oil equivalent to Class SG.

### 2. MAINTENANCE OF AIR CLEANER (SEE ABOVE-MENTIONED)

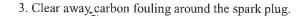
# 3. SPARK PLUG

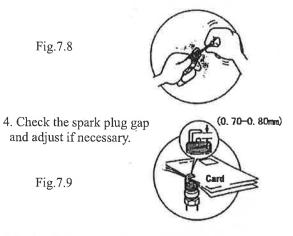
Fig.7.6

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

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

Fig.7.7





5. Reinstall the spark plug and cap well.

Fig.7.10



### 4. MAINTENANCE OF FUEL FIL TER

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

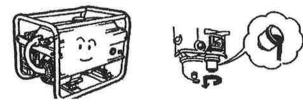


Fig.7.11

2. Clean the fuel filter cup thoroughly by blowing off in the reverse direction of the arrowhead.

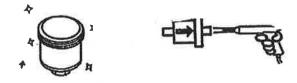


Fig.7.12

3. Fit a new rubber ring to position and mount the filter cup securely.



Fig.7.13

# **VIII. STORAGE**

During long-term storage of the unit which are not

1. Set the fuel cock to "OFF", turn off the filter cap and empty the fuel inside.

Fig.8.1

Fig.8.2



2. Set the fuel cock to "ON", and empty the fuel from the fuel tank.



3. Replace the rubber ring with a new one and than turn right the filter cup.



Fig.8.3



from the carburetor.

Fig.8.4



4. Screw off the fuel drain plug, and empty the fuel

5. Turn off the oil filler plug and oil drain plug, and discharge the engine oil from the crankcase.

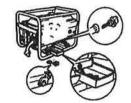


Fig.8.5

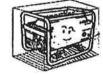
kept in use, carry out procedures as follows;

6. Reinstall the oil drain plug, and then fill engine oil \* 8. Place the unit in the clean area. to the upper level mark of the dipstick.

Fig.8.6



Fig.8.8



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



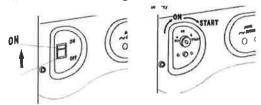
Fig.8.7

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### IX. TROUBLESHOOTING

(1) TROUBLE: the generator fails to start.

1. Check to see of the generator 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.

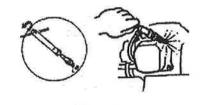


Fig.9.4

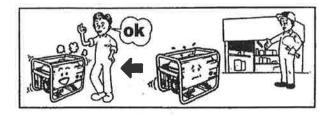
5. If the generator set if still out of work, see you. dealer for help.





Fig.9.2

Fig.9.3





(2) TROUBLE: The unit fails to generator electricity.1. Check the light bulb.



Fig.9.6

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

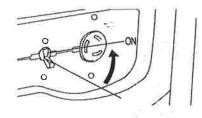


Fig.9.7

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

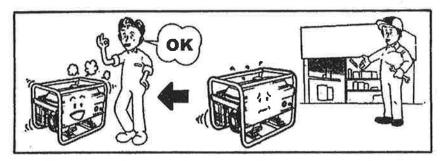
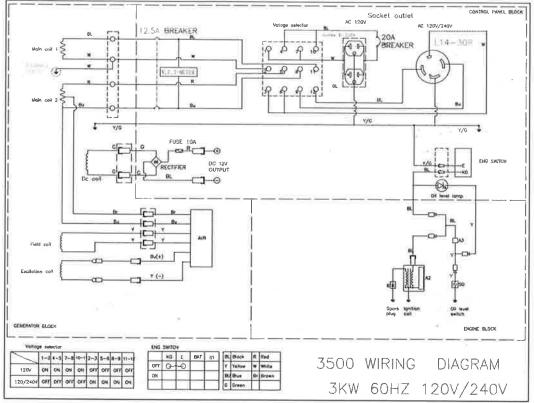
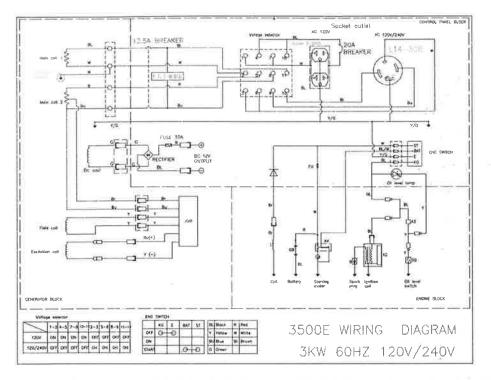


Fig.9.8

### X. WIRING DIAGRAM





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

# XI. SPECIFICATONS

Model		2200/2200E	2500/2500E	3500/3500E	4000/4000E		
	Engine model	168F	168F-2		170F		
	Туре	4-stroke, OHV, single cylinder gasoline engine with forced air-cooled					
	Displacement (cm <sup>3</sup> )	163	196		212		
	Maximum power output (kW/rpm)	3.4/3600	4.8/3600				
Engine	Ignition system	Non-contact transistor					
	Start system	Hand-operated					
	Fuel tank capacity (L)	15					
	Fuel consumption (L/hr)	0.9	1.2		1.48		
	Duration of runs (h)	15	1	10			
	Engine oil capacity (L)	0.6					
	Noise (7 meters away) (dB)	≤63	≤63	≤67	≤65		
Generator	Rated voltage (V)	120/240					
	Rated frequency (Hz)	60					
	Rated power (kVA)	2.0	2.5	3.0	3.2		
	Max. power (kVA)	2.2	2.7	3.5	3.7		
Generating set	Overall length (mm)	590					
	Overall length (mm)	435					
	Overall length (mm)	435					
	Dry mass (kg)	45/47	46/48	47/49	47/49		
	IP Degree	IP23					

K-1641-1