OPERATING INSTRUCTIONS FOR GASOLINE GENERATOR SET

G3500(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

I . GENERATOR SAFETY	
II. NITRODUCTION TO PARTS AND COMPONENTS	
III. PRE-OPERATING INSPECTION	
IV. STARTING THE GENERATOR	
V. SERVICE	
VI. STOPPING THE ENGINE	16
VII. MAINTERNANCE	
VII. STORAGE	21
IX. TROUBLESHOOTING	24
X. WIRING DIAGRAM	25
XI. SPECIFICATONS	

I . GENERATOR SAFETY



1. Never operate it in an enclosed room.

Fig.1.1

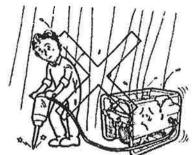


Fig.1.3

3. Do not operate it under wet circumstances.



2. Never connect to home circuit.

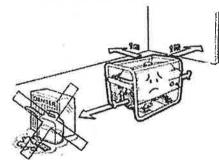


Fig.1.4

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



5. No smoking when filling fuel.

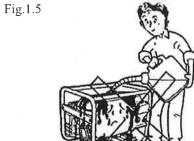


Fig.1.7
7. Do not spill out when filling fuel.

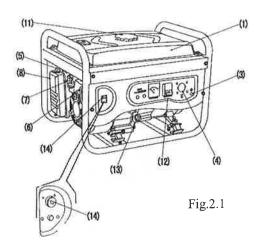


Fig.1.6
6. Always fill fuel after stopping it.

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

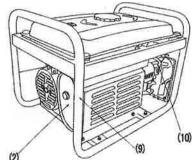
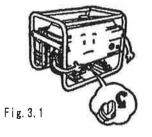


Fig.2.2

III. PRE-OPERATING INSPECTION

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.

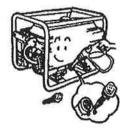
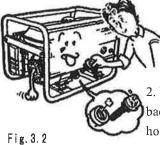


Fig. 3.3

3. In the case that the oil lever 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.

Fig. 3. 4

4. Reinstall the oil filler cap well.

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.

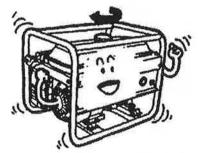
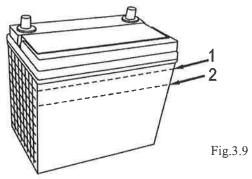


Fig. 3.8

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).



1. upper level mark

2. lower lever mark

4. AIR CLEANER

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

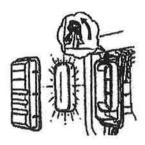
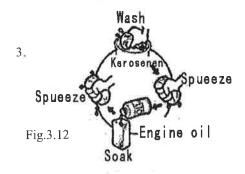


Fig.3.10
2. Dismantle the filter element.



Fig.3.11



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

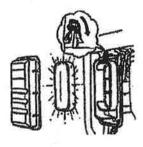


Fig.3.13

IV. STARTING THE GENERATOR

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

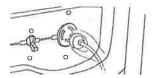


Fig.4.1

2. Set the fuel cock to "ON"



Fig.4.2

3. Push the choke lever to "OFF"

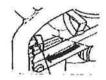


Fig.4.3

4. Turn the generator ignition switch to "ON"

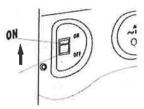
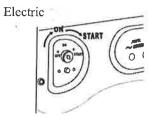


Fig.4.4

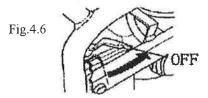


5. Pull the start handle gentling until feeling an anti-action, and then pull it up strongly.



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.

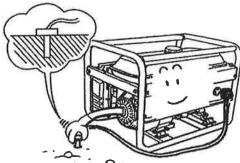
V. SERVICE

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



M WARNING

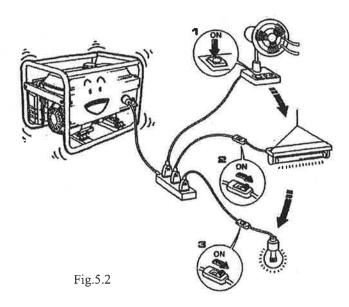
1. Always connect the generator to the earth to prevent misusing.



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

Description	Wattage		T : 6: J	Example		
Description	Start	Rating	Typified	Electric device	Start	Rating
Incandescent lampHeating device		×1	Incandescent lamp TV	Incandescent lamp	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.



WARNING

Do not use AC and DC at the same time.



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.

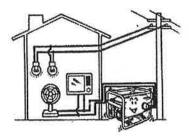


Fig.5.3 Correct

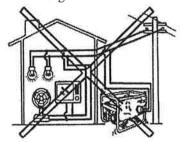


Fig.5.4 Forbidden

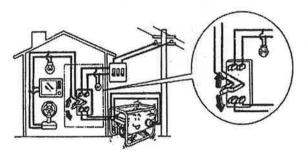


Fig.5.5 Correct

4. USE INSTRUCTION WHEN PROVIDING ALTERATIVE CURRENT SUPPLY

1. Start the generator



Fig.5.6

2. Connect devices



Fig.5.7

3. Switch on the AC breaker.

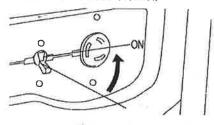


Fig.5.8

VI. STOPPING THE ENGINE

1. Switch off the AC breaker.

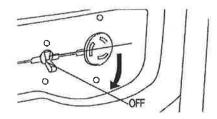
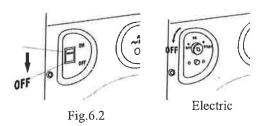


Fig.6.1

2. Turn the ignition switch to "OFF"



3. Set the fuel cock to "OFF"

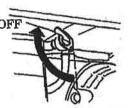


Fig.6.3

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:

PERIO	DD	ρ.	69	8	9	9	
ITEM		Ĭ <u>a</u>	Or first month	Or every 3 months	Or every 6 months	Or every one Year	Ref. page
Engine oil check		Check					P.9
Replace engine oil			Replace		Replace	-	P.20
Air cleaner check		Check					P.11
Air cleaner wash	00			Clean			P.11
Oil filter cup	9				Clean		P.22
Oil filter cup filter	₽				Clean		P.22
Spark plug	ALL THE				Clean		P.21
Valve clearance	H					Check, readjust	0 =
Cylinder cover wash	9					Clean	((=)
Fuel tank wash	OF.					ner	

1. REPLACEMENT OF ENGINE OIL

- 1. Turn and then take out the dipstick.
- 3. Screw on the drain plug.
- 5. Reinstall the dipstick.

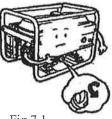


Fig.7.1

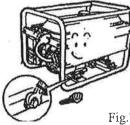
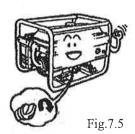


Fig.7.3



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

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

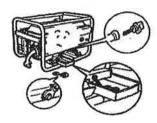


Fig.7.2



Fig.7.4

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.

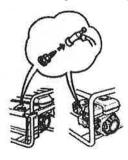
Low air temperature(blow 10°C) Engine oil recommended:SAE10W-30 Frigid air temperature(blow-15°C) Engine oil recommended: Class SE, SF from API Service Classification or SAE10W-30 engine oil equivalent to Class SG.

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

3. SPARK PLUG

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

Fig.7.6



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



Fig.7.7



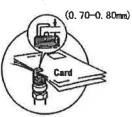
3. Clear away carbon fouling around the spark plug.

Fig.7.8



4. Check the spark plug gap and adjust if necessary.

Fig.7.9



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.

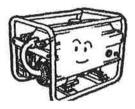




Fig.7.11

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



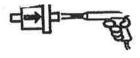


Fig.7.12

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



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

Fig.8.2



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

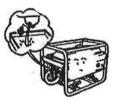
Fig.8.3



kept in use, carry out procedures as follows;

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

Fig.8.4



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

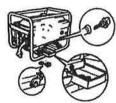


Fig.8.5

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



IX. TROUBLESHOOTING

- (1) TROUBLE: the generator fails to start.
- 1. Check to see of the generator switch is at "ON"

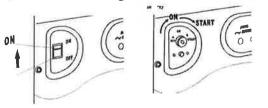


Fig.9.1

- 2. Check engine oil level.
- 3. Check the fuel inside tank..



Fig.9.2

Fig.9.3

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

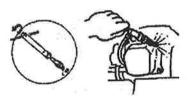


Fig.9.4

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

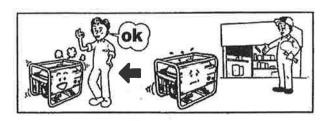


Fig.9.5

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





Fig.9.6

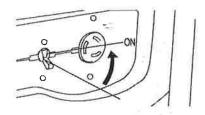


Fig.9.7

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

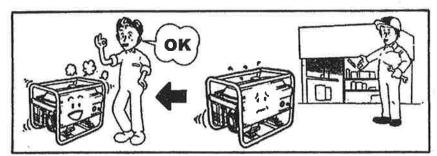
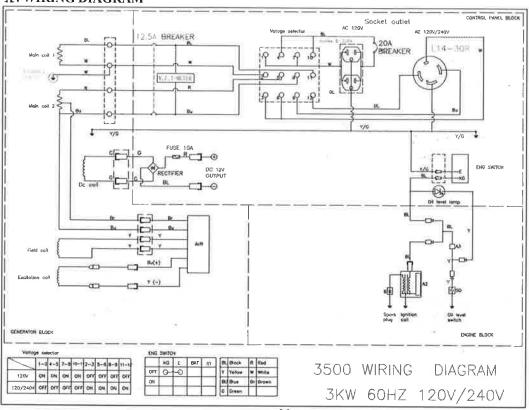
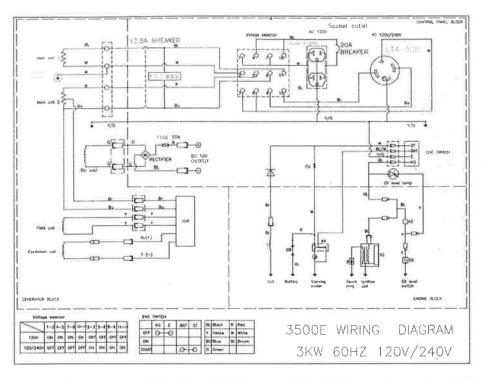


Fig.9.8

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	
Engine	Туре	4-stroke, OHV, single cylinder gasolin with forced air-cooled			ne engine	
	Displacement (cm ³)	163	196		212	
	Maximum power output (kW/rpm)	3.4/3600	4.8/3600			
	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	12		10	
	Engine oil capacity (L)	0.6				
	Noise (7 meters away) (dB)	≤63	≤63	€67	≤65	
	Rated voltage (V)	120/240				
Generator	Rated frequency (Hz)	60				
Generator	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				