OPERATION MANUAL

PLEASE READ THIS MANUAL CAREFULLY.
IT CONTAINS IMPORTANT SAFETY INFORMATION.



INVERTER GENERATOR SET

GL3700

PREFACE

Thank you for purchasing our generators.

This manual covers operation and maintenance of the RIG3500 generator.

All information in this publication is based on the latest product information available at the time of approval for printing.

We reserve the right to make changes at any time without notice and without incurring any obligation.

No part of this publication may be reproduced without written permission.

This manual should be considered a permanent part of the generator and should remain with it if it is resold.

Pay special attention to statements preceded by the following words;



Failure to properly follow these precautions can result in property damage, serious injury or DEATH!

Read all labels and the owner's manual before operating this generator.

Operate only in well ventilated areas. Exhaust gas contains poisonous carbon monoxide, and can be deadly. Always stop engine before refueling. Wait 5 minutes before restarting.

Check for spilled fuel or leaks. Clean and/or repair before use.

Keep any sources of ignition away from fuel tank, at all times



Indicates a strong possibility of severe personal injury or death if instructions are not followed.



Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information.

If a problem should arise, or if you have any questions about the generator, consult an authorized dealer.



Our generators are designed to give safe and dependable service if operated according to instructions. Read and understand the Owner's Manual before operating the generator. Failure to do so could result in personal injury or equipment damage.

■ The illustration may vary according to the type.

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13. APPENDIX

Power Derating

Test conditions:

Altitude: =1000 m Ambient temperature: 5~25°C Relative humidity: 30%

If the genset is used in ambient conditions other than the test conditions, suitable adjustments must be made for these differences. Please refer to the following power derating table:

Power derating factor: C (@30% relative humidity).

Altitude	Ambient temperature (°C)				
(m)	25	30	35	40	45
1000	1	0.97	0.94	0.91	0.87
2000	0.87	0.84	0.81	0.78	0.74
3000	0.73	0.7	0.67	0.64	0.60
4000	0.60	0.57	0.54	0.51	0.47

Note:

(1) The power derating factor is C-0.01 @ 60% relative humidity
The power derating factor is C-0.02 @ 80% relative humidity
The power derating factor is C-0.03 @ 90% relative humidity
The power derating factor is C-0.04 @ 100% relative humidity

- (2) When the altitude is above 4000 meters, the power derates 4% for every 300 meters
- - When the ambient temperature is above 40 $\!\wp$, the power derates 4% for every 5 $\!\wp$ increase in temperature
- (4) When the ambient temperature is lower than 5\$\mathcal{\nabla}\$, the power derates 3% for every 5\$\mathcal{\nabla}\$ drop in temperature. Use heating equipment such as space heaters, water jacket heaters, fuel heaters, block heaters, etc. to raise the temperature.

For example:

The rated power of the genset is 20kW ($P_{\scriptscriptstyle N}$) in test conditions. To determine the power if the altitude is 2000 meters, the ambient temperature 40 \wp and the relative humidity is 80%:

The rated power is P=PN \times (C-0.02) =20 \times (0.78-0.02) = 15.2kW

1. SAFETY INSTRUCTIONS



Operate carefully and make sure users and others safety.

A WARNING

Our generators are designed to give safe and dependable service if operated according to instructions.
Read and understand the Owner's Manual before operating the generator. Failure to do so could result in personal injury or equipment damage.

A WARNING

■Exhaust gas contains poisonous carbon monoxide.

Never run the generator in an enclosed area.

Be sure to provide adequate ventilation.

When installed in ventilated protection are to be observed.

MARNING

- 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.
- The engine exhaust system will be heated during operation and remain hot immediately after stopping the engine.

To prevent scalding, pay attention to the warning marks attached to the generator.

A WARNING

- Gasoline is extremely flammable and explosive under certain conditions. Refuel in a well ventilated area with the engine stopped.
- Keep away from cigarette, smoke and sparks when re-fueling the generator. Always refuel in a well-ventilated location.
- Wipe up spilled gasoline at once.
- Restrict application of generator in high-hazard risk to causing fire area.

A WARNING

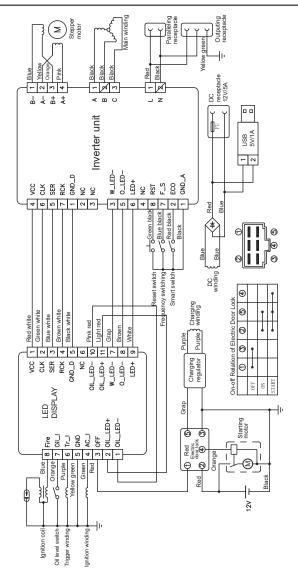
■ Connections for standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute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

A WARNING

- Always make a pre-operation inspection before you start the engine. You may prevent an accident or equipment damage.
- Place the generator at least 1m(3ft) away from buildings or other equipment during operation.
- ■Operate the generator on a level surface.

 If the generator is tiled, fuel spillage may result.
- ■Know how to stop the generator quickly and understand operation of all the controls. Never permit anyone to operate the generator without proper instructions.
- ■Keep children and pets away from the generator when it is in operation.
- ■Keep away from rotating parts while the generator is running.
- The generator is a potential source of electrical shocks when misused; do not operate with wet hands.
- ■Do not operate the generator in rain or snow and do not let it get wet.

12. ELECTRIC DIAGRAM



11. SPECIFICATIONS

SPECIFICATIONS

Model	RIG3500			
Rated frequency (Hz)	50 60 60			
Rated voltage (V)	230	120	240	
Rated current (A)	15.2	29.1	14.6	
Rated rotation speed [r/min]	3600			
Rated output (kVA)	3.5			
Max. output (kVA)		3.8		

DC output

DC voltage	12V-5A
Fuse	With
Phase number	Single phase
USB charging	5V-1A

Engine

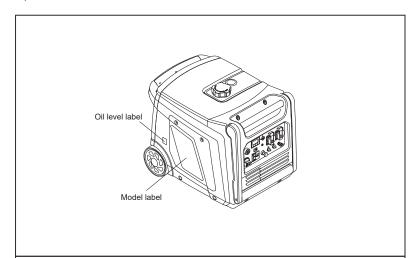
Model Type RG170F	
Туре	Single cylinder,air-cooled, 4 stroke, OHV, gasoline engine
Displacement (Bore × Stroke)	212ml (70X55)
Compression ratio	8.5:1
Rated power [kW/(r/min)]	4.5/3600
Rated rotation speed [rpm]	3600
Ignition system	T.C.I
Spark plug	TORCH F7RTC
Starting system	Electric starter&recoil starter
Fuel	Automotive unleaded gasoline
Fuel consumption (g/kW.h)	395
Lube oil	SAE10W-30(CC grade above)

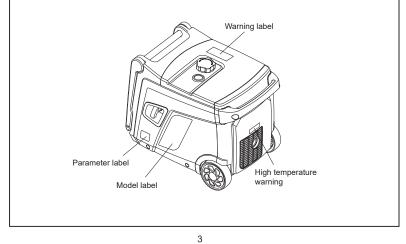
Fuel tank capacity (L)	13
Continuous running time (hr) (at rated output)	6.3
Noise level (zero load-full load) [dB(A)/7m]	60-65
Overall dimension (L×W×H) [mm(in)]	645x430x520
Dry weight [kg(lbs)]	41

32

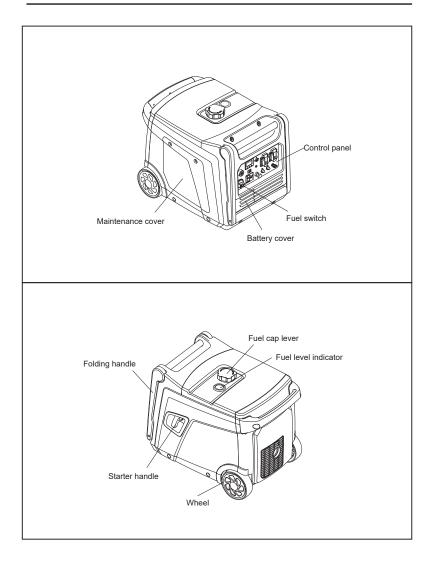
2. SAFETY LABEL LOCATIONS

These lables warn you of potential hazards that can cause serious injury. Read the labels and safety notes and precautions described in this manual carefully. If a label comes off or becomes hard to read, contact your dealer for a replacement.

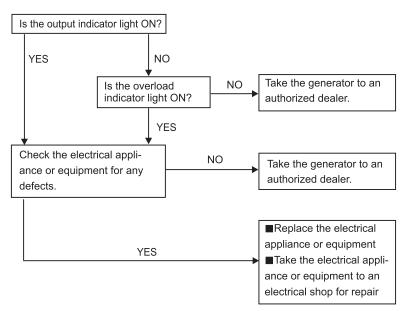




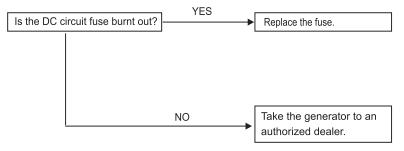
3.COMPONENT IDENTIFICATION



Appliance does not operate:



No electricity at the DC receptacle:



10.TROUBLESHOOTING

When the engine will not start: NO Is there fuel in the tank? Refill the fuel tank. YES Is the engine switch on? Turn the engine switch on. YES Add the recommended oil. Is there enough oil in the engine? YES Still no Take the generator to Is there a spark from Replace the spark an authorized dealer. the spark plug? spark plug.



■ Be sure there is no spilled fuel around the spark pulg. Spilled fuel may ignite.

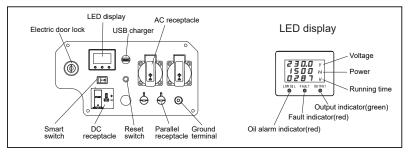
Is the fuel reaching the carburetor.

If the engine still does not start, take the generator to an authorized dealer.

To check:

- 1)Remove the spark plug cap and clean any dirt from around the spark plug.
- 2)Remove the spark plug and install the spark plug in the plug cap.
- 3)Set the plug side electrode on the cylinder head to ground.
- 4)Pull the recoil starter, sparks should jump across the gap.

Control panel



Reset button

When the alert indicator (red) is on, cut off the load output, press the RESET button; when alert indicator (red) is off and output indicator (green) is on, reconnect the load to the generator after load fault is solved.

USB charger: 5V 1A output

Parallel receptacle

The parallel cabinet can be connected with the parallel socket when the generator set needs a increasing of parallel output power.

SMART throttle

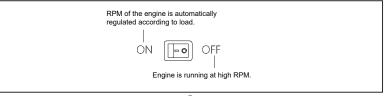
Engine speed is kept at idle automatically when the electrical appliance is disconnected and it returns to the proper speed to power of the electrical load when electrical appliance is connected. This position is recommended to minimize the fuel consumption while in operation.

A NOTE

- Smart throttle system does not operate effectively if the electrical appliance requires the big electric power.
- When high electrical loads are connected simultaneously turn the smart throttle switch to the OFF position to re-duce voltage changes.
- In DC charging, turn the smart throttle switch to the OFF position.

OFF:

Note: Smart throttle system does not operate. Engine speed is kept at thighspeed lever..



4.PRE-OPERATION CHECK

A CAUTION

■ Be sure to check the generator on a level surface with the engine stopped.

1. Check the engine oil level.

A CAUTION

- Using nondetergent oil or 2-stroke engine oil could shorten the engine's service life.
- Use a high-detergent, premium quality 4-stroke engine oil, certified to meet or exceed U.S. automobile manufacturer's requirements for API Service Classification SE/SF.
- Select the appropriate viscosity for the average temperature in your area.

SAE Viscosity Grades

Ambient temperature	Engine oil type
-25℃-30℃	10W-30
-15℃-40℃	15W-40

A CAUTION

- Store and use the oil carefully in order to prevent dust or dirty flowing into the oil. If oil is overfilled, wipe it up at once.
- Never mix different kinds of oil.

Loosen the cover screw and remove the left side maintenance cover.

Remove the oil filler cap, and wipe the dipstick with a clean rag. 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.

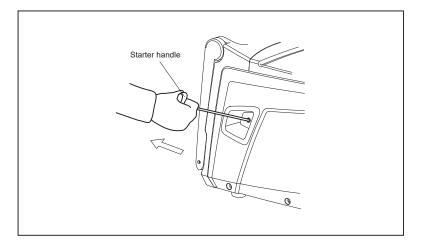
A NOTE

- Running the engine with insufficient oil can cause serious engine damage.
- The Low Oil Alarm System will automatically stop the engine before the oil levelfalls below the safe limit. However, to avoid the inconvenience of an unexpected shutdown, it is still advisable to visually inspect the oil level regularly.

- a. Drain all gasoline from the fuel tank into an approved gasoline container.
- b. Turn the engine switch ON, and loosen the carburetor drain screw and drain the gasoline from the carburetor into a suitable container.
- c. With the drain screw loosened remove the spark plug cap, and pull the starter grip 3 to 4 times to drain the gasoline from the fuel pump.
- d. Turn the engine switch to the OFF position, and tighten the drain screw securely.
- e. Reinstall the spark plug cap on the spark plug
- 3. Change the engine oil.
- 4. Remove the spark plug and pour about a tablespoon of clean engine oil into the cylinder.

Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.

5.Slowly pull the starter grip until resistance is felt. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to protect it from internal corrosion.



9.TRANSPORTING/STORAGE

To prevent fuel spillage when transporting or during temporary storage, the generator should be secured upright in its normal operating position, with the engine switch OFF. Turn the cap lever fully counterclockwise to the "OFF" position.

A WARNING

When transporting the generator:

- Do not overfill the tank (there should be no fuel in the filler neck)
- Do not operate the generator while it is on a vehicle.

 Take the generator off the vehicle and use it in a well ventilated place.
- Avoid a place exposed to direct sunlight when putting the generator on a vehicle. If the generator is left in an enclosed vehicle for many hours, high temperature in-side the vehicle could cause fuel to vaporize resulting in a possible explosion.

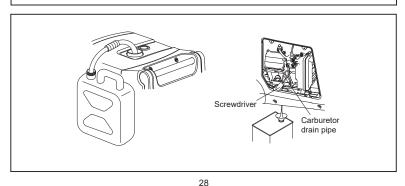
Do not drive on a rough road for an extended period with the generator on board, if you must transport the generator on a rough road, drain the fuel from the generator beforehand.

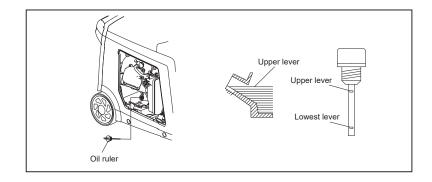
Before storing the unit for an extended period:

- 1. Be sure the storage area is free of excessive humidity and dust.
- 2. Drain out the fuel completely.

WARNING

- Gasoline is extremely flammable and explosive under certain conditions.
- Do not smoke or allow flames or sparks in the area.





2.Check the fuel level.

Use automotive gasoline (Unleaded or lowleaded is preferred to minimize combustion chamber deposits).

If the fuel level is low, refuel the fuel tank until the level as specified.

Never use an oil/gasoline mixture or dirty gasoline.

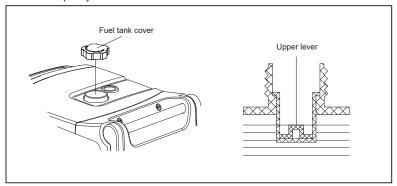
Avoid getting dirt, dust or water in the fuel tank.

After refueling, tighten the oil rule seurely.

WARNING

- Gasoline is extremely flammable and is explosive und-er certain conditions.
- Refuel in a well-ventilated area with the engine stopped.
- Do not smoke or alow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank (there should be no fuel above the upper limit mark). After refueling, make sure the tank cap is closed properly and securely.
- Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite, if any fuel is spilled, make sure the area is dry before starting the engine.

Fuel tank capacity: 13 L



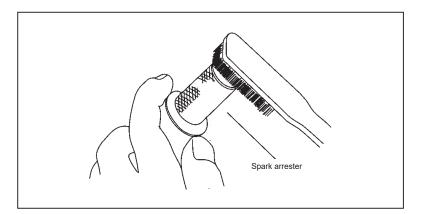
Gasoline containing alcohol

If you decide to use a generator containing alcohol (gasohol), be sure it's octane rating is at least as high as that recommended by us. There are two types of gasohol: one containing ethanol, and the other containing methanol. Do not use gasohol that contains more than 10% ethanol. Do not use gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

A NOTE

- ■Fuel system damage or engine performance problems resulting from the use of fuel that contain alcohol is not covered under the warranty. We cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
- ■Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol. If it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, replace it by a gasoline that you know does not contain alcohol.

2.Use a brush to remove carbon deposits from the spark arrester screen.



4.SPARK ARRESTER MAINTENANCE(Equipped type only)

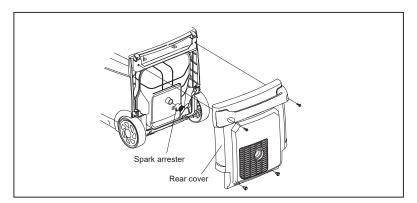
WARNING

■ If the generator has been running, the muffler will be very hot. Allow it to cool before proceeding.

CAUTION

■ The spark arrester must be serviced every 100 hours to maintain its efficiency.

(1) Remove the four M6 screws, and remove rear cover, then remove spark arrester.



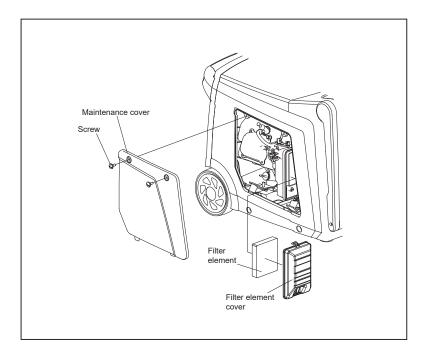
3.Check the air cleaner.

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

Loosen the cover screw and remove the left side maintenance cover. Press the latch tab on the top of the air cleaner body, remove the air cleaner cover, check the element. Clean or replace the element if necessary.

A CAUTION

■ Never run the engine without the air cleaner. Rapid engine wear will result from contaminants, such as dust and dirt, being drawn through the carburetor, into the engine.

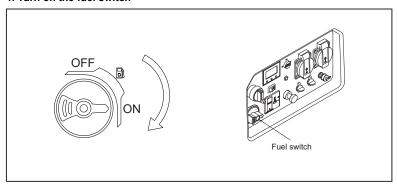


5.STARTING THE ENGINE

A NOTE

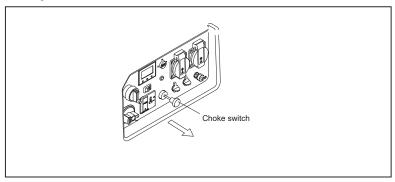
- ■Before starting the engine, disconnect the load from the DC terminals.
- ■When starting the generator after adding fuel for the first time or after long term storage, or after running out of fuel, turn the fuel valve lever to the "ON" position, then wait for 10 to 20 seconds before starting the engine.

1. Turn on the fuel switch



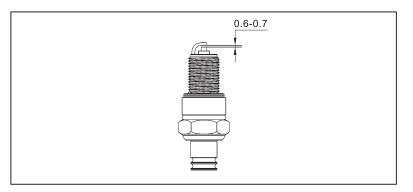
2. Close the choke

Note: Do not close the choke when the engine is hot or the ambient temperature is high.



- 5.Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
- 6.Measure the plug gap with a feeler gauge.

The gap should be 0.6-0.7mm(0.024-0.028in). Correct as necessary by carefully bending the side electrode.



A CAUTION

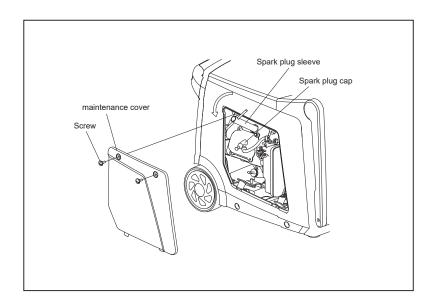
- The spark plug must be securely tightened.An improperly tightened plug can become very hot and possibly damage the generator. Never use a spark plug with an improper heat range.
- 7.Install the spark plug carefully, by hand, to avoid cross-threading.
- 8.After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress its washer.
- If a used plug is being reinstalled, it should only require 1/8 to 1/4 turn after being seated.
- 9.Reinstall the spark plug cap on the spark plug securely.
- 10.Close the left maintenance cover.

3.SPARK PLUG SERVICE

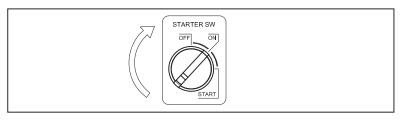
RECOMMENTED SPARK PLUG: TORCH F7RTC

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

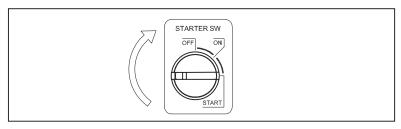
- 1.Remove the spark plug maintenance cover.
- 2. Remove the spark plug cap.
- 3. Clean any dirt from around the spark plug base.
- 4.Use the wrench to remove the spark plug.



3.Insert the start key, and turn to ON position



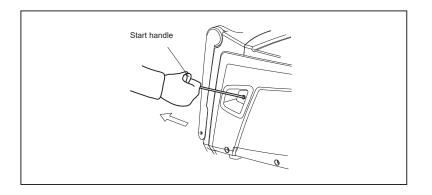
4.a Electric start: Turn the start key to START position and hold for a few seconds until the engine is started.



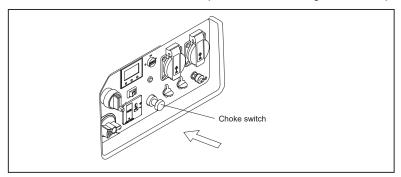
4.b Manual start: Hold the start handle and pull until you feel the tension, pull it quickly to the direction as shown by the arrow in the figure below, then gently release the start handle to its original position.

A CAUTION

■ Do not allow the starter grip to snap back, return it slowly by hand.



5. Move the choke lever to the RUN position after the engine warms up.



A CAUTION

■ If the engine stops and will not restart, check the engine oil level before troubleshooting in other areas.

High altitude operation

At high altitude, the standard carburetor air-fuel mixture will be excessively rich. Performance will decrease, and fuel consumption will increase.

High altitude performance can be improved by installing a smaller diameter main fuel jet in the carburetor and readjusting the pilot screws. If you always operate the generator at altitudes higher than 1,500m (5,000 feet) above sea level, have your authorized dealer perform these carburetor modifications.

Even with suitable carburetor jetting, engine horsepower will decrease approximately 3.5% for each 305m (1,000 feet) increase in altitude. The affect of altitude on the horsepower will be greater than this if no carburetor modification is made.

A CAUTION

■ Operation of the generator at an altitude lower than the carburetor is jetted for may result in reduced performance, overheating, and serious engine damage caused by an excessively lean air/fuel mixture.

2.AIR CLEANER SERVICE

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

■ Do not use gasoline or low flash point solvents for cleaning. They are flammable and explosive under certain conditions.

A CAUTION

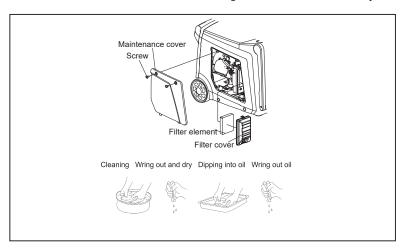
■ Do not run generator without air cleaner for causing engine accelerated

a.Loosen the cover screw and remove the left side maintenance cover.

b.Press the latch tab on the top of the air cleaner body, and remove the air cleaner cover

c.Wash the element in a non-flammable or high flash point solvent and dry it thoroughly.

- d. Soak the element in clean engine oil and squeeze out the excess oil.
- e.Reinstall the air cleaner element and the cover.
- f.Reinstall the left side maintenance cover and tighten the cover screw securely.

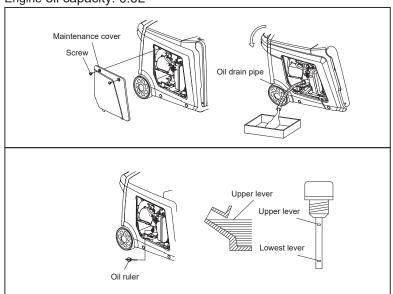


1.CHANGING OIL

Drain the oil while the engine is still warm to assure rapid and complete draining.

A CAUTION

- Make sure to turn the engine switch and the fuel cap lever OFF before draining.
- 1.Loosen the cover screw and remove the left side maintenance cover.
- 2.Remove the oil filler cap.
- 3. Drain dirty oil into a container thoroughly.
- 4. Refill with the recommended oil, and check the oil level.
- 5.Reinstall the left side maintenance cover and tighten the cover screw securely. Engine oil capacity: 0.6L



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

A NOTE

■ Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash or pour it on the ground.

6.GENERATOR USE

A WARNING

- To prevent electrical shock from faulty appliances, the generator should be grounded. Connect a length of heavy wire between the generator's ground terminal and an external ground source.
- Connections for standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can allow electrical current from the generator to backfeed into the utility lines. Such backfeed may electrocute utility company workers or others who contact the lines during a power outage, and when utility power is restored,the generator may explode, burn, or cause fires in the building's electrical system.

A CAUTION

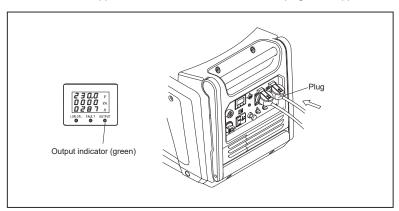
- Maximum power would be available for the first 30 minutes.
 For continuous operation,do not exceed the rated power. In either case, the total wattage of all appliances con-nected must be considered.
- Do not exceed the current limit specified for any one receptacle.
- Do not connect the generator to a household circuit. This could cause the damage to the generator or to electrical appliances in the house.
- Do not modify or use the generator for other purposes than it is intended for. Also observe the following when using the generator.
 - Do not connect an extension to the exhaust pipe.
- When an extension cable is required, be sure to use a tough rubber sheathed flexible cable. (IEC245DV equivalent)
- Limit length of extension cables; less than60 m for cables if 2.5mm² and less than100m for cables of 4 mm².
- Keep the generator away from other electric cables or wires such as commercial power supply lines.

A NOTE

- The DC receptacle can be used while the AC power is in use. If you use both at the same time, be sure not to exceed the total power for AC and DC.
- Electrical equipment (including electrical lines and plugs connection) could not be defective.

AC applications

- 1. Start the engine and make sure the output indicator light (green) comes on.
- 2. Confirm that the appliance to be used is switched off, and plug in the appliance.



A CAUTION

■ Be sure that all appliances are in good working order before connecting them to the generator. If an appli-ance begins to operate abnormally, becomes sluggish, or stops suddenly, turn off the generator engine switch immediately. Then disconnect the appliance, and examine it for signs of malfunction.

A CAUTION

In order to acquire both the best effect and the maximum service life of the generator. Usually, the new generator should run 20 hours under 50% load, the generator may reach the best performance.

3. Turn on the device switch

8.MAINTENANCE

The purpose of the maintenance and adjustment schedule is to keep the generator in the best operating condition.

WARNING

■ Shut off the engine before performing any maintenance. If the engine must be run, make sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas.

A CAUTION

■ Use genuine our parts or their equivalent. The use of replacement parts which are not of equivalent quality may damage the generator.

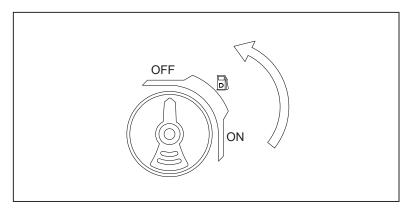
Maintenance Schedule

ITEM	REGULAR SERVICE PERIOD	EACH USE	FIRST MONTH OR 10HRS		EVERY 6 MONTHS OR 100 HRS	YEAR OR
Engine oil	Check	\bigcirc				
	Change		0		0	
Air cleaner	Check	0				
	Clean			(2)		
Spark plug	Clean-adjust				0	
Spark arrester	Clean				0	
Fuel sediment cup					0	
Valve clearance	Check-adjust					(3)
Fuel tank and strainer	Clean					(3)
Fuel line	Check	Every 2 years (Replace if necessary)(3)				

NOTE: (1) Log hours of operation to determine proper maintenance.

- (2) Service more frequently when used in dusty areas.
- (3)These items should be serviced by an authorized dealer, unless the owner has the proper tools and is mechanically proficient. See the shop Manual.

3. Turn the cap lever to the "OFF" position



A CAUTION

■ Be sure the fuel cap lever, choke and the engine switch are "OFF" when stopping, transporting and/or storing the generator.

Output and Overload Indicators, Oil Level Indicator

The output indicator light(green)will remain ON during normal operating conditions.

If the generator is overloaded(in excess of 1.0kVA), or if there is a short in the con-nected appliance, the output indicator light(green) will go OFF, the overload indica-tor light(red) will go ON and current to the connected appliance wil be shut off.

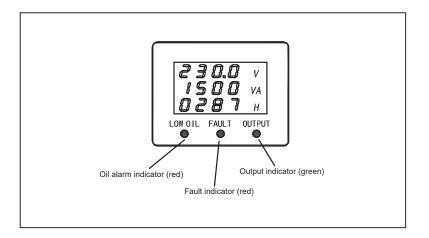
Stop the engine if the overload indicator light (red) comes ON and investigate the overload source.

Oil Level Indicator

If the oil level indicator light comes on, please check.

A NOTE

■ Before connecting an appliance to the generator, check that it is in good order, and that its electrical rating does not exceed that of the generator. Then connect the power cord of the appliance, and start the engine.



Run in parallel

- 1.When run in parallel, insert the paralleling plug of the parallel kit to the socket, connect the earth wire to the terminal on the panel.
- 2.When multiple inverter generators are to run in parallel, start up each generator in sequence; when multiple inverter generators of different ratings are to run in parallel, start up from the bigger rated units to smaller rated units.
- 3. The output indicator (green) is during normal proper operations.

A NOTE

■ Inverter generators of different frequencies cannot be paralleled; Max power output of the paralleled generators is the total output of all the generators, do not overload over the total output.

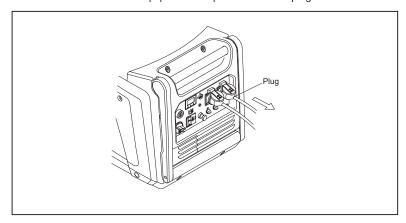
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7.STOPPING THE ENGINE

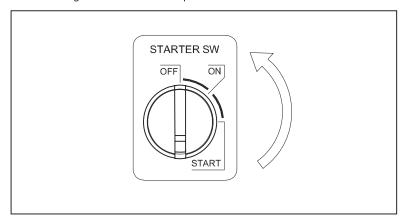
To stop the engine in an emergency, turn the engine switch to the OFF position.

IN NORMAL USE:

1.Switch off the connected equipment and pull the inserted plug.

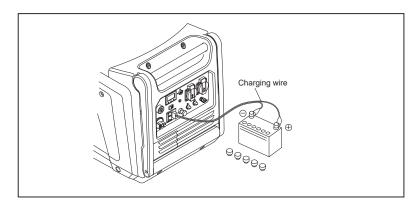


2. Turn the engine switch to the OFF position.



DC

1.Connect the charging cables to the DC receptacle of the generator and then to the battery terminals.



A WARNING

- To prevent the possibility of creating a spark near the battery, connect charging cable first to the generator, then to the battery. Disconnect cable first at the battery.
- Before connecting charging cables to a battery that is installed in a vehicle, disconnect the vehicles grounded battery cable. Reconnect the vehicle's grounded bat-tery cable after the charging cables are removed. This procedure will prevent the possibility of a short circuit and sparks if you make accdental contact between a battery terminal and the vehicle's frame or body.

A CAUTION

■ Do not attempt to start an automobile engine with the generator still connected to the battery. The generator may be damaged. Connect the positive battery terminal to the positive charging cord. Do not reverse the charging cables, or serious damage to the generator and/or battery may occur.

A WARNING

- The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate venti-lation when charging.
- The battery contains sulfuric acid (electrolyte). Con-tact with skin or eyes may cause severe burns. Wear protective clothing and a face shield.
- If electrolyte gets on your skin, flush with water.
- If electrolyte gets in your eyes, flush with water for at Least 15 minutes and call a physician.
- Electrolyte is poisonous.
- If swallowed, drink large quantites of water or milk and follow with milk of magnecia or vegetable oil and call a physician.
- KEEP OUT OF REACH OF CHILDREN.

2.Start the engine.

A CAUTION

- The DC receptacle may be used while the AC power is in use.
- An overload DC circuit may burnt out the DC circuit fuse. If this happens, remove the load and change with a same kind after stopping.

