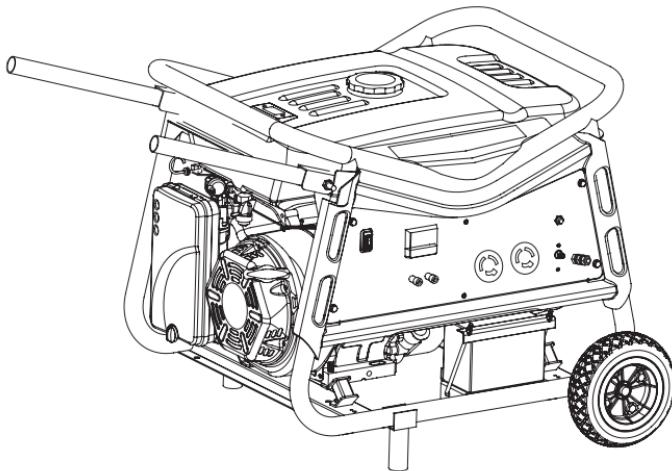




GENERATOR

Owner's Manual



Thank you for choosing a generator set of our company.

This manual contains the information on how to do that. Please read it carefully before operating. Safely and correctly operating can help you get the best results.

All information in this publication is based on the latest product information available at the time of printing. The contents in this manual may be different from the actual parts due to revision and other changes.

Our company reserves the right to make changes at any time without notice and without incurring any obligation. No part of this publication may be reproduced without our company's written permission.

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

SAFETY MESSAGES

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the generator. Please read these messages carefully.

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol  and one of three words: DANGER, WARNING, or CAUTION. These mean:

DANGER

You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

WARNING

You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

CAUTION

You CAN be HURT if you don't follow instructions.

NOTICE

Your generator or other property could be damaged if you don't follow instructions.

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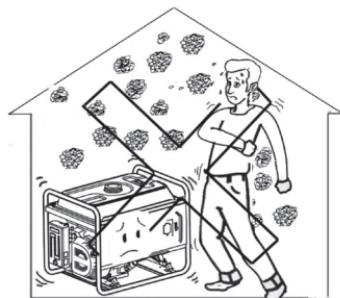
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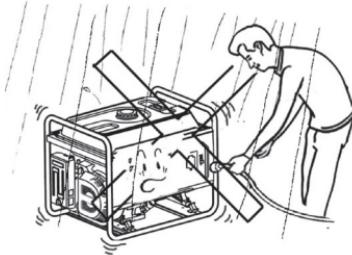
1. SAFETY NOTICE

1. Safety Standard

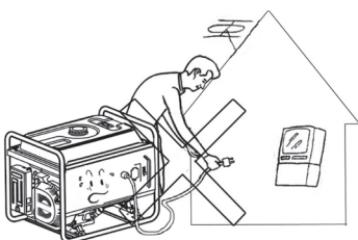
Read and understand this owner's manual before operating your generator. You can help prevent accidents by being familiar with your generator's controls, and by observing safe operating procedures.



Don't operate indoors.



Don't operate in the wet condition



Don't directly connect to the household power supply



Don't smoke when refueling

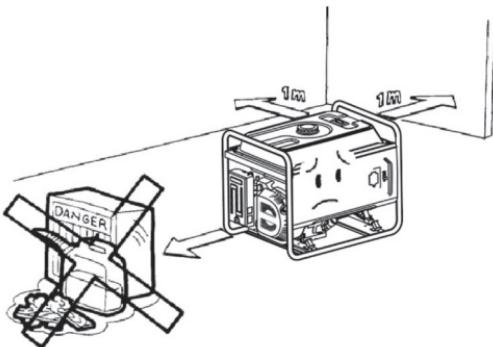
SAFETY NOTICE



Don't overflow the fuel when refueling.



Stop the engine before refueling



Please keep it 1m at least far away from the inflammable materials

2. Special Requirements

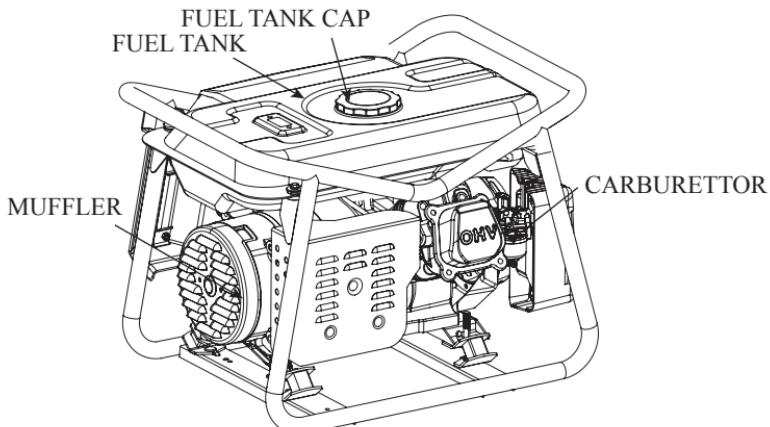
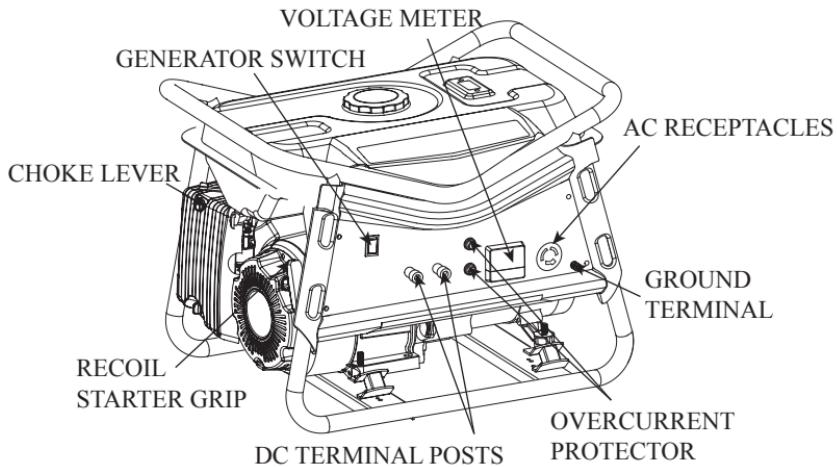
- Electrical equipment including lines and plug connections should be free from nudity.
- The circuit breakers should be matched with the generator equipment. If the circuit breakers require replacement, they must be replaced with a circuit breaker having identical ratings and performance characteristics.

- Don't operate the generator before grounding.
- If using extension lines, the requirement should be met as following:
for 1.5mm^2 , the line should not be exceeded 60m; for 2.5mm^2 , the
line not exceeded 100m.

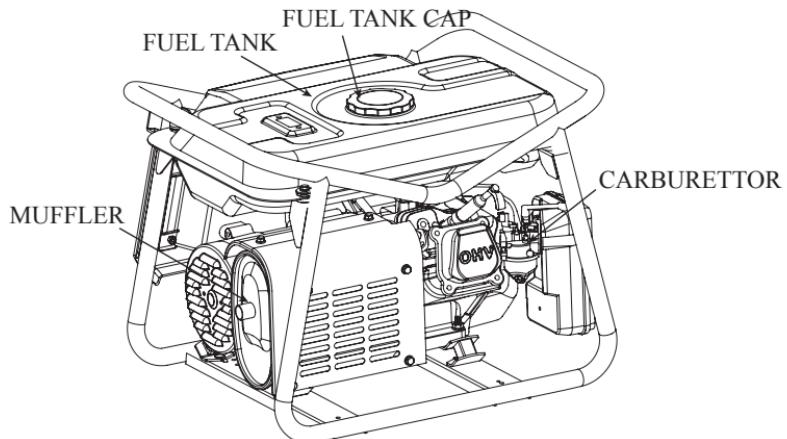
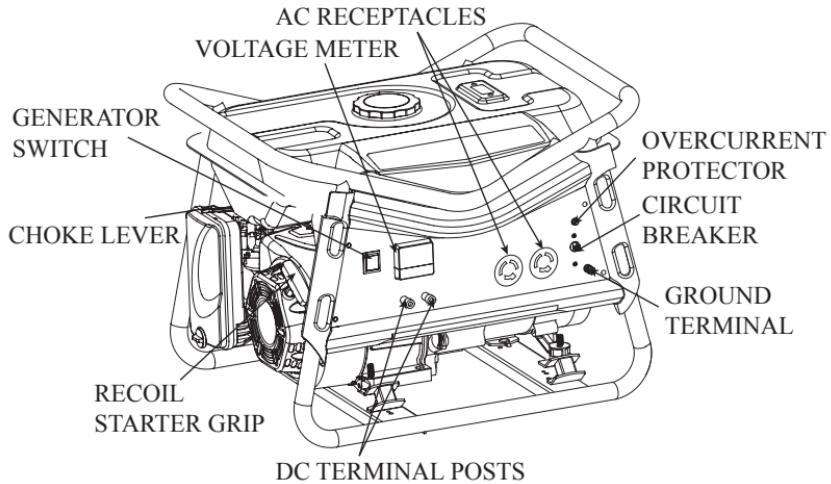
2. COMPONENT IDENTIFICATION

1. Component Identification

1kW

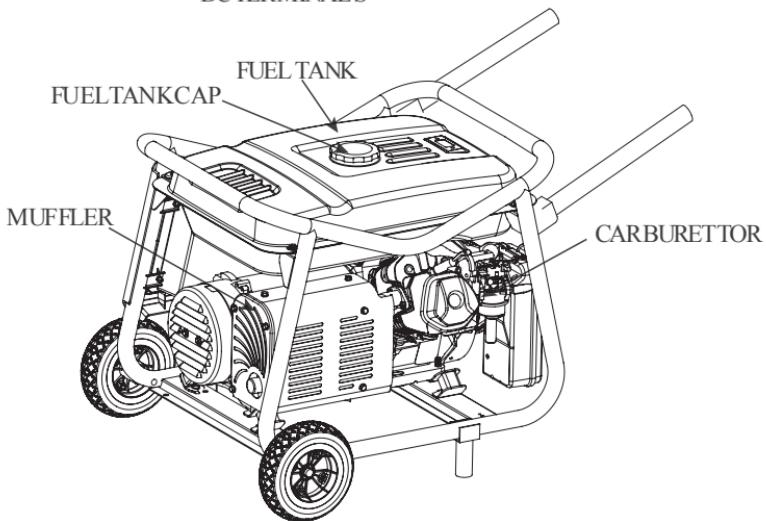
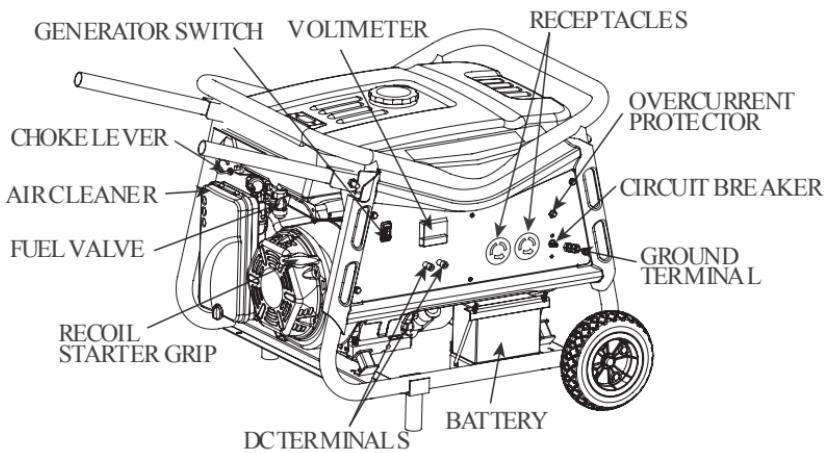


2kW/2.3kW/2.5kW/2.8kW

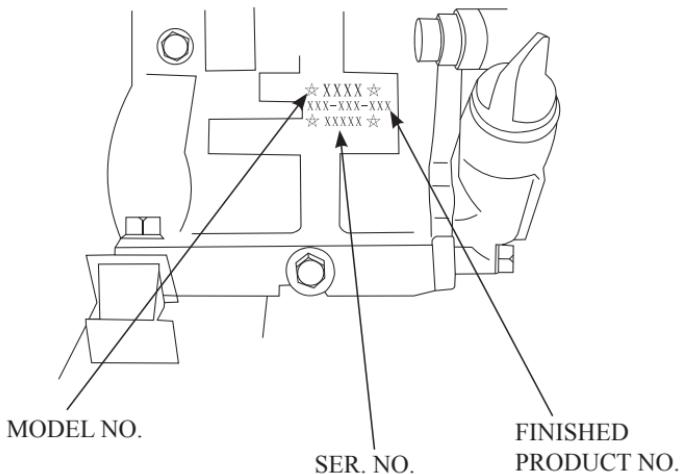


COMPONENT IDENTIFICATION

5kW/5.5kW/6.5kW/7kW/8kW

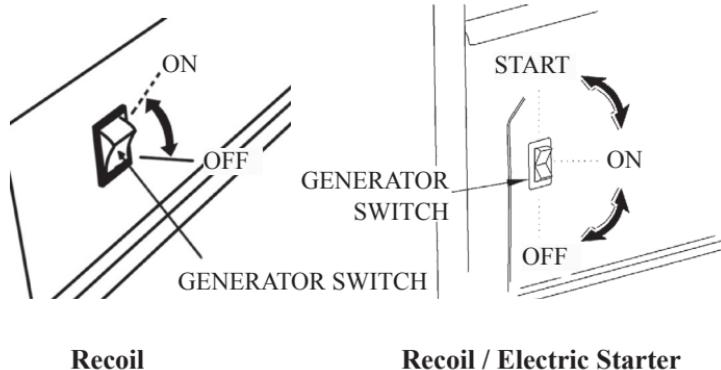


2. Engine Type & Serial Number



3. CONTROL

1. Generator Switch



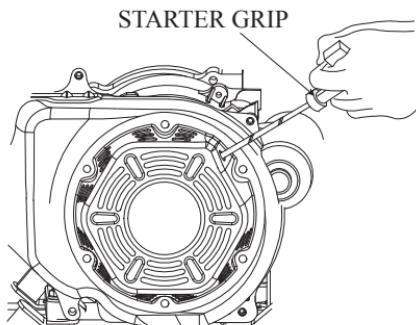
2. Recoil Starter

To start the engine, pull the starter grip lightly until resistance is felt, then pull briskly.

NOTICE

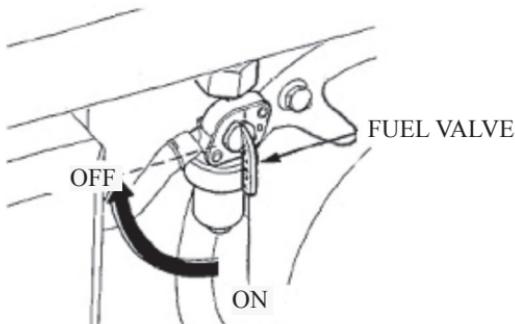
Do not allow the starter to snap back against the engine.

Return it gently to prevent damage to the starter.



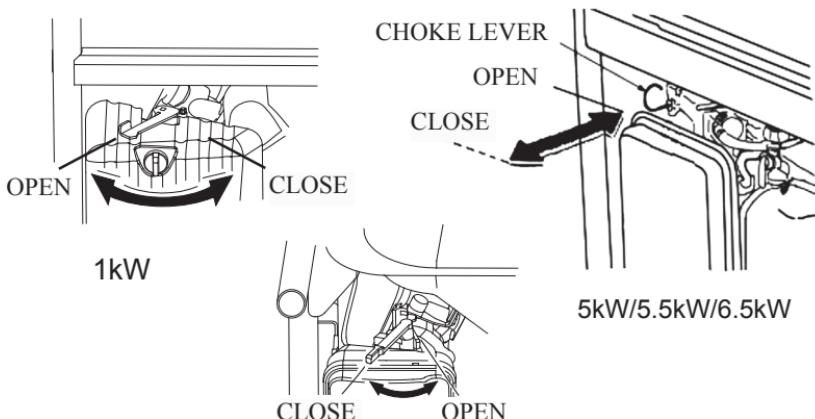
3. Fuel Valve

The fuel valve controls fuel flowing from the fuel tank to carburetor. Be sure to return the lever to “OFF” after stopping the engine.



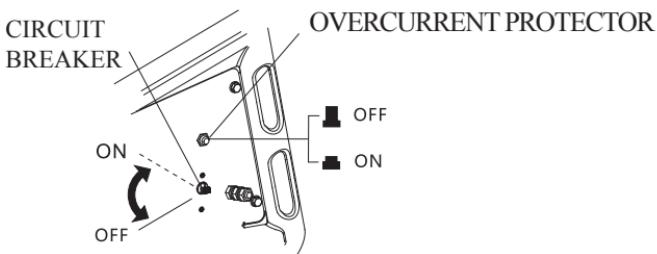
4. Choke Lever

The choke lever is used to provide an enriched fuel mixture when starting a cold engine. Slowly put the choke lever to “OPEN” position after the engine is heated.



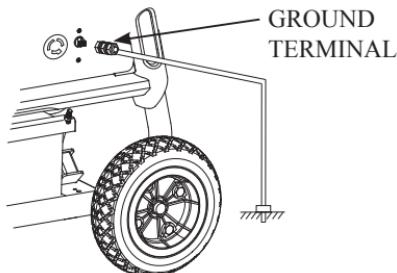
5. AC Circuit Breaker/Overscurrent Protector

The overload current will automatically switch off circuit breaker to avoid short circuit of the load or overload. If the indicator of AC Overcurrent Protector is raised, the Overcurrent Protector is now in the “OFF” position. Press the button of AC Overcurrent Protector to the “ON” position again a few minute later. If the circuit breaker is switched OFF automatically, switch the circuit breaker ON again.



6. Ground Terminal

This ground terminal is specially used to connect the generator.



7. Oil Alert System

The oil alert system is especially designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. When the oil level in the crankcase fall down below a safe limit, the oil alert system will automatically shut down the engine(though the generator switch still remain in the ON position), so that the engine can't be damaged resulting from the insufficient amount of the oil.

4. GENERATOR OPERATION

Generator operation environment:

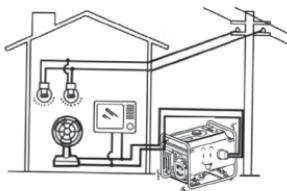
- Temperature:-15℃ ~40℃
- Humidity: 95% lower.
- Height above sea level: 1000 m lower(If the area is 1000 m over, the power should be lowered in operation).

1. Connection to the Household Power Supply

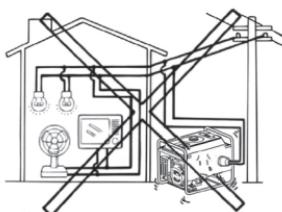
NOTICE

When connecting the generator to the household power supply, connection must be made by a qualified electrician. After connecting, carefully check electric connection for their safety and reliability, if not, will result in generator damaged and burning and firing.

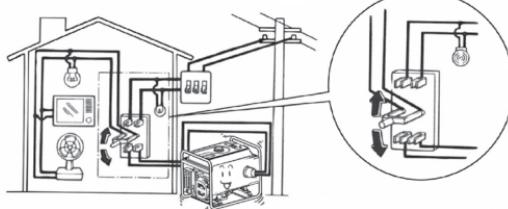
○ OK



✗ NO

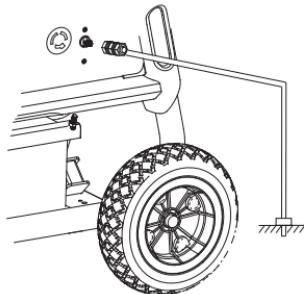


○ OK



2. Generator Grounding

To prevent electrical shock or misuse from faulty appliances, the generator should be grounded with insulated lead.



3. AC Current

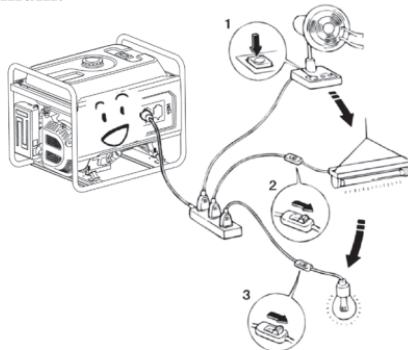
Before starting the generator, make sure that.

Total load appliance power (Total resistance, capacitive and inductive) does not exceed rated power of the generator.

NOTICE

Overload operation will greatly shorten generator service life.

If the generator set is connected to multi- loads or electric appliances, please first connect to current maximum, in turn, current second, and final, current minimum.



In general, capacitive and inductive load, especially, motor-driven devices have a big starting current when starting. The following table is a reference for when connecting to the electric appliances

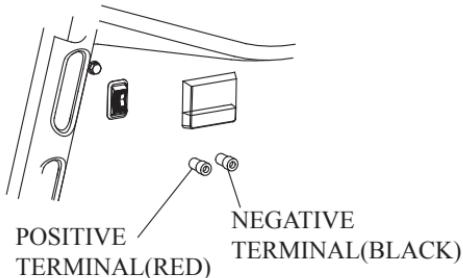
| Type | Wattage | | Typical Device | Examples | | |
|-------------------------------------|---------|-------|--|--|---------------|-----------|
| | Start | Rated | | Device | Starting | Rated |
| Incandescent Lamp Heating Device | × 1 | × 1 |  Incandescent Lamp  Tv Set |  Incandescent Lamp 100W | 100VA (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) |

4. DC Current

DC Terminals

The DC terminals are used to provide power supply for DC lower power load and charge for other battery.

The terminals are colored red to identify the positive (+) terminal and black to identify the negative (-) terminal. Load connection method: The load must be connected to DC terminals with the proper polarity (load positive to positive of DC terminal and load negative to negative of DC terminal).



5. High Altitude Operation

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

Engine performance can be improved by installing a smaller diameter main fuel jet in the carburetor and readjusting the pilot screw. If you always operate the engine at altitudes above sea level 1000 meters, have our company authorized dealer perform this carburetor modification. If not, should lower load power in operating generator.

Even equipped with suitable carburetor, engine horsepower will decrease approximately 3.5% for each 300 meter increase in altitude. The effect of altitude on horsepower will be lowered greater than this if no carburetor modification is made.

NOTICE

If a carburetor for high altitude is equipped with engine suitable to a lower altitude, the lean air fuel mixture will cause the engine output power lowering, over-heat and seriously damage.

5. PRE-OPERATION CHECK

1. Engine Oil

NOTICE

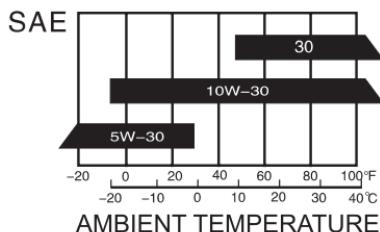
Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2-stroke engine oils will damage the engine and are not recommended. Check the oil level before each use with the generator on a level surface with the engine stopped.

Recommended oil

4-stroke gasoline oil

API service Classification's SF

or SAE10W-30 of equivalent SG class.



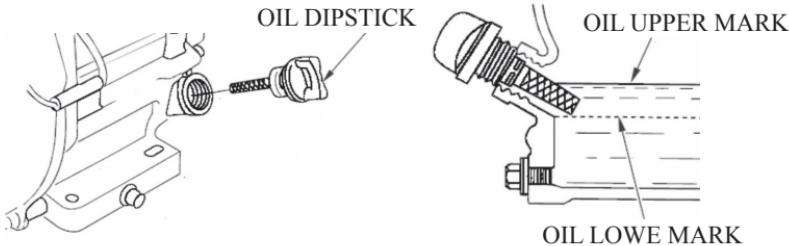
Method of check oil level:

Remove the oil filler cap and wipe the dipstick clean.

Check the oil level by inserting the dipstick into the filler neck without screwing it in.

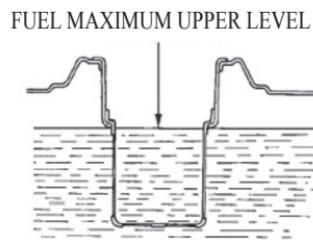
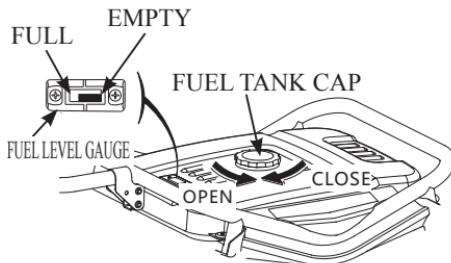
If the level is low, add the recommended oil to the upper mark on the dipstick.

After adding, don't forget refit and screw down the oil dipstick.



2. Fuel

- 1) Check the fuel level gauge,
- 2) Refill the tank if the fuel level is low. Do not fill above the shoulder of the fuel strainer.
- 3) Refit and screw down the fuel tank cap after refueling.



⚠ WARNING

- **Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.**
- **Do not overfill the fuel tank.**
- **Avoid repeated or prolonged contact with skin or breathing of vapor.**
- **Keep out of reach of children.**
- **Don't use the oil and gasoline mixture or gasoline contained impurity.**

Use gasoline with octane rating ≥ 90 .

We recommend unleaded gasoline because it produces fewer engine and spark plug deposits and extends exhaust system life.

Never use stale or contaminated gasoline or oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

3. Battery

NOTICE

Don't connect the battery positive and negative poles in reverse, if not, can seriously damage the generator set and battery.

⚠ WARNING

- **If improper operation, the battery may be explosive and potentially hurt others nearby. Keep the fire and inflammable materials far away from.**
- **The battery will release the explosive gas, please keep the fire far away from. Keep the air ventilating when battery is charging and using.**

6. STARTING THE ENGINE

1. Recoil Starter

- (1) Remove all the loads out of the output.
- (2) Turn the fuel valve to the “ON” position.
- (3) Turn the AC circuit breaker to the“OFF” position.
- (4) Turn the choke lever to the“CLOSE” position.

NOTICE

Don't close the choke when starting the engine in warm state

- (5) Turn the generator switch to the “ON” position.
- (6) Pull the starter grip until compression is felt, then pull briskly.
- (7) Turn the choke lever to the“OPEN” position after the engine is warm.
- (8) Don't use electric apparatus before setting circuit breaker to the“ON” position.

2. Electric starting

- (1) Remove all the loads out of the output.
- (2) Turn the fuel valve to the “ON” position.
- (3) Turn the choke lever to the “CLOSE” position.

NOTICE

Don't close the choke when starting the engine in warm state.

- (4) Turn the generator switch to electric starting position.
- (5) After starting engine, immediately release generator switch and generator switch can automatically return to open position.

- (6) Turn the choke lever to “OPEN” position after the engine is warm.

NOTICE

Turn the gasoline switch to electric starting position for more than 5 seconds can damage the starting motor. If failing to start, release the switch and wait 10 seconds before operating it again.

If the speed of the starting motor drops fast after a period of time, it means that the battery should be recharged.

7. STOPPING THE ENGINE

- (1) Turn the AC circuit breaker to the OFF position.
- (2) Turn the generator switch to the OFF position.
- (3) Turn the fuel valve to the OFF position.

NOTICE

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

8. MAINTENANCE

The engine must be properly maintained to ensure its operation be safe, economy and trouble-free, as well as eco-friendly.

In order to keep your gasoline engine in good working condition, it must be periodically serviced. The following maintenance schedule and routine inspection procedures must be carefully followed

| Items | Frequency | Each time | First 1 month or first 20hrs of operation | Thereafter, every 3 months or every 50hrs of operation | Every year or every 100 hrs of operation |
|---------------------------------|-----------------------|-----------|---|--|--|
| Engine oil | Check- Refill | √ | | | |
| | Replace | | √ | √ | |
| Reduction gear oil(if equipped) | Oil level check | √ | | | |
| | Replace | | √ | √ | |
| Air filter element | Check | √ | | | |
| | Clean | | √ | | |
| | Replace | | | √ | |
| Deposit Cup(if equipped) | Clean | | | | √ |
| Spark Plug | Check - adjust | | | | √* |
| Spark arrester | Clean | | | √ | |
| Idling (if equipped)** | Check - adjust | | | | √ |
| Valve clearance ** | Check-adjust | | | | √ |
| Fuel tank & fuel filter ** | Clean | | | | √ |
| Fuel line | Check | | Every 2 years(change if necessary) | | |
| Cylinder head, piston | Clean up carbon ** | | < 225cc, Every 125hrs ≥225cc, Every 250hrs | | |

* These items should be replaced if replacement needed.

** These items should be maintained and repaired by our authorized dealer, unless the owner has appropriate tools and is proficient with mechanical maintenance.

NOTICE

- If the gasoline engine frequently work under high temperature or heavy load, change the oil every 25 hours.
- If the engine frequently work under dusty or other severe circumstances, clean the air filter element every 10 hours; If necessary, change the air filter element

MAINTENANCE

every 25 hours.

- The maintenance period and the exact time (hour), the one which comes first should govern.
- If you have missed the scheduled time to maintain your engine, do it as soon as possible.

⚠ WARNING

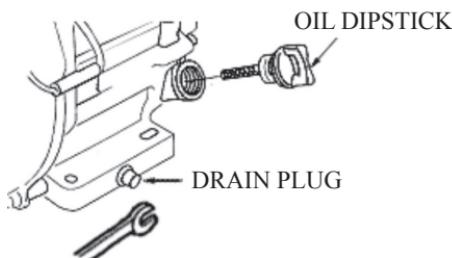
Stop the engine before servicing. Put the engine on a level surface and remove the spark plug cap to prevent the engine from starting. Never run your engine in a poorly ventilated room or other enclosed area, be sure to keep good ventilation in working area. The exhaust from the engine may contain poisonous CO, inhalation can cause shock, unconsciousness and even death.

1. Engine Oil Change

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

1. Remove the oil dipstick and drain plug to drain the oil.
2. Reinstall the drain plug, then tighten the plug securely.
3. Refill oil and check the oil level.

| | | |
|---------------|-----------------------|-------|
| Oil capacity: | 1kW | 0.35L |
| | 2kW 2.3kW 2.5kW 2.8kW | 0.6L |
| | 5kW 5.5kW 6.5kW 7kW | 1.1L |
| | 8kW | 1.2L |



▲ CAUTION

Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

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

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.

▲ CAUTION

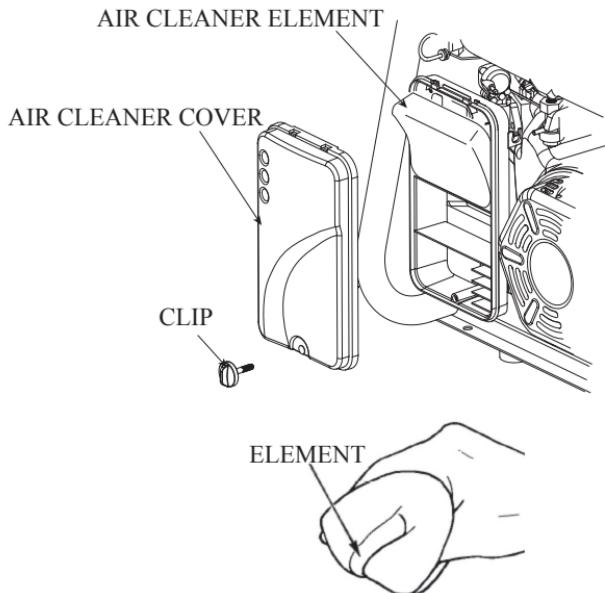
Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion. Use only soapy water or nonflammable solvent.

NOTICE

Never run the generator without the air cleaner. If not, rapid engine wear will result.

- (1) Open the air cleaner clip and open the air cover. Check the air cleaner element for complete and clean.
- (2) If the air cleaner element is dirt, please clean the air cleaner element: Wash the air cleaner element in a solution of household detergent and

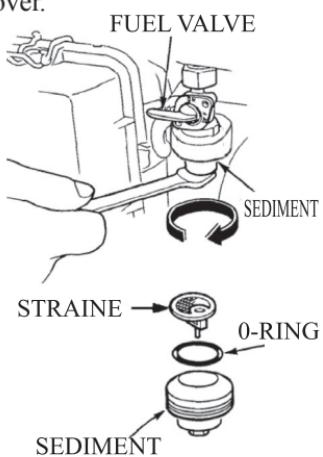
warm water, then rinse thoroughly or wash in nonflammable or high flash point solvent: Drop a few points engine oil in, then, squeeze out.



- (3) Reinstall the air cleaner element and the cover.

3. Fuel Sediment Cup Cleaning

- (1) Turn the fuel valve to the OFF position. Remove the sediment cup, o-ring and strainer according to the arrow direction.
- (2) Clean the sediment cup, and o-ring, and strainer in nonflammable or high flash point solvent.

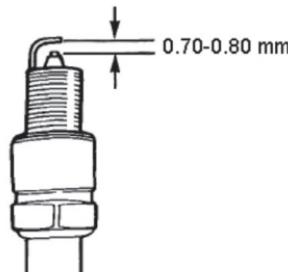
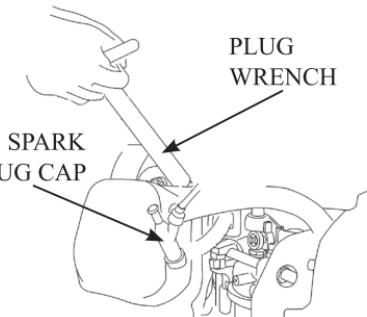


- (3) Reinstall o-ring, and strainer and screw down the sediment cup.
- (4) Turn the fuel valve ON and check for leaks.

4. Spark Plug Service

Recommended spark plugs: F7RTC
or other equivalents

- (1) Remove the spark plug cap.
- (2) Use the plug wrench to remove PLUG CAP
the spark plug.
- (3) Visually inspect the spark plug
if the insulator is cracked, if
cracked, replace with new the spark plug.
- (4) Measure the plug gap with a feeler gauge. Correct as necessary by
carefully bending the side electrode. The gap should be: 0.70-0.80 mm.
- (5) Check the spark plug washer for good.
- (6) Reinstall the spark plug, tighten it with plug wrench and impact the
washer. Reinstall the spark plug accurately.



NOTICE

Please use the spark plug with suitable heat range.

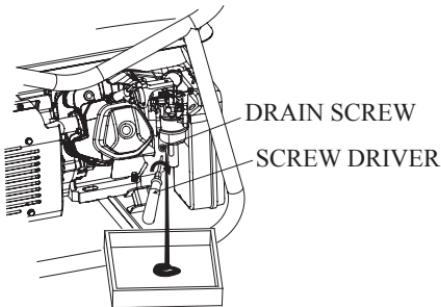
9. STORAGE

⚠ WARNING

In order to contact with a hot engine or exhaust system causing burns or fires. Let the engine cool before storing the generator.

If storing the unit for an extended period, be sure the storage area is free of excessive humidity and dust.

- (1) Drain the fuel in the fuel tank out, clean strainer, o-ring and sediment, then refit them well. Drain fuel out of the carburetor by loosening the drain bolt, then refit it and screw down the carburetor bolt.



⚠ WARNING

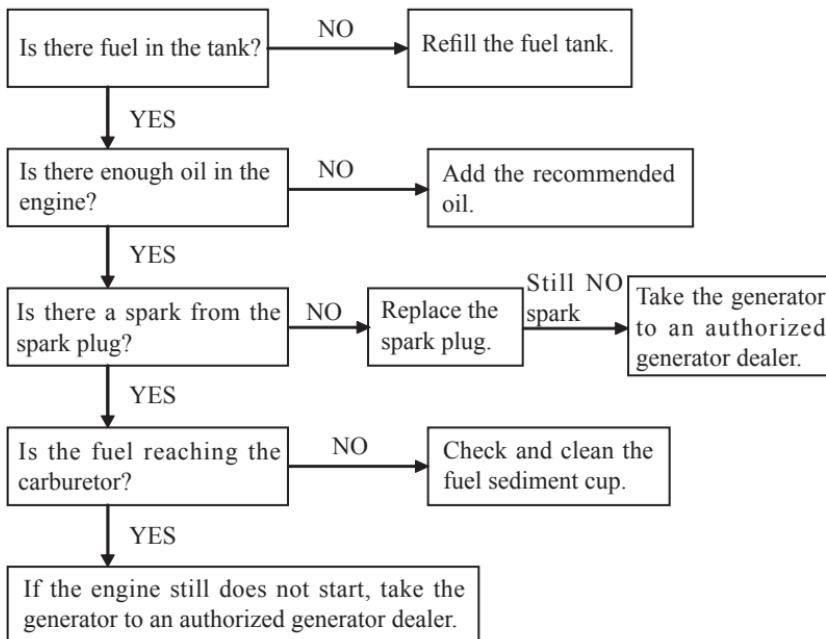
Gasoline is extremely flammable and is explosive under certain conditions. Drain fuel in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area during this procedure.

- (2) Screw the oil dipstick off and screw the drain bolt off the crankcase to completely drain the oil out. Then screw down the drain bolt and fill fresh oil to upper mark, finally refit the oil dipstick well.

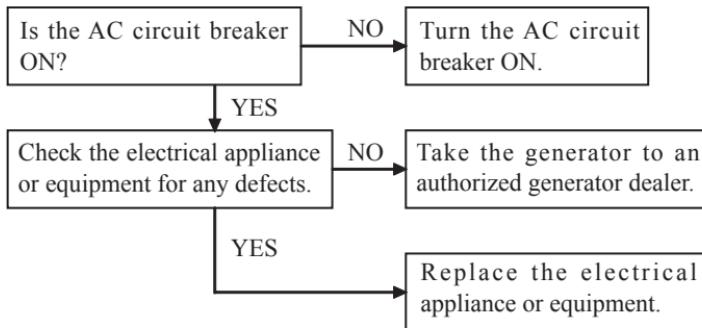
- (3) Remove the spark plug, and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.
- (4) Slowly pull the starter grip until resistance is felt. Let the intake and exhaust valves in closing position.
- (5) Place the generator in the clean area.

10. TROUBLESHOOTING

Engine not to start:



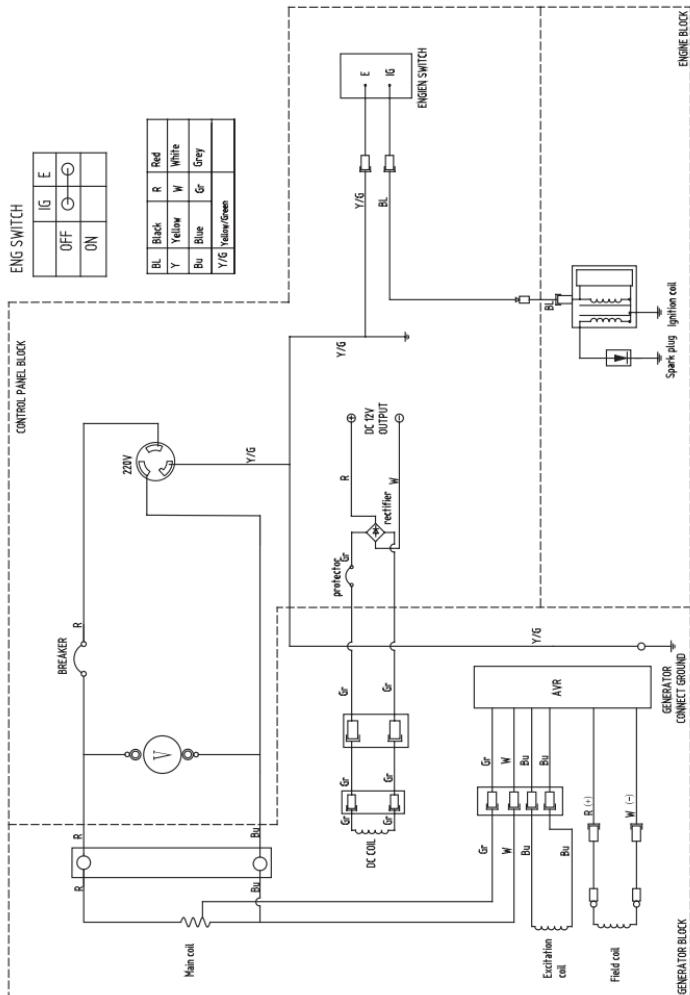
No power supply:



11. WIRING DIAGRAM

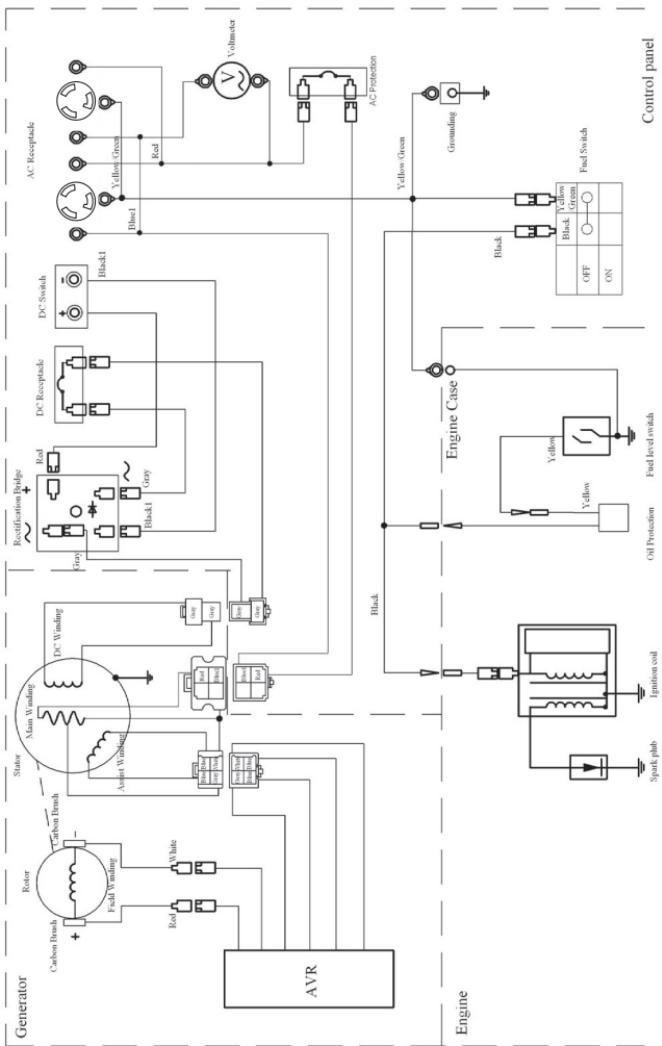
Recoil

1kW

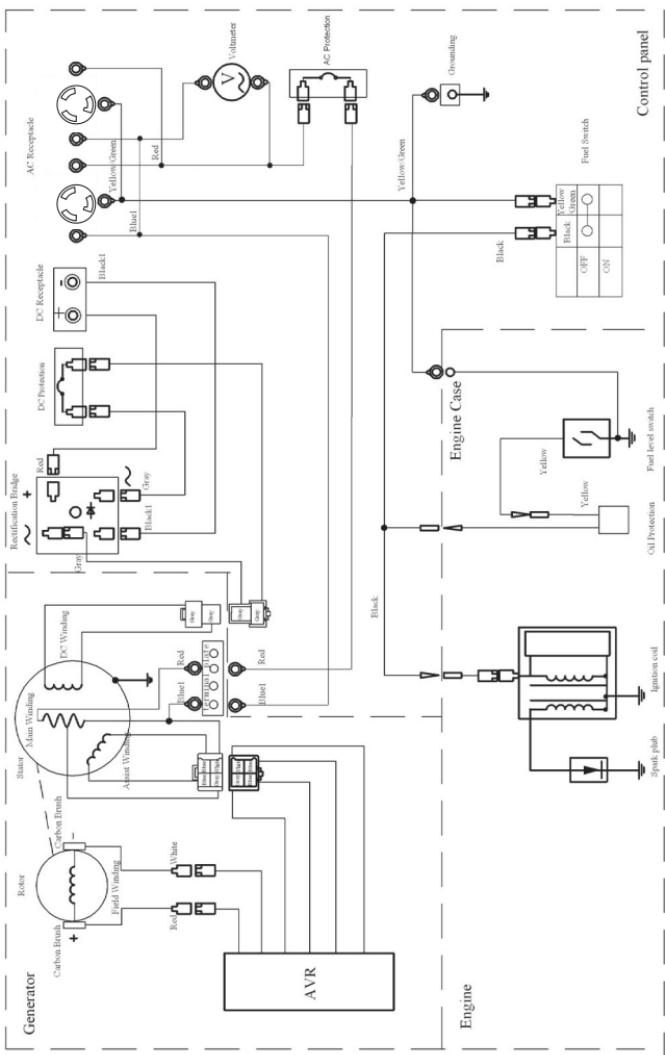


WIRING DIAGRAM

2kW

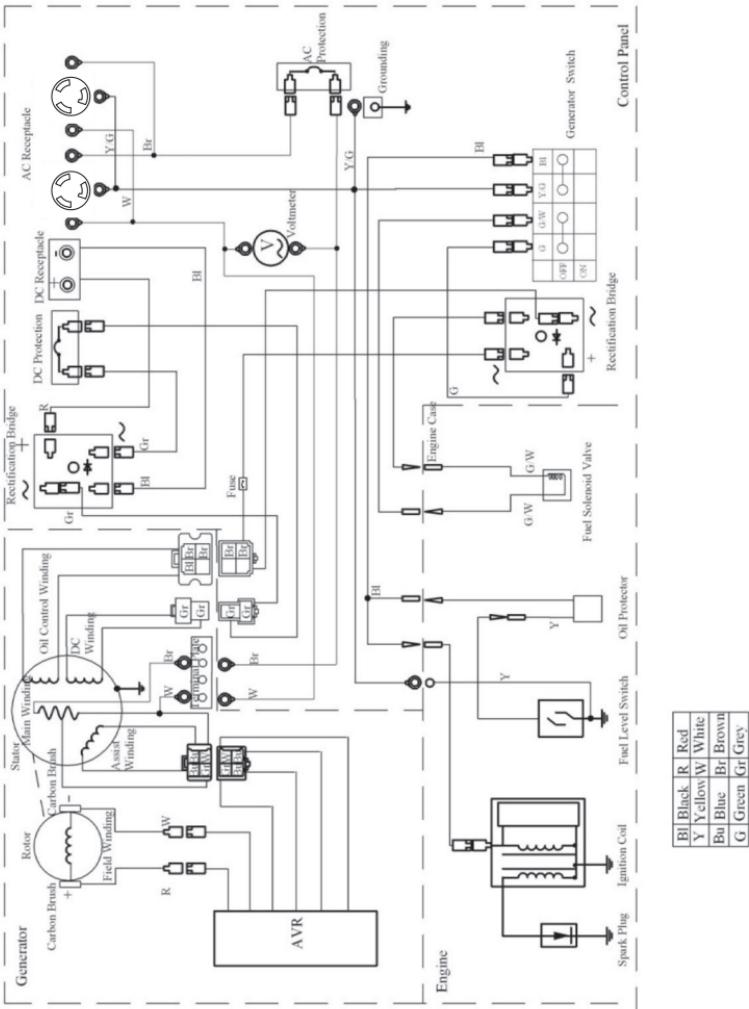


2.3kW/2.5kW/2.8kW



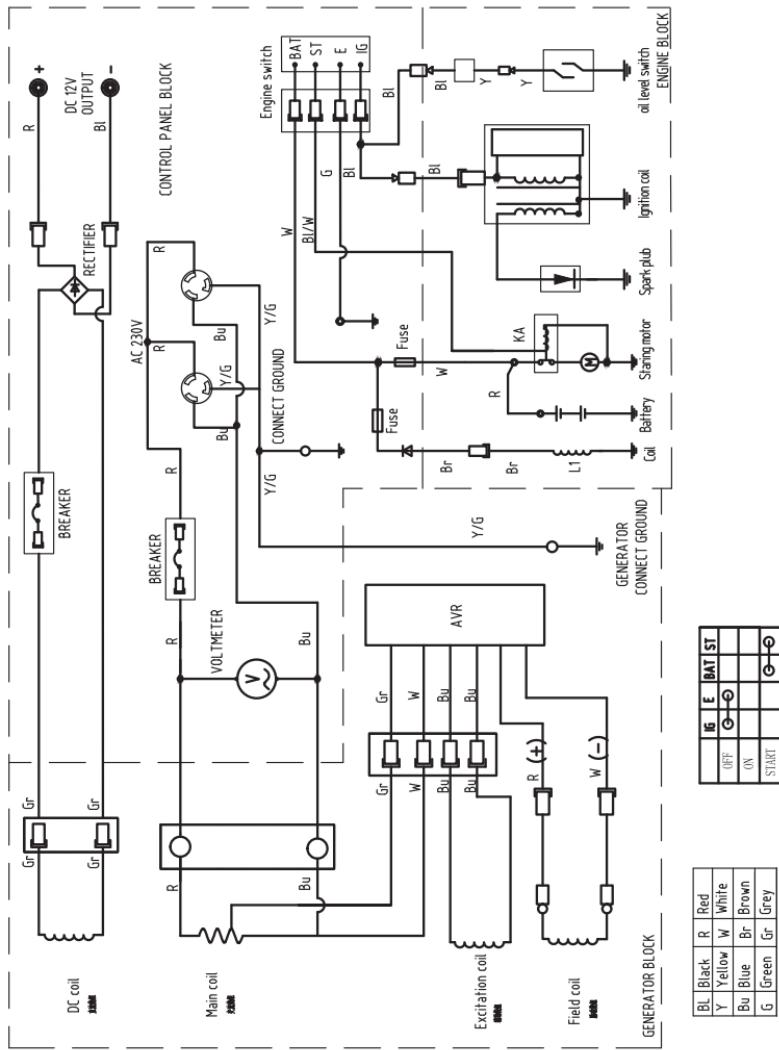
WIRING DIAGRAM

5kW/5.5kW/6.5kW/7kW/8kW



Recoil / Electric Starter

2kW/2.3kW/2.5kW/2.8kW

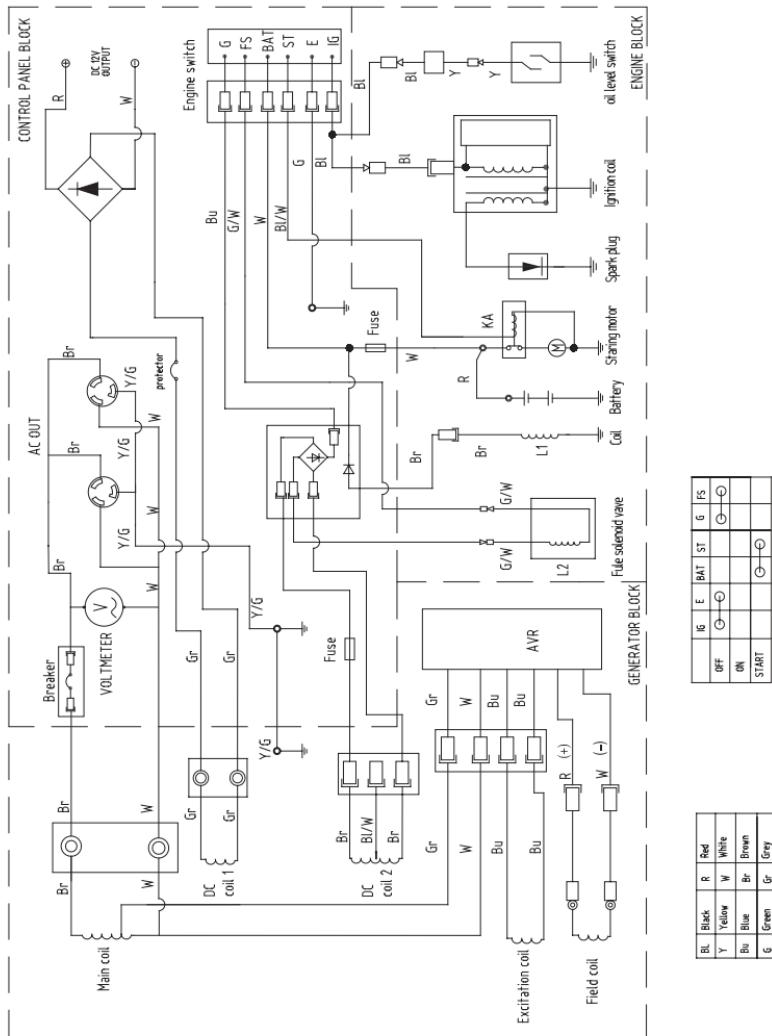


| Bl | E | BAT ST |
|-------|-------|--------|
| Off | Off | Off |
| On | On | On |
| Start | Start | Start |

| Bl | R | Red |
|-------|----|-------|
| Black | W | White |
| Y | Bu | Blue |
| Br | Br | Brown |
| G | Gr | Green |
| Gr | Gr | Grey |

WIRING DIAGRAM

5kW/5.5kW/6.5kW/7kW/8kW



12. SPECIFICATIONS

| | Item | 1kW | 2 kW | 2.3 kW | 2.5 kW | 2.8 kW |
|---------------------------|----------------------------------|--|-------|--------|--------|--------|
| Gasoline Engine | Gasoline Engine Style | R100 | R200L | R200L | R200L | R210 |
| | Gasoline Engine Type | Single Cylinder, 4-Stroke, Forced Air Cooling, OHV | | | | |
| | Displacement (cc) | 99 | 196 | 196 | 196 | 212 |
| | Igniting System | Transistorized Magneto | | | | |
| | Fuel Volume (L) | 5 | 15 | 15 | 15 | 15 |
| | Fuel Consumption(g/(kW·h)) | ≤450 | ≤395 | ≤395 | ≤395 | ≤395 |
| | Continuing Time (hr) | 6 | 10 | 10 | 9 | 7 |
| Generator | Oil Capacity (L) | 0.35 | 0.6 | 0.6 | 0.6 | 0.6 |
| | Voltage (DC) (V) | - | 12 | 12 | 12 | 12 |
| | Current (DC) (A) | - | 8.3 | 8.3 | 8.3 | 8.3 |
| | Rated Frequency (Hz) | 50 | | | | |
| | Rated Voltage (V) | 240 | | | | |
| | Rated Output Power (kW) | 1 | 2 | 2.3 | 2.5 | 2.8 |
| GeneratorSet | Maximum Output Power (kW) | 1.1 | 2.2 | 2.5 | 2.8 | 3.1 |
| | Length (mm) | 460 | 593 | 593 | 593 | 593 |
| | Width (mm) | 360 | 445 | 445 | 445 | 445 |
| | Height (mm) | 420 | 453 | 453 | 453 | 453 |
| | Net Weight (kg) | 28 | 43 | 45 | 47 | 49 |
| General-Purpose Accessory | Phase | Single | | | | |
| | Large Air Cleaner | ● | ● | ● | ● | ● |
| | Large Muffler | ● | ● | ● | ● | ● |
| | Large Fuel Tank | ● | ● | ● | ● | ● |
| | Fuel Gauge | ● | ● | ● | ● | ● |
| | Voltmeter | ● | ● | ● | ● | ● |
| | Automatic Voltage Regulator(AVR) | ● | ● | ● | ● | ● |
| | Oil Alert System | ● | ● | ● | ● | ● |
| | Non-fuse Breaker | ● | ● | ● | ● | ● |
| | Electric Starting Accessory | - | - | - | - | - |
| | Timer | - | - | - | - | - |

Remarks: ●means available, - means unavailable

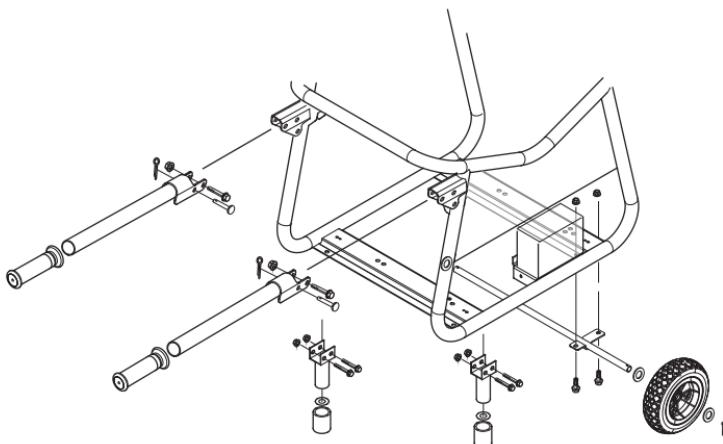
SPECIFICATIONS

| | Item | 5kW Recoil/ Electric Starter | 5.5kW Recoil/ Electric Starter | 6.5kW Recoil/ Electric Starter | 7kW Recoil/ Electric Starter | 8 kW Recoil/ Electric Starter |
|---------------------------|----------------------------------|--|-----------------------------------|-----------------------------------|---------------------------------|----------------------------------|
| Gasoline Engine | Gasoline Engine Type | Single Cylinder, 4-Stroke, Forced Air Cooling, OHV | | | | |
| | Displacement (ml) | 389 | 389 | 420 | 420 | 500 |
| | Igniting System | Transistorized Magneto | | | | |
| | Fuel Volume (L) | 25 | | | | |
| | Fuel Consumption(g/(kW·h)) | ≤374 | ≤374 | ≤370 | ≤370 | ≤400 |
| | Continuing Time (hr) | 9 | 9 | 7.5 | 7.5 | 5.5 |
| Generator | Oil Capacity (L) | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 |
| | Charging Voltage (DC) (V) | 12 | | | | |
| | Charging Current (DC) (A) | 8.3 | | | | |
| | Rated Frequency (Hz) | 50 | | | | |
| | Rated Voltage (V) | 240 | | | | |
| | Rated Output Power (kW) | 5 | 5.5 | 6.5 | 7.0 | 8.0 |
| Generator Set | Maximum Output Power (kW) | 5.5 | 6 | 7.1 | 7.5 | 8.5 |
| | Battery(rated capacity)(AH) | 9 | | | | |
| | Battery(voltage)(V) | 12 | | | | |
| | Length (mm) | 697 | | | | |
| | Width (mm) | 554 | | | | |
| | Height (mm) | 544 | | | | |
| General-Purpose Accessory | Net Weight (kg) | 86 | ≤88 | ≤90 | ≤90 | ≤95 |
| | Phase | Single | | | | |
| | Large Air Cleaner | ● | ● | ● | ● | ● |
| | Large Muffler | ● | ● | ● | ● | ● |
| | Large Fuel Tank | ● | ● | ● | ● | ● |
| | Fuel Gauge | ● | ● | ● | ● | ● |
| | Voltmeter | ● | ● | ● | ● | ● |
| | Automatic Voltage Regulator(AVR) | ● | ● | ● | ● | ● |
| | Oil Alert System | ● | ● | ● | ● | ● |
| | Non-fuse Breaker | ● | ● | ● | ● | ● |
| | Electric Starting Accessory | ● | ● | ● | ● | ● |
| | Timer | - | - | - | - | - |

Remarks: ●means available, - means unavailable

13. WHEEL (OPTION)

1. (1) Install the two wheels on the wheel axle with gaskets and pins.
(2) Install the wheel on the bottom plate of the generator frame with bolts and nuts.
(3) Fix the handle on the frame.



93004-YE70210