

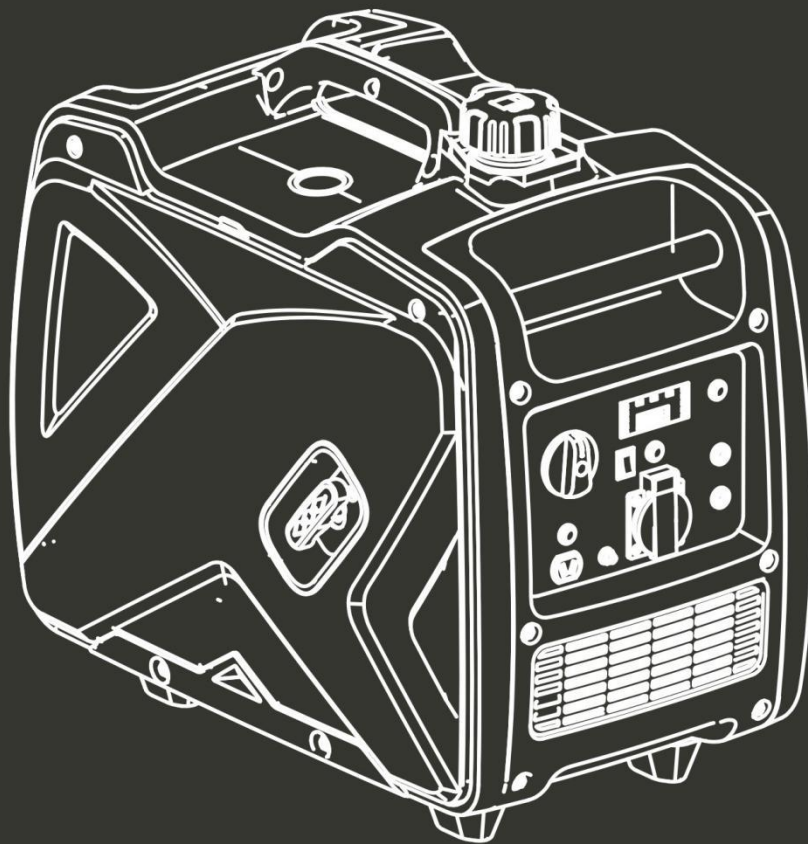
**HYUNDAI**  
POWER PRODUCTS

# **INVERTER GENERATOR**

(LOW POWER GENERATING SET)

**HG3300I-A**

**ORIGINAL INSTRUCTIONS**



**CAUTION: Read this manual before using this machine!**

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# 1. SAFETY INSTRUCTIONS



## WARNING:

1. Attention! Exhaust gases are toxic. Do not operate the generator in a room without ventilation system!
2. Children should be protected by keeping them at a safe distance from the generator set!
3. Refilling of the generating sets are not allowed during the operation!
4. If the generator will be mounted in a closed room, relevant safety regulations against fire and explosion should be followed!
5. Do not connect to household circuit!
6. Do not use in wet condition!
7. Keep in flammable away!
8. When refuelling:
  - a) stop engine;
  - b) no smoking;
  - c) do not spill.

## **GENERAL SECURITY INSTRUCTIONS**

- The operator must know the principles of functioning and the structure of the generator and the motor. He must know how to stop the motor in case of urgency and how to manipulate the controls.
- Never let children use this device.
- Never let people who do not know these instructions use this device. Local regulations may impose restrictions on the age of the user.
- Please do not use this device when people, especially children, or pets are nearby. Direct them away from the working area.
- The operator or the user are responsible for possible accidents or damage to other persons or to their property.
- Do not wear loose clothing or jewellery as this can get caught in the machinery as it runs.
- Use safety equipment. Wear protective gear such as an anti-dust mask, non-slip safety shoes, a helmet or hearing protection.
- Stay vigilant, watch what you are doing and show good sense when you use the generator. Do not use if you are tired or under the influence of drugs, alcohol or medicines.
- Install the generator in a place that is well ventilated and make sure that there is at least 1.5 metres between the generator and the walls of the building or other equipment. Do not place flammable liquids or gases near the generator.
- Do not run the generator in an enclosed or badly-ventilated space. The exhaust gas from the motor contains carbon monoxide which is toxic and may lead to a loss of consciousness or death.
- Run the generator in respect of the power indicated in the user's manual. Do not run the generator with an overload or at excessive speed.
- The silencer of the generator becomes extremely hot when the motor runs or even for a time after it has stopped. Do not touch it as it will burn you.
- Do not transport or move the generator until it has cooled down.
- Perform periodic maintenance and resolve problems that appear immediately. Do not run the generator before correcting any fault detected.
- The generator uses a system of air-cooling, and it is necessary to clean its components regularly, including the grilles, the cover of the fan and the fan itself so as to ensure cooling.

- Keep the fuel filter clean, and change the oil of the motor regularly.
- Periodically check the installation of the connections and the tightness of the fixations, re-tightening them if necessary.
- Clean the components of the air filter periodically, and replace the air filter when necessary.
- Remove any electrical equipment that is plugged in before starting or stopping the generator.
- Before transporting the generator, you must empty the fuel tank.
- Maintenance and repair of the generator must be carried out by a qualified technician from an authorised after-sales service centre.



**WARNING:** when you start the generator with the cord, watch out for sudden changes in the rotation of the motor!!! Risk of wounding!!! Never cover the generator when it is running. The cut-out mounted on the generator has the aim of reducing the risk of electric shock. If it needs to be replaced with another cut-out, the latter must correspond to the technical specifications of the generator. Due to important mechanical constraints, it is necessary to use a flexible sheathed cable with a strong rubber protective layer (conforming to IEC 245-4) or a similar cable. If using an electrical extension cable, the total length of the extension must not exceed 60m when the section of the wire is 1.5mm<sup>2</sup> and must not exceed 100m when the section of the wire is 2.5mm<sup>2</sup>.

### **ADDITIONAL REQUIREMENTS FOR LOW-POWER GENERATING SETS FOR USE BY LAYMEN**

- Protect children by keeping them at a safe distance from the generating set.
- Fuel is combustible and easily ignited. Do not refuel during operation. Do not refuel while smoking or near naked flames. Do not spill fuel.
- Some parts of the internal combustion engine are hot and may cause burns. Pay attention to the warnings on the generating set.
- Engine exhaust gases are toxic. Do not operate the generating set in unventilated rooms. When installed in ventilated rooms, additional requirements for fire and explosion protection shall be observed.
- Before use, the generating set and its electrical equipment (including lines and plug connections) should be checked to ensure that they are not defective.
- Protection against electrical shock depends on circuit breakers specially matched to the generating set. If the circuit breakers require replacement, they should be replaced with a circuit breaker having identical ratings and performances characteristics.
- Due to high mechanical stresses, only tough rubber-sheathed flexible cable (in accordance with IEC 60245-4) or the equivalent should be used.
- The user shall conform to regulations of electrical safety applicable to the place where the generating sets are used.
- The user must respect the requirements and precautions in the case of resupply by generating sets of an installation, depending on existing protective measures in this installation and applicable regulations.
- Generating sets should only be loaded up to their rated power under the rated ambient conditions.
- Prior to commencing maintenance work it shall be ensured that untimely start-up is not possible.

### **SECURITY MEASURES WHEN FILLING THE FUEL TANK**

- The fuel is extremely flammable and poisonous.
- This generator only uses petrol (gasoline); any other kind of fuel will damage the motor.
- Do not overfill the tank with petrol to avoid spilling. If you notice a spill, it must be wiped up completely with a dry cloth before starting the motor.
- If you swallow fuel by mistake, if you inhale fuel vapours or if you get drops of fuel in your eyes,

see a doctor immediately. If a certain quantity of fuel is spilt on your skin or clothing, wash or change your clothes.

- Always stop the motor of the generator when filling it with fuel.
- Never fill the fuel tank while smoking or near a naked flame.
- Make sure you don't spill fuel on the motor and the exhaust grille of the generator during filling with fuel.
- Keep the fuel in an appropriate recipient and sheltered from any sources of fire.
- Carry out filling in a safe place, and slowly open the fuel cap to release the pressure which has built up inside the tank. Wipe up any drops of petrol that have spilled before starting the motor.
- To prevent fire, move the generator at least 4 metres away from the area for filling with fuel.
- Make sure that the fuel cap is tightly closed before starting.
- Do not keep petrol in the tank for a long time.
- While using or transporting the generator, make sure you keep the generator upright, otherwise the fuel may escape from the carburettor or the fuel tank.

## **ELECTRICAL SAFETY**

Before each use ensure that the load to be connected does not exceed the power of the current produced by the generator.

**To avoid electric shock, you must follow the following instructions:**

- Do not touch the generator with wet hands.
- Do not run the generator under rain or snow.
- Do not run the generator near water.
- Connect the generator to earth. Use a sufficiently thick conductor for the earth wire.
- Do not operate the generator in parallel with another generator.
- If using electrical extensions, make sure that they are sufficiently thick to transport the current and that they are used correctly.



The connection of a generator used for auxiliary power to the electrical installation of a building must be performed by a qualified electrician, and in conformity to the provisions of the applicable laws and norms in the field of electricity. Incorrect connections will cause leakage of the current from the generator into the lines of the public electricity company. Such leakage could electrocute the workers of the public electricity company working on the network or other persons in contact with the line during a power cut. Also, when the public power supply is re-established, the generator can explode, catch fire or generate fires in the building's electrical installation.


















Before connecting electrical devices to the generator, make sure that their voltage specifications and frequency of functioning correspond to the technical characteristics of the generator. There may be damage if the device connected is not designed to function with a voltage tolerance of +/- 10% or a frequency tolerance of +/- 3 % compared with those of the generator.

## **PROTECTION OF THE ENVIRONMENT**

- You must periodically check the silencer (Before doing this, switch off the generator and let it cool completely). A damaged silencer increases noise.
- Do not throw motor oil into the drains but deposit it at a collection point set up for that purpose.
- The fuel for this machine is combustible and explosive. After stopping the machine, you must handle the remaining fuel correctly and meet local environmental requirements.
- To dispose of residual fluids, proceed as follows:
  - Close the fuel tap
  - Drain fuel from the fuel tank
  - Empty carburettor fuel

## SYMBOL

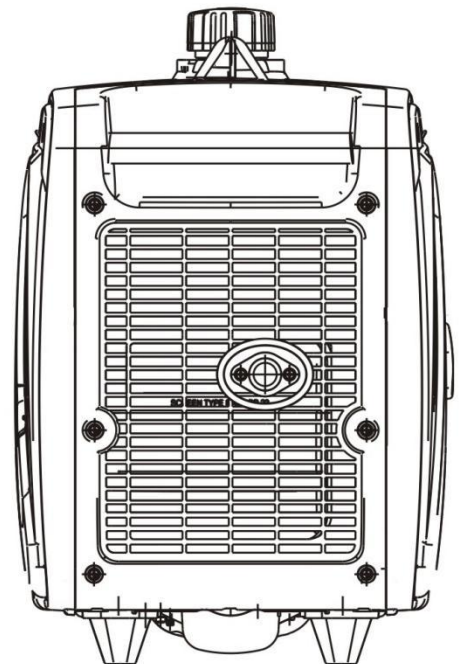
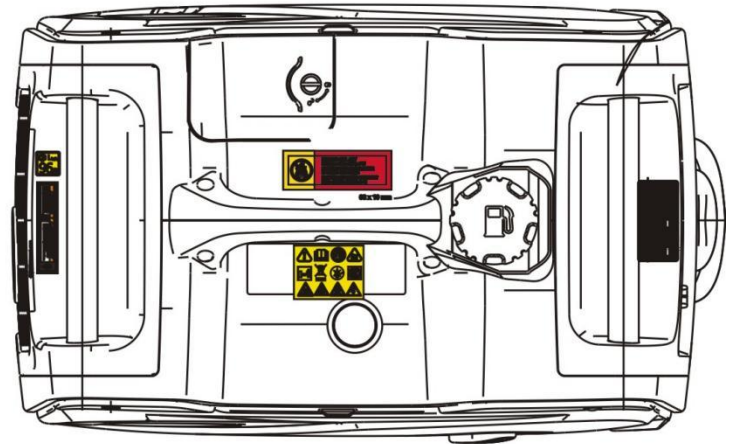
	Attention!
	Please read the manual carefully before using the unit!
	Conforms to relevant safety standards
	Do not dispose of old appliances with domestic rubbish .
	Guaranteed sound power level
	Ground connection
	Fill in engine oil
	It is forbidden to run the generator in an enclosed room because exhaust emissions can lead humans or animals to coma to death.
	This symbol indicates the surface is very hot and not touching
	Keep away from the machine
	Exhaust emissions are harmful to health of body
	No naked fire near the machine!
	Do not connect with the electricity system.
	Danger ! Electrical shock !
	No fire when refueling



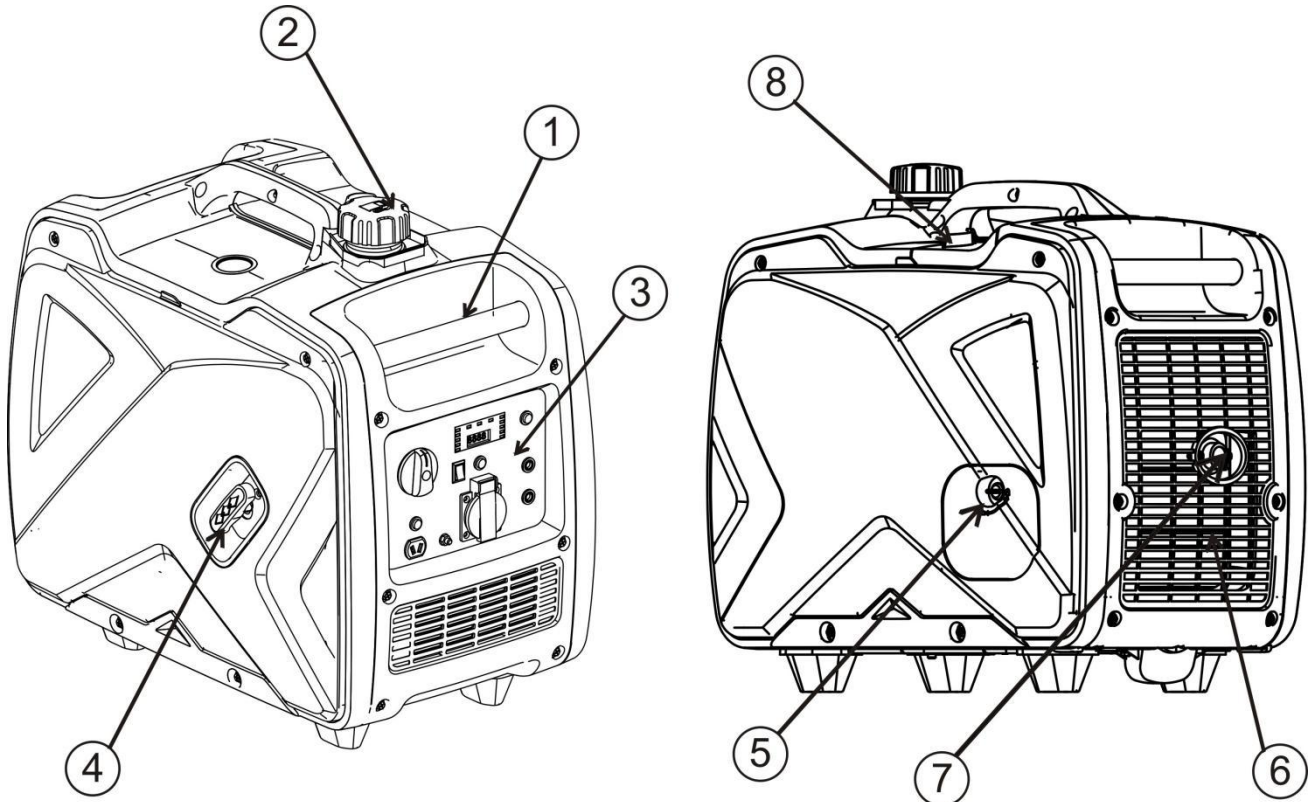
## 2. SAFETY LABEL POSITION

These decals indicate serious accident that you may cause.

Please read the decals, safety precautions and precautions mentioned in this manual carefully.

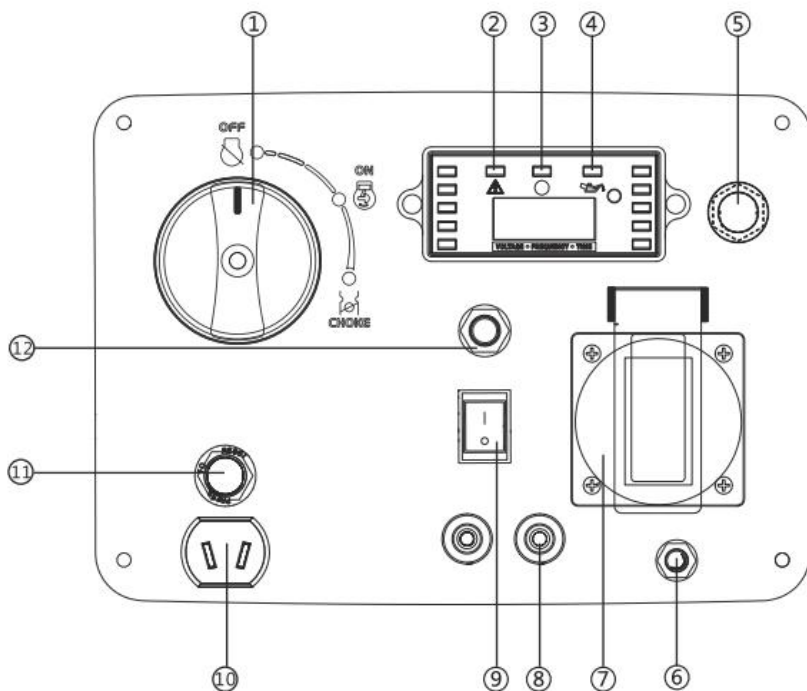


### 3. PARTS IDENTIFICATION



- |                   |                  |                                |
|-------------------|------------------|--------------------------------|
| ① Carrying handle | ④ Recoil starter | ⑦ Muffler                      |
| ② Fuel tank cap   | ⑤ Oil filler cap | ⑧ Spark plug maintenance cover |
| ③ Control panel   | ⑥ Louver         |                                |

### CONTROL PANEL

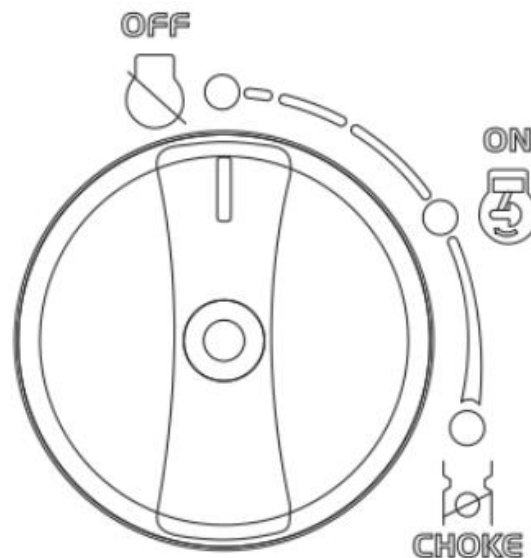


- |                             |
|-----------------------------|
| ① Switch knob (L)           |
| ② Overload indicator light  |
| ③ AC pilot light            |
| ④ Oil warning light         |
| ⑤ AC reset                  |
| ⑥ Ground (earth) terminal   |
| ⑦ AC receptacle             |
| ⑧ 8Parallel function,       |
| ⑨ ESC(Engine Smart Control) |
| ⑩ DC protector              |
| ⑪ DC Breaker                |
| ⑫ AC Breaker                |



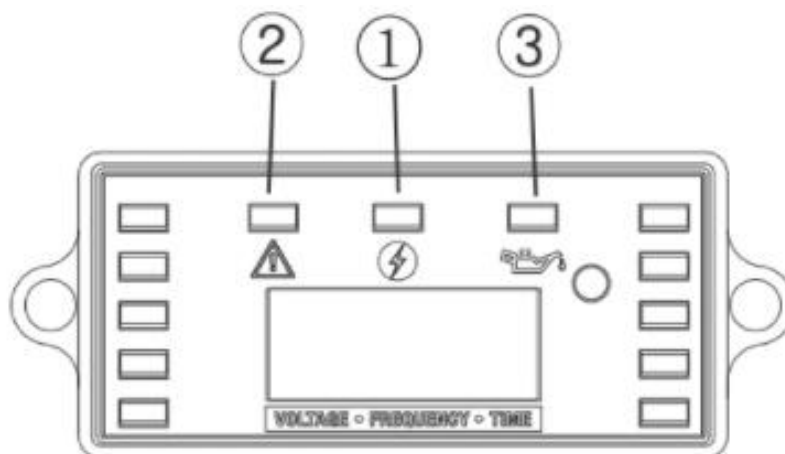
## 4. CONTROL FUNCTION

### SWITCH KNOB



- 1,Engine switch \fuel valve “OFF”  
Ignition circuit is switched off Fuel is switched off.  
The engine will not run.
- 2,Engine switch \fuel valve \ choke “ON”  
Ignition circuit is switched on. Fuel is switched on. Choke is switched on. The engine can be running.
- 3,Engine switch \fuel valve \ choke “CHOKE”  
Ignition circuit is switched on. Fuel is switched on. Choke is switched off The engine can be start.  
TIP: The choke is not required to start a warm engine.

### RECOIL LIGHT



#### **Oil warning light (red)**

When the oil level falls below the lower level,the oil warning light (3)comes on and then the engine stops automatically. Unless you refill with oil, the engine will not start again.

#### **Tips:**

If the engine stalls or does not start, turn the engine switch to “ON” and then pull the recoil starter.  
If the oil warning light flickers for a few seconds, the engine oil is insufficient.  
Add oil and restart.

#### **Overload indicator light (Red)**

The overload indicator light (2) comes on when an overload of a connected electrical device is detected, the inverter control unit overheats, or the AC output voltage rises. Then, the AC protector will trip, stopping power generation in order to protect the generator and any connected electric devices. The AC pilot light (Green) will go off and the overload indicator light (Red) will stay on, but the engine will not stop running.

When the overload indicator light comes on and power generation stops, proceed as follows:

1. Turn off any connected electric devices and stop the engine.
2. Reduce the total wattage of connected electric devices within the rated output.
3. Check for blockages in the cooling air inlet and around the control unit. If any blockages are found, remove.
4. After checking, restart the engine.

**Tips:**

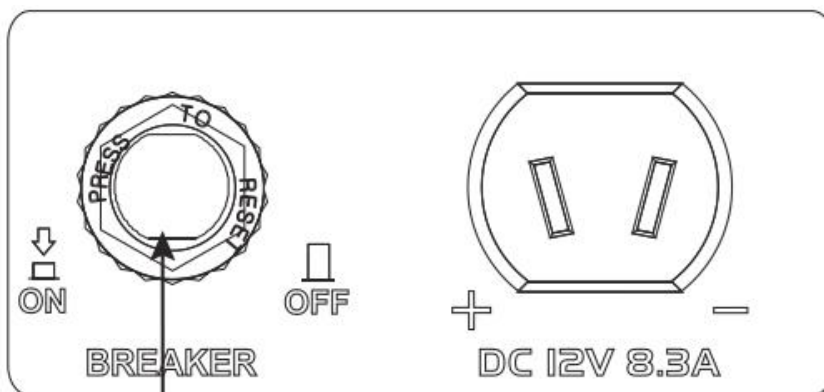
The overload indicator light may come on for a few seconds at first when using electric devices that require a large starting current, such as a compressor or a submersible pump. However, this is not a malfunction.

**AC pilot light (Green)**

The AC pilot light (1) comes on when the engine starts and produces power.

**DC protector**

The DC protector turns to “OFF” automatically when electric device being connected to the generator is operating and current above the rated flows. To use this equipment again, tum on DC protector by pressing its button to “ON”



DC protector

“ON” Direct current is output. “OFF” Direct current is not output.

**CAUTION!**

Reduce the load of the connected electric device below the specified rated output of the generator if the DC protector turns off. If the DC protector turns off again, stop using the device immediately and consult our company authorized dealer.

**ENGINE SMART CONTROL (ESC)**

**“ON”**

When the ESC switch is turned to “ON”, the economy control unit controls the engine speed according to the connected load. The results are better fuel consumption and less noise.

**“OFF”**

When the ESC switch is turned to “OFF”, the engine runs at the rated speed regard-less of whether is a load connected or not.



**Tip:**

The ESC must be turned to "OFF" when using electric devices that require a large starting current, such as a compressor or a submersible pump.

**GROUND (EARTH) TERMINAL**

Ground (Earth) terminal connects the earth line for prevention of electric shock. When the electric device is earthed, always the generator must be earthed.

Optional configuration

**PARALLEL CONNECTIONS**

The parallel connection function allows two units to be connected in parallel to boost output. The Parallel connection cord is sold separately and includes operation and safety instructions for use.

GROUND



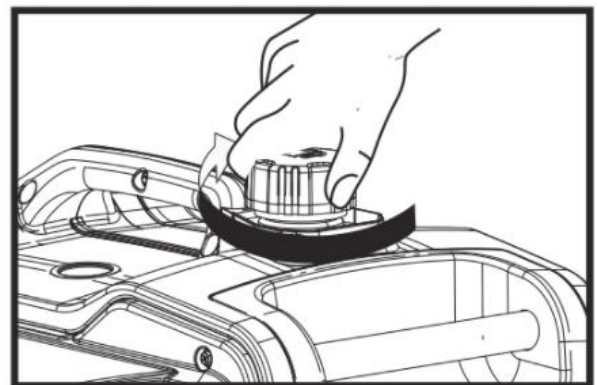
PARALLEL OPERATION OUTLETS



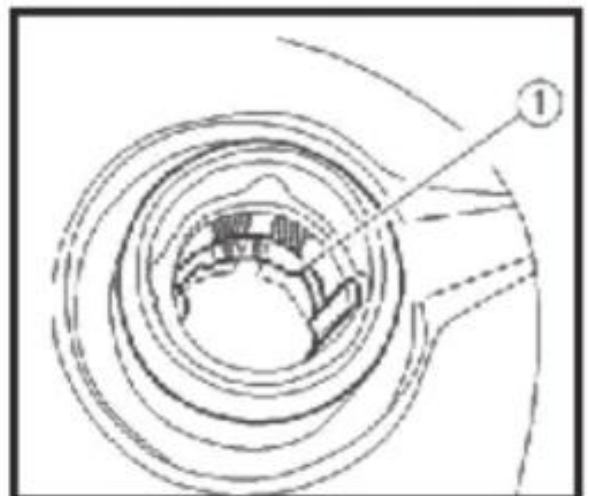
## 5. PREPARATION

**FUEL****DANGER!**

- Fuel is highly flammable and poisonous. Check "SAFETY INSTRUCTIONS" carefully before filling.
- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- After fill the fuel, make sure the fuel tank cap tightened securely.

**NOTICE:**

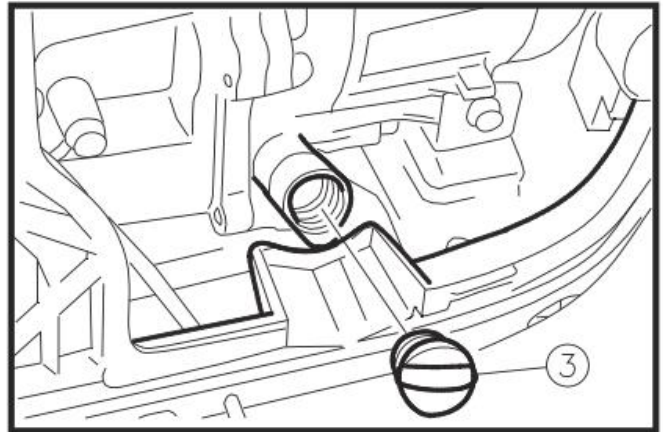
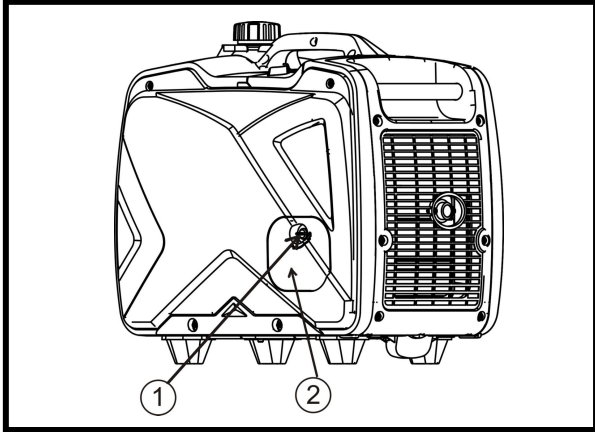
- Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.
- Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts.
- Remove the fuel tank cap and fill the fuel into the tank up to the red level (1)
- Recommended fuel: Unleaded gasoline
- Fuel tank capacity: Total: 5.5 L
- When the fuel filter screen is not marked, the volume of the oil level distance from the lip of the oil tank at the 25.4mm of the oil tank is nominal; When the fuel filter is marked, the volume of the fuel is added to the mark.



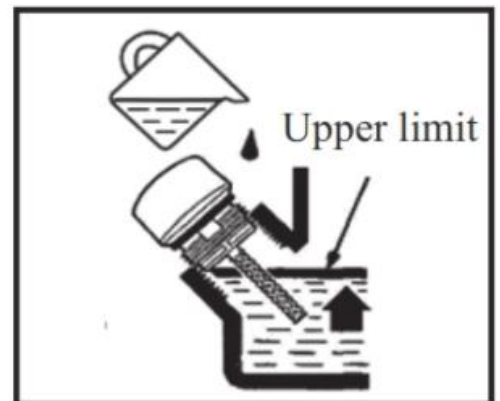
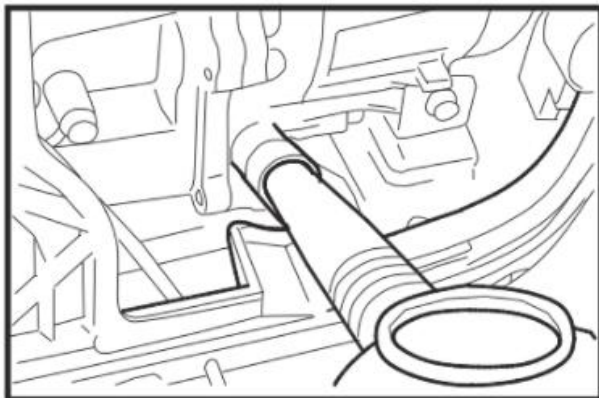
## **ENGINE OIL**

The generator has been shipped without engine oil. Do not start the engine till fill with the sufficient engine oil.

- Place the generator on a level surface.
- Remove the screws (1), and then remove the cover(2)
- Remove the oil filler cap(3)



- Fill the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.
- Install the cover and tighten the screws.
- Recommended engine oil: SAE SJ 15W-40
- Recommended engine oil grade: API Service SE type or higher
- Engine oil: 0.53L



## 6. OPERATING THE GENERATOR



### WARNING

- ◆ In order to prevent electric shock caused by improper use, the generator should be grounded. Connect a thick cable between the ground terminal of the generator and the external ground source.
- ◆ If the unit is used as a backup power source for a building, the connection of the generator to its power system shall be carried out by a professional electrician and must comply with the applicable laws and regulations. Otherwise, the power of the generator may impact on the public circuit. If the power company employees or others touch the wire in the meantime, it will lead to injury or even death; At the same time, due to the impact of electricity, the generator may explode, burn or cause the building electricity equipment to fire.



### BE CAUTIOUS

- ◆ When the generator is running continuously, do not exceed the rated power. In other cases, pay attention to the total power of the connected equipment.
- ◆ Do not exceed the rated current of the socket.
- ◆ Do not use the generator for purposes that it cannot achieve. Please also observe the following requirements:
  - Do not parallel generators with unauthorized units or use unauthorized parallel power cables or boxes.
  - Do not extend the exhaust pipe
- ◆ If a longer cable is required, use a flexible cable for with rubber sleeve (the cable should comply with IEC standards).
- ◆ The length of the extension cable is limited, the cable of 2mm<sup>2</sup> is 60 meters long; the cable of 3mm<sup>2</sup> is 100 meters long.
- ◆ The generator should be away from other electric wires or cables, such as: electricity transmission network.



### Note

- ◆ When using AC power, you can use DC power at the same time. Please pay attention to the sum of the power of AC and DC. It cannot exceed the rated power of the generator.

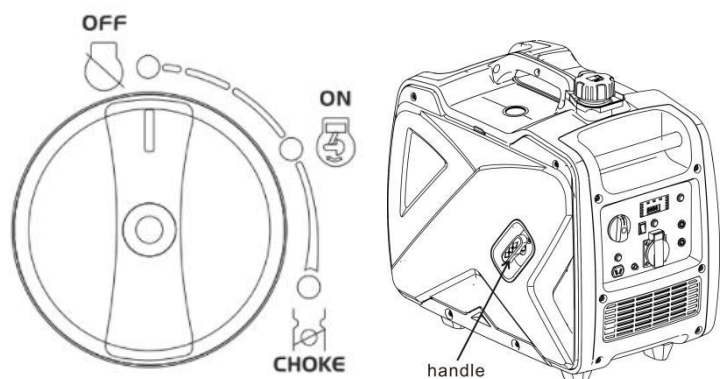
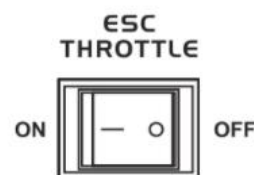
### STARTING THE ENGINE

- 1) Turn the ESC switch to "OFF"
- 2) Turn the switch knob to "CHOKE".
  - Ignition circuit is switched on.
  - Fuel is switched on.
  - chock is switched off

**TIP:** The choke is not required to start a warm engine. Push the choke knob in to the position "ON".

- 3) Pull slowly on the recoil starter until it is engaged, then pull it briskly.

**TIP:** Grasp the carrying handle firmly to prevent the generator from falling over when pulling the recoil starter.





4) After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned to the “ON” position.

**TIP:** When starting the engine, with the ESC “ON”, and there is no load on the generator:

**STOPPING THE ENGINE**

**TIP:** Turn off any electric devices.

- 1) Turn the ESC to “OFF”.
- 2) Disconnect any electric devices.
- 3) Turn the switch knob to “OFF”.
  - a. Ignition circuit is switched off.
  - b. Fuel is switched off.

**ALTERNATING CURRENT (AC) CONNECTION**

- Be sure all electric devices including the lines and plug connections are in good condition before connection to the generator.
- Be sure the total load is within generator rated output.
- Be sure the receptacle load current is within receptacle rated current.




**TIP:** Make sure to ground (Earth) the generator. When the electric device is earthed, always the generator must be earthed.

- 1) Start the engine.
- 2) Turn the ESC to “ON”.
- 3) Plug in to AC receptacle.
- 4) Make sure the AC pilot light is on.
- 5) Turn on any electric devices.

**TIP:** The ESC must be turned to “OFF” to increase engine speed to rated rpm. If the generator is connected to multiple loads or electricity consumers, please remember to first connect the one with the highest starting current, and last connect the one with the lowest starting current.

**APPLICATION RANGE**

When using the generator, make sure the total load is within rated output of a generator. Otherwise, generator damage may occur.

AC			
Power factor	1	0.8-0.95	0.4-0.75
Rated output power	≅ 3000W	≅ 24000W	≅ 1.020W

**TIP:**

- Application wattage indicates when each device is used by itself.
- The simultaneous usage of AC and DC power is possible but total wattage should not exceed the rated output.

**EX:**

Generator rated output		3000W
Frequency	Power factor	
AC	1.0	≅ 3000W
DC	N/A	100W(12V/8.3A)

- The overload indicator light comes on when total wattage exceeds the application range.

**NOTICE:**

- Do not overload. The total load of all electrical appliances appliance must not exceed the supply range of the generator. Overloading will damage the generator.
- When supplying precision equipment, electronic controllers, PCs, Electronic computers, microcomputer based equipment or battery chargers, keep the generator a sufficient distance away to prevent electrical interference from the engine. Also ensure that electrical noise form the engine does not interfere with any other electrical devices located near the generator
- If the generator is to supply medical equipment, advice should first be obtained from the manufacturer, a medical professional or hospital.
- Some electrical appliances or general-purpose electric motors have High starting currents, and cannot therefore be used, even if they lie within the supply ranges given in the above table. Consult the equipment manufacturer for further advice.

## 7. MAINTENANCE

Maintenance and adjustment schedules are developed to keep the generator in the best working condition.

<b>Warning</b>
◆ Turn off the engine before any maintenance. If the engine must be operated during maintenance, be sure to operate it in a ventilated area because the exhaust contains toxic carbon monoxide.
<b>Be careful</b>
◆ Please use authorized spare parts. The use of inferior parts will damage the engine.

### Maintenance schedule

Please do the maintenance within the specified month or hour.

Project	Periodic maintenance time (1)	Each use	Per month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Per year or 300 hours
Engine oil	an examination	○				
	Replace		○			
Air filter	an examination	○				
	Clean			○ (2)		
Muffler Anti-Fire	an examination	○				
	Clean		○			
Spark plug	Cleaning-Adjustment				○	
Fuel sediment bowl	Clean				○	
Lash	Cleaning-Adjustment					○ (3)
Fuel tank and filter	Clean					○ (3)
Fuel line	an examination	Every two years [If necessary, change (3)]				

**Note:**

- Normal maintenance interval;
- In areas where pollution is severe, check and repair frequently.

- The above regular maintenance schedule is calculated at ambient temperature of 25°C. If the ambient temperature exceeds 30°C, reduce the load power of the generator or shorten the time interval for replacing the oil (choose one operation).

## **Oil change**

When the engine is warm, you can quickly and completely discharge the oil.

**⚠ Be careful**

- ◆ Make sure the engine switch and the fuel switch are off before draining the oil.

- Loosen the oil drain screw, drain the oil.
- Install the oil drain tube.
- Fill the recommended oil, check the oil level.
- After filling a new oil, shake the generator about a few times to ensure that the float of the oil alarm system works properly.

### **NOTICE:**

- If the gasoline engine frequently works 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 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.

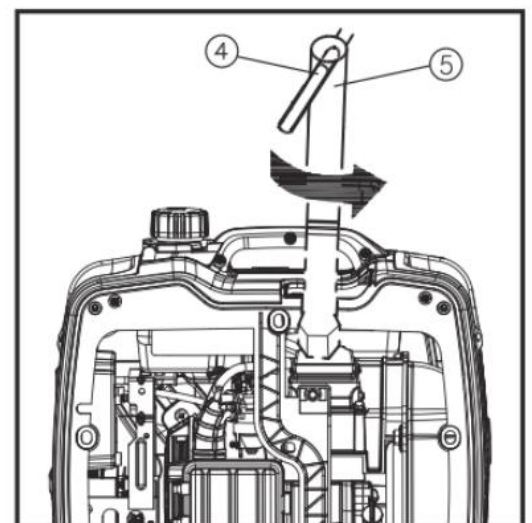
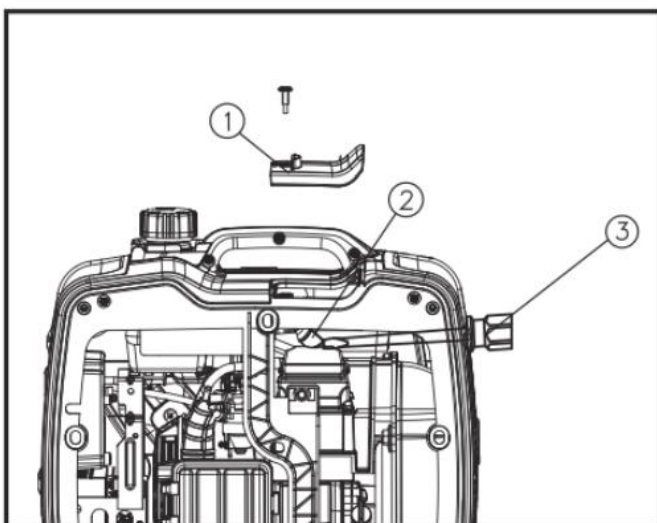
### **WARNING!**

**Stop the engine before servicing. Put the engine on a level surface and remove the spark plug cap to prevent the engine from starting. Do not operate the 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.**

## **Spark plug inspection**

The spark plug is important engine components, which should be checked periodically.

- Remove the cap(1) , and use the tool(3) remove the spark plug cap(2) and Insert the tool(5) through the hole from the outside of the cover.



- Insert the handlebar(4) into the tool remove the spark plug.
- Check for discoloration and remove the carbon. The porcelain insulator around the center electrode of spark plug should be a medium-to-light tan color.

- Check the spark plug type and gap.

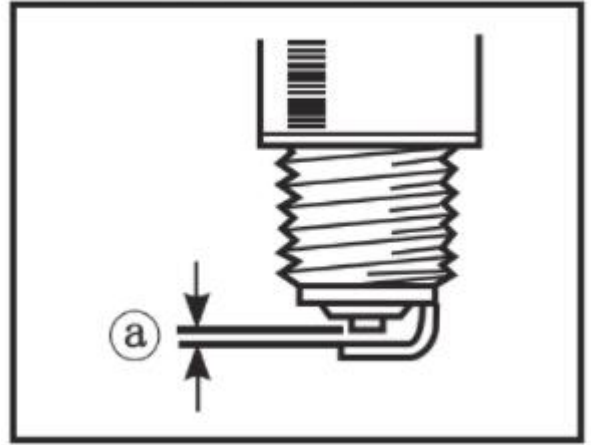
Standard Spark Plug: F6RTC

Spark Plug Gap: 0.7-0.8mm

**TIP:** The spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to specification.

- Install the spark plug. Spark Plug Torque: 28 N.m

**TIP:** If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4-1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible. Install the spark plug cap and spark plug cover.



### **Carburetor adjustment**

The carburetor is a vital part of the engine. Adjusting should be left to our company authorized dealer with the professional knowledge, specialized date and equipment to do so properly.

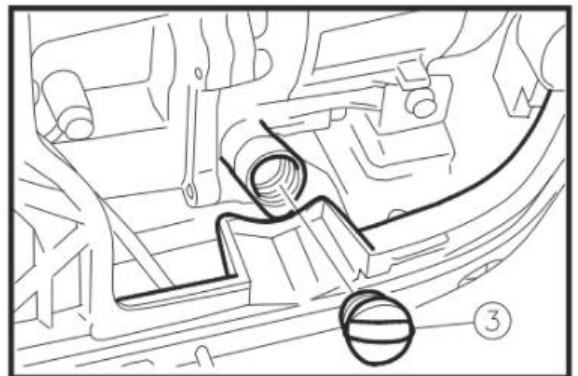
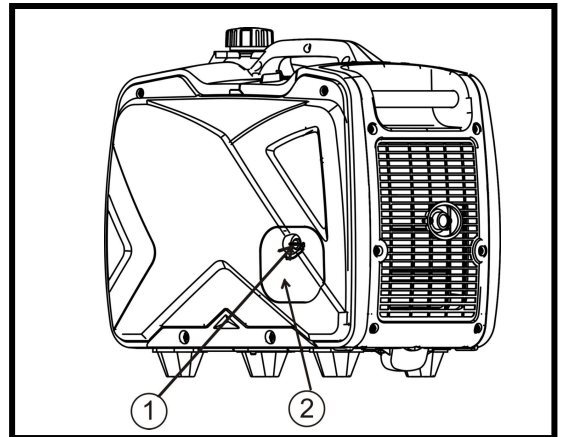
### **Engine oil replacement**

#### **WARNING!**

Avoid draining the engine oil immediately after stopping the engine. The oil is hot and should be handled with care to avoid burns.

1) Place the generator on a level surface and warm up the engine for several minutes. Then stop the engine and turn the 3 in 1 switch knob, fuel tank cap air vent knob to "OFF".

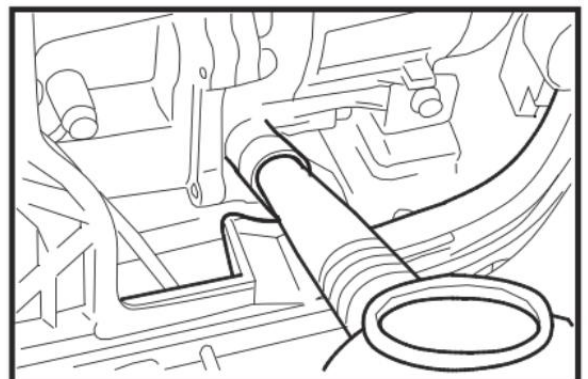
2) Remove the screws (1) and then remove the cover (2)



3) Remove the oil filler cap (3)

4) Place an oil pan under the engine. Tilt the generator to drain the oil completely.

5) Replace the generator on a level surface.



## NOTICE

Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.

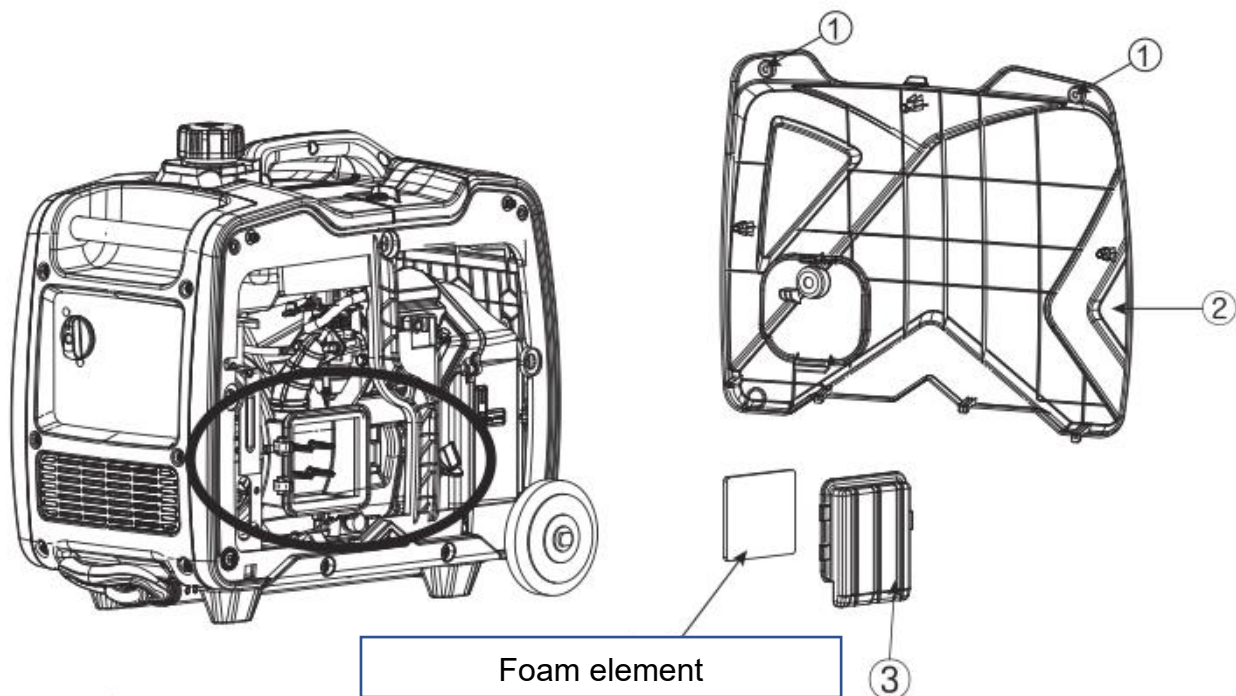
## NOTICE:

Be sure no foreign material enters the crankcase.

- Install the oil filler cap.
- Install the cover and tighten the screws.

## Air filter

- 1) Remove the screws (1), and then remove the cover(2)
- 2) Remove the air filter case cover(3)



- 3) Remove the foam element
- 4) Wash the foam element in solvent and dry it.
- 5) Oil the foam element and squeeze out excess oil. The foam element should be wet but not dripping.

**NOTICE: Do not wring out the foam element when squeezing it. This could cause it to tear.**

- 6) Insert the foam element into the air filter case.

**TIP:** Be sure the foam element sealing surface matches the air filter so there is no air leak.

**The engine should never run without the foam element; excessive piston and cylinder wear may result.**

- 7) Install the air filter case cover in its original position and tighten the screw.
- 8) Install the cover and lock it.

## Muffler screen and spark arrester

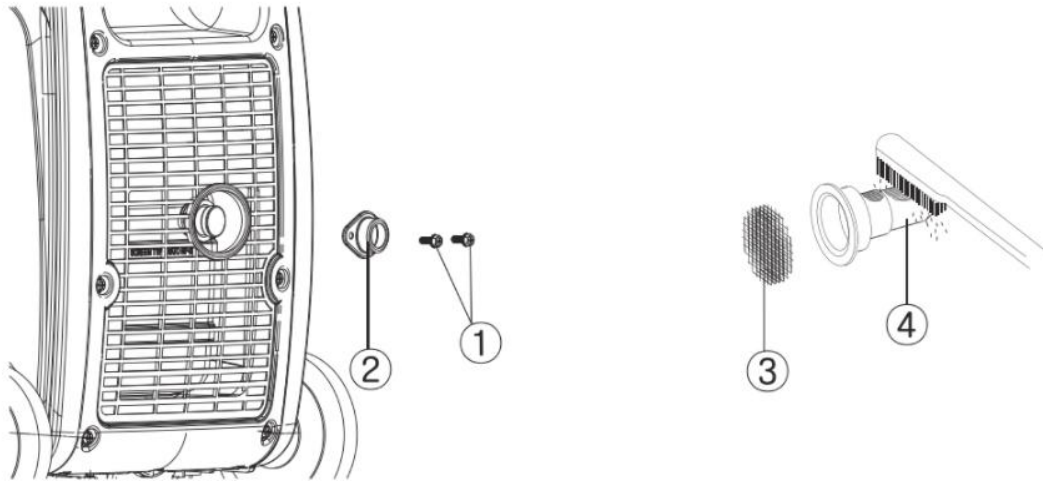
### WARNING!

The engine and muffler will be very hot after the engine has been run. Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.

- 1) Remove the screws(1)
- 2) Remove the muffler cap(2), the muffler screen (3)and spark arrester(4).



3) Clean the carbon deposits on the muffler screen and spark arrester using a wire brush.



### NOTICE

When cleaning, use the wire brush lightly to avoid damaging or scratching of muffler screen and spark arrester.

4) Check the muffler screen and spark arrester. Replace them if damaged.

5) Install the spark arrester.

**TIP:** Align the spark arrester projection with the hole in the muffler pipe.

6) Install the muffler screen and the muffler cap.

7) Install the cover and tighten the screws.

### Fuel tank filter

#### WARNING!

**Never use the gasoline while smoking or in the vicinity of an open flame.**

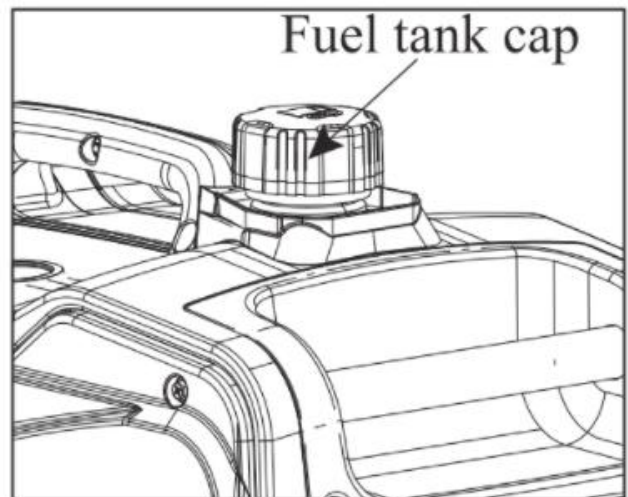
1) Remove the fuel tank cap and filter.

2) Clean the filter with gasoline.

3) Wipe the filter and install it.

4) Install the fuel tank cap.

**Be sure the fuel tank cap is tightened securely.**



## 8. TRANSPORTATION/WAREHOUSING

To prevent fuel leakage during transport or temporary storage, turn off the oil switch and place the generator in a location where no fuel leaks.



### WARNING

When transporting the generator:

- ◆ Do not fill too much fuel into fuel tank. (There should be no fuel in the filler).
- ◆ Make sure the oil switch is turned to "OFF".
- ◆ Generator should be placed in a stable position to prevent rollover during transportation.
- ◆ When the generator is still in transit, do not run the generator. Remove the generator from the vehicle and use it at the ventilation.
- ◆ When placing the generator in a transport vehicle, avoid placing it in direct sunlight. If the generator is placed in a sealed compartment, the high temperature inside the compartment may cause the fuel to evaporate and cause an explosion.
- ◆ Do not transport the generator on a rough road for a long time. If you have to do so, please drain the fuel before transporting the generator.

Before long-term storage:

- Make sure the storage area is dry and clean.
- Drain all fuel out.



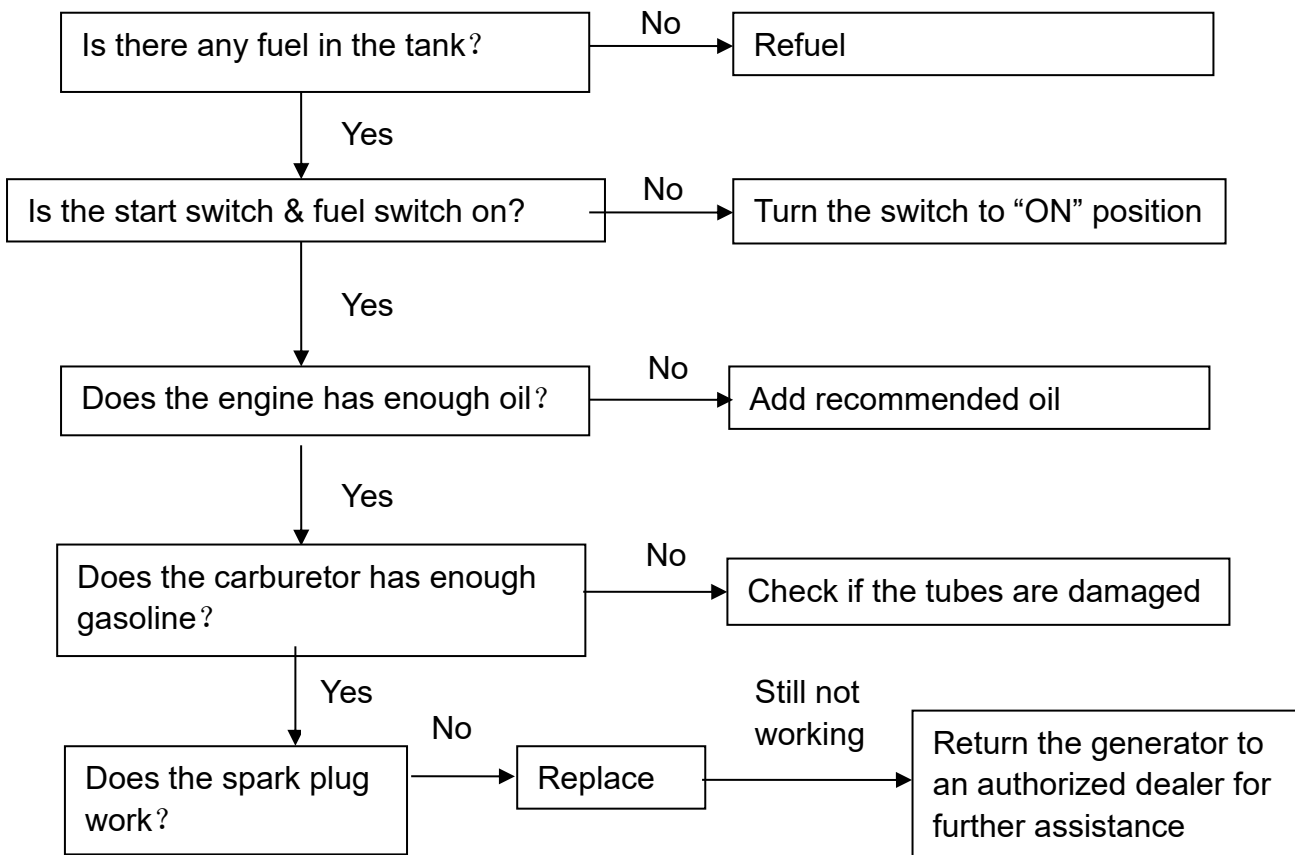
### WARNING

- ◆ Under certain conditions, gasoline is extremely flammable and explosive. Stored generators may contain unburned clean fuel. Therefore, fireworks should be prohibited in the area where generators are stored.

- Transfer the gasoline from the tank to the reserve tank. Loosen the carburetor bolt and transfer the gas oil to the reserve tank; loosen the vent bolt, remove the spark plug and pull the coil 3-4 times to drain the remaining gas in the gas pump.
- Exhaust oil. Remove the spark plug, pour a tablespoon of clean oil into the cylinder, pull the start handle a few times to scatter the oil, and then install the spark plug back.
- Pull the handle slowly until it feels pressure. At this moment, the piston is rising to the top of its compression stroke and the exhaust valve is closed. Storage in this case helps prevent rust inside the engine.

# 9. TROUBLESHOOTING

## Cannot start the engine



### NOTICE

- ◆ If the generator cannot be started for the first time when the oil is added, or the oil is changed, the oil alarm indicator flashes when pulling the start handle, at this time, the generator should be shaken back and forth to ensure that the float of the oil alarm floats. If the generator still does not start, please follow the troubleshooting instruction above.

### NOTICE

- ◆ Make sure no fuel spills around the spark plug. Spilled fuel may catch fire.

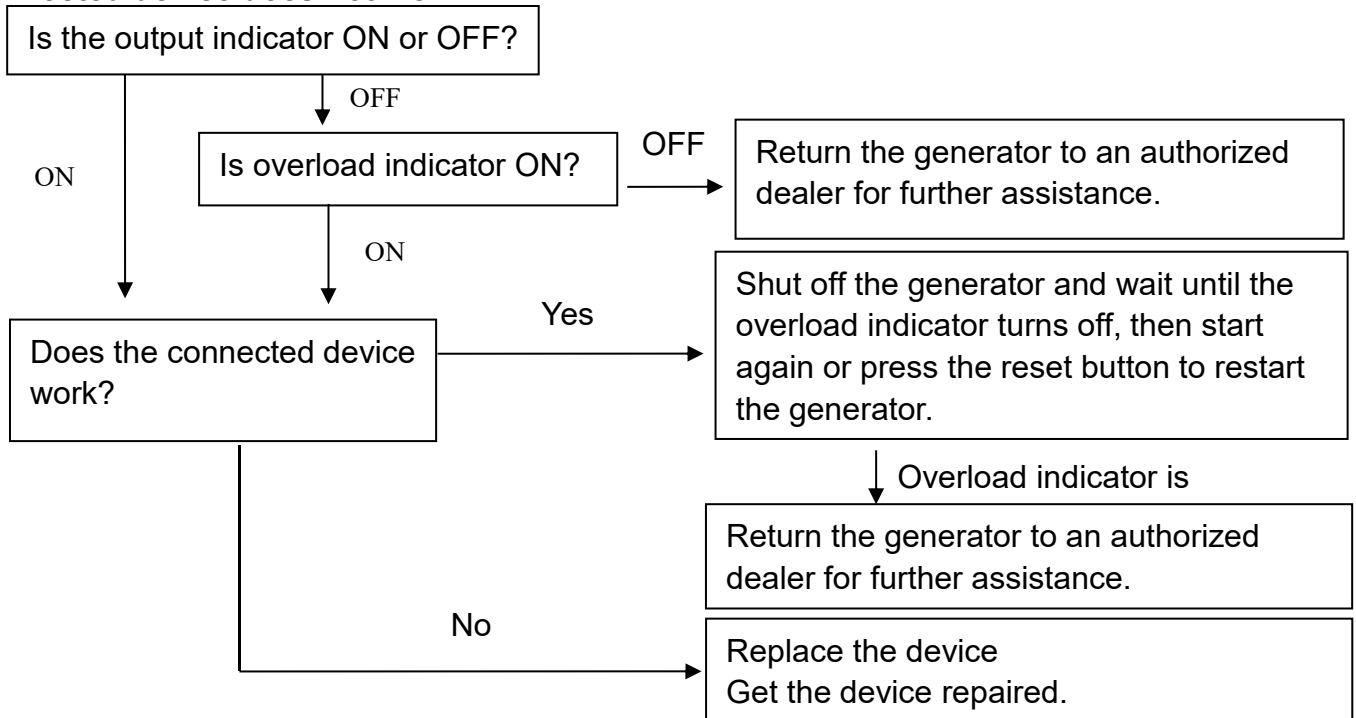
### Check spark plug:

- Remove the ignition coil and clean the dirt around the spark plug.
- Remove the spark plug and insert the spark plug into the ignition coil.
- Connect the spark plug side electrode with wire to the metal part of the engine to ground. (You can use the DC output wire to replace the wire. Use one end of the clip to clamp the metal part of the engine, and the other end connect to the side electrode of the spark plug.)
- Pull the start handle, spark should jump from the gap.

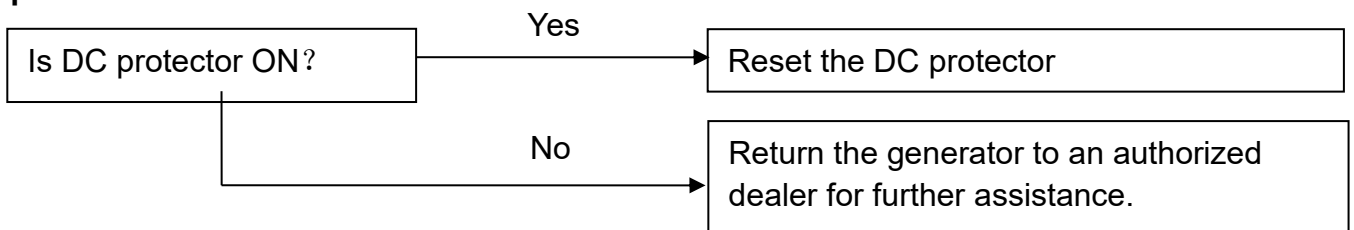
### NOTICE

- ◆ Ensure that the engine is cooled down when you check the spark plug, or the high temperature of the engine and spark plug will cause burns.

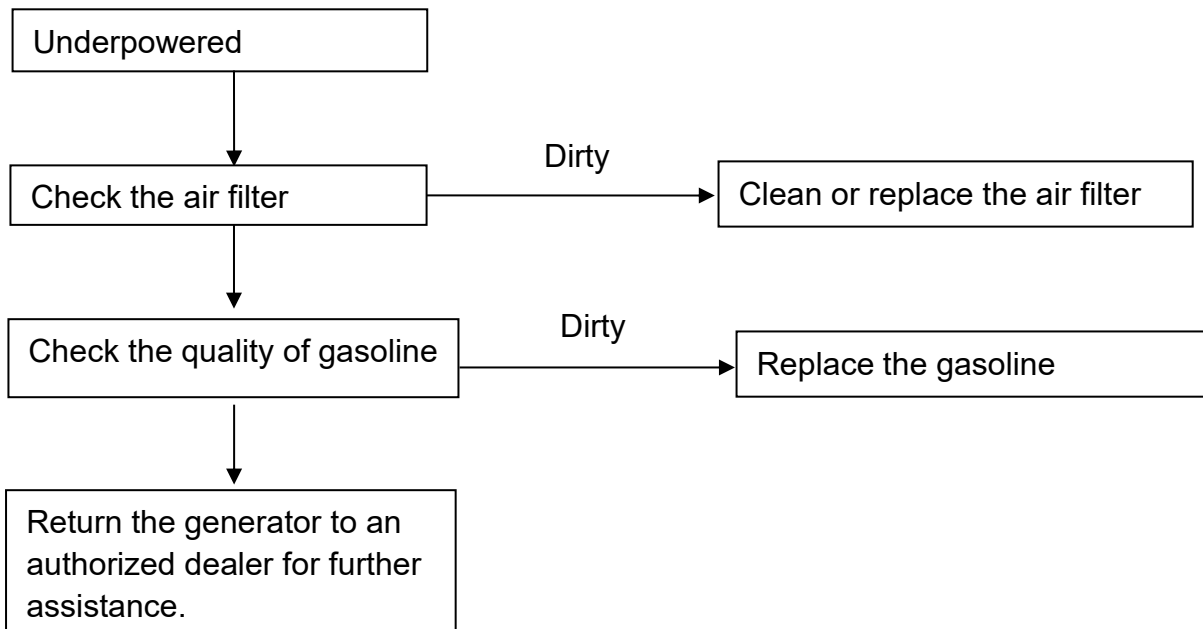
### Connected device does not work



### No power in DC socket



### Underpowered

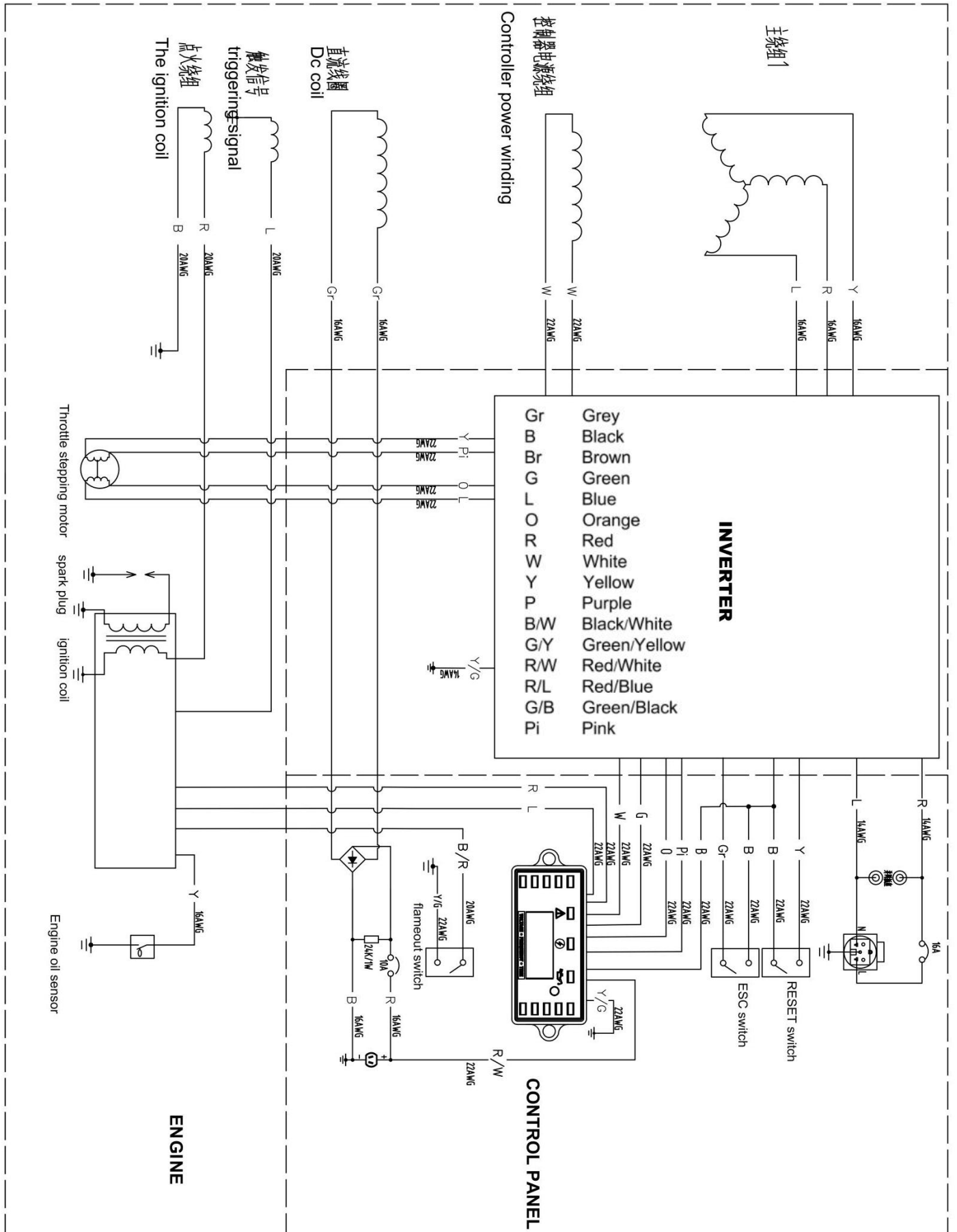


## 10. SPECIFICATIONS

Engine	Model No.	R185-Vi
	Engine type	4-stroke, single cylinder, OHV
	Displacement( CC)	185cc
	Rated speed	3600/min
	Starting system	Recoil
	Fuel Volume (L)	5,5L
	Lube. Oil capacity (L)	0.55 L
	Spark plug	F6RTC
	Sound pressure level: L <sub>pA</sub>	73,3 dB(A)
	Sound power level L <sub>wA</sub>	93,3 dB(A), K = 2,81dB(A)
Guaranteed sound power level	96 dB(A)	
Generator set	AC out put Voltage	230 V~
	AC Frequency	50 Hz
	AC rated output power (COP)	COP 3.0kW
	AC max output power	Max 3.3kW S2:5min
	AC Rated current	13A
	Power factor (cosΦ)	1.0
	Performance class	G2
	Quality class	B
	Max. temperature	40°C
	Max. altitude	1000m
	Protection class	IP23M
	DC output	12V/8.3A
	Length x Width x Height (mm)	561x381x516
	Gross weight	29kg



# 11. CIRCUIT DIAGRAM



# 12. CE DECLARATION OF CONFORMITY



**BUILDER SAS**

**32 rue Aristide Bergès - Z.I. du Casque - 31270 Cugnaux - France**

**Tel : +33 (0)5.34.502.502 Fax : +33 (0)5.34.502.503**

States that the designated below machine:

Product: Petrol Inverter generator

Model: HG3300I-A

Serial number: 20230134332-20230134543

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature):

Machinery Directive 2006/42/EC

EMC Directive 2014/30/EC

ROHS Directive (EU) 2015/863 amending 2011/65/EU

Emission directive (EU) 2016/1628 & 2018/989/EU

Noise directive 2000/14/CE Annex VI + 2005/88/CE

European harmonized standards (including, if applicable, their amendments up to the date of signature):

EN ISO 8528-13:2016

EN 55012:2007/A1:2009

EN 61000-6-1:2007

EN IEC 61000-6-1: 2019

Measured sound power level, L<sub>wA</sub>: 93,3 dB(A), K = 2,81 dB(A)

Guaranteed Sound power level: 96 dB(A)

Certification Body of the Notified Body 0036  
according to Directive 2000/14/EC:



Digital unterschrieben von Marc Goetzke  
DN: cn=Marc Goetzke, o=TÜV SÜD Industrie  
Service GmbH, ou=Notified Body 0036 for 2000/14/  
EC, email=nb.outdoor@tuvsud.com, c=DE  
Datum: 2022.02.21 15:18:19 +01'00'

Cugnaux: 10/02/2023

Philippe MARIE/PDG

## 13. WARRANTY

# HYUNDAI

## WARRANTY

The manufacturer guarantees the product against defects in material and workmanship for a period of 2 years from the date of the original purchase. The warranty only applies if the product is for household use. The warranty does not cover breakdowns due to normal wear and tear.

The manufacturer agrees to replace parts identified as defective by the designated distributor. The manufacturer does not accept responsibility for the replacement of the machine, in whole or in part, and/or ensuing damage.

### The warranty does not cover breakdowns due to:

- insufficient maintenance.
- abnormal assembly, adjustment or operations of the product.
- parts subject to normal wear and tear.

### The warranty does not extend to:

- shipping and packaging costs.
- using the tool for a purpose other than that for which it was designed.
- the use and maintenance of the machine done in a manner not described in the user manual.

Due to our policy of continuous product improvement, we reserve the right to alter or change specifications without notice. Consequently, the product may be different from the information contained therein, but a modification will be undertaken without notice if it is recognized as an improvement of the preceding characteristic.

### READ THE MANUAL CAREFULLY BEFORE USING THE MACHINE.

When ordering spare parts, please indicate the part number or code, you can find this in the spare parts list in this manual. Keep the purchase receipt; without it, the warranty is invalid. To help you with your product, we invite you to contact us by phone or via our website:

- **+33 (0)9.70.75.30.30**
- **<https://services.swap-europe.com/contact>**

You must create a "ticket" via the web platform.

- Register or create your account.
- Indicate the reference of the tool.
- Choose the subject of your request.
- Describe your problem.
- Attach these files: invoice or sales receipt, photo of the identification plate (serial number), photo of the part you need (for example: pins on the transformer plug which are broken).



# 14. PRODUCT FAILURE

## WHAT TO DO IF MY MACHINE BREAKS DOWN?

### **If you bought your product in a store:**

- a) Empty the fuel tank if your product has one.
- b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.

Go to the store with the complete machine and with the receipt or invoice.

### **If you bought your product on a website:**

- a) Empty the fuel tank if your product has one..
- b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.
- c) Create a SWAP-Europe service ticket on the site: <https://services.swap-europe.com> When making the request on SWAP-Europe, you must attach the invoice and the photo of the nameplate (serial number).
- d) Contact the repair station to make sure it is available before dropping off the machine.

Go to the repair station with the complete machine packed, accompanied by the purchase invoice and the station support sheet downloadable after the service request is completed on the SWAP-Europe site

For machines with engine failure from manufacturers BRIGGS & STRATTON, HONDA and RATO, please refer to the following instructions.

Repairs will be done by approved engine manufacturers of these manufacturers, see their site:

- <http://www.briggsandstratton.com/eu/fr>
- <http://www.honda-engines-eu.com/fr/service-network-page;jsessionid=5EE8456CF39CD572AA2AEEDFD290CDAE>
- <https://www.rato-europe.com/it/service-network>

**Please keep your original packaging to allow for after-sales service returns or pack your machine with a similar cardboard box of the same dimensions.**

**For any question concerning our after-sales service you can make a request on our website <https://services.swap-europe.com>**

**Our hotline remains available at +33 (9) 70 75 30 30.**



# 15. WARRANTY EXCLUSIONS

## THE WARRANTY DOES NOT COVER:

- Start-up and setting up of the product.
- Damage resulting from normal wear and tear of the product.
- Damage resulting from improper use of the product.
- Damage resulting from assembly or start-up not in accordance with the user manual.
- Breakdowns related to carburetion beyond 90 days and fouling of carburetors.
- Periodic and standard maintenance events.
- Actions of modification and dismantling that directly void the warranty.
- Products whose original authentication marking (brand, serial number) has been degraded, altered or withdrawn.
- Replacement of consumables.
- The use of non-original parts.
- Breakage of parts following impacts or projections.
- Accessories breakdowns.
- Defects and their consequences linked to any external cause.
- Loss of components and loss due to insufficient screwing.
- Cutting components and any damage related to the loosening of parts.
- Overload or overheating.
- Poor power supply quality: faulty voltage, voltage error, etc.
- Damages resulting from the deprivation of enjoyment of the product during the time necessary for repairs and more generally the costs related to the immobilization of the product.
- The costs of a second opinion established by a third party following an estimate by a SWAP-Europe repair station
- The use of a product which would show a defect or a breakage which was not the subject of an immediate report and/or repair with the services of SWAP-Europe.
- Deterioration linked to transport and storage\*.
- Launchers beyond 90 days.
- Oil, petrol, grease.
- Damages related to the use of non-compliant fuels or lubricants.

\* In accordance with transport legislation, damage related to transport must be declared to carriers within 48 hours maximum after observation by registered letter with acknowledgement of receipt.

This document is a supplement to your notice, a non-exhaustive list.

**Attention:** all orders must be checked in the presence of the delivery person. In case of refusal by the delivery person, it you must simply refuse the delivery and notify your refusal.

**Reminder:** the reserves do not exclude the notification by registered letter with acknowledgement within 72 hours.

**Information:** Thermal devices must be wintered each season (service available on the SWAP-Europe site). Batteries must be charged before being stored.

**HYUNDAI**  
POWER PRODUCTS

**For Inquiries, please contact:**

BUILDER SAS

32, Rue Aristide Bergès Z1 31270 Cugnaux, France

Tél.: +33(0)5.34.502.502 Fax : +33(0)5.34.502.503

<http://www.hyundaipower-fr.com/>

Fabriqué en République Populaire de Chine(PRC)