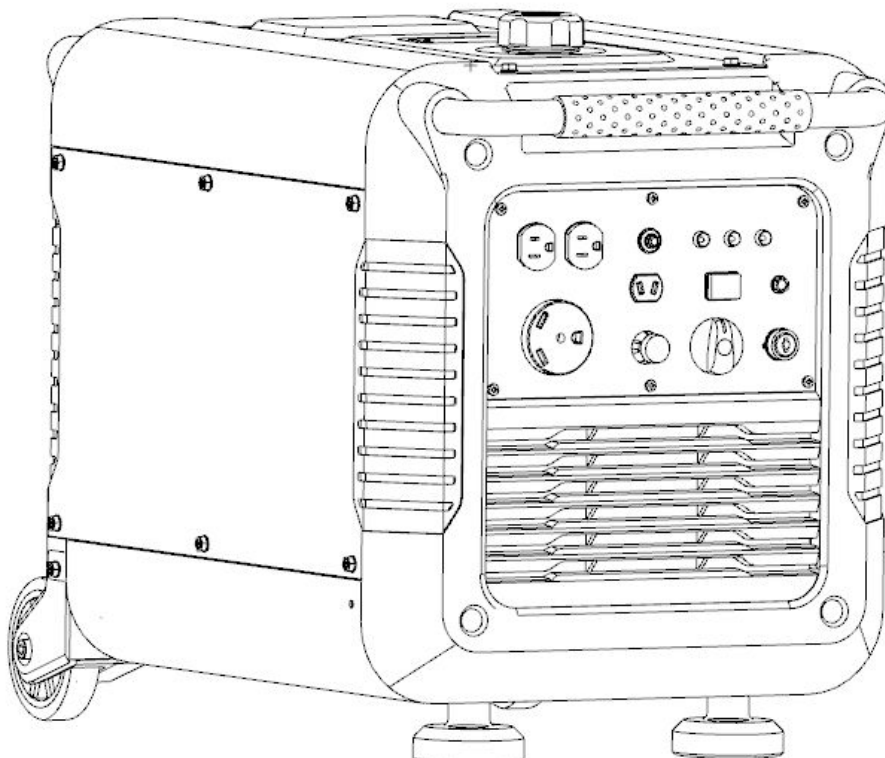




**We Power Your World!**

*Owner's Manual of Generator for*

**GPG3500iE**



**Green-Power America, LLC**

# Products Service Information

Green-Power America LLC thanks you for choosing a Green-Power America LLC product.

Please register your product within 10 days of purchase to ensure that you receive optimal service. Always keep copy of your original receipt.

By registering your product, you are protected:

1. You have a record of the product purchase,
2. Customer Service can Better serve you on Warranty related issues,
3. Green Power America will be able to contact you in the unlikely event that a product recall notification is necessary.

You can register your product in one of two ways as follows:

**Option 1:** Go to the Green Power America website at [www.green-poweramerica.com/service](http://www.green-poweramerica.com/service) and follow the instructions to register online.


**Option 2:** Fill out the form on the Warranty Card included in the box, and return via standard mail to Green Power America at 840 9th Street Suite H, Upland CA 91786. Please note that postage is required to mail the registration form back to Green Power America.

If you still have any questions regarding the usage or operation of your generator after you have carefully read the manual, or if you have any quality issues during operation, please call our toll-free service number shown below:

**888-834-4218**

# SAFETY WARNINGS

Personal safety and property safety of you and others are very important.

Please read these messages which are preceded by a symbol  or **NOTICE** carefully.

## **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.

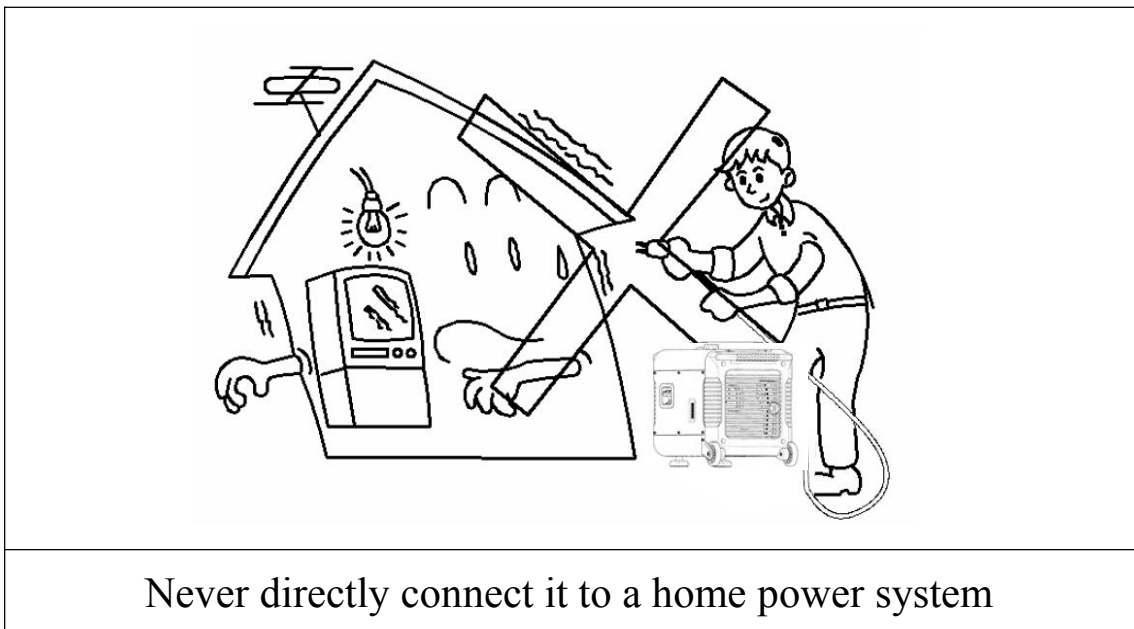
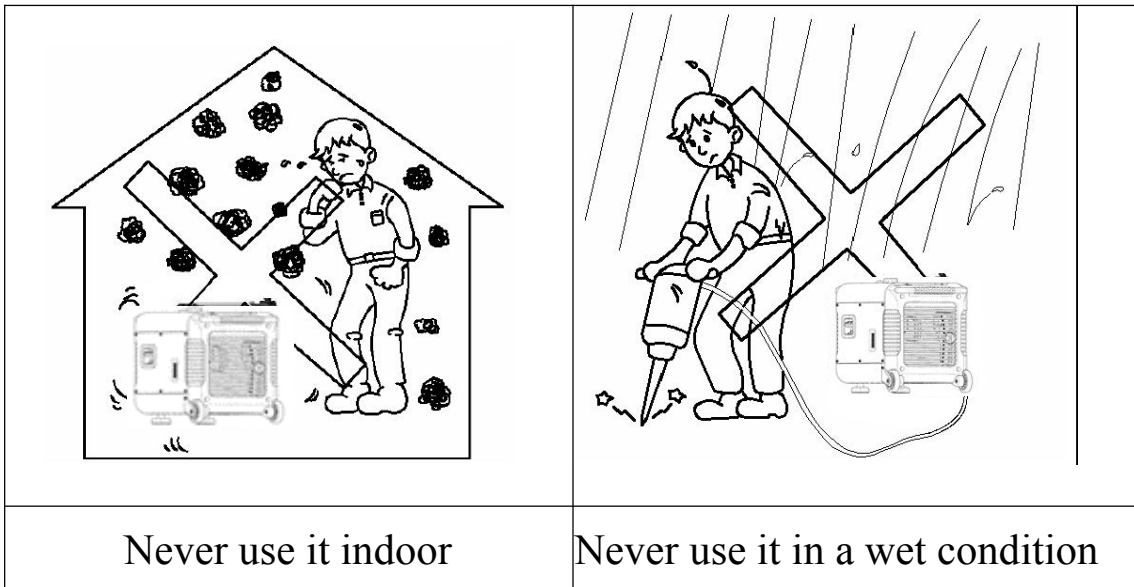
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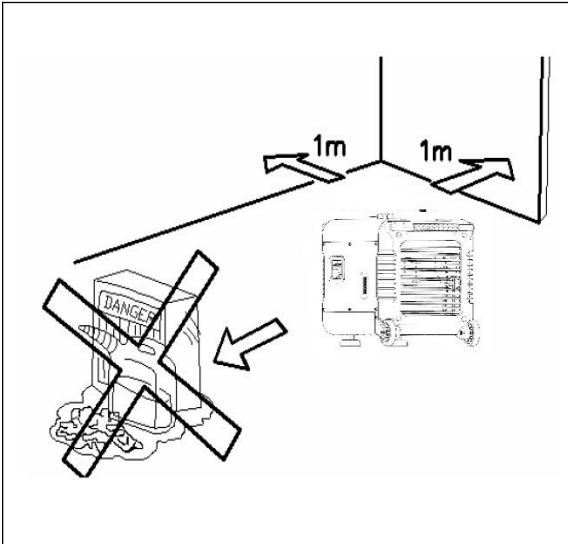
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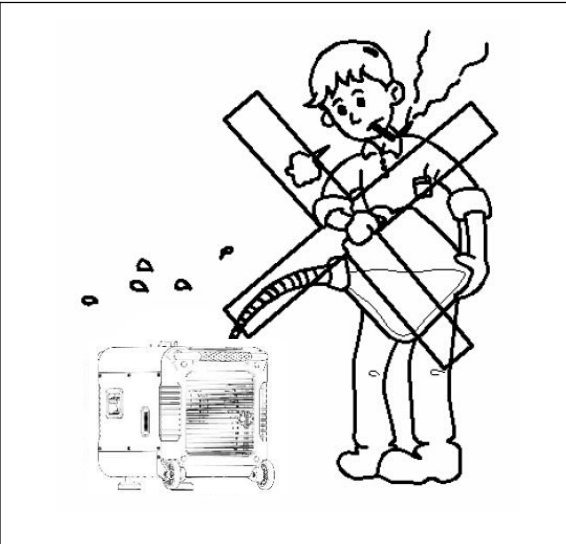
# 1. SAFETY INFORMATION

Read and understand this owner's manual before operating your generator. It will help you avoid accident if you get familiar with your generator's safe operation procedure.

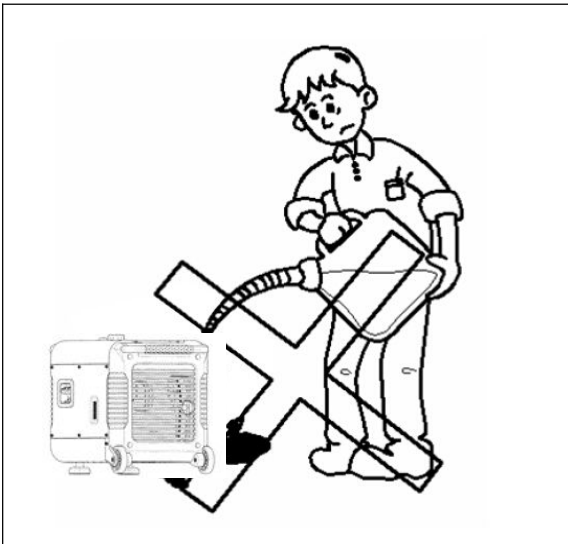




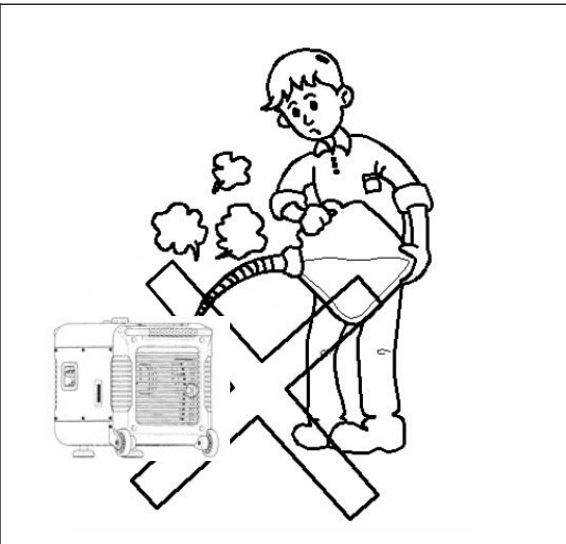
Keep it at least 1 meter away  
from inflammable



Never smoke when fueling



Don't spill when fueling



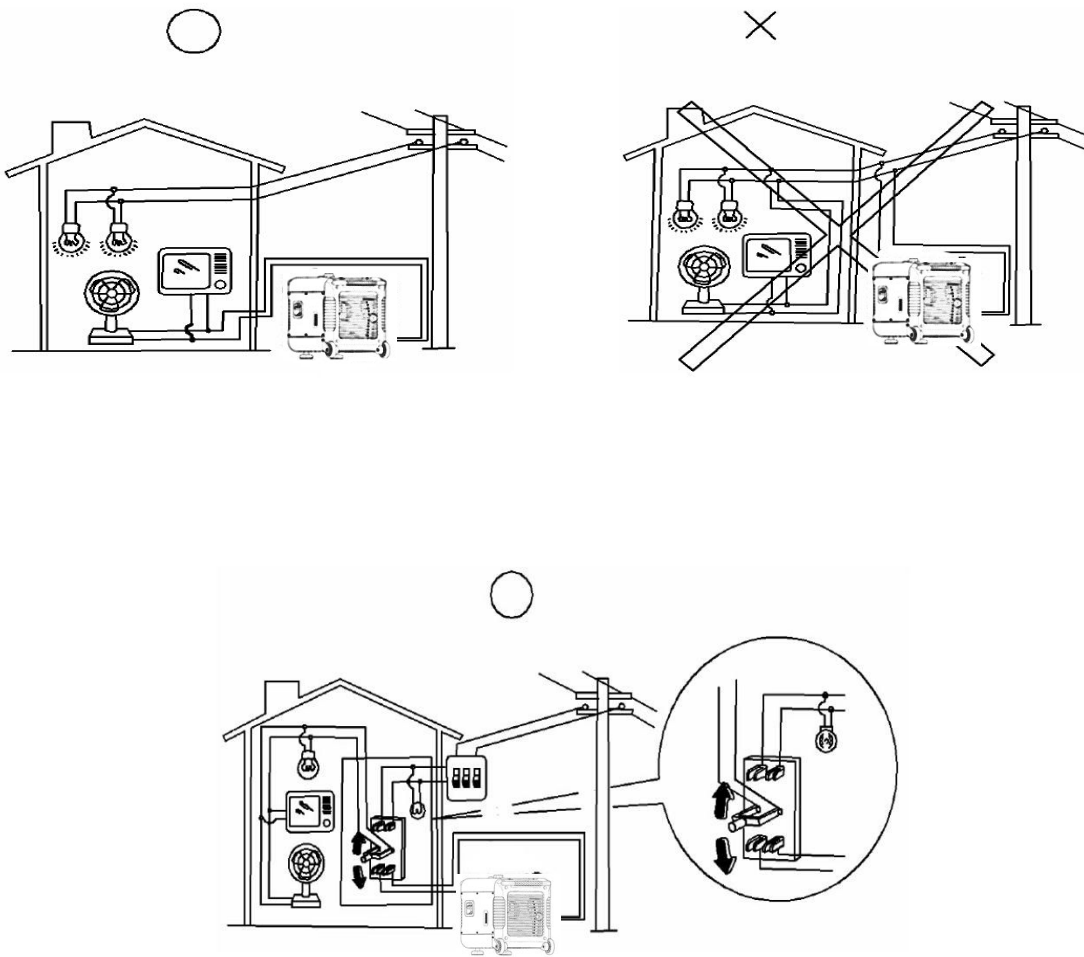
Stop the engine before fueling

## Connection to a home power supply

### NOTICE

If the generator is to be connected to a home power supply as a standby, connection should be performed by professional electrician or by other person with proficient electrical skill.

When the loads are connected to the generator, please carefully check whether the electrical connections are safe and reliable. Any improper connection may cause damage to the generator, or cause a fire.

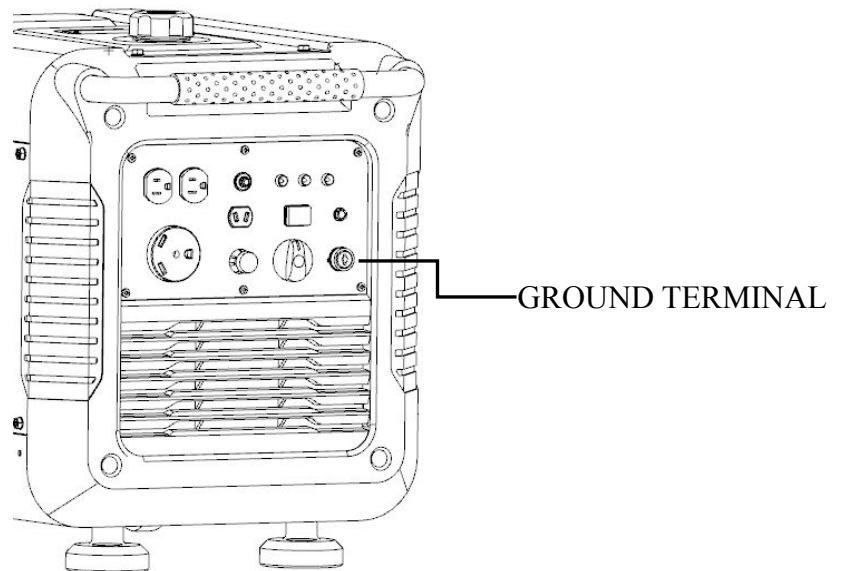




## Generator Ground Circuit

In order to prevent electric shock due to shoddy electrical appliances or wrong use of electricity, the generator must be grounded with a good-quality insulated conductor.

### NOTICE

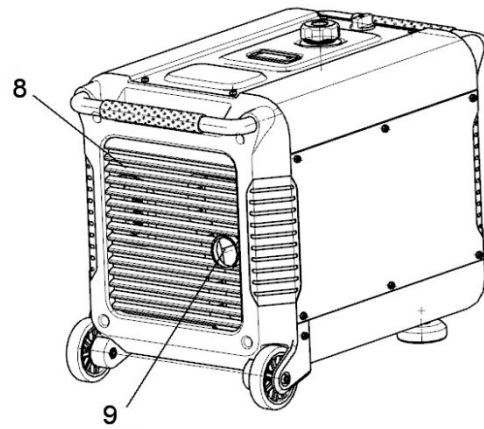
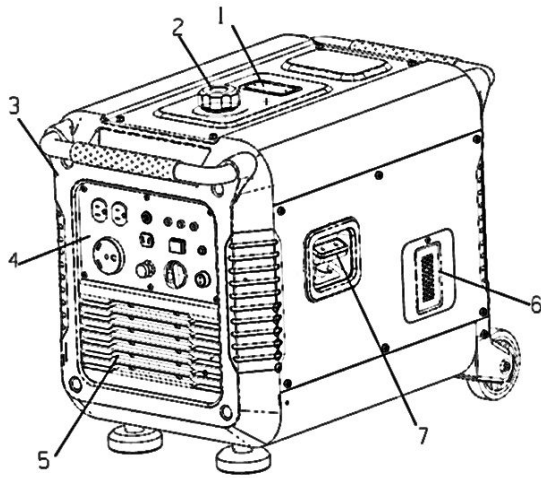


Make sure the control panel, louver and the inverter bottom side cooling well and without chips, mud and water come in. it may damage the engine, inverter or alternator if the cooling vent blocked.

Do not mix the generator with other stuff If moving, storing or running the unit.

It may cause the generator damage or bring property safety issue when the generator in leakage.

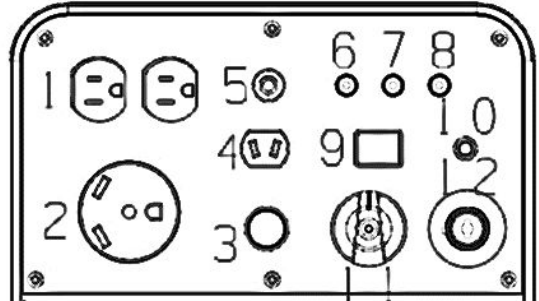
## 2. DISCRIPTION



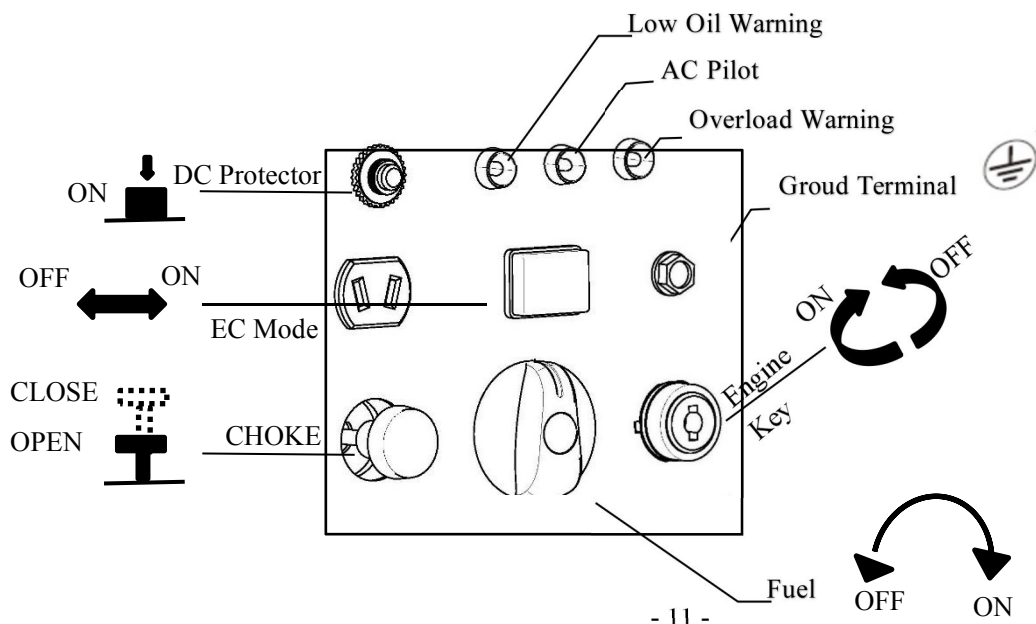
- ①. Fuel Gauge
- ②. Fuel tank cap
- ③. Draw handle
- ④. Control panel
- ⑤. Air intake
- ⑥. Oil cover
- ⑦. Recoil starter
- ⑧. Louver
- ⑨. Muffler

## 2.1 Control panel

- ①. 20A AC receptacle
- ②. 30A AC receptacle
- ③. Choke knob
- ④. DC receptacle
- ⑤. DC protector
- ⑥. Low oil warning LED (yellow)
- ⑦. AC pilot LED (green)
- ⑧. Overload indicator LED (red)
- ⑨. Economy control switch
- ⑩. Ground (earth) terminal
- ⑪. Fuel cock knob
- ⑫. Engine switch (Key starter)



## 3. CONTROL FUNCTION



### **3.1 Engine switch**

Insert the key, turn it clockwise to start the engine.

Turn the key anti-clockwise to stop the engine.

### **3.2 Oil warning light (yellow)**

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

**Tip:** If the low oil warning led flicks for a few seconds, the engine oil is insufficient. Stop the engine, refill the oil tank and then you can restart.

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

The overload indicator light 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 appliance into 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.

### **3.4 AC pilot light (Green)**

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

### **3.5 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, turn on DC protector by pressing its button to “ON”.

“ON” ( press )

Direct current is output.

“OFF”

Direct current is not output.



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.

### **3.6 Economy control switch (ECS).**

“ON”

When the ECS 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 ECS switch is turned to “OFF”, the engine runs at the rated speed (4500r/min) regardless of whether is a load connected or not.

#### **Tip:**

The ECS must be turned to “OFF” when using electric devices that require a large starting current, such as a compressor of a submergible pump.

### **3.7 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.

### **3.8 Choke knob**

Pull the choke knob to close the choke valve, push to open it.

“Close”

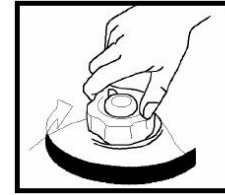
Higher fuel to air ratio.

“Open”

Lower fuel to air ratio.

## 4. PREPARATION

### 4.1 Fuel



- Fuel is highly flammable and poisonous.

Check “SAFETY INFORMATION” carefully before filling.

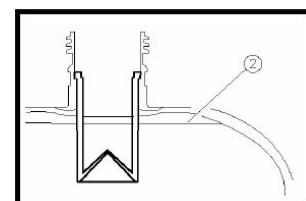
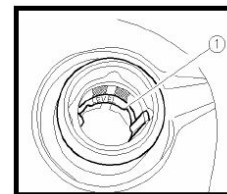
- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- After fill the fuel, make sure the fuel tank cap is tightened securely.

### 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. Red line
- ②. Fuel level



Recommended fuel: Unleaded gasoline

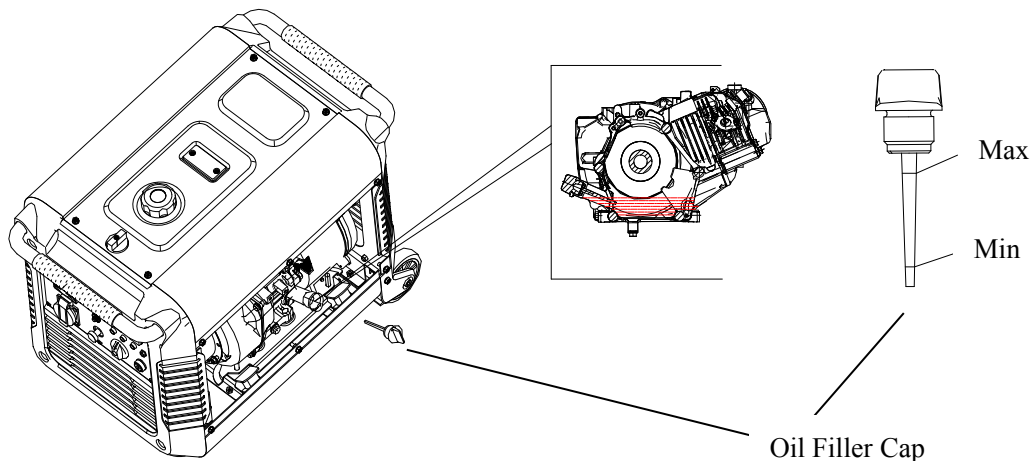
Fuel tank capacity:

Total 15.0 L(3.96 US gal, 3.30 Imp gal)

## 4.2 Engine oil

### NOTICE

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



1. Place the generator on a level surface.
2. Remove the screws and the cover.
3. Remove the oil filler cap.
4. Fill the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.
5. 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 quantity: 0.45 L



## 4.3 Battery



Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.

EXTERNAL: Flush with plenty of water.

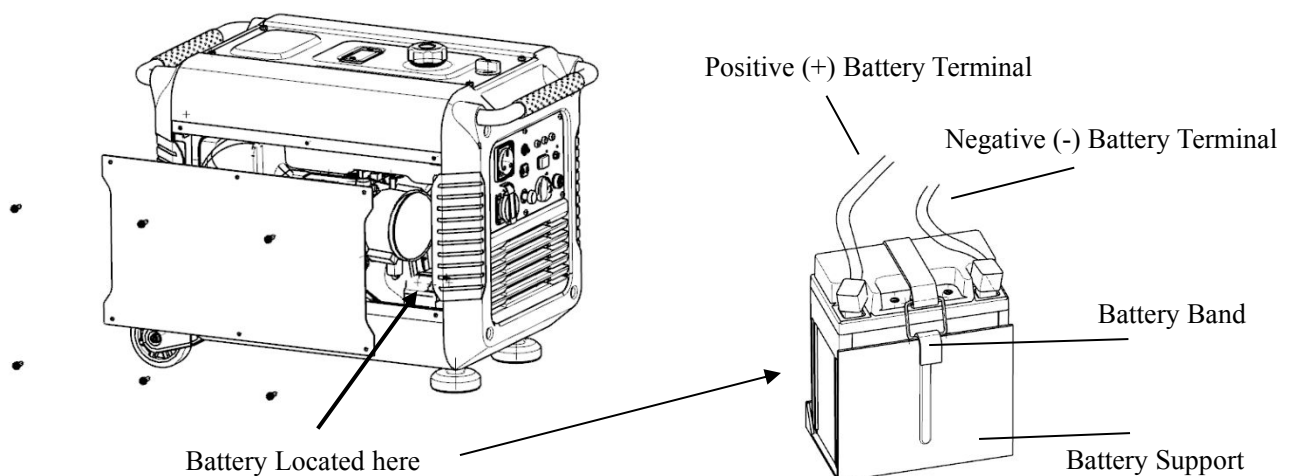
INTERNAL: Drink large quantities of water or milk and immediately call a physician.

EYES: Flush with water for 15 minutes and seek prompt medical attention.

Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.

KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.

### Installation



1. Remove the bolts and the cover.
2. Remove the bolts and take out the battery.
3. Charge the battery if necessary. See page

TIP:

If you are not able to start the engine by turning the engine switch but it works well manually, you should check if the battery causes the problem. Check the voltage of the battery using a multimeter. If the voltage is less than 12 Volts, you should charge the battery.

4. Install the battery
5. Connect the positive lead (red) to the positive (+) battery terminal, then the negative lead (black) to the negative (-) battery terminal.

TIP:

Clamp the red wire to the positive (+) terminal first, then the black wire to the negative (-) terminal of the battery. Do not reverse these positions.

Tighten the two positive battery leads (aon from the starter relay and one from the DC-DC converter) to the same positive terminal and the two negative battery leads (one from the engine and one from the DC-DC converter) to the same negative terminal.

#### **4.4 PRE-OPERATION CHECK**



If any item in the Pre-operation check is not working properly, have it inspected and repaired before operating the generator.

The condition of a generator is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the generator is unused.

**TIP:** Pre-operation checks should be made each time the generator is used.

**Pre-operation check:**

**Fuel (See page 16)**

- Check fuel level in fuel tank.
- Refuel if necessary.

**Engine oil (See page 17)**

- Check oil level in engine.
- If necessary, add recommended oil to specified level.
- Check generator for oil leakage.

**The point where abnormality was recognized by use**

- Check operation.
- If necessary, add recommended oil to specified level.
- If necessary, consult our company authorized dealer.

## 5. OPERATION

### WARNING

- Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate the engine in a well ventilated area.
- Before starting the engine, do not connect any electric devices.

### NOTICE

- The generator has been shipped without engine oil. Do not start the engine till fill with the sufficient engine oil.
- Do not tilt the generator when adding engine oil. This could result in over filling and damage to the engine.

**TIP:** The generator can be used with the rated output load at standard atmospheric conditions.

#### “Standard atmospheric conditions”

Ambient temperature 25°C

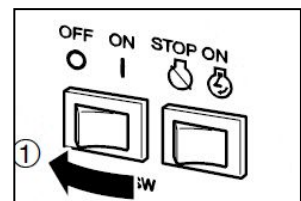
Barometric pressure 100kPa

Relative humidity 30%

The output of the generator varies due to change temperature, altitude (lower air pressure at higher altitude) and humidity.

The output of the generator is reduced when the temperature, the humidity and the altitude are higher than standard atmospheric conditions.

Additionally, the load must be reduced when using in a confined area, as generator cooling is affected.



## 5.1 Starting the engine

1. Turn the ECS switch (Black) to “OFF” ①.
2. Turn the fuel cock knob to “ON”.
3. Turn the engine switch (Red) to “ON”.
4. Pull the choke knob fully out.

**TIP:** The choke is not required to start a warm engine.

Push the choke knob in to the original position.

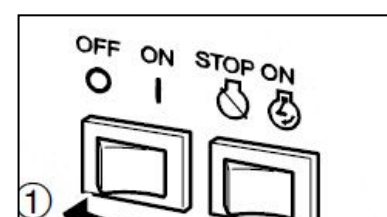
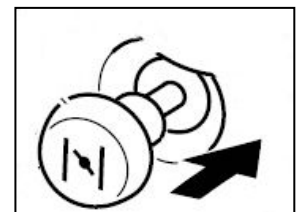
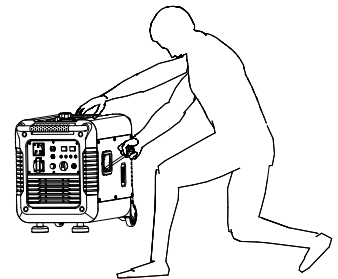
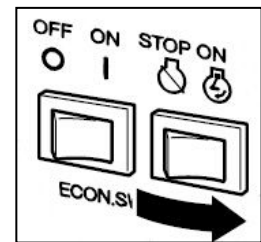
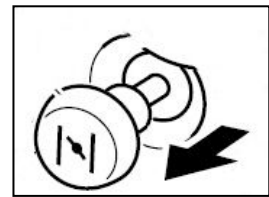
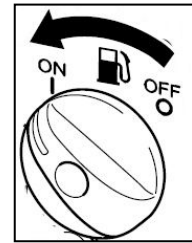
**Manually starting:** Pull slowly on the recoil starter until it is engaged, then pull it briskly.

**Electrical starting:** Turn the engine switch key clockwise to the end and keep it for a second. Try again until it is engaged.

After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned to the original position.

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

- In ambient temperature below 0°C (32°F), the engine will run at the rated r/min (4500r/min) for 5 minutes to warm up the engine.
- In ambient temperature below 5°C (41°F), the engine will run at the rated r/min (4500r/min) for 3 minutes to warm up the engine.
- The ECS unit operates normally after the above time period, while the ECS

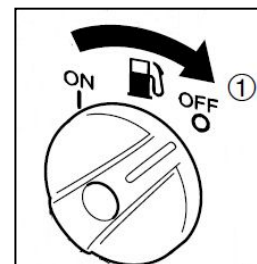
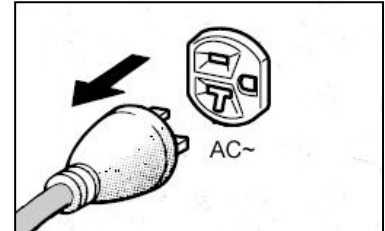


is “ON”.

## 5.2 Stopping the engine

TIP: Turn off any electric devices.

1. Turn the ECS to “OFF” ①.
2. Disconnect any electric devices.
3. Turn the engine switch anti-clockwise to “STOP”,
4. Turn the fuel cock knob to “OFF” ①.



## 5.3 Alternating Current (AC) connection

### ⚠ WARNING

Be sure any electric devices are turned off before plugging them in.

### NOTICE

- 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 ECS 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 ECS 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.

## **5.4 Battery Charging**

**TIP:**

- The generator DC rated voltage is 12V.
- Start the engine first, and then connect the generator to the battery for charging.
- Before starting to charge the battery, make sure that the DC protector is turned on.

1. Start the engine.
2. Connect the red battery charger lead to the positive (+) battery terminal.
3. Connect the black battery charger lead to the negative (-) battery terminal.
4. Turn the ECS “off” to start battery charging.

### **NOTICE**

- Be sure the ECS is turned off while charging the battery.

- Be sure to connect the red battery charger lead to the positive (+) battery terminal, and connect the black lead to the negative (-) battery terminal. Do not reverse these positions.
- Connect the battery charger leads to the battery terminals securely so that they are not disconnected due to engine vibration or other disturbances.
- Charge the battery in the correct procedure by following instructions in the owner's manual for the battery.
- The DC protector turns off automatically if current above the rated flows during battery charging. To restart charging the battery, turn the DC protector on by pressing its button to "ON". If the DC protector turns off again, stop charging the battery immediately and consult our company authorized dealer.

**TIP:**

- Follow instructions in the owner's manual for the battery to determine the end of battery charging.
- Measure the specific gravity of electrolyte to determine if the battery is fully charged. At full charge, the electrolyte specific gravity is between 1.26 and 1.28.
- It is advisable to check the specific gravity of the electrolyte at least once every hour to prevent overcharging the battery.



Never smoke or make and break connections at the battery while charging. Sparks may ignite the battery gas.

Battery electrolyte is poisonous and dangerous, causing severe burns, etc.



contains sulfuric (sulphuric) acid. Avoid contact with skin, eyes or clothing.

**Antidote:**

EXTERNAL - Flush with water.

INTERNAL - Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately.





EYES - Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in closed space. Always cover eyes when working near batteries.

**KEEP OUT OF REACH OF CHILDREN.**

**5.5 Application range**

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

AC				DC 
Power factor	1	0.8-0.95	0.4-0.75 (Efficiency 0.85)	
Rated output power	≤3000W	≤2400W	≤1900W	Rated voltage 12V Rated current 8A

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
	0.8	≤ 2400W
DC	-----	96W(12V/8A)



The overload indicator light ③ comes on when total wattage exceeds the application range. (See page 10 for more details.)

## NOTICE

- Do not overload. The total load of all electrical appliances 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 from 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.

## 6. 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 carb-on **	$< 225\text{cc.}$ Every 125hrs $\cong 225\text{cc.}$ Every 250hrs			
* These items should be replaced if replacement needed. ** The installation and major repair work shall be carried out only by our authorized dealer or other specifically trained personnel.					

## NOTICE

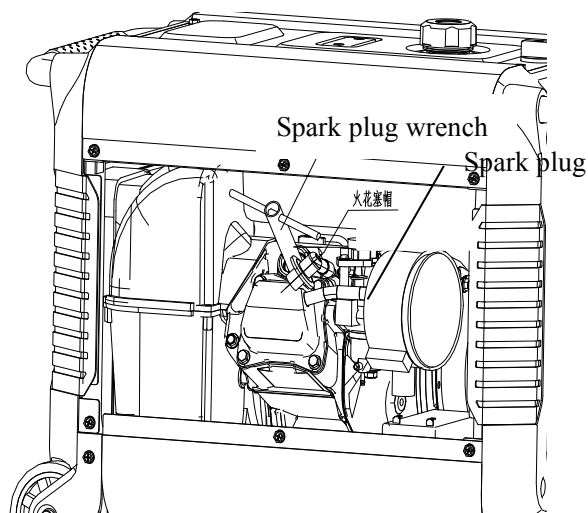
- If the gasoline engine frequently works under high temperature or heavy load, change the oil every 25 hours.
- If the engine frequently works under dusty or other severe circumstances, clean the air filter element every 10 hours; If necessary, change the air filter element every 25 hours.
- The maintenance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

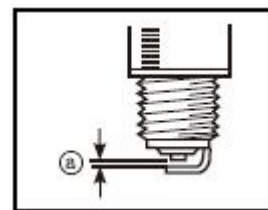
**Stop the engine before servicing. Put the engine on a level surface and remove the spark plug cap to prevent the engine from starting. Do not operate the engine in a poorly ventilated room or other enclosed area. Be sure to keep good ventilation in working area. The exhaust from the engine may contain poisonous CO, inhalation can cause shock, unconsciousness and even death.**

### **6.1 Spark plug inspection**

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



1. Remove the bolts and the cover
2. Remove the spark plug by using an wrench.
3. 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.
4. Check the spark plug type and gap.



Standard Spark Plug: F5RTC

Spark Plug Gap: 0.6-0.7mm (0.024-0.028in)

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

5. Install the spark plug.

Spark Plug Torque: 20.0 N\*m (2.0kgf\*m, 14.8 lbf\*ft)

**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.

6. Install the spark plug cap and spark plug cover.

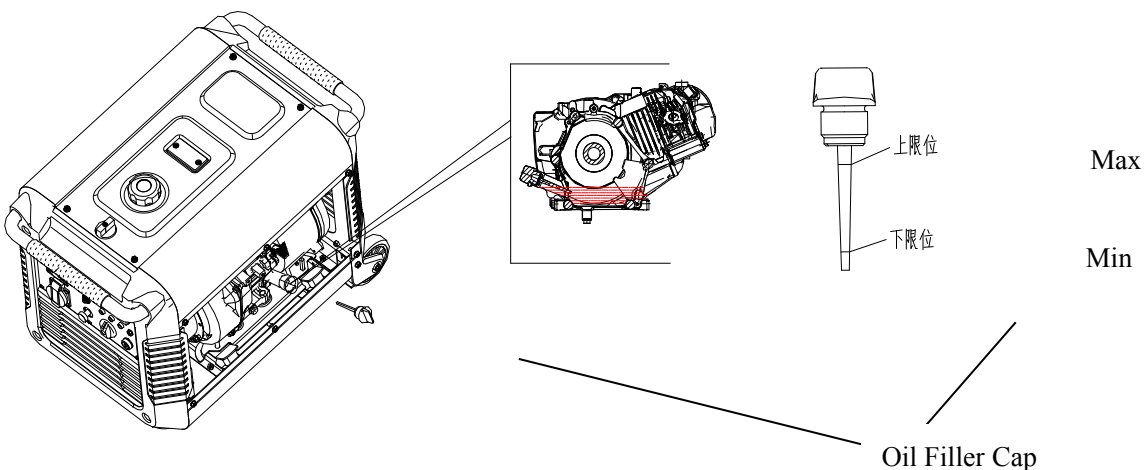
## 6.2 Carburetor adjustment



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.

## 6.3 Engine oil replacement

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. The stop the engine and turn the 3 in 1 switch knob, fuel tank cap air vent knob to “OFF”.

2. Push up the generator and then unscrew the oil screw using Spanner as picture below.

Tilt the generator to drain the oil completely.

3. Using spanner screw the oil screw

4. Replace the generator on a level surface.



## NOTICE

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

6. Add engine oil to the upper level.

Recommended engine oil: SAE SJ 15W-40

Recommended engine oil grade: API Service SE type or higher

Engine oil quantity: 0.45L

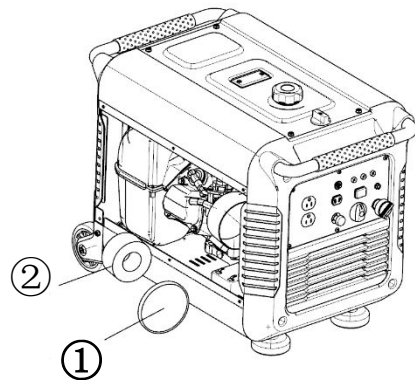
7. Wipe the cover clean, and wipe up any spilled oil.

## NOTICE

Be sure no foreign material enters the crankcase.

8. Install the oil filler cap.

9. Install the cover and tighten the screws.



## 6.4 Air filter

1. Remove the screws, and then remove the cover.

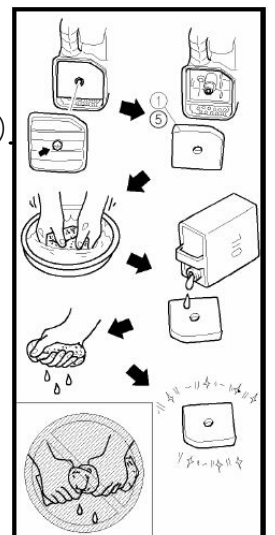
2. Remove the screw and then remove the air filter case cover ①.

3. Remove the foam element ②.

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.

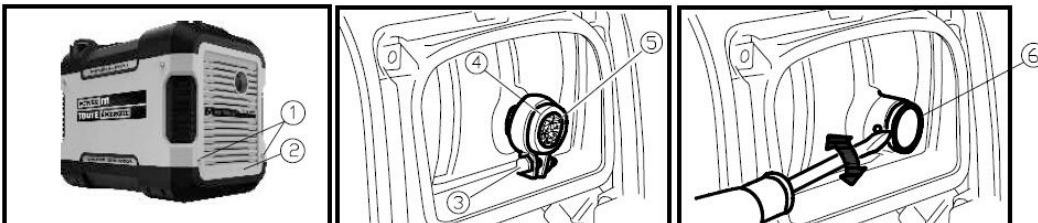
8. Install the cover and tighten the screws.

## 6.5 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 , and then pull outward on the areas of the cover ② shown.



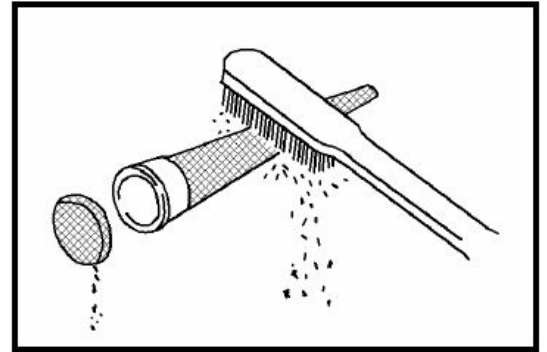
2. Loosen the bolt ③ and then remove the muffler cap ④, the muffler screen ⑤ and spark arrester ⑥.



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

### NOTICE

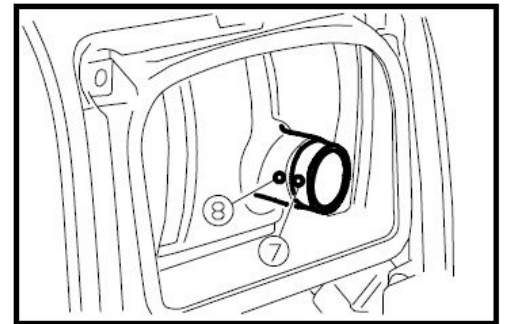
When cleaning, use the wire brush gently to avoid damaging or scratching of muffler screen and spark arrester.



4. Check the muffler screen and spark arrester.

Replace them if damaged.

5. Install the spark arrester.



### TIP:

Align the spark arrester projection ⑦ with the hole ⑧ in the muffler pipe.

6. Install the muffler screen and the muffler cap.

7. Install the cover and tighten the screws.

## 6.6 Fuel tank filter

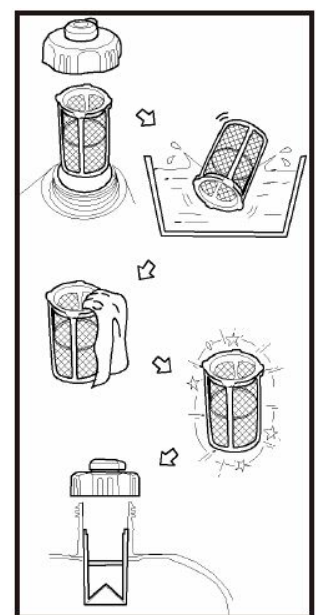
### WARNING

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.

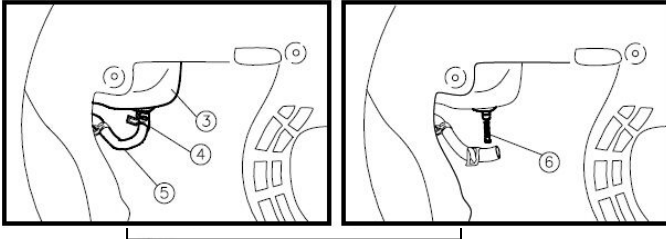
3. Wipe the filter and install it.



4. Install the fuel tank cap. Be sure the fuel tank cap is tightened securely.

## 6.7 Fuel filter

1. Remove the screws, and then remove the cover, and drain the fuel



2. Hold and move up the clamp (4), then take off the hose (5) from the tank.

3. Take out the fuel filter (6).

4. Clean the filter with gasoline.

5. Dry the filter and put it back into tank.

6. Install the hose and clamp, then open the fuel valve to check whether it is leak

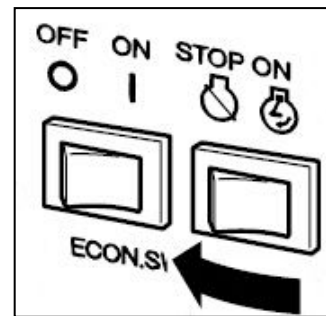
7. Install the cover and tighten the screws.

## 7. STORAGE

Long term storage of your machine will require some preventive procedures to guard against deterioration.

### 7.1 Drain the fuel

1. Turn the engine switch to “STOP” ①.



2. Remove the fuel tank cap, remove the filter. Extract the fuel from the fuel tank into an approved gasoline container. Then, install the fuel tank cap.

#### **⚠ WARNING**

Fuel is highly flammable and poisonous. Check “SAFETY INFORMATION” (See page 5) carefully.

#### **NOTICE**

Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.

3. Start the engine (See Page 20) and leave it run until it stops. The engine stops in approx. 20 minutes by running out of fuel.

#### **TIP:**

- Do not connect with any electrical devices. (Unloaded operation)
- Duration of the running engine depends on the amount of the fuel left in the tank.

4. Remove the screws, and then remove the cover.
5. Drain the fuel from the carburetor by loosening the drain screw on the carburetor float chamber.
6. Turn the engine switch to “STOP”.
7. Tighten the drain screw.
8. Install the cover and tighten the screws.

## **7.2 Engine**

Perform the following steps to protect the cylinder, piston ring, etc. from corrosion.

1. Remove the spark plug, pour about one table- spoon of SAE 10W-30 into the spark plug hole and rein stall the spark plug. Recoil start the engine by turning over several times (with 3 in 1 switch knob off) to coat the cylinder walls with oil.
2. Pull the recoil starter until you feel compression. Then stop pulling. (This prevents the cylinder and valves from rusting).
3. Clean exterior of the generator. Store the generator in a dry, well-ventilated place, with the cover placed over it.

## 8. TROUBLESHOOTING

### 8.1 Engine won't start

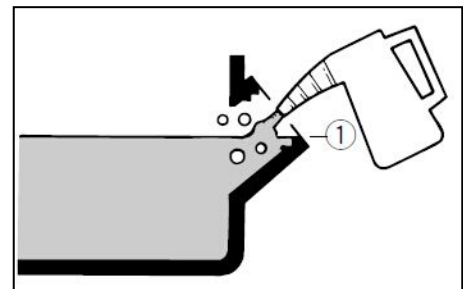
#### 1. Fuel systems

No fuel supplied to combustion chamber.

- No fuel in tank...Supply fuel.
- Fuel in tank....Fuel tank cap air vent knob and fuel cock knob to “ON”.
- Clogged fuel filter .... Clean fuel filter.
- Clogged carburetor.... Clean carburetor.

#### 2. Engine oil system Insufficient

- Oil level is low.... Add engine oil.



#### 3. Electrical systems

- Battery power insufficient ... Charge the battery.
- Put the 1 in 3 switch to “CHOKE” and pull the recoil starter ... Poor spark.
- Spark plug dirty with carbon or wet ... Remove carbon or wipe spark plug dry.
- Faulty ignition system ... consult our company authorized dealer.

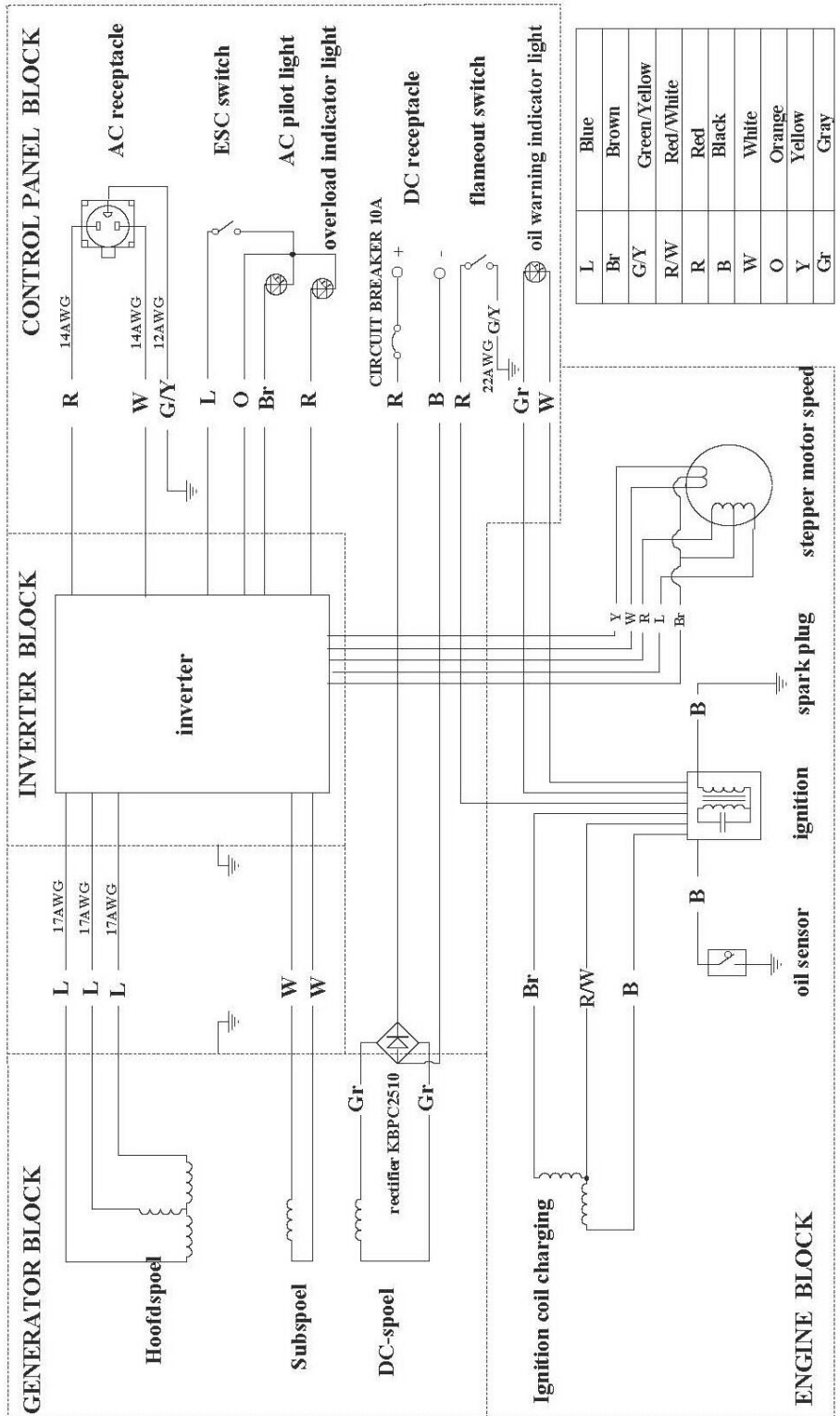
### 8.2 Generator won't produce power

- Safety device (DC protector) to “OFF”.... Press the DC protector to “ON”.
- The AC pilot light (Green) go off .... Stop the engine, then restart.

## 9. SPECIFICATIONS

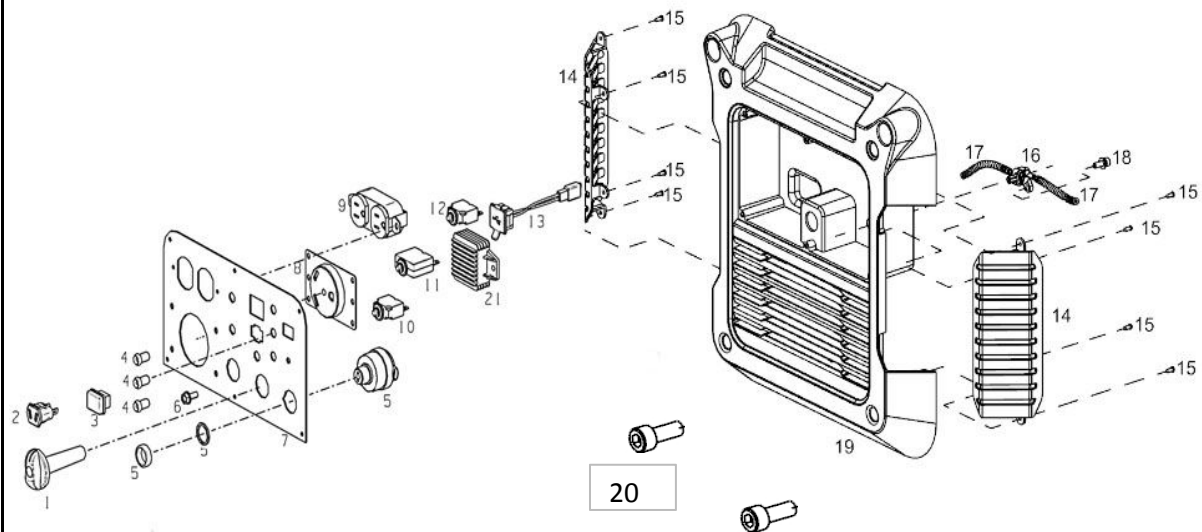
Item	3 KW Generator	
Generator	Type	Inverter
	Rated Frequency (Hz)	60
	Rated Voltage (V)	120
	Rated Output Power (KW)	3.0
	Max Output Power (KW)	3.5
	Power Factor	1.0
	Charging Voltage (DC)(V)	12
	Charging Current (DC)(A)	8
	Overload Protect (DC)	Non-fuse Protector
	Phase	Single
Engine	Engine	QL171
	Engine Type	Single cylinder, 4-stroke, forced air cooling, OHV
	Displacement (cc)	192
	Fuel Type	Unleaded Gasoline
	Fuel Tank Capacity (L)	15
	Fuel Consumption (g/KW · )	≤450
	Continue Running Time (at rated power)(h)	12
	Oil Capacity (L)	0.45
	Spark Plug Model No.	F5RTC
	Starting Mode	Recoil Starter
Generator Set	Length×Width×Height (mm)	685×433×529.5
	Net weight (kg)	52

# 10. WIRING DIAGRAM



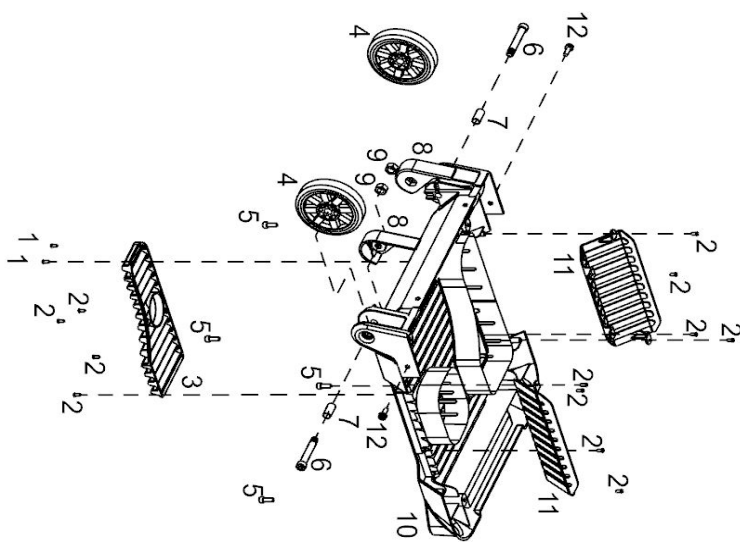
# Parts Diagram

## FIG.1 Control Panel



REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
1-1	1-3000W-01	fuel switch rod	1	1-12	1-3000W-012	DC protector	1
1-2	1-3000W-02	DC socket	1	1-13	1-3000W-013	USB port	1
1-3	1-3000W-03	stop switch(black)	1	1-14	1-3000W-014	side cover	2
1-4	1-3000W-04	pilot light	3	1-15	1-3000W-015	M4 tapping screw	8
1-5	1-3000W-05	electric lock	1	1-16	1-3000W-016	fuel switch	1
1-6	1-3000W-06	earth point	1	1-17	1-3000W-017	fuel pipe	1
1-7	1-3000W-07	panel	1	1-18	1-3000W-018	cross screw M5X20	1
1-8	1-3000W-08	30A socket	1	1-19	1-3000W-019	panel housing	1
1-9	1-3000W-09	20A socket	1	1-20	1-3000W-020	cross screw M6X30	2
1-10	1-3000W-010	30A AC protector	1	1-21	1-3000W-021	USB stabilizer	1
1-11	1-3000W-011	20A AC protector	1				

## FIG.2 Muffler Cover

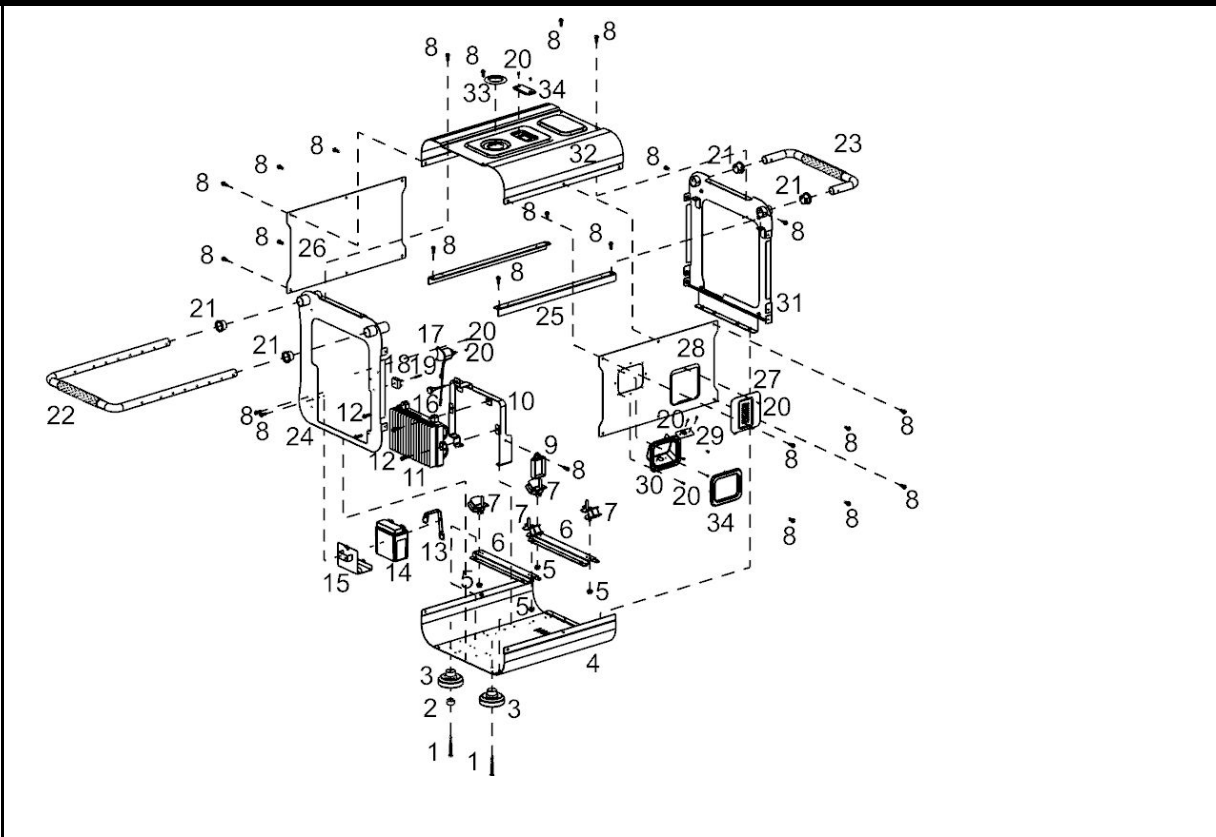


REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
2-1	2-3000W-01	M3 tapping screw	2	2-7	2-3000W-07	bushing	2
2-2	2-3000W-02	M4 tapping screw	12	2-8	2-3000W-08	wheel support	2
2-3	2-3000W-03	muffler cover	1	2-9	2-3000W-09	hexagonal nut M10	2



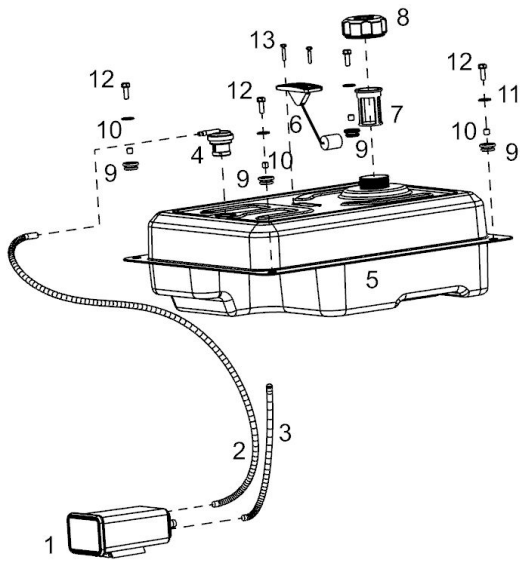
2-4	2-3000W-04	wheel	2	2-10	2-3000W-010	muffler housing	1
2-5	2-3000W-05	cross screw M6X30	4	2-11	2-3000W-011	side cover	2
2-6	2-3000W-06	M10X70 Flange	2	2-12	2-3000W-012	hexagonal flange bolt	2

**FIG.3 Frame cover parts**



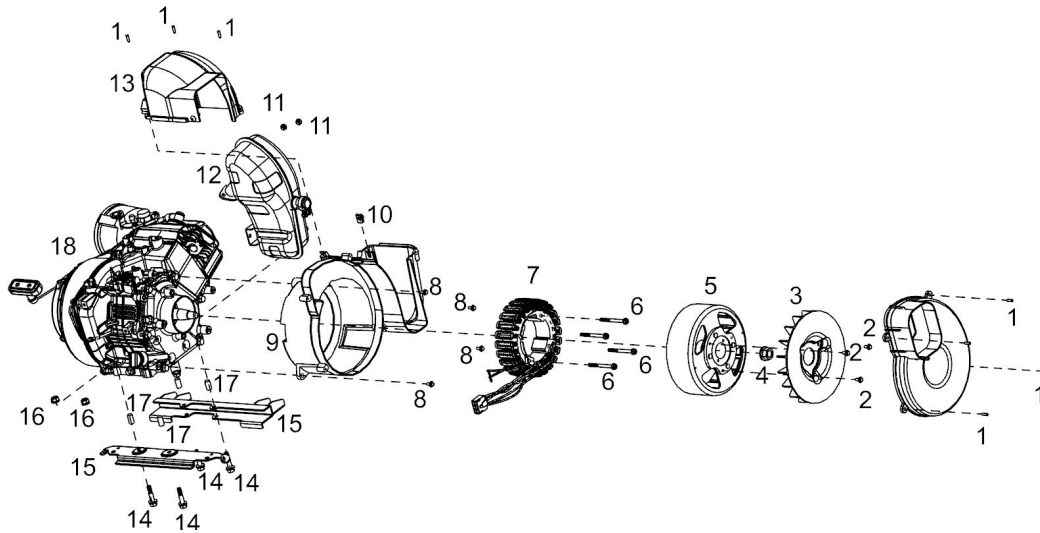
REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
3-1	3-3000W-01	flange bolt M6X45	2	3-18	3-3000W-018	bridge rectifiers	1
3-2	3-3000W-02	gel	1	3-19	3-3000W-019	cross screw M5X20	1
3-3	3-3000W-03	groud foot	2	3-20	3-3000W-021	cross bolt M4x14	8
3-4	3-3000W-04	bottom cover	1	3-21	3-3000W-022	bushing	4
3-5	3-3000W-05	flange nut M8	4	3-22	3-3000W-023	long handel	1
3-6	3-3000W-06	shock base	2	3-23	3-3000W-024	short handel	1
3-7	3-3000W-07	shock foot	4	3-24	3-3000W-025	left panel	1
3-8	3-3000W-08	flange bolt	51	3-25	3-3000W-026	tank support base	2
3-9	3-3000W-09	limit speed part	1	3-26	3-3000W-027	rear panel	1
3-10	3-3000W-010	support frame	1	3-27	3-3000W-028	oil panel	1
3-11	3-3000W-011	inverter board	1	3-28	3-3000W-029	front panel	1
3-12	3-3000W-012	flange bolt M6x25	4	3-29	3-3000W-030	push handel part	1
3-13	3-3000W-013	rubber strip	1	3-30	3-3000W-031	push handel box	1
3-14	3-3000W-014	battery	1	3-31	3-3000W-032	right panel	1
3-15	3-3000W-015	battery base	1	3-32	3-3000W-033	top cover	1
3-16	3-3000W-016	choke line	1	3-33	3-3000W-034	tank mouth rubber	1
3-17	3-3000W-017	relay	1	3-34	3-3000W-035	mirror	1

**FIG.4 油箱组件**



REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
4-1	4-3000W-01	carbon tin	1	4-8	4-3000W-08	cap	1
4-2	4-3000W-02	fuel pipe 810mm	1	4-9	4-3000W-09	11# rubber parts	4
4-3	4-3000W-03	fuel pipe 230 mm	1	4-10	4-3000W-010	bushing $\Phi 9.1 \times \Phi 7 \times 7.1$	4
4-4	4-3000W-04	one-way valve	1	4-11	4-3000W-011	shim $\Phi 18 \times \Phi 6.5 \times 1$	4
4-5	4-3000W-05	tank	1	4-12	4-3000W-012	flange bolt M6x12	4
4-6	4-3000W-06	fuel level gauge	1	4-13	4-3000W-013	cross screw M4X14	2
4-7	4-3000W-07	Fuel Filter	1				

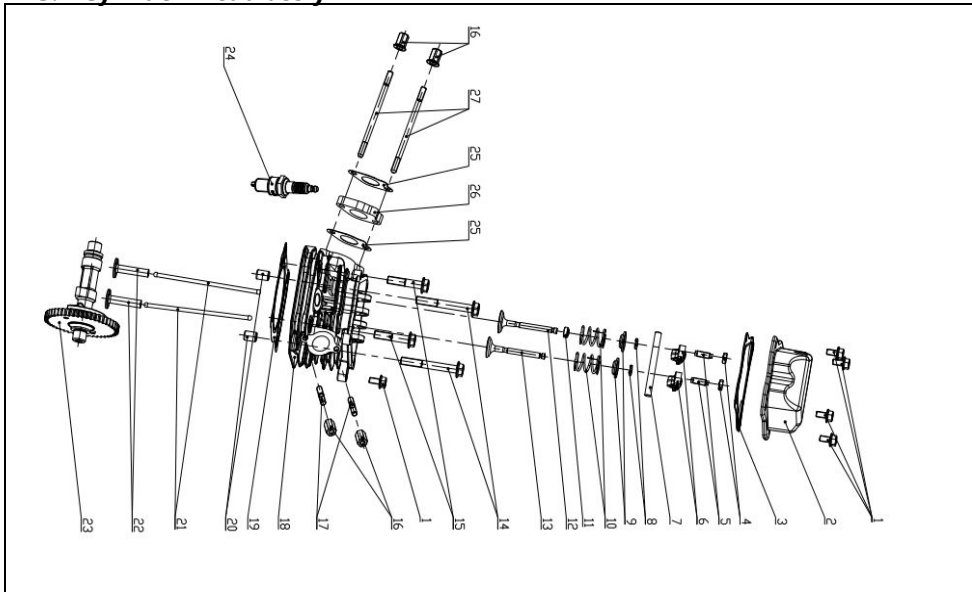
**FIG.5 动力、电机组件**



REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
5-1	5-3000W-01	tapping crew	8	5-10	5-3000W-010	clamping nut	1
5-2	5-3000W-02	flange bolt M6x12	3	5-11	5-3000W-011	hexagonal nut M8	2
5-3	5-3000W-03	fan	1	5-12	5-3000W-012	muffler	1
5-4	5-3000W-04	flange nut M14	1	5-13	5-3000W-013	muffler cover	1
5-5	5-3000W-05	stator	1	5-14	5-3000W-014	flange bolt M8x35	4
5-6	5-3000W-06	flange bolt M6x 55	4	5-15	5-3000W-015	engine base	1
5-7	5-3000W-07	rotor	1	5-16	5-3000W-016	flange nut M8	4
5-8	5-3000W-08	flange nut M6 x 18	4	5-17	5-3000W-017	pin $\Phi 10 \times 15$	4
5-9	5-3000W-09	alternator cover	1	5-18	5-3000W-018	engine	1

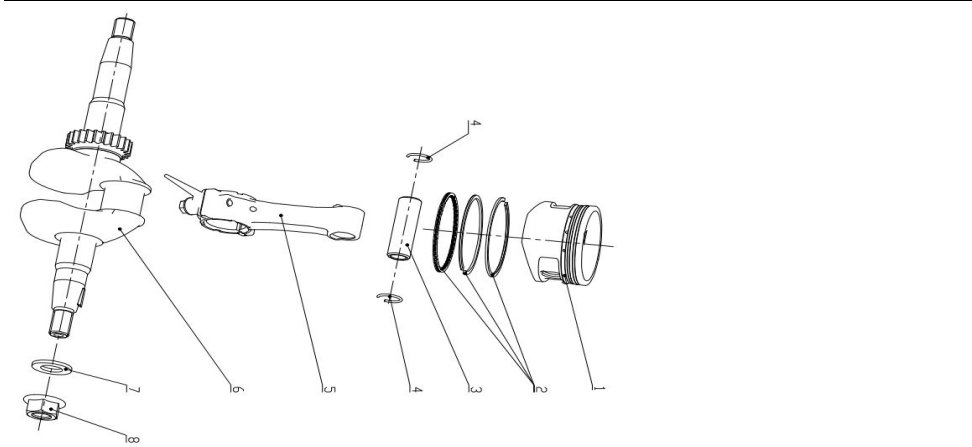
# Engine Diagram

**FIG.1 Cylinder head ass'y**



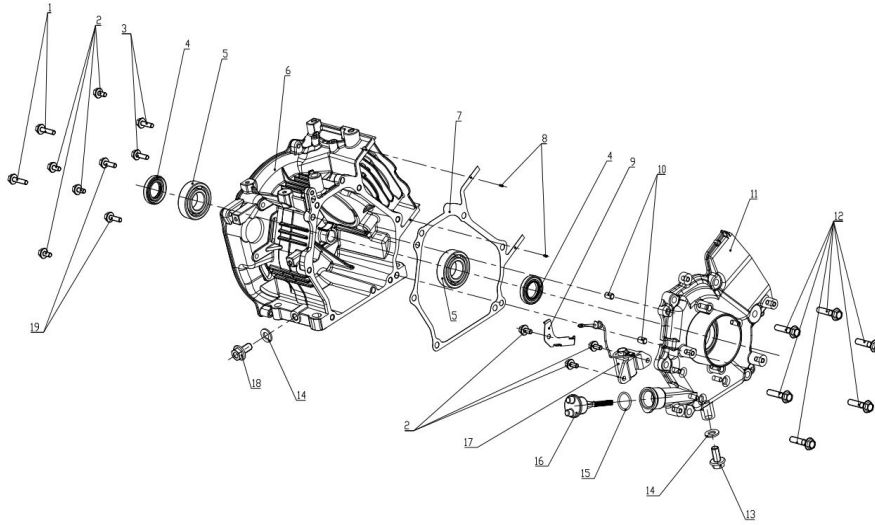
REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
1-1	E1-3000W-01	flange bolt M6x12	5	1-15	E1-3000W-015	flange bolt M8x40	2
1-2	E1-3000W-02	cylinder head cover	1	1-16	E1-3000W-016	flange nut M6	4
1-3	E1-3000W-03	gasket cylinder	1	1-17	E1-3000W-017	exhaust bolt	2
1-4	E1-3000W-04	valve adjusting nut	2	1-18	E1-3000W-018	cylinder	1
1-5	E1-3000W-05	valve adjusting bolt	2	1-19	E1-3000W-019	cylinder gasket	1
1-6	E1-3000W-06	rocker	2	1-20	E1-3000W-020	pin φ10×14	2
1-7	E1-3000W-07	rocker shaft	1	1-21	E1-3000W-021	valve lifter	2
1-8	E1-3000W-08	valve luck	2	1-22	E1-3000W-022	valve tappet	2
1-9	E1-3000W-09	valve spring seat	2	1-23	E1-3000W-023	camshaft ass'y	1
1-10	E1-3000W-010	valve spring seat	2	1-24	E1-3000W-024	spark plug	1
1-11	E1-3000W-011	valve oil seal	1	1-25	E1-3000W-025	intake gasket	2
1-12	E1-3000W-012	Intake valve	1	1-26	E1-3000W-026	Isolation gasket	1
1-13	E1-3000W-013	exhaust valve	1	1-27	E1-3000W-027	intake bolt	2
1-14	E1-3000W-014	flange bolt M8x65	2				

**FIG.2 Piston & connecting Rod Ass'y**



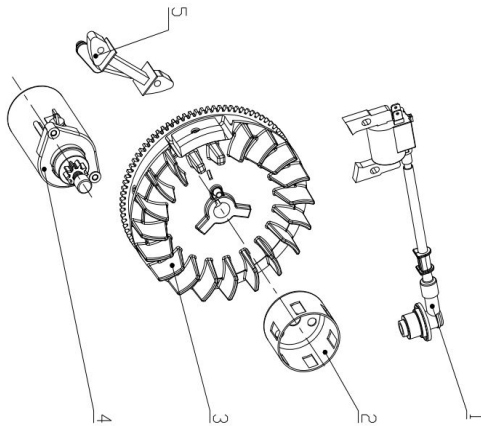
REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
2-1	E2-3000W-01	piston	1	2-5	E2-3000W-05	connecting rod	1
2-2	E2-3000W-02	piston ring	1	2-6	E2-3000W-06	crankshaft Ass'y	1
2-3	E2-3000W-03	pin	1	2-7	E2-3000W-07	gasket crankshaft	1
2-4	E2-3000W-04	pin clip	2	2-8	E2-3000W-08	presre nut	1

**FIG.3 Crankcase Ass'y**



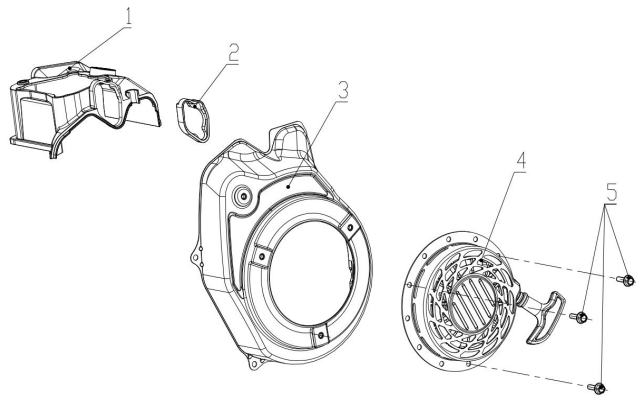
REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
3-1	E3-3000W-01	flange bolt M6x30	2	3-11	E3-3000W-011	left cover	1
3-2	E3-3000W-02	flange bolt M6x12	7	3-12	E3-3000W-012	l flange bolt M8x35	6
3-3	E3-3000W-03	flange bolt M6x25	2	3-13	E3-3000W-013	release oil screw	1
3-4	E3-3000W-04	oil seal	2	3-14	E3-3000W-014	oil screw gasket	2
3-5	E3-3000W-05	bearing	2	3-15	E3-3000W-015	O gasket	1
3-6	E3-3000W-06	crankcase ass'y	1	3-16	E3-3000W-016	oil dipstick	1
3-7	E3-3000W-07	gasket crankcase	1	3-17	E3-3000W-017	oil level sensor	1
3-8	E3-3000W-08	pin 2.5 x 6	2	3-18	E3-3000W-018	release oil bolt	1
3-9	E3-3000W-09	pressure panel	1	3-19	E3-3000W-019	flange bolt M6x20	2
3-10	E3-3000W-010	pin $\Phi 8 \times 14$	2				

**FIG.4 Ignition System Ass'y**



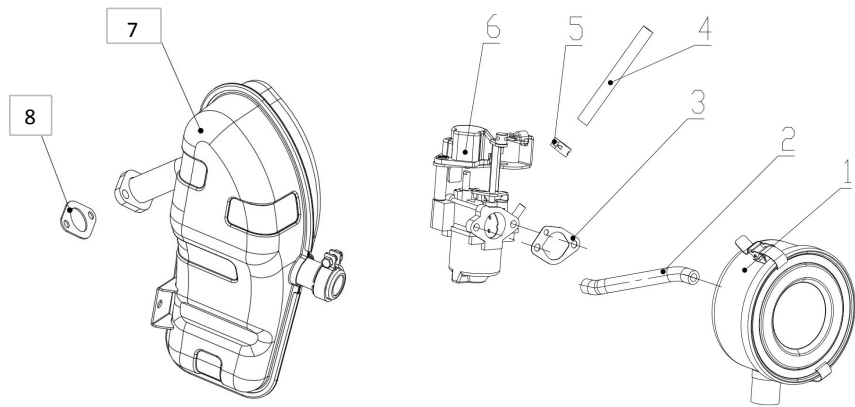
REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
4-1	E4-3000W-01	ignitor	1	4-4	E4-3000W-04	start motor	1
4-2	E4-3000W-02	starter cup	1	4-5	E4-3000W-05	ignition coil	1
4-3	E4-3000W-03	flywheel	1				

**FIG.5 Engine starting and sheild Ass'y**



REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
5-1	E5-3000W-01	cylinder cover	1	5-4	E5-3000W-04	starter	1
5-2	E5-3000W-02	seal ring	1	5-5	E5-3000W-05	flange bolt M6x8	1
5-3	E5-3000W-03	Lead wind cover	3				

**FIG.6 Carburetor & Air frilter Ass'y & muffler Ass'y**



REF.#	PART #	DESCRIPTION	Qty	REF.#	PART #	DESCRIPTION	Qty
6-1	E6-3000W-01	air cleaner	1	6-5	E6-3000W-05	clip φ8.5	1
6-2	E6-3000W-02	air pipe	1	6-6	E6-3000W-06	carburetor ass'y	1
6-3	E6-3000W-03	air cleaner gasket	1	6-7	E6-3000W-07	muffler	1
6-4	E6-3000W-04	fuel pipe	1	6-8	E6-3000W-08	muffler gasket	1

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