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ONLY FOR REAL PROFESSIONALS



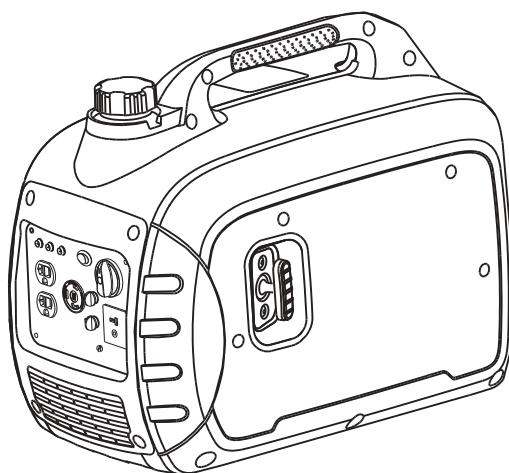
GENEMAX 3000 IS

User Manual

SERIAL NUMBER M

INVERTER GENERATOR Owner's Manual

GENEMAX 3000 IS



Tips—read this manual carefully before operating this generator.

Save this operating manual properly and carry it with the generator for the convenience of emergency query in the future. This manual constitutes one permanent element of the generator. This manual shall be provided along with the generator set when you lend or resell it.

Relevant information and technical specifications defined in this manual take effect when printing is approved, with the contents based on the equipment in production at time of publication. Manufacturer reserves the rights to modify and improve any parts described in the text without prior notice.

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1

Foreward

Inverter Generator Owner's Manual

Foreward


Thank you for purchasing a generator. We recommend that the operator read this manual carefully before use this generator, and fully comprehend all requirements and operating procedure concerning the generator. In case of any questions about this manual, contact the recent authorized dealer for startup, operation, maintenance program and so on. The technician will teach you how to use the generator in a correct and safe manner. We also recommend that the operator consult startup and operating procedure of this generator when buying it.

Safety precautions

This generator will work in a safe, effective and reliable way only when it is kept, operated and maintained properly. Before operation or maintenance of the generator, the operator should:

- Know well and strictly observe local laws and regulations.
- Read and observe all safety warnings in this manual and on the device.
- Let your family get familiar with all safety warnings in this manual.

It is impossible for manufacturers to predict all hazardous circumstances that may occur, for this reason, warnings in this manual and caution signs on the generator set may not cover all hazardous circumstances. If we do not give extra cautions for operating procedures, methods or techniques, operate the generator in such ways that helps guarantee personal safety, make sure no damage to generator set arises there from.

To make sure safe operation, Please read carefully three vital safety warnings in this manual and on the generator, preceded by a safety alert symbol  including:

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.

2

Safety Information

Inverter Generator Owner's Manual

Safety Information



⚠ DANGER

Do not use it indoors.



⚠ DANGER

Keep the machine clean and avoid spilt combustibles including gasoline on it.



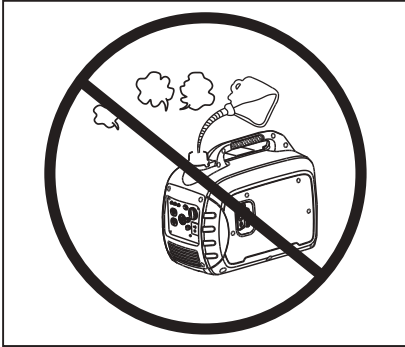
⚠ WARNING

Do not use it in a wet condition.

2

Safety Information

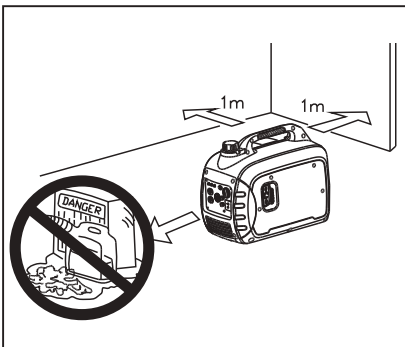
Inverter Generator Owner's Manual

**⚠ WARNING**

Turn the generator "OFF" when add fuel.

**⚠ WARNING**

Don't add fuel near the flammable thing or cigarette.

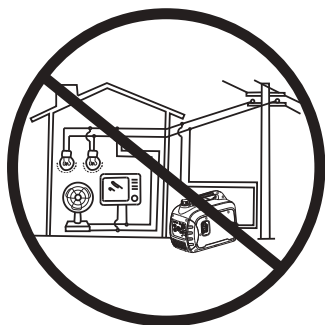
**⚠ WARNING**

Keep children and pets away from the area of operation. Do not place flammable objects close to the outlet valve when generator operation. Keep it at least 1m away from inflammables.

2

Safety Information

Inverter Generator Owner's Manual



⚠ WARNING

The generating set must not be connected to other power sources, such as the power company supply main.

Protection against electrical shock depends on circuit breaker specially matched to the generating set.

Due to high mechanical stresses only, tough rubber-sheathed flexible cable (in accordance with ICE 245 or the equivalent) should be used.

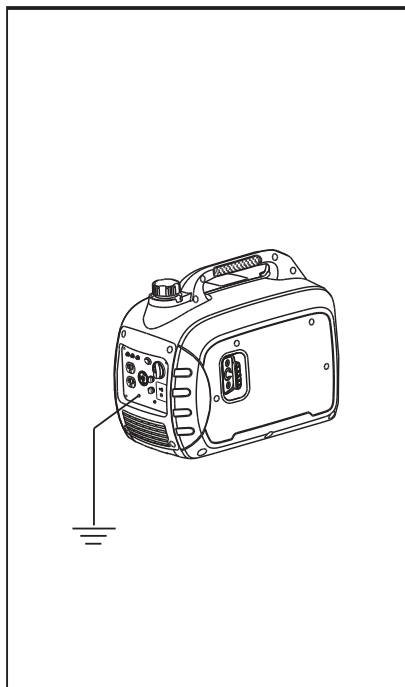
When using extension lines or mobile distribution networks the total length of lines for a cross section of 1.5 mm^2 should not exceed 60 m; for a cross section of 2.5 mm^2 this should not exceed 100 m.

Electrical equipment (including lines and plug connections) should not be defective.

2

Safety Information

Inverter Generator Owner's Manual



⚠ WARNING

It must realize safe grounding.

NOTICE

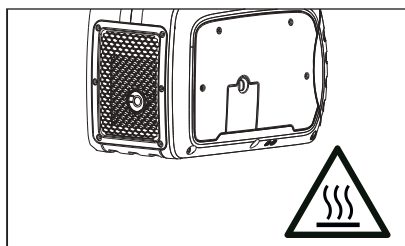
Use the ground wire with enough electric flux.

Ground wire diameter : 0.12mm/A
EX:10A-1.2mm

There is a permanent conductor between the generator (stator winding) and the frame.

The generator (stator winding) is isolated from the frame and from the ac receptacle ground pin.

Electrical devices that require a grounded receptacle pin connection will not function if the receptacle ground pin is not functional.



⚠ WARNING

The generator surface has high temperature, avoid scalding.
Pay attention to the warnings on the generating set.

Connection to a home power supply

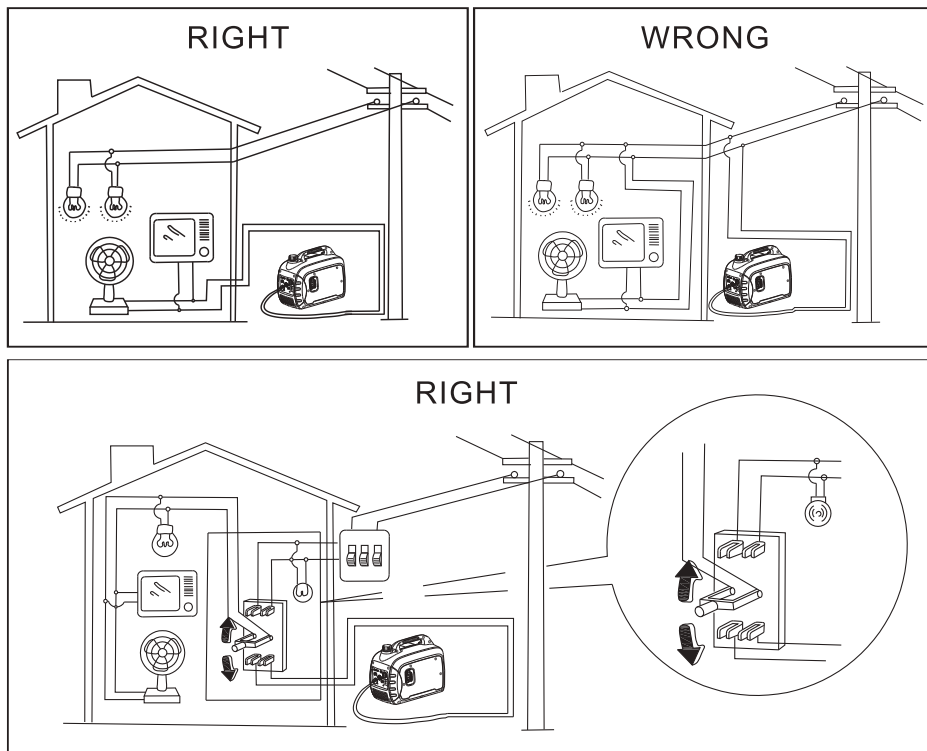
If the generator is to be connected to a home power supply as a standby, connection shall be performed by a professional electrician or by another person with proficient electrical skill.

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

2

Safety Information

Inverter Generator Owner's Manual



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

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

Others

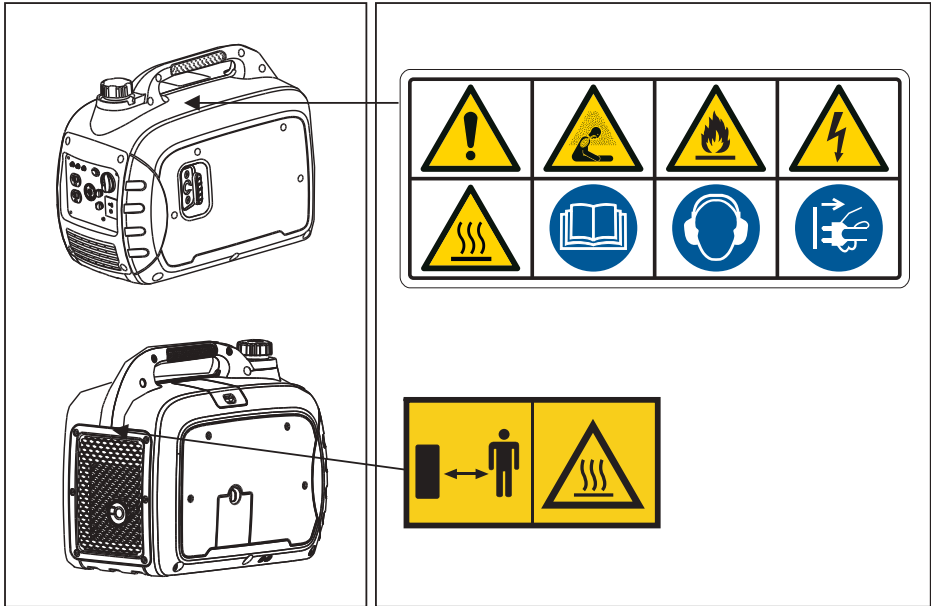
Make sure Inverter ducted fan, muffler louver and the inverter bottom side cooling well and without chips, mud and water come in. it may damage the generator, inverter or alternator if the cooling vent blocked. Do not mix the generator with other stuff if moving, storing or running the unit, It may cause generator damage or bring property safety issue when the inverter in leakage.

2

Safety Information

Inverter Generator Owner's Manual

There is the warning label on the machine to remind you of the safety regulations.



Read the safety instructions before using the generator.



Gases such as carbon monoxide (colourless and odourless gas) are produced during operation which may lead to suffocation. Only use the generator in well-ventilated areas.

2

Safety Information

Inverter Generator Owner's Manual



Only fill the generator in well-ventilated areas and keep it away from open flames, sparks and cigarettes. Spilled fuel should be soaked up immediately.
Switch off the engine and let it cool down before filling the generator. Fuel is easily flammable and may even explode under certain circumstances.



Warning! Dangerous voltages are present when the generator is in operation. Generator must always be switched off before performing maintenance works.



Wear ear protection when operating the generator.



Disconnect all devices from the connections before performing maintenance works, before leaving the device and after switching it off.

↑ WARNING

- A warning reminding the user that he shall conform to regulations of electrical safety applicable to the place where the generating sets are used.
- A warning on the requirements and the precautions to be respected by the user in the case of re-supply by generating sets of an installation, depending on existing protective measures in this installation and applicable regulations.

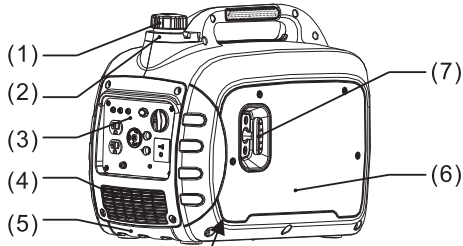
3

Control Function

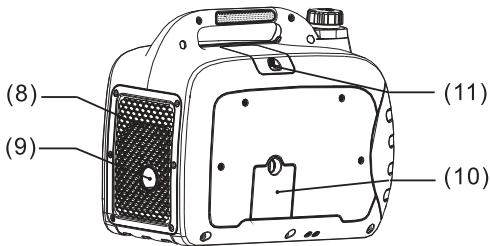
Inverter Generator Owner's Manual

Control Function

DESCRIPTION



Serial number
T***YYMM*****
The YYMM is year
and month of
manufactured.



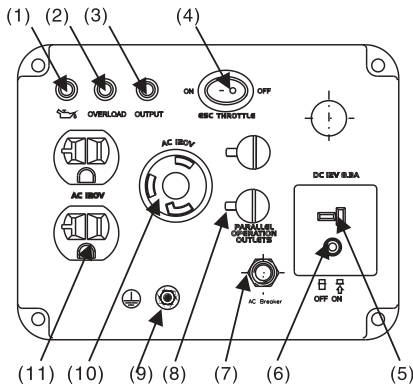
- (1) Fuel tank cap
- (2) Oiling port rubber sleeve
- (3) Control panel
- (4) Panel bed
- (5) The bottom plate frame
- (6) Oil filler cap
- (7) Recoil starter
- (8) Louver
- (9) Muffler
- (10) Oil observation window
- (11) Spark plug

3

Control Function

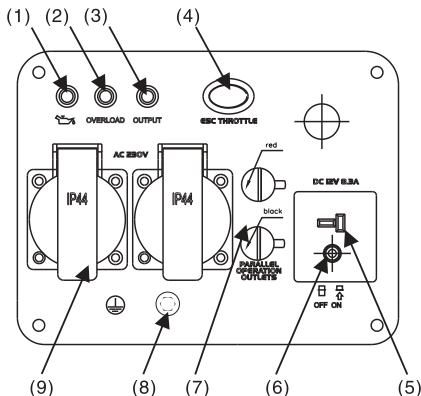
Inverter Generator Owner's Manual

120V 60Hz (CSA)



- (1) Oil warning light
- (2) Overload indicator light
- (3) AC pilot light
- (4) ESC(engine smart control)
- (5) DC receptacle
- (6) DC protector
- (7) AC Breaker
- (8) Parallel receptacle
- (9) Ground terminal
- (10) AC receptacle
- (11) AC receptacle

230V 50Hz



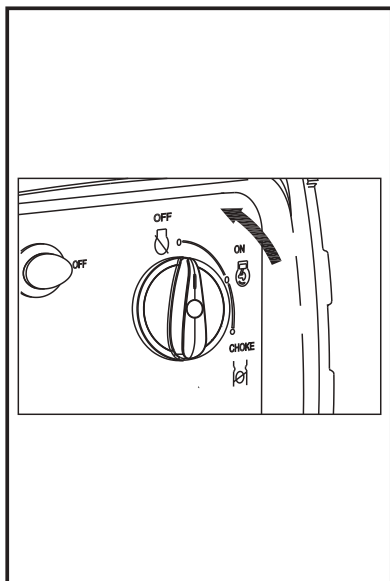
- (1) Oil warning light
- (2) Overload indicator light
- (3) AC pilot light
- (4) ESC(engine smart control)
- (5) DC receptacle
- (6) DC protector
- (7) Parallel receptacle
- (8) Ground terminal
- (9) AC receptacle

3

Control Function

Inverter Generator Owner's Manual

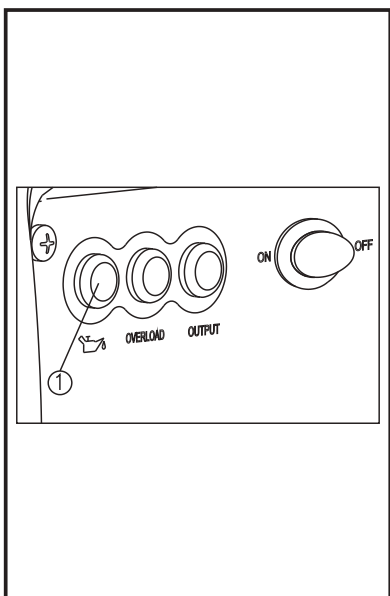
CONTROL FUNCTION



3 in 1 switch knob

- ① Engine/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. Chock is switched on. The engine can be running.
- ③ Engine switch \fuel valve \choke. "ON" Ignition circuit is switched on. Fuel is switched on. Chock is switched on. The engine can be start.

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



Oil warning light

When the oil level falls below the lower 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 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.

3

Control Function

Inverter Generator Owner's Manual

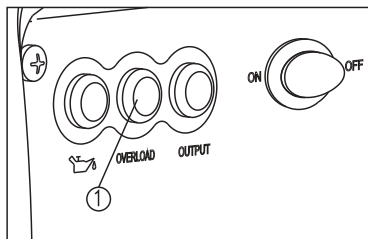
Overload indicator light (Red)

The overload indicator light ① 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.

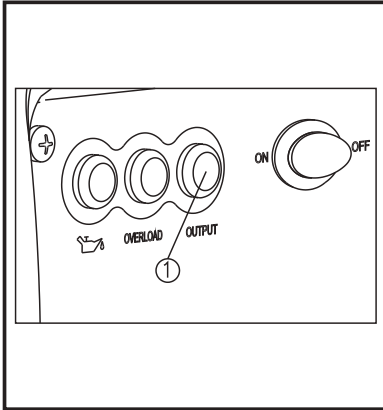
TIP : The overload indicator light may come on for a few seconds at first when using electric devices that require a large starting current, such as a compressor or a submersible pump. However, this is not a malfunction.



3

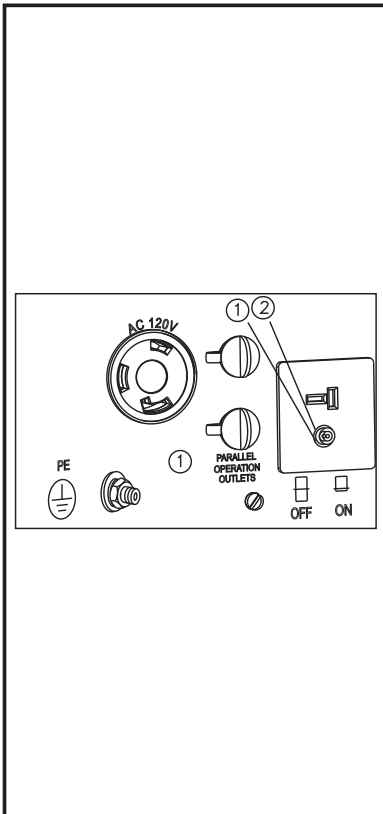
Control Function

Inverter Generator Owner's Manual



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” ② 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” ①.

- ① “ON” Direct current is output.
- ② “OFF” Direct current is not output.

NOTICE

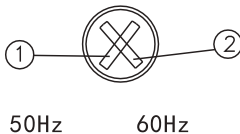
Reduce the load of the connected electric device below the specified rated output of the generator if the DC protector turns off. If the DC protector turns off again, stop using the device immediately and consult a franchised dealer.

3

Control Function

Inverter Generator Owner's Manual

FREQUENCY SELECTION



Frequency selection (FS) switch Only for 100V product

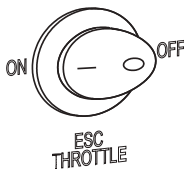
① 50Hz

② 60Hz

If you need change the machine output frequency, please stop the generating set firstly, then adjust the position of frequency switch by screwdriver. Then restart it.

NOTICE

Frequency switch can change frequency only when the generator setting stops. The generator setting output frequency can't change if it operates.



Engine smart control

① "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.

② "OFF"

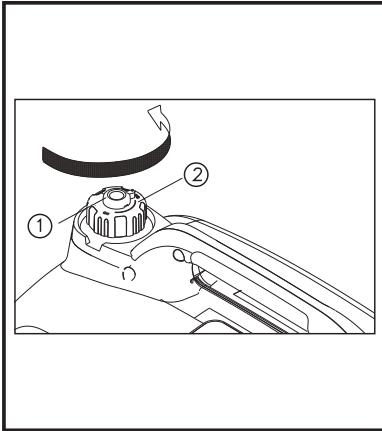
When the ESC switch is turned to "OFF", the engine runs at the rated (3100r/min) Regardless of whether is a load connected or not.

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.

3

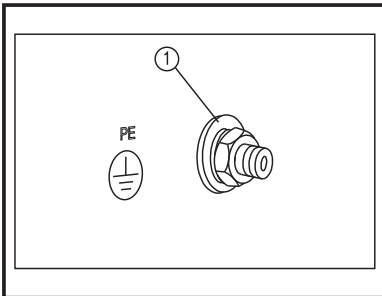
Control Function

Inverter Generator Owner's Manual



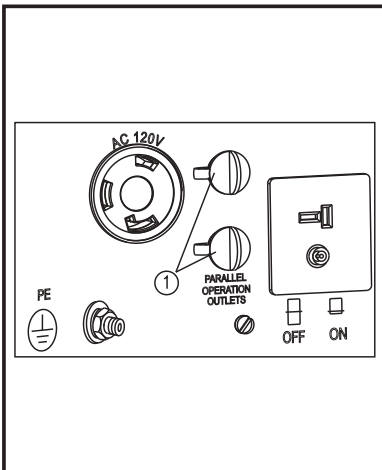
Fuel tank cap

1. Remove the fuel tank cap by turning it counterclockwise.
2. The fuel tank cap ② is provided with an air vent knob ① to stop fuel flow. The air vent knob must be turned to "ON". This will allow fuel to flow to the carburetor and the engine to run. When the engine is not in use, turn the air vent knob to "OFF" to stop fuel flow.



Ground terminal

Ground terminal ① connects the earth line for prevention of electric shock. When the electric device is earthed, always the generator must be earthed.



Parallel Operation Outlets

This is the terminal ① for connecting special cables for parallel running of two generator. The parallel running requires two generator and the special cables. (The rated output in parallel running is 3.0Kva and the rated current is 25.0A/120V;13.0A/230V.)

The handing, operation procedure and the notes on usage are described in the PARALLEL RUNNING KIT OWNER'S MANUAL included in the Parallel.

4

Pre-operation

Inverter Generator Owner's Manual

Pre-operation

NOTICE

Pre-operation checks should be made each time operation.

⚠ 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.

Fuel

⚠ WARNING

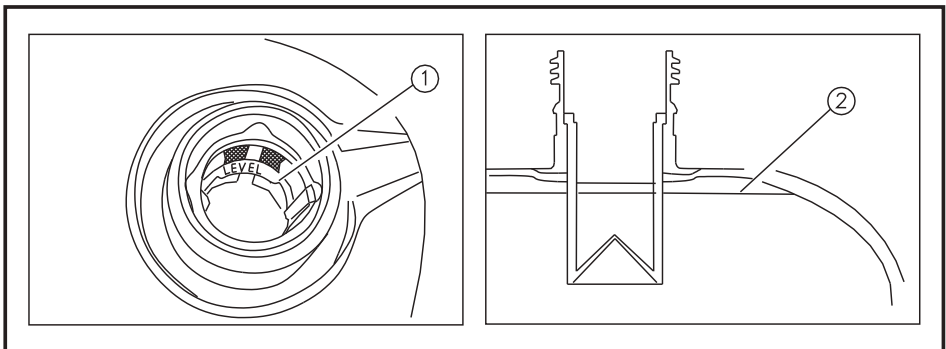
- Fuel is highly flammable and poisonous. Check "SAFETY INFORMATION"(See page 2-5) carefully before filling.
- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands. After fill the fuel, make sure the fuel tank cap is tightened securely.
- Immediately wipe off spilled fuel with a clean.
- Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts.

Remove the fuel tank cap and fill to the red mark.

Recommended fuel: Unleaded gasoline

Fuel tank capacity: Total: 4.6L (1.21 US gal, 1.01 Imp gal)

- ① Red line
- ② Fuel level



4

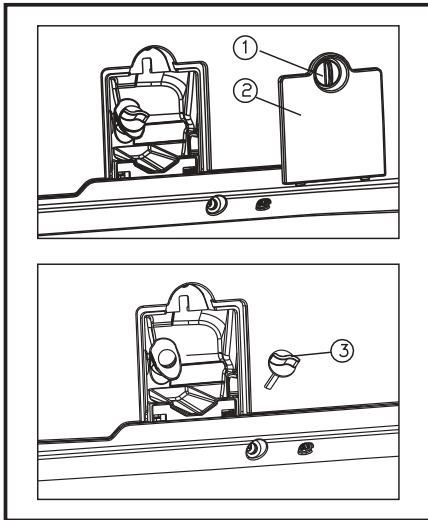
Pre-operation

Inverter Generator Owner's Manual

Engine Oil

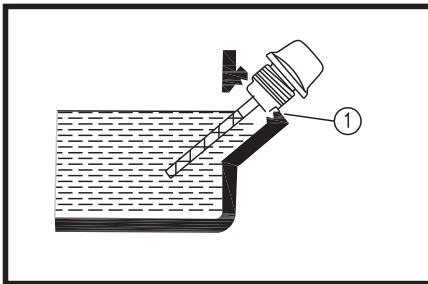
The generator has been shipped without engine oil. Do not start the engine till fill with the sufficient engine oil.

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



1. Place the generator on a level surface.
2. Remove the screws ①, and then remove the cover ②.
3. Remove the oil filler cap ③.
4. Fill with 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.

Oil level



Recommended engine oil:

SAE 10W -30

Recommended engine oil grade:

API Service SE type or higher

Engine oil quantity:

0.6 L (0.16 US qt, 0.13 Imp qt)



Operation

Inverter Generator Owner's Manual

Operation

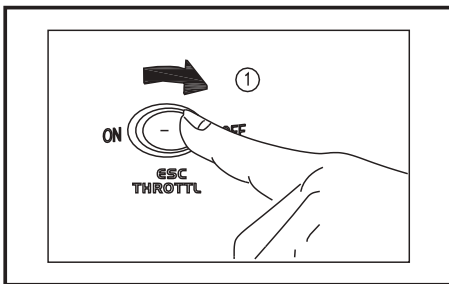
NOTICE

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

TIP:

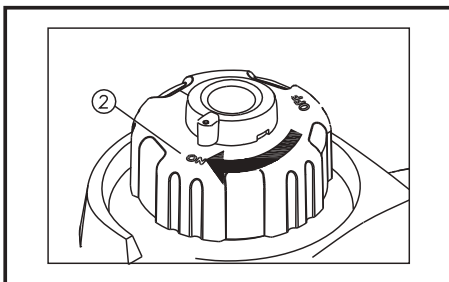
- The generator can be used with the rated output load at standard atmospheric conditions.
- “Standard atmospheric conditions”; Ambient temperature 25°C.
- Barometric pressure 100kPa; Relative humidity 30%
- The output of the generator varies due to change temperature, altitude (lower air pressure at 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 confined areas, as generator cooling is affected.

STARTING THE ENGINE



Before starting the engine, do not connect any electric devices.

Turn the ESC switch to “OFF” ① .

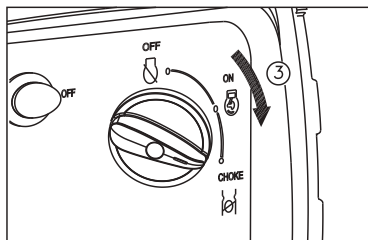


Turn the air vent knob to “ON” ② .



Operation

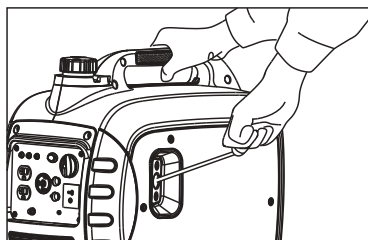
Inverter Generator Owner's Manual



Turn the 3 in 1 switch to “CHOCK” ③

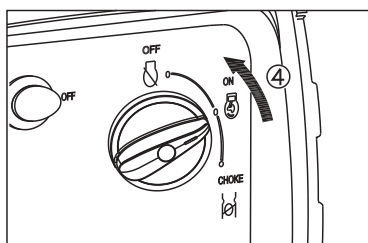
- a. Ignition circuit is switched on.
- b. Fuel is switched on.
- c. Chock is switched off.

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



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.



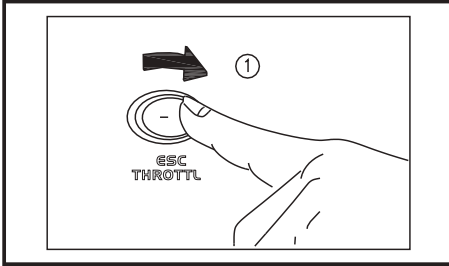
After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned to the “ON” position ④.

TIP:

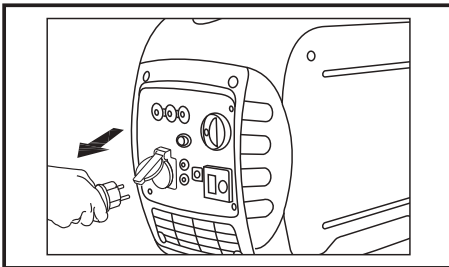
When starting the engine, with the ESC “ON” and there is no load on the generator:
 In ambient temperature below 0°C (32°F), the engine will run at the rated (2600rpm) for 5 minutes to warm up the engine.
 In ambient temperature below 5°C (41°F), the engine will run at the rated r/min (3600rpm) for 3 minutes to warm up the engine.
 The ESC unit operates normally after the above time period, while the ESC is “ON”.

STOP THE ENGINE

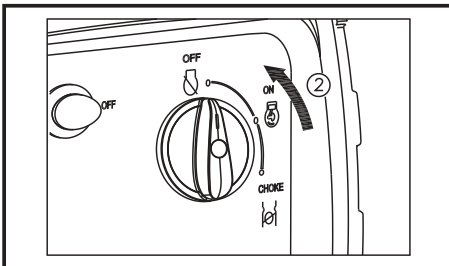
TIP: Turn off any electric devices.



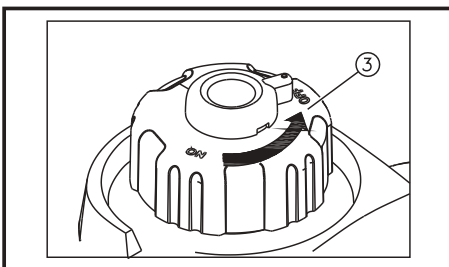
Turn the ESC to "OFF" ①



Disconnect any electric devices.



Turn the 3 in 1 switch to "OFF" ②,
a. Ignition circuit is switched off.
b. Fuel is switched off.



Turn the fuel tank cap air vent knob to "OFF" ③ after the engine has completely cooled down.



Operation

Inverter Generator Owner's Manual

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 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" before increasing engine speed to rated rpm.

- Most motorized appliances require more than their electrical rating for startup. When an electrical motor is started, the overload indicator (red) may come on. This is normal if the overload indicator (red) goes off within 4 seconds. If the overload indicator (red) stays on, consult your generator dealer.
- 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.
- If the generator is overload, or if there is a short circuit in a connected appliance, the overload indicator (red) will go ON. The overload indicator (red) will stay ON, and after about 4 seconds, current to the connected appliance(s) will shut off, and the output indicator (green) will go OFF. Stop both engines and investigate the problem. Determine if the cause is a short circuit in a connected appliance or an overload, correct the problem and restart the generator.



Operation

Inverter Generator Owner's Manual

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 ESC "OFF" to start battery charging.

NOTICE

- Be sure the ESC 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 haring. To restart charging the battery, turn he DC protector on by pressing its button to "ON". If the DC protector turns off again, top charging the battery immediately and consult a franchised dealer.

TIP:

- Follow instructions in the owner are 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.



Operation

Inverter Generator Owner's Manual

- It is advisable to check the specific gravity of the electrolyte at least once every hour to prevent overcharging the battery.

⚠ WARNING

- 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

AC PARALLEL OPERATION

Before connection an appliance to either generator, make sure that it is in good working order and that its electrical rating does not exceed that of the receptacle.

During parallel operation, the ESC switch should be in the same position on both generators.

1. Connect the parallel operation cable between the generator to either an generator or companion generator following the instructions supplied with the cable kit.
2. Start the engines and make sure the output indicator (green) on each generator comes on.
3. Plug an appliance into the AC receptacle.
4. Turn on the appliance.



Operation

Inverter Generator Owner's Manual

AC Parallel Operation Applications

TIP:

- Make sure that it is in good working order. A faulty appliance or power cord can create a potential for electrical shock.
- If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance and determine whether the problem is the appliance, and determine whether the problem is the appliance or the rated load capacity of the generator has been exceeded.
- Make sure that the combined electrical rating of the tools or appliance do not exceed that of the generator. Never exceed the maximum may be used for no more than 30 minutes.
- Never connect different generator models.
- Don't remove the parallel operation cable when the generator operation.
- For single generator operation, the parallel operation cable must be removed.

WARNING





- Substantial overloading that continuously lights the overload indicator (red) may damage the generator
- Marginal overloading that temporarily light the overload indicator (red) may shorten the service life of the generator.
- Limit operation requiring maximum power to 30 minutes.
- Maximum power in parallel operation is: 5.0kVA.
- For continuous operation, do not exceed the rated power.
- Rated power in parallel operation is: 4.6kVA.

6

Application Range

Inverter Generator Owner's Manual

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)	
3000i	~2300W	~1840W	~920W	Rated voltage 12V Rated current 8.3A

TIP:

- “~” means below.
- 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		2300VA
Frequency	Power factor	
AC	1.0	~2300W
	0.8	~1840W
DC	--	100W(12V/8.3A)

The overload indicator light comes on when total wattage exceeds the application range. (See page 12 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.

Maintenance

Inverter Generator Owner's Manual

Maintenance

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your generator in the safest and most efficient condition possible. The most important points of generator inspection and lubrication are explained on the following pages.

WARNING

If you are not familiar with maintenance work, have a franchised dealer do it for safety.

Maintenance chart

WARNING

Stop the engine before starting maintenance work.

Use only franchised dealer specified genuine parts for replacement. Ask an authorized franchised dealer for further attention.

Item	Routine	Pre-operation check(daily)	6 months or 100 Hr	12 months or 300 Hr
Spark plug	Check condition. Clean and replace if necessary.		○	
Fuel	Check fuel level and leakage.	○		
Fuel hose	Check fuel hose for cracks or damage, Replace if necessary.	○		
Oil	Check oil level in engine.	○		
	Replace		○ (1)	
Air filter	Check condition. Clean.		○ (2)	
Muffler screen	Check condition. Clean and replace if necessary.		○	
Spark arrester	Check condition. Clean and replace if necessary.		○	

Maintenance

Inverter Generator Owner's Manual

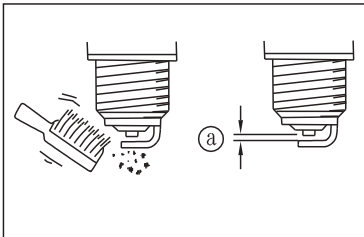
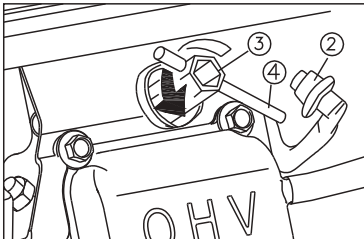
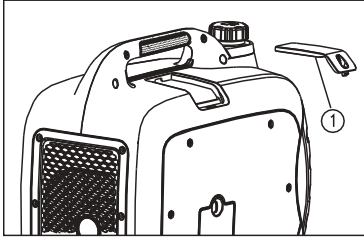
Item	Routine	Pre-operation check(daily)	6 months or 100 Hr	12 months or 300 Hr
Fuel filter	Clean and replace if necessary.			○
Crankcase breather hose	Check hose weather for cracks or damage. Replace if necessary.			○
Cylinder head	Decarbonizes cylinder head More frequently if necessary			★
Valve clearance	Check and adjust when engine is cold			★
Fittings/ fasteners	Check all fittings and fasteners. Correct if necessary.			★
The point where abnormality was recognized by use		○		

- (1) Initial replacement of the engine oil is after before one month or after 20 hours of operation.
 - (2) The air filter needs to be cleaned more frequently when using in unusually wet or dusty areas.
- ★ Since these items require tools, date and technical skills, you should find a local dealer perform the service.

Maintenance

Inverter Generator Owner's Manual

SPARK PLUG INSPECTION



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

1. Remove the spark plug cap ①. Insert the tool ④, through the hole from the outside of the cover.
2. Insert the handlebar ③ in to the tool ④ and turn it counterclockwise to remove the spark plug.
3. Check for discoloration and remove any carbon deposits. 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:

F7RTC

spark plug

Gap: 0.7-0.8mm (0.028-0.031in)

5. Install the spark plug.

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.

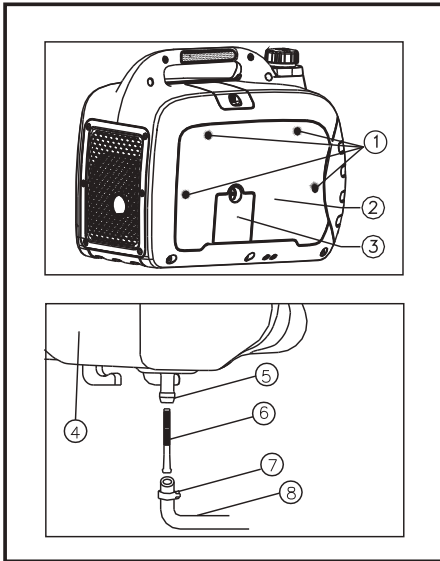
Maintenance

Inverter Generator Owner's Manual

CARBURETOR ADJUSTMENT

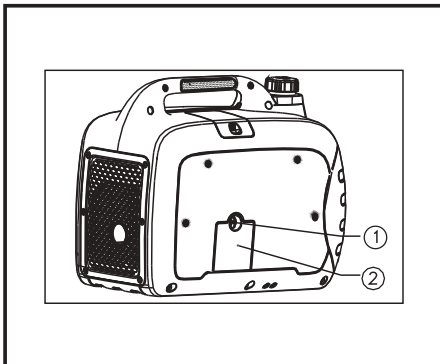
The carburetor is a vital part of the engine. Adjusting should be left to a dealer with the professional knowledge, specialized date, and equipment to do so properly.

CLEAN FUEL FILTER



1. Remove the screw ① and then remove the cover ② and Oil observation window ③.
2. Drain the fuel in the fuel tank ④. Hold the tube clip ⑦ toward downward and pull out the fuel tube ⑧ which connect on the fuel tank, then disassemble fuel filter.
3. Put the fuel filter ⑥ into non-combustible or higher flash point solvent and clean it.
4. Assemble fuel filter to the main jet ⑤ on the fuel tank, then assemble fuel tube to main jet on the fuel tank and install tube clip.

ENGINE OIL REPLACEMENT

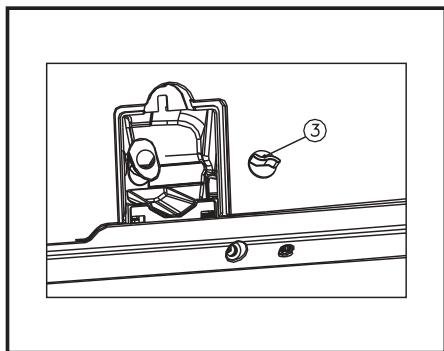


Avoid draining the engine oil immediately after stopping the engine. The oil is hot and should be handled with care to avoid burns.

1. Place the generator on a level surface and warm up the engine for several minutes.
2. Unscrew but unloosen the screw ① and take off the sight glass of engine oil ②.

Maintenance

Inverter Generator Owner's Manual

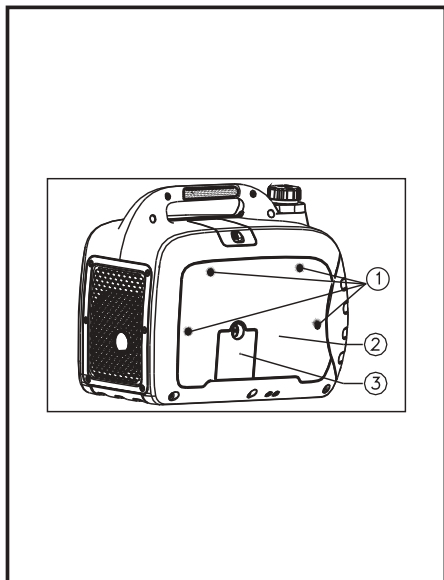


3. Remove the oil filler cap ③.
4. Place an oil pan under the engine. Tilt the generator to drain the oil completely.
5. Add oil till to a suitable level, tighten oil filler cap.
6. Assemble the sight glass of engine oil.

NOTICE

- Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine. Don't make foreign body fall into engine.
- Oil and gasoline could pollute the environment, don't throw it in the trash or pour it on the ground.

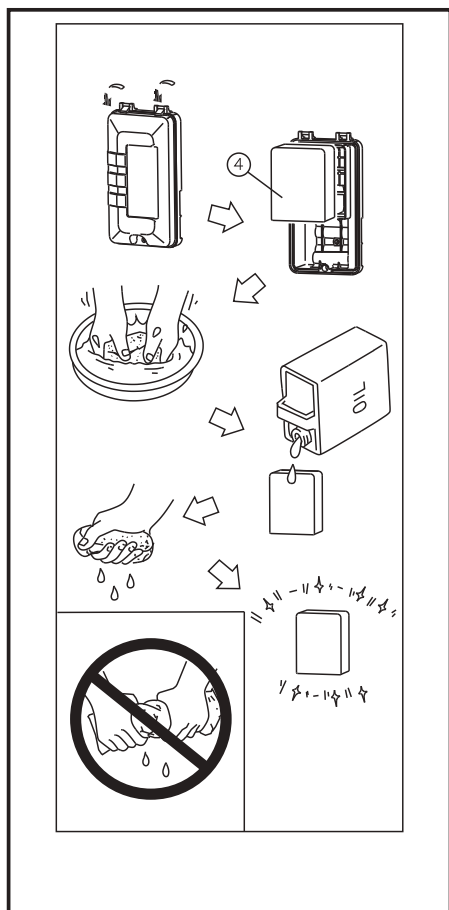
AIR FILTER



1. Remove the screw ① and then remove the cover ② and Oil observation window ③.
2. Remove the air filter case cover and then remove the foam element ④ .

Maintenance

Inverter Generator Owner's Manual



3. Wash the foam element in solvent and dry it.
4. 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.

5. Insert the foam element into the air filter case.

TIP:

Be sure the foam element seals properly against the air filter holder to avoid air leakage. The engine should never run without the foam element; excessive piston and cylinder wear may result.

6. Install the air filter case cover in its original position and tighten the screw.

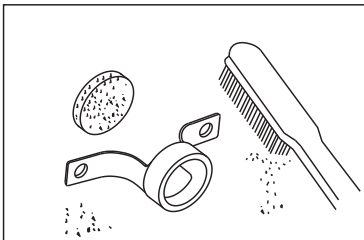
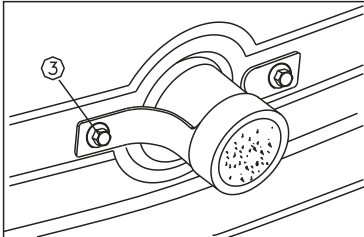
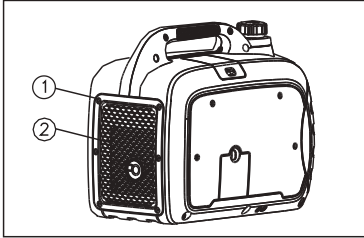
MUFFLER SCREEN

⚠ WARNING

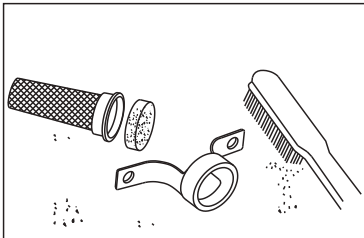
The engine and muffler will be very hot after the engine has been run. Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.

Maintenance

Inverter Generator Owner's Manual



Ordinary



USDA

1. Unscrew 6 bolts ① , and take off shutter ②.
2. Loosen the bolt ③ and then remove the muffler screen .
3. Clean the carbon on the muffler screen by wire brush.
4. Check the muffler screen and spark arrester, replace if it damage.
5. Install spark arrester.
6. Install the cover and tighten the screws.

8

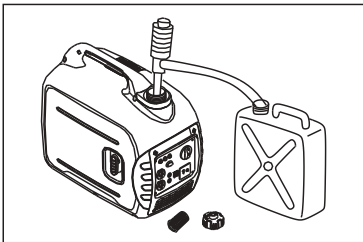
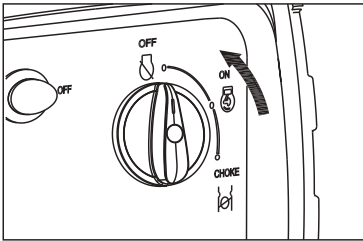
Storage

Inverter Generator Owner's Manual

Storage

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

DRAIN THE FUEL



1. Turn the 3 in 1 switch to "OFF"①.
2. Remove the fuel tank cap, remove the filter. Extract the fuel from the fuel tank into an approved gasoline container using a commercially available hand siphon. Then, install the fuel tank cap.
3. Fuel is highly flammable and poisonous. Check "SAFETY INFORMATION" (See page 1) carefully immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.
4. Start the engine and leave it run until it stops. The engine stops in approx. 20 mins. Time 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.

5. Drain the fuel from the carburetor by loosening the drain screw on the carburetor float chamber.
6. Turn the 3 in 1 switch to "OFF".
7. Tighten the drain screw.

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 reinstall the spark plug.
2. Recoil start the engine by turning over several times (with 3 in 1 switch knob off) to coat the cylinder walls with oil.
3. Pull the recoil starter until you feel compression. (This prevents the cylinder and valves from rusting).
4. Then stop pulling.
5. Clean the outside of engine and spray antirust additive.
6. Store the generator in a dry, well-ventilated place, with the cover placed over it.
7. Lay the engine vertically.

9

Troubleshooting

Inverter Generator Owner's Manual

Troubleshooting

ENGINE CAN'T START

1. Fuel systems

- No gasoline in the fire chamber.
- No fuel in the fuel tank...add fuel.
- Fuel in tank.
- Clogged fuel filter Clean fuel filter.
- Clogged carburetor.... Clean carburetor.

2. Engine oil system

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

3. Electrical systems

- 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 a franchised dealer.

GENERATOR WON'T PRODUCE POWER

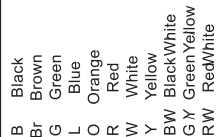
- Safety device (DC protector) to “OFF”.... Press the DC protector to “ON”.
- The AC pilot light (Green) go off Stop the engine, and then restart.

Parameters

Model No.		3000 is
Generator	Type	Inverter
	Rated frequency /Hz ※	50/60/50&60
	Rated voltage /V ※	100/110/120/230
	Max. output power /kW	2.5
	Rated output power /kW	2.3
	Power factor	1.0
	AC output quality	ISO8528 G2
	THD/%	≤5
	Noise Level dB/LpA/LwA/K 4m (3/4 load)	64.7
	DC Output/ V-A	12-8.3
	Overload Protect	Non-fuse Protector
Engine	DC	Control by inverter overload protect program
	AC	
	Engine	165F-4
	Engine type	Single cylinder, 4-Stroke, forced air cooling, OHV
	Displacement/cc	149
	Fuel type	Unleaded Gasoline
	Fuel Tank capacity/L	4.0
	Continue Running Time (at rated power) / h	2.7
	Engine Oil Capacity/L	0.6
Generator	Spark Model No.	F7RTC
	Starting mode	Recoil start
	Length×Width×Height/mm	565×339×467
	Net weight/kg	27

※ Only 230V 50Hz with data meter product is GS certificated.

● 50Hz / 60Hz, 100V



GENERATOR BLOCK

CONTROL PANEL BLOCK

ENGINE BLOCK

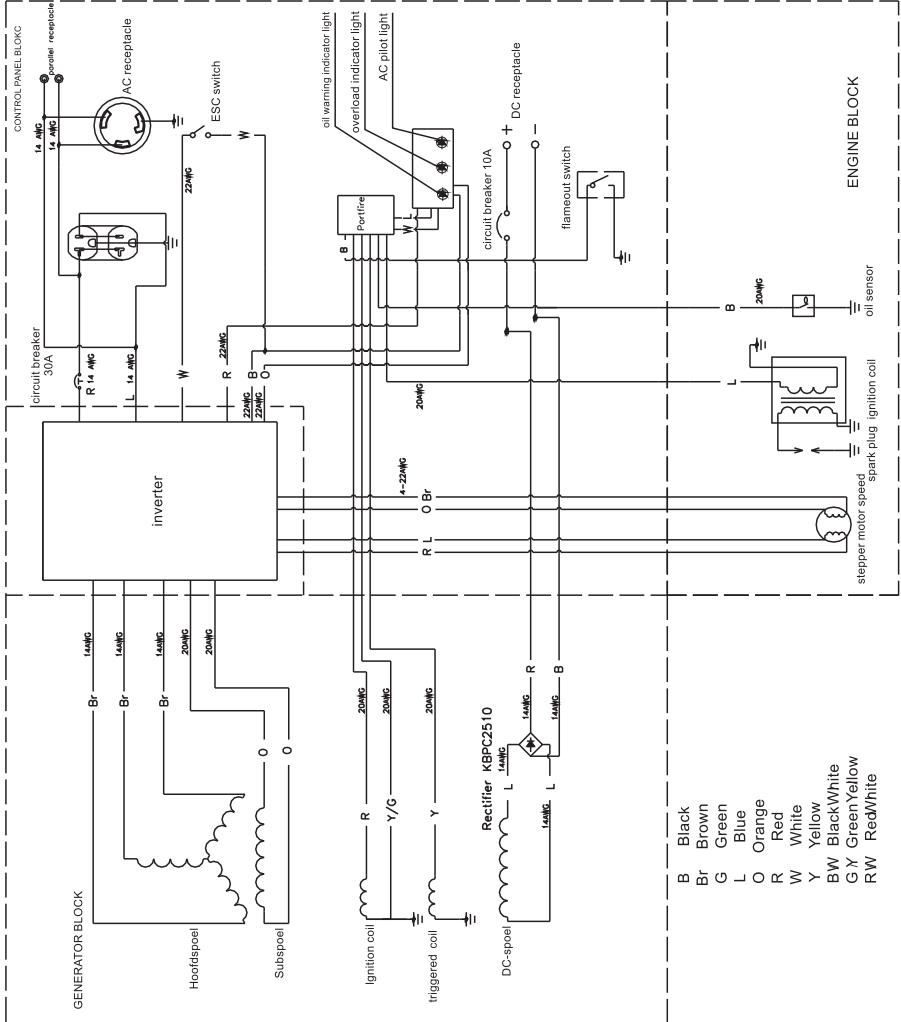
Legend:

- B Black
- Br Brown
- G Green
- L Blue
- O Orange
- R Red
- W White
- Y Yellow
- BW Black/White
- G Y Green/Yellow
- RW Red/White

Electrical Schematic Diagram

Inverter Generator Owner's Manual

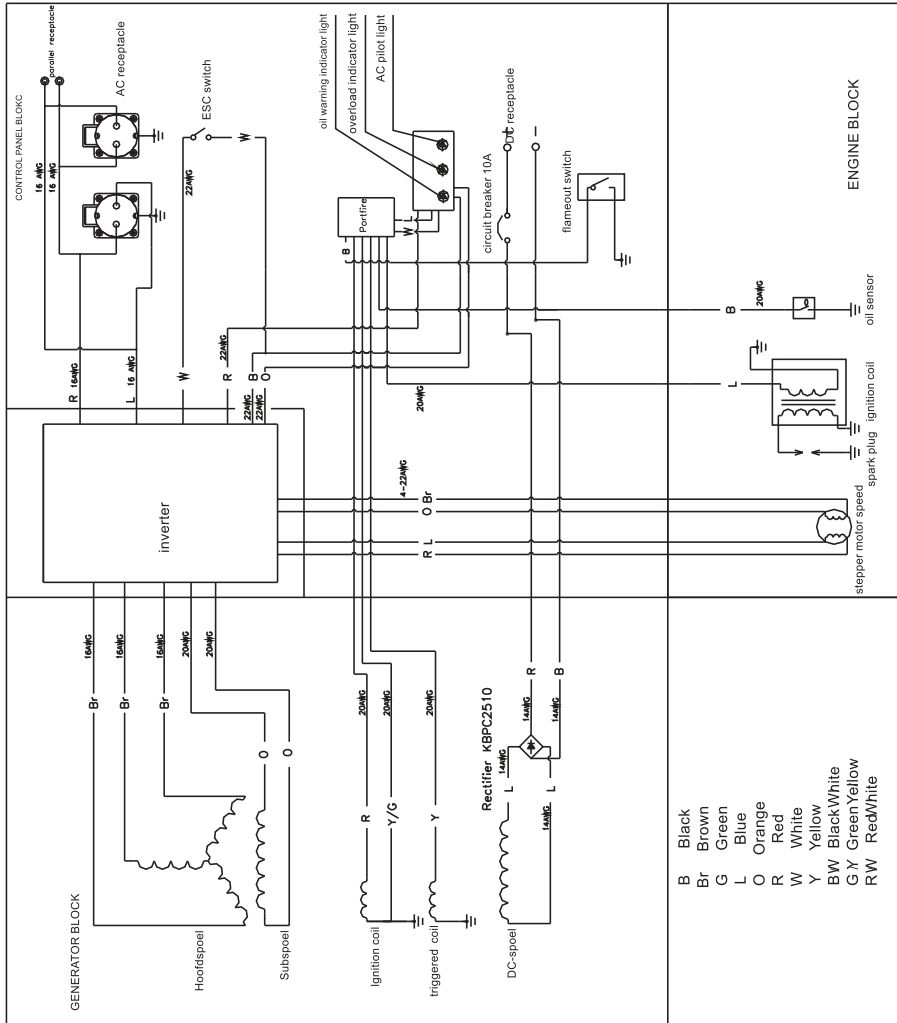
● 60Hz, 120V (CSA)

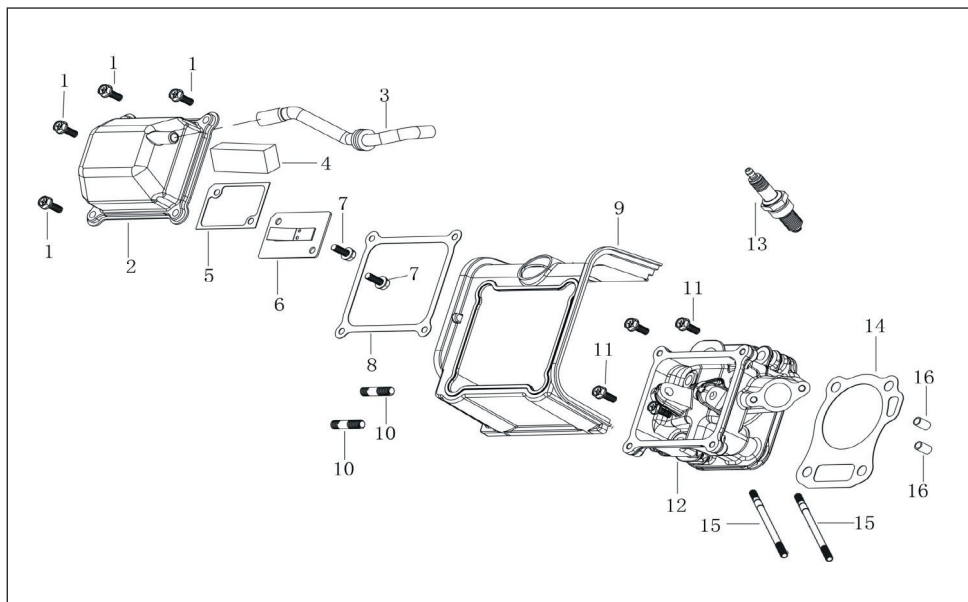


Electrical Schematic Diagram

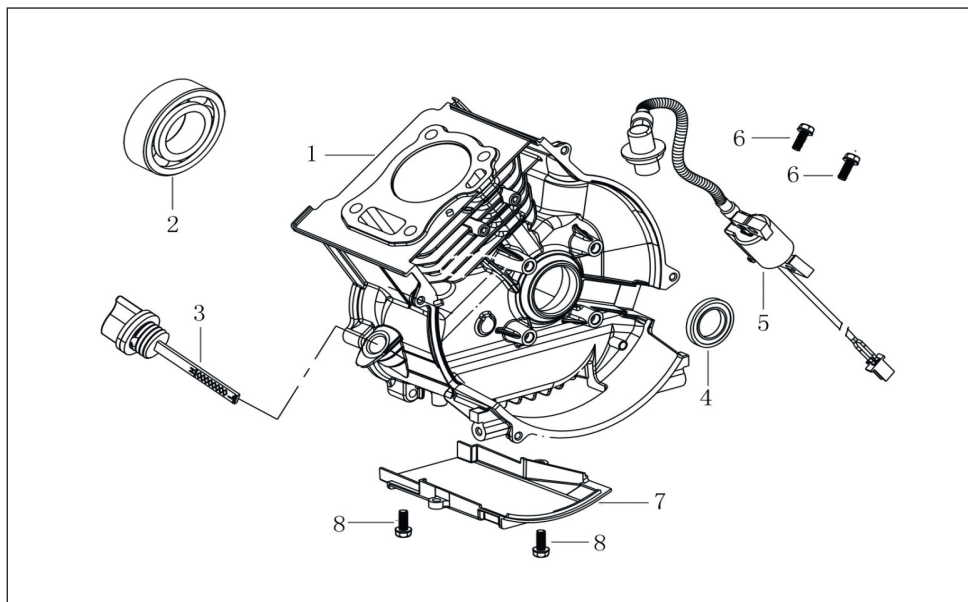
Inverter Generator Owner's Manual

50Hz, 230V

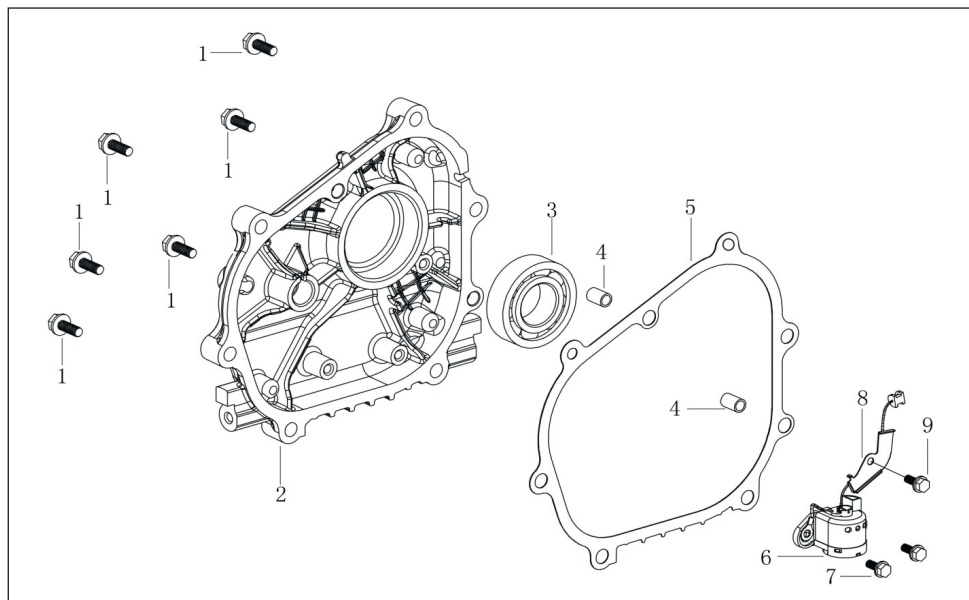




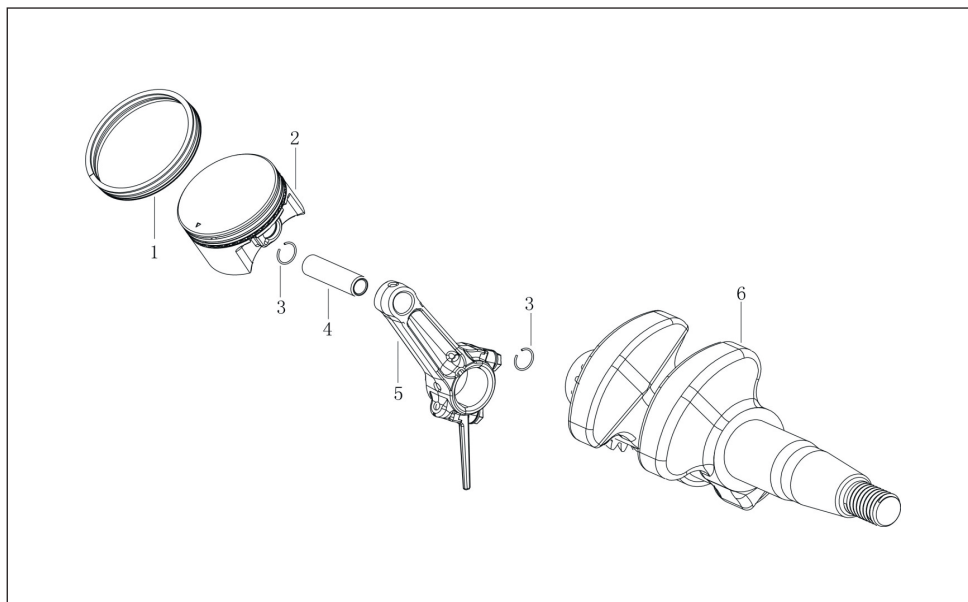
CYLINDER HEAD			
Ser.No	P/N Maxima	Description	Quantity
1	GEN380140003	BOLT, FLANGE M6X20	4
2	GEN120230186	COVER, HEAD	1
3	GEN380741287	TUBE, BREATHER	1
4	GEN150290027	FILTER, HEAD COVER	1
5	GEN110850027	GASKET, CAP, BREATHER	1
6	GEN110840038	CAP, BREATHER CHAMBER	1
7	GEN380140429	BOLT , FLANGE M5X10	2
8	GEN120250068	PACKING, HEAD COVER	1
9	GEN160190109	SHROUD COMP	1
10	GEN380180098	BOLT, STUD, EX. M8X34	2
11	GEN380140336	BOLT, FLANGE ,M8X60	4
12	GEN120080775	HEAD COMP ., CYLINDER	1
13	GEN270960014	PLUG, SPARK F7RTC	1
14	GEN120150238	GASKET CYLINDER	1
15	GEN380180206	BOLT, STUD, I N M6X116	2
16	GEN380600117	PIN, DOWEL	2



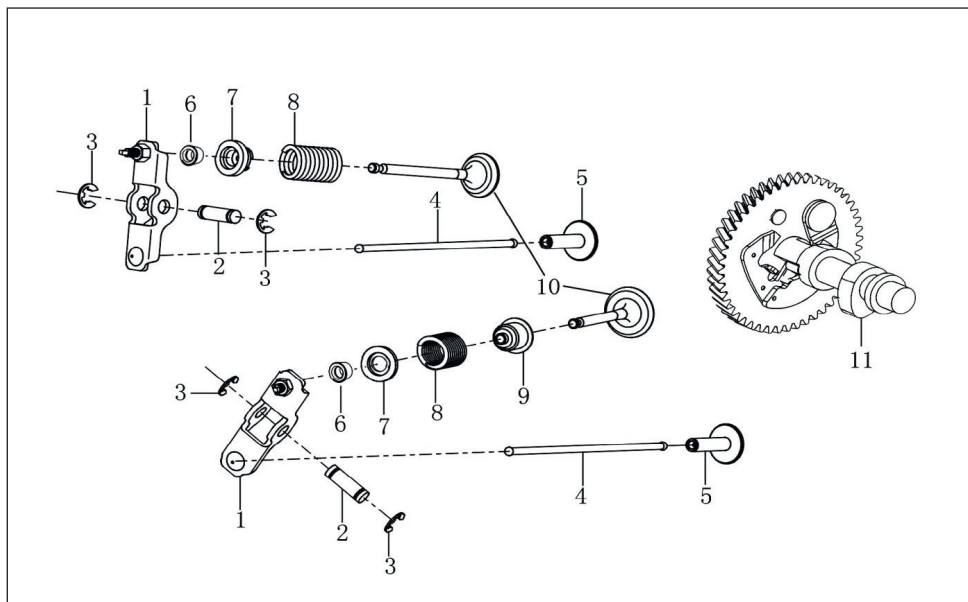
CRANKCASE			
Ser.No	P/N Maxima	Description	Quantity
1	GEN110810362	CRANK CASE	1
2	GEN380630417	BEARING 6205	1
3	GEN110690104	CAP ASSY.	1
4	GEN380650347	OIL SEAL 25×41.25×6	1
5	GEN270920394	COIL ASSY., IGNITION	1
6	GEN380140003	BOLT, FLANGE M6×20	2
7	GEN160200072	BOTTOM, GUARD SHIELD	1
8	GEN380140167	BOLT, FLANGE M5×12	2



CRANKCASE COVER			
Ser.No	P/N Maxima	Description	Quantity
1	GEN380140028	BOLT, FLANGE M8×32	6
2	GEN110820196	COVER, CRANKCASE	1
3	GEN380630417	BEARING 6205	1
4	GEN380600120	PIN, DOWEL 8×14	2
5	GEN110830070	PACKING, CASE COVER	1
6	GEN281850341	OIL LEVEL SWITCH	1
7	GEN380140002	BOLT, FLANGE M6×16	2
8	GEN110480032	PLATE	1
9	GEN380140011	BOLT, FLANGE M6×10	1

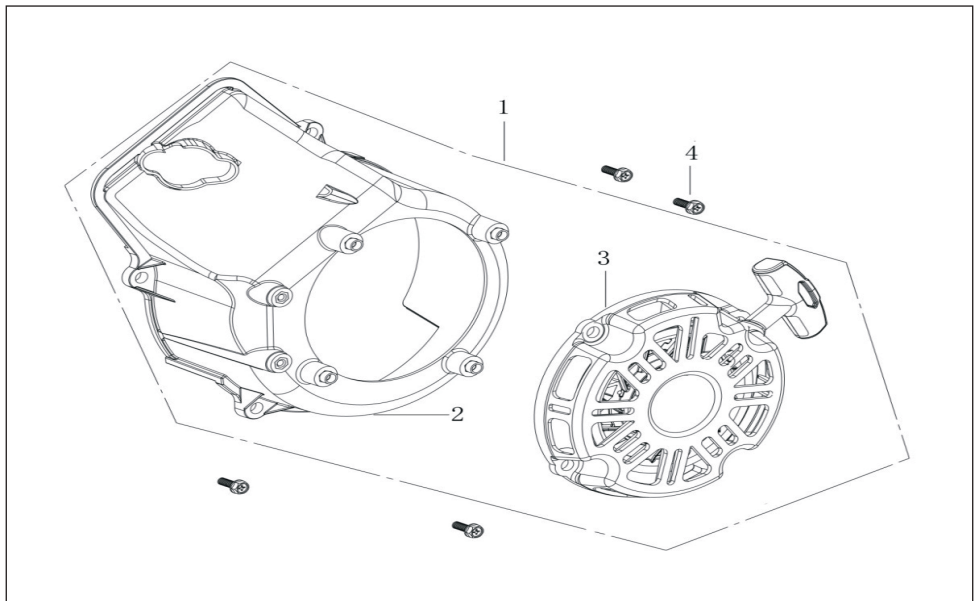


CRANKSHAFT/PISTON			
Ser.No	P/N Maxima	Description	Quantity
1	GEN130070255	RING SET	1
2	GEN130030295	PISTON	1
3	GEN380560055	CLIP, PISTON PIN	2
4	GEN130060030	PIN, PISTON	1
5	GEN130150141	ROD ASSY., CONNECTING	1
6	GEN130290580	CRANKSHAFT COMP	1

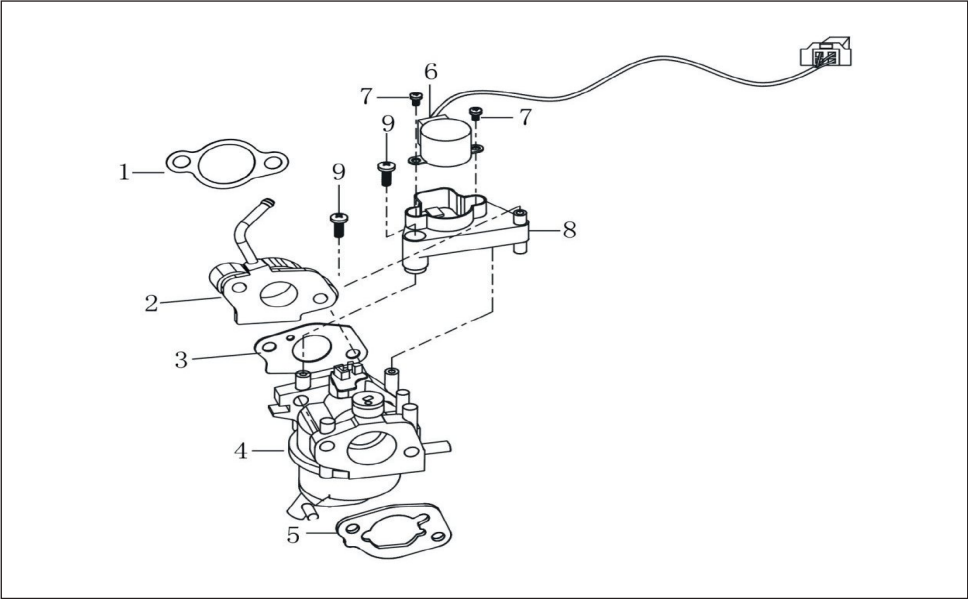


ROCKER,CAMSHAFT

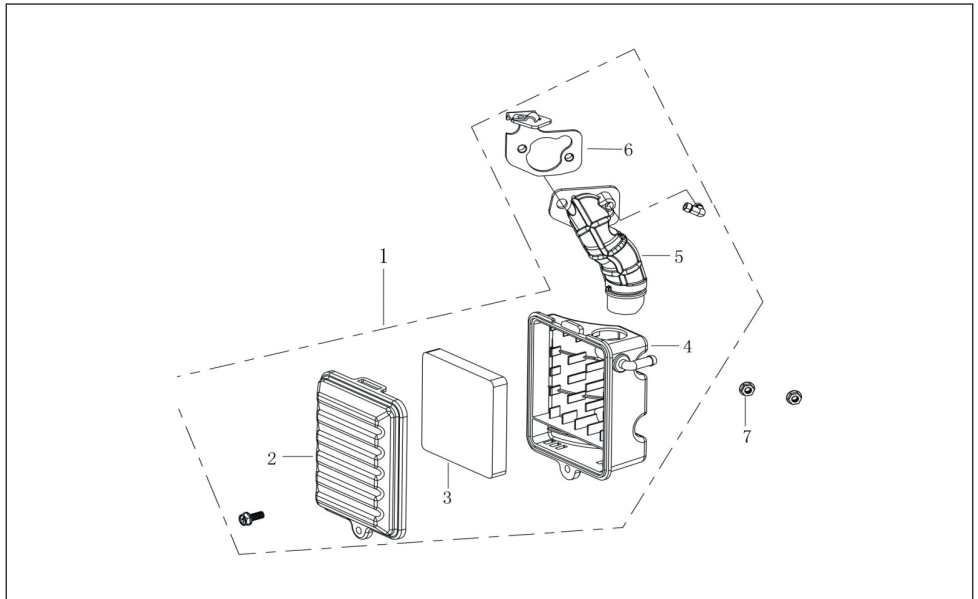
Ser.No	P/N Maxima	Description	Quantity
1	GEN140450056	ARM COMP.	2
2	GEN141730001	VALVE ROCKER SHAFT	2
3	GEN380570024	LOCKER	4
4	GEN140670061	ROD, PUSH	2
5	GEN140690002	LIFTER VALVE	2
6	GEN140390025	VALVE LOCKER	4
7	GEN140380054	RETAINER, VALVE SPRING	2
8	GEN140340039	SPRING, VALVE	2
9	GEN140400016	SEAL, GUIDE	1
10	GEN500550092	VALVE COMP.	1
11	GEN140020114	CAMSHAFT ASSY.	1



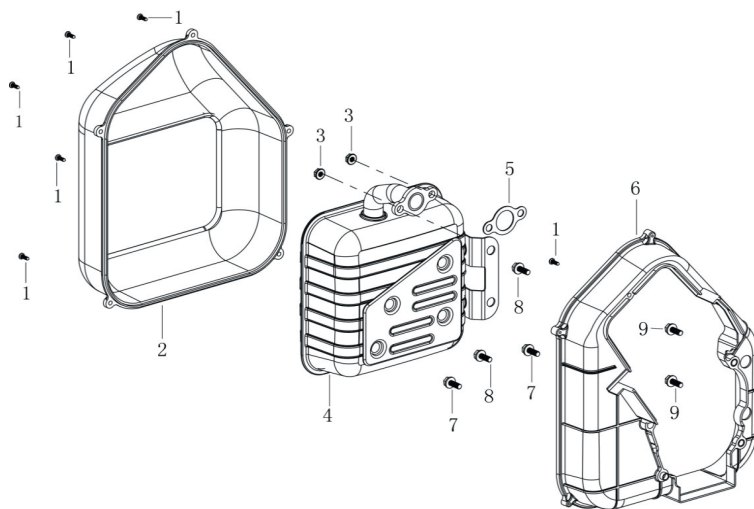
STARTER SUBASSEMBLY			
Ser.No	P/N Maxima	Description	Quantity
1	GEN193490440	RECOIL STARTER COMP.	1
2	GEN160210139	FAN COVER	1
3	GEN193500141	STARTER ASSY.	1
4	GEN380140003	BOLT, FLANGE	4



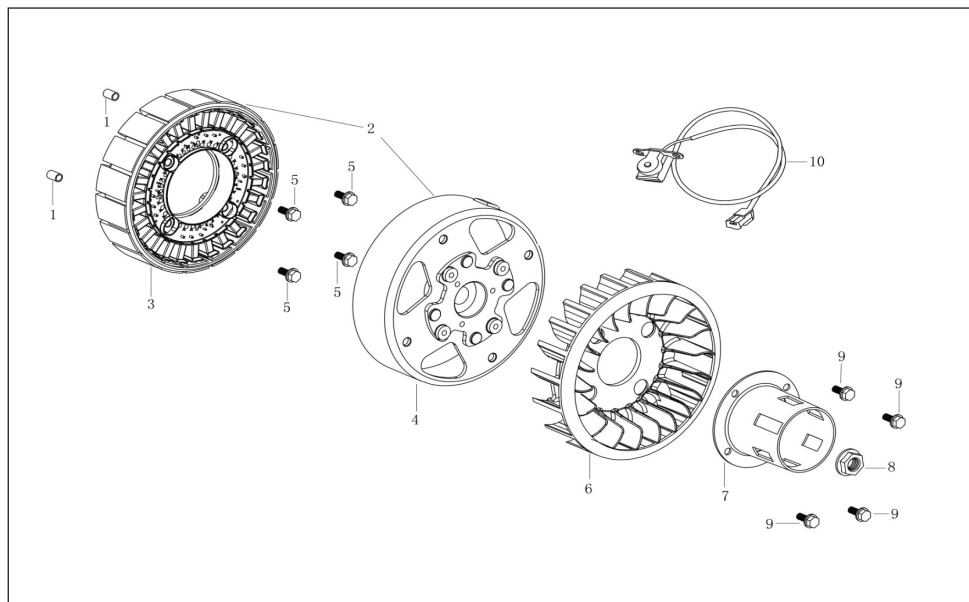
CARBURETOR			
Ser.No	P/N Maxima	Description	Quantity
1	GEN170430209	PACKING, INSULATOR	1
2	GEN170440111	INSULATOR,CARBURETOR	1
3	GEN170430048	PACKING., CARBURETOR	1
4	GEN170021871	CARBURETOR	1
5	GEN170430065	GASKET, CARBURETOR	1
6	GEN660910003	SPEED VARIABLE STEPPER MOTOR	1
7	GEN380200069	SCREW, M3X5	2
8	GEN660920008	BRACKET, ELETROMOTOR	1
9	GEN380200046	SCREW, TAPPING, M4x12	2



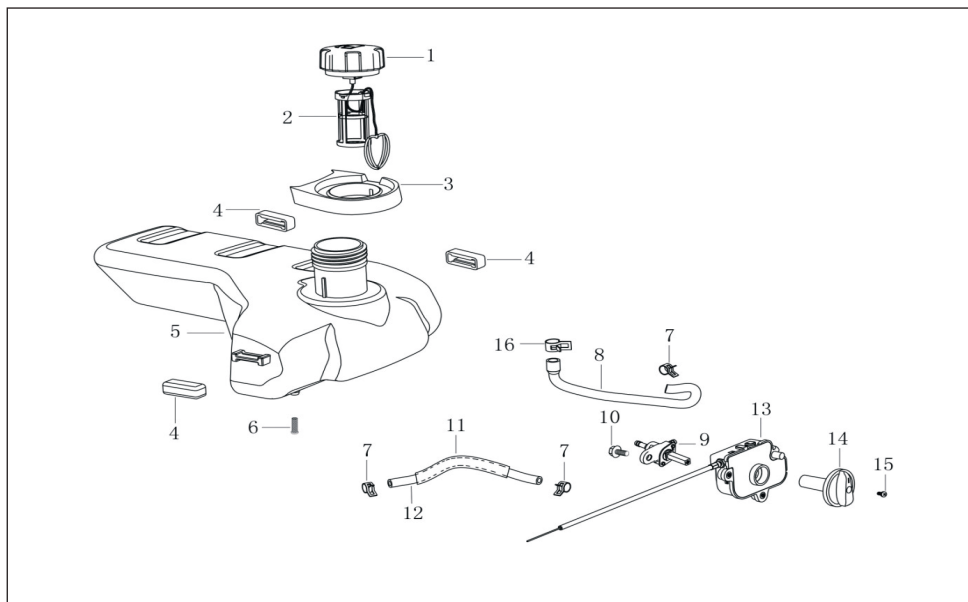
AIR CLEANER			
Ser.No	P/N Maxima	Description	Quantity
1	GEN180020893	AIR CLEANER	1
2	GEN180070256	COVER, AIR CLEANER	1
3	GEN180130295	FILTER, OUTER	1
4	GEN180280120	BASE, AIR CLEANER	1
5	GEN380741286	INLET PIPE	1
6	GEN 171480036	BRACKET CHOKE	1
7	GEN380370048	NUT, FLANGE	2



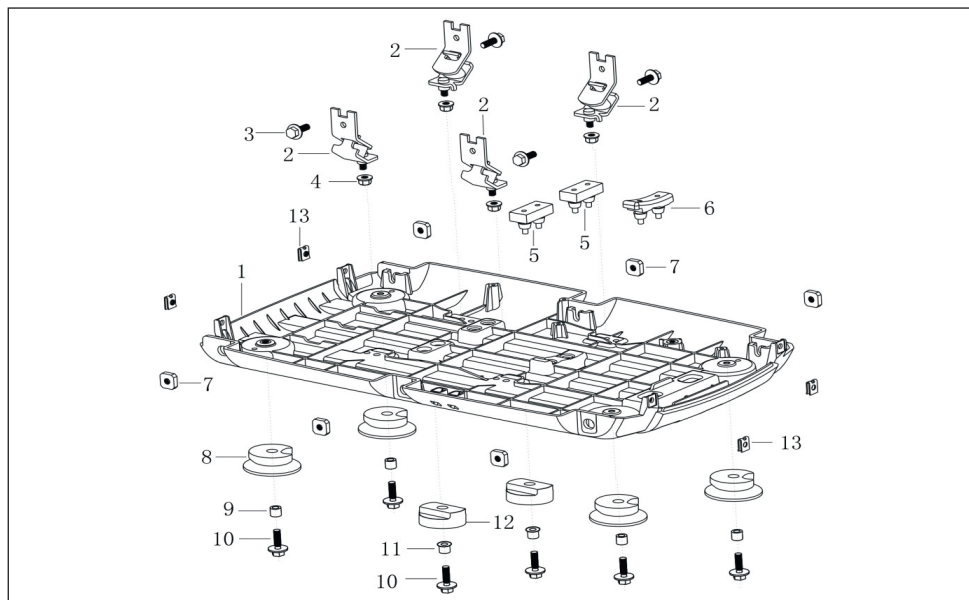
MUFFLER			
Ser.No	P/N Maxima	Description	Quantity
1	GEN380310135	SELF THREADING SCREW	6
2	GEN180960194	MUFFLER COVER	1
3	GEN380340005	NUT M8	2
4	GEN180572122	MUFFLER COMP	1
5	GEN180650080	GASKET, MUFFLER	1
6	GEN180960193	MUFFLER COVER	1
7	GEN380140002	BOLT, FLANGE M6X16	2
8	GEN380140003	BOLT, FLANGE M6X20	2
9	GEN380140040	BOLT, FLANGE	2



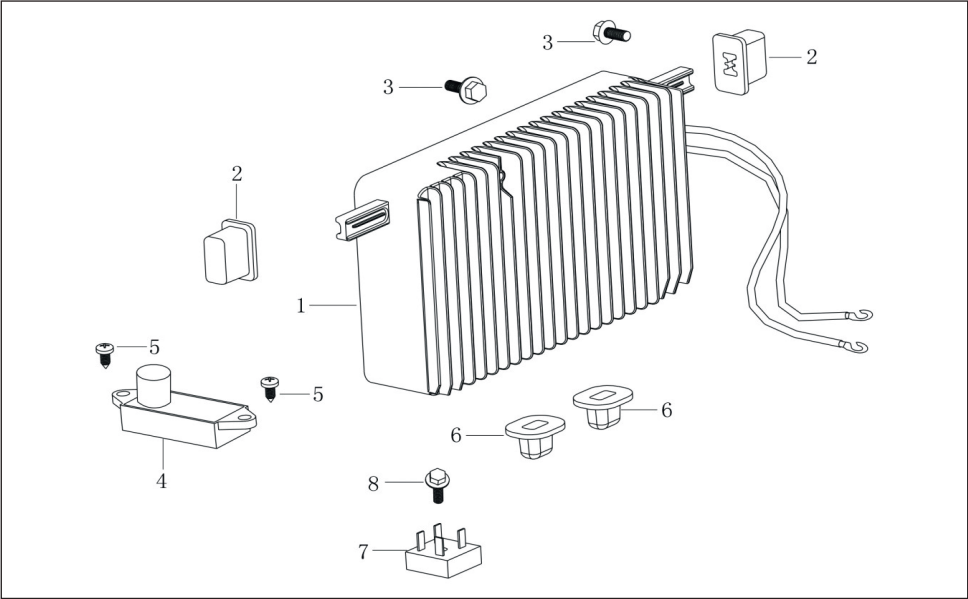
ROTOR / STATOR			
Ser.No	P/N Maxima	Description	Quantity
1	GEN380600121	PIN, DOWEL	2
2	GEN660080505	ALTERNATOR ASSY.	1
3	GEN660100157	MOTOR STATOR	1
4	GEN660110110	MOTOR ROTOR	1
5	GEN380140185	BOLT, FLANGE M6×50	4
6	GEN160180039	FAN COOLING	1
7	GEN193590040	PULLEY, STARTER	1
8	GEN380370051	NUT SPECIAL, M14	1
9	GEN380140002	BOLT, FLANGE M6×16	4
10	GEN270140016	TRIGGER	1



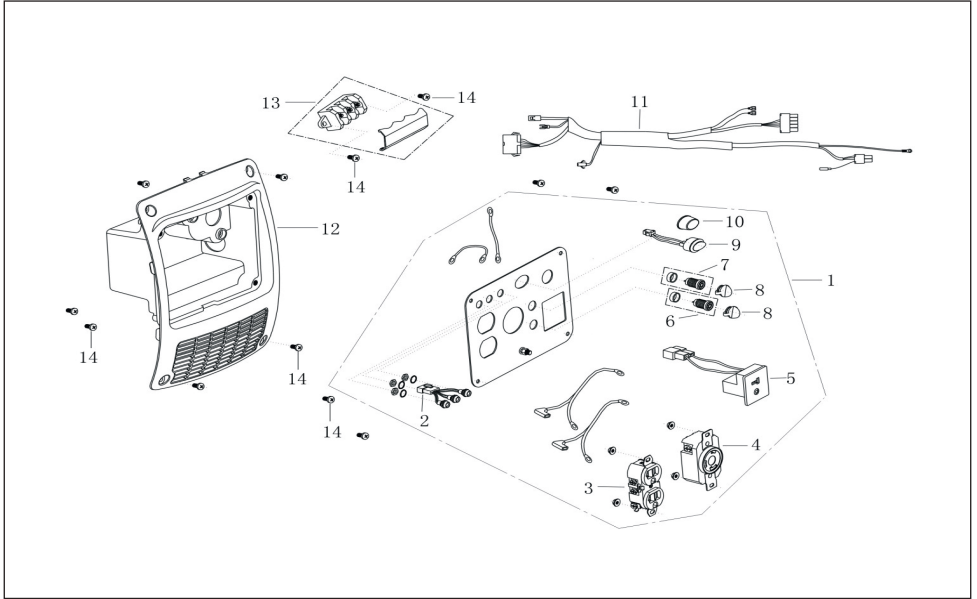
FUEL TANK			
Ser.No	P/N Maxima	Description	Quantity
1	GEN170870103	CAP COMP., FUEL FILLER	1
2	GEN170720012	FILTER, FUEL TANK	1
3	GEN170620015	NOTE OIL GUM SET	1
4	GEN170700162	RUBBER, TANK CUSHION	3
5	GEN170501258	TANK COMP., FUEL	1
6	GEN170010051	FUEL FILTER	1
7	GEN380960170	CARD HOOP COMBINATION	3
8	GEN380750965	TUBE, FUEL	1
9	GEN170980135	COCK COMP., FUEL	1
10	GEN380140001	BOLT, FLANGE	1
11	GEN380770285	PROTECTIVE SLEEVE	1
12	GEN380750964	TUBE, FUEL	1
13	GEN661920017	COMBINED SWITCH PARTS	1
14	GEN173260009	OIL SWITCH KNOB	1
15	GEN381210035	SCREW M4x18	1
16	GEN380960225	CARD HOOP COMBINATION	3



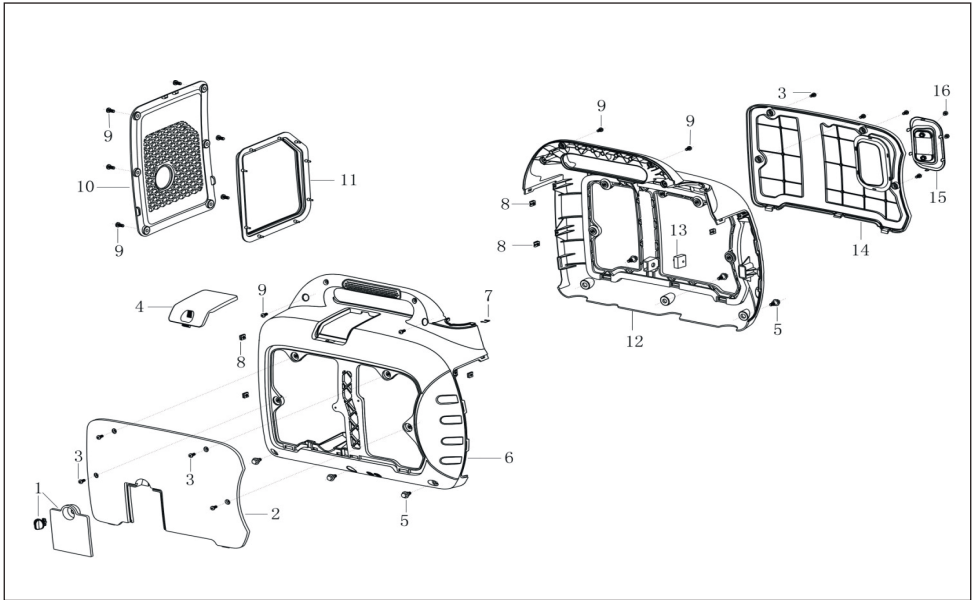
MOTHERBOARD			
Ser.No	P/N Maxima	Description	Quantity
1	GEN303240006	MOTHERBOARD	1
2	GEN300780038	FRAME SHOCK ABSORPTION SEAT	4
3	GEN380140001	BOLT, FLANGE	4
4	GEN380370048	NUT M6	4
5	GEN290340054	BUFFER RUBBER	2
6	GEN290340048	BUFFER RUBBER	1
7	GEN380430031	SQUARE NUT	6
8	GEN300770043	RUBBER, SHOCK ABSORBER	4
9	GEN380822533	BUSHING	4
10	GEN380710024	BOLT	6
11	GEN380822534	BUSHING	2
12	GEN300770042	RUBBER, SHOCK ABSORBER	4
13	GEN380420041	CLIP NUT	4



INVERTER ASSY			
Ser.No	P/N Maxima	Description	Quantity
1	GEN660900080	INVERTER ASSY.	1
2	GEN290340051	BUFFER RUBBER	2
3	GEN380140429	BOLT, FLANG M5×10	2
4	GEN271000261	IGNITION	1
5	GEN380310135	SELF THREADING SCREW	2
6	GEN290340050	RUBBER BUFFER	2
7	GEN271920005	RECTIFIER BRIDGE	1
8	GEN380140053	BOLT, FLANG M5×16	1



CONTROL PANEL			
Ser.No	P/N Maxima	Description	Quantity
1	GEN271852283	CONTROL PANEL ASSY	1
2	GEN283730006	LED INDICATOR LIGHT	1
3	GEN271890003	POWER SOCKET COMBINATION	2
4	GEN271890006	POWER SOCKET COMBINATION	2
5	GEN381070010	DC SOCKET (WITH THE FLOW DEVICE)	1
6	GEN381070009	GRID SOCKET (BLACK)	1
7	GEN381070009	GRID SOCKET (RED)	1
8	GEN273330006	GRID SOCKET WATERPROOF GLUE SETS	2
9	GEN173400002	DEACTIVATION SWITCH	1
10	GEN273330005	IDLING SWITCH WATERPROOF CAP	1
11	GEN272040159	HARNESS ASSY.WIRE	1
12	GEN271970031	PANEL SEAT	1
13	GEN271240004	LINE CONNECTION	1
14	GEN380690017	CROSS-CAP SCREWS M5X12	12



APPEARANCE COVER			
Ser.No	P/N Maxima	Description	Quantity
1	GEN110630009	OIL EXAMINE WINDOW	1
2	GEN661860005	LEFT APPEARANCE COVER PLATE	1
3	GEN381810002	SCREWS	8
4	GEN661910003	SPARK PLUG MAINTENANCE COVER	1
5	GEN380100038	BOLT	6
6	GEN661840004	GENERATOR COVER (Left)	1
7	GEN350440003	CLIP	1
8	GEN380420041	NUT	6
9	GEN380690017	SCREW FLAT MAT COMBINATION	14
10	GEN661900004	SHUTTER	1
11	GEN661880010	WIND SCOOPER	1
12	GEN661850004	GENERATOR COVER (Right)	1
13	GEN290340049	RUBBER BUFFER	1
14	GEN661870006	RIGHT APPEARANCE COVER PLATE	1
15	GEN661940005	LEASH HANDLE ADORNMENT HOOD	1
16	GEN380200009	SCREW	2



EC DECLARATION OF CONFORMITY


For the following machinery:

Product name: GENEMAX 3000 IS
 Commercial name: GENEMAX 3000 IS
 Function: Low-power generating set
 Type: Gasoline
 Model number: GENEMAX3000IS
 Serial number: --

is herewith confirmed to fulfill all the relevant provisions of

- Machinery Directive (2006/42/EC)

and the following harmonized standard have been complied with:

- EN ISO 8528-13:2016

is herewith confirmed to fulfill all the relevant provisions of

- Electromagnetic Compatibility Directive (2014/30/EU)

and the following harmonized standard have been complied with:

- EN 61000-6-1:2007; EN 55012:2007+A1

is herewith confirmed to fulfill all the relevant provisions of

- Noise Emission Directive by equipment for use outdoors (2000/14/EC + 2005/88/EC)

MODEL	Measured sound power level dB(A)	Guaranteed sound power level dB(A)
GENEMAX3000IS, GENEMAX3500IS	87	88
GENEMAX7000IS	90	92
GENEMAX3500IO	95	96

Responsible for marking this declaration is the

Manufacture's Name : MAXIMA S.p.A.
 Manufacturer's Address : Via G. Matteotti, 6 - 42028 Poviglio RE - Italy

Person responsible for compiling the technical files established within the EU

Name, Surname : MAXIMA S.p.A.
 Address : Via G. Matteotti, 6 - 42028 Poviglio RE - Italy

Person responsible for making this declaration

Name, Surname : Mirco Dall'Olio
 Position/Title : Presidente e AD
 Place : Poviglio
 Date : 2022-05-18

 (signature)

