

MAXWATT®

POWER WHEN YOU NEED IT

GENERATOR OPERATOR'S MANUAL



MX2000-3800

Thank you for choosing a generator set supplied by MaxWatt Power Products!

This manual will instruct you how to operate and use the generator set safely and properly. Please be sure to read it carefully before using.

All technical data and diagrammatic presentations in this User's Manual are consistent with the latest product at the time of publication.

Please note that due to ongoing revisions and updates, the contents of this Manual may differ slightly from the actual product or situation. The Company reserves the right to make changes at any time without prior notice. The copyright of this User's Manual is owned by the Company and reproduction is strictly prohibited without written permission. Unauthorized reproduction will be subject to legal action.

This manual is a permanent part of the generator set. If the generator set is resold, the manual will be resold together with the generator set.

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SAFETY

The safety of yourself, others, and property is extremely important. Please read the Safety Warning in the User's Manual and the decals of the generator set carefully.

The Safety Warning can alert you to those potential hazards that could harm you and others. In front of each Safety Warning, there is one of four words "DANGER," "WARNING," "ATTENTION," and "CAREFUL." Details are as follows:

DANGER

Failure to follow the instruction will result in being in danger of your life or extremely serious injury.

WARNING

Failure to follow the instruction will result in being in danger of your life or very serious injury.




CAREFUL

Failure to follow the instruction will result in minor injury.

ATTENTION

Failure to follow the instruction will result in damage to your generator set and other properties.

SAFETY PRECAUTIONS

 DANGER	
Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.	
 NEVER use inside a home or garage, EVEN IF doors and windows are open.	 Only use OUTSIDE and far away from windows, doors, and vents.

WARNING

Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

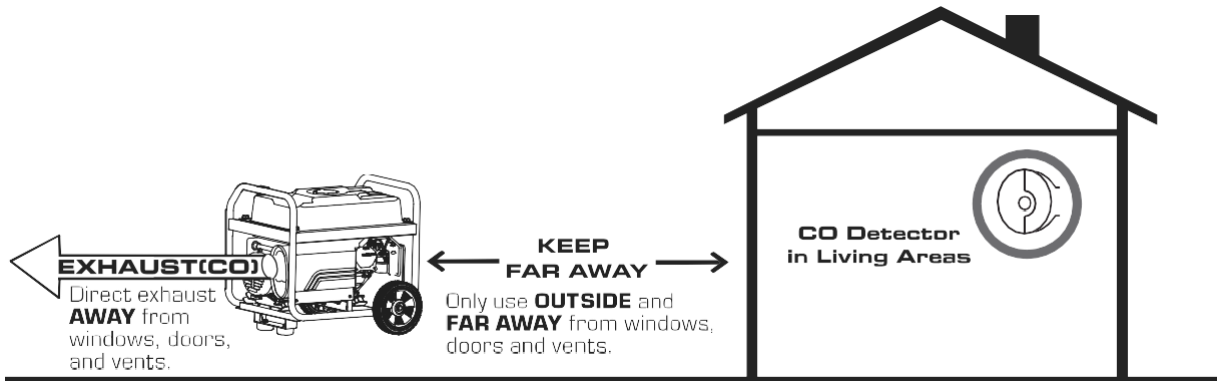
- Operate this product ONLY outside and far away from windows, doors, and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.
- Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions. Smoke alarms cannot detect carbon monoxide gas.
- DO NOT run this product inside homes, garages, basements, crawlspaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. Carbon monoxide can quickly build up in these spaces and can linger for hours, even after this product has shut off.
- ALWAYS place this product downwind and point the engine exhaust away from occupied spaces. If you start to feel sick, dizzy, or weak while using this product, shut it off and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.
- If you start to feel sick, dizzy, or weak while using the portable generator, you may have carbon monoxide poisoning. Get outside to fresh air immediately and emergency medical assistance. Very high levels of CO can rapidly cause victims to lose consciousness before they can rescue themselves. DO NOT attempt to shut off the generator before moving to fresh air. Entering an enclosed space where a generator is or has been running may put you at greater risk of CO poisoning.

SAFETY

CORRECT USAGE

Example location to reduce risk of carbon monoxide poisoning

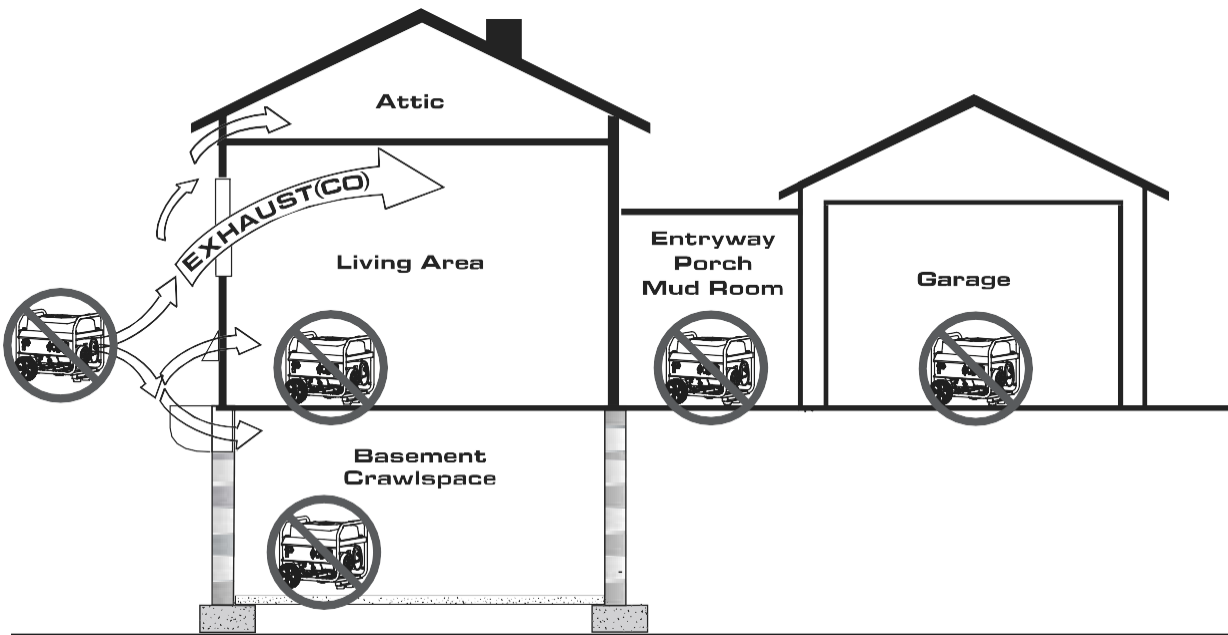
- ONLY use outside and downwind, far away from windows, doors and vents.
- Direct exhaust away from occupied spaces.



INCORRECT USAGE

Do not operate in any of the following locations:

- Near any door, window or vent
- Garage
- Basement
- Crawl Space
- Living Area
- Attic
- Entry Way
- Porch
- Mudroom



SAFETY

BEFORE USING THE GENERATOR

- In order to operate the generator correctly, be familiar with the operation of the various components and master the method of shutting down the generator quickly.
- Without proper instructions and directions, no one is allowed to operate this machine. It is strictly prohibited for young children, the elderly, people with disabilities, and other vulnerable groups to operate. Otherwise, it will become a cause of serious accidents and machine damage.
- Never use the generator to power medical support equipment..
- Please do not use in rain or in areas with water. There is a risk of electric shock when using generators and connected appliances that have been soaked in rain or water, or when operating with wet hands.
- Please never connect wires from the power company. It can cause malfunctions in the machine and connected electrical equipment, becoming the cause of fire or personal accidents.
- The use of generators has laws and regulations, please comply with labor safety and health regulations, fire protection laws, electrical industry laws, etc.
- Please do not connect parallel operation terminals except for dedicated wires. There is a risk of electric shock.

WHEN ADDING OR DRAINING GASOLINE

Turn the generator engine OFF and let it cool for at least 2 minutes before removing the petrol cap.

Loosen the cap slowly to relieve pressure in the tank. Refill the tank on a dry and flat surface.

- DO NOT overfill the tank. Allow space for petrol expansion.
- If petrol spills, wipe it up and let the area dry before starting the engine.
- Keep petrol away from sparks, open flames, heat, and other ignition sources.
- Check petrol lines, tank, cap, and fittings frequently for cracks or leaks; replace if necessary.
- DO NOT light a cigarette or smoke anything.

WHEN STARTING EQUIPMENT

Ensure spark plug, muffler, petrol cap, and air cleaner are in place.

- DO NOT crank engine with spark plug removed.

WHEN OPERATING EQUIPMENT

- DO NOT operate this product inside any building, carport, porch, mobile enclosure, marine applications, or shed.
- DO NOT tip engine or equipment at an angle that causes petrol to spill.
- DO NOT stop the engine by moving the choke control the to "Start" position.
- DO NOT exceed the generator's wattage capacity.
- Start the generator and the let engine stabilize before connecting electrical loads.
- Connect electrical loads in the OFF position, then turn ON for operation.
- Turn electrical loads OFF and disconnect from the generator before stopping the generator.

ATTENTION

Improper treatment of the generator could damage it and shorten its life span.

- Use the generator only for intended applications.
- If you have questions about intended use, ask a dealer.
- Operate the generator only on solid, level surfaces.
- DO NOT expose the generator to excessive moisture, dust, dirt, or corrosive vapors.
- DO NOT insert any objects through cooling slots.
- If connected devices overheat, turn them off and disconnect them from the generator.

SAFETY

PARALLEL KIT PRECAUTIONS

To prevent serious injury, death, and damage to generators and/or equipment due to electric shock and fire:

- Follow Parallel Kit instructions provided with the Kit for connection and use of a Parallel Kit.
- Only connect two identical Inverter Generators together using a Parallel Kit.
- Connect the Parallel Kit only to terminals marked "Parallel Outlets" on the front of the Generator.
- Do not remove or connect a Parallel Kit while the generator is running.
- Do not use a Parallel Kit that is attached to only one Generator.

SAFETY PRECAUTIONS FOR GASOLINE AND GASOLINE VAPOR

Fire and explosion hazard. Petrol is highly explosive and flammable and can cause severe burns or death.

Fire and Burn Hazard. NEVER loosen or remove the petrol cap while the generator is running. Turn the unit off and allow it to cool for at least five minutes before adding petrol. Loosen the petrol cap slowly.

In case of a petrol fire, do not attempt to extinguish the flame unless the engine/petrol control switch is in the OFF position. Introducing an extinguisher to a generator with an open petrol valve could create an explosion hazard.



BATTERY WARNING FOR REMOTES

HAZARDOUS – KEEP NEW AND USED BATTERIES OUT OF REACH OF CHILDREN.

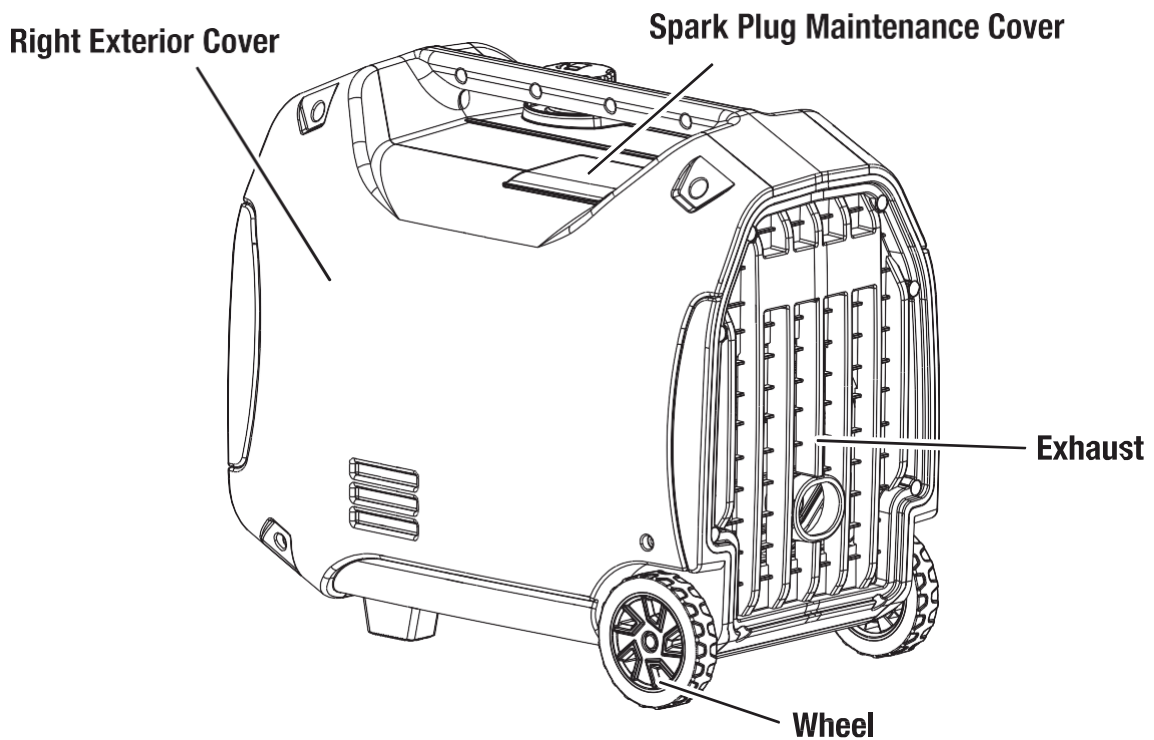
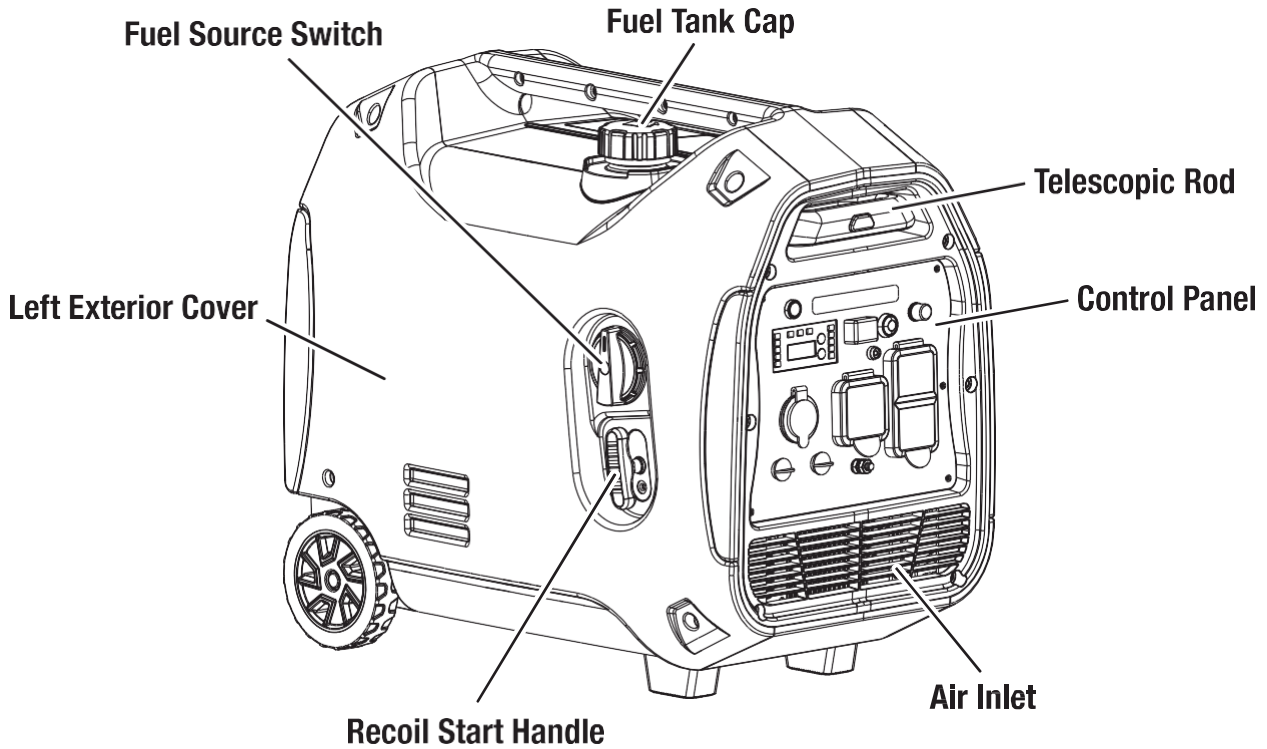
Never allow children to replace button batteries on any device. Swallowing or placing inside any part of the body may lead to severe or fatal injuries in as little as 2 hours or less due to chemical burns and potential perforation of the oesophagus.

If you suspect your child has swallowed a button battery or placed one inside any part of the body, immediately call 13 11 26 **for prompt advice, if the child is not breathing, call 000.** Dispose of used button/coin batteries immediately and safely.

A battery can still be dangerous even when it can no longer operate the device. **Place sticky tape around both sides of the battery and dispose of it immediately out of reach of children in an outside bin or recycle safely**

NAMES OF COMPONENTS

Before operating your generator, you must read and understand the manual and familiarize yourself with the safe operation practices.



STATEMENT: The illustrations used in this manual are intended as representative reference views only.

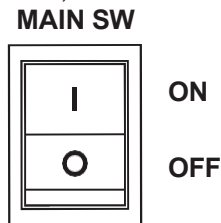
CONTROL FUNCTIONS

Note: The product you purchased may not have these configurations, please refer to the actual product.

Main Switch (Engine Switch)

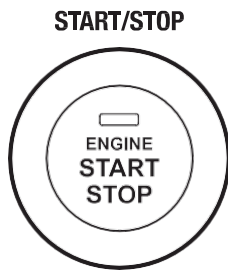
OFF - Ignition circuit is off, the engine stopped running.

ON - Ignition circuit is on, the start the engine.



Start/Stop Switch

Press this button, the engine will start and stop.



Remote Control

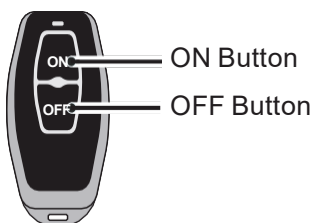
OFF - Generator outage.

ON - Generator operation.

Remote Control Pairing:

1. Long press the start button for more than 5 seconds until the button red indicator is on;
2. Press any key on the remote control;
3. The red indicator of the start button will blink two or three times and then turn off, Remote start pairing is successful.

Tip: The remote control delivered with the generator has been paired successfully.



Oil Indicator (red)

INDICATOR LIGHT



When the oil in the crankcase drops below safety line, the oil protection system will automatically shut down the engine, and the low oil indicator lights up; the engine can be restarted up only after the oil is filled to oil level.

Overload Indicator (red)

INDICATOR LIGHT



When the overload indicator lights up, the generator has detected that the output of connected electrical equipment has been overloaded, causing frequency converter to be overheated or AC voltage to rise.

At this moment, the AC protector works and stops generating, to protect the generator and connected electrical equipment. AC indicator (green) is off and overload indicator (red) lights up, but the engine will not stop running.

When the overload indicator is on and the generator has no output, please take following counter measures:

- ① Switch off electrical equipment connected, and shut down the generator.

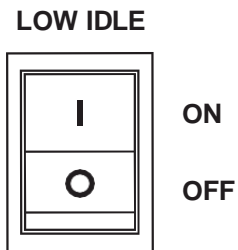
CONTROL FUNCTIONS

- ② Reduce total power of electrical equipment connected to the range of rated output.
- ③ Check whether there is any foreign matter blocking the cooling air inlet, and whether there is any abnormality in the related control components. If there is any problem, eliminate it immediately.
- ④ After checking, restart the engine.

Output Indicator (green)

The AC indicator lights up when the engine is started and output normally.

Energy-Saving Switch (LOW IDLE)



1) "ON"

When energy saving switch is switched to the "ON" position, the engine speed is reduced when the generator is under light load. This feature will reduce petrol consumption and noise.

2) "OFF"

When the energy saving switch is set to the "OFF" position, the engine will run at rated speed, regardless of connected load.

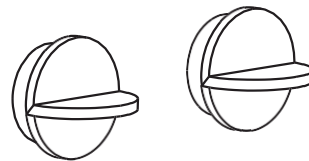
Reset

If the inverter is overloaded, the reset breaker will trip. The engine will continue to run, but there will be no output from the inverter. Unplug the devices and reduce the load. Push in the reset breaker to reset it.



Parallel Connector

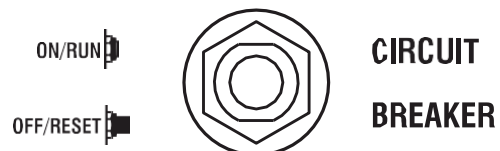
To increase AC power output, the connector sockets are used to connect the two same type generators with special paralleling cords. The connector sockets are only used to communicate between the inverters, they cannot be used for AC power output. The special paralleling cables must be purchased separately, and they must be approved by certification body.



PARALLEL CONNECTOR

AC Circuit Breaker

If the total AC load exceeds the rated current, the AC circuit breaker will open (trip) and the button will pop out. In this case, disconnect all loads, restart the generator and push in the AC circuit breaker(s).



Ground Terminal

The ground terminal is used to externally ground the generator.



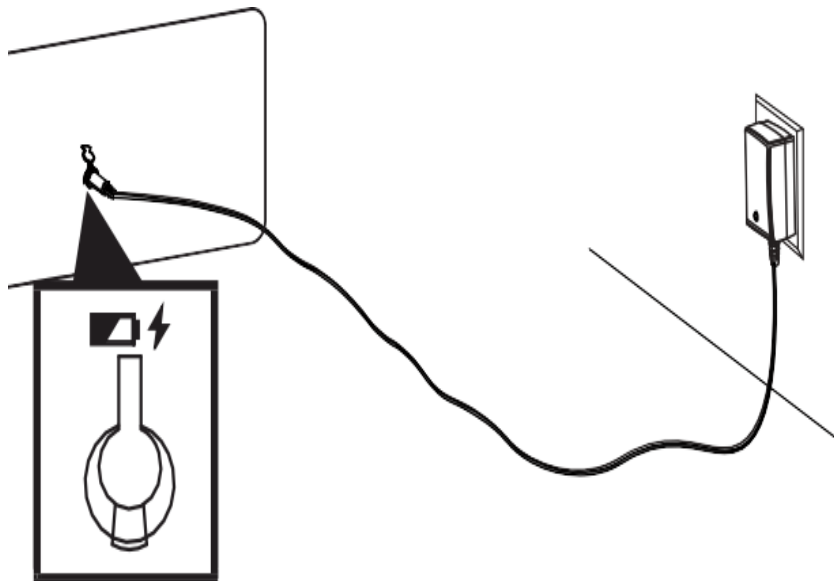
CONTROL FUNCTIONS

Battery Charging

Keep the generator battery fully charged and ready to use to avoid the need to use the recoil starter to start the generator manually.

The battery shipped with the generator has been partially charged. A battery may lose some charge when not in use for prolonged periods of time.

- Once the generator is started, it will immediately charge the battery.
- When the generator is not running, the attached charger can charge the battery.
- Charge in a dry place.
- The charging time should not exceed 30-40 minutes.



PREPARATIONS

ADD ENGINE OIL

WARNING

No oil is filled into this generator when being delivered. Do not start up the generator without filling sufficient oil.

ATTENTION

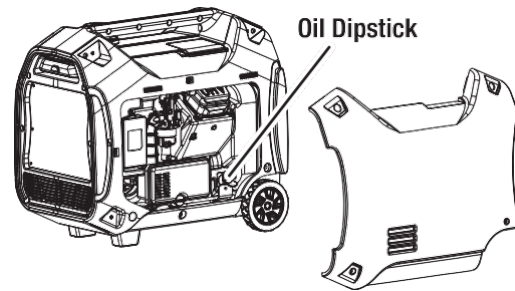
Your generator was functionally tested in the factory and may contain minimum residual oil. Additional oil is required to operate the unit. Do not overfill.

ATTENTION

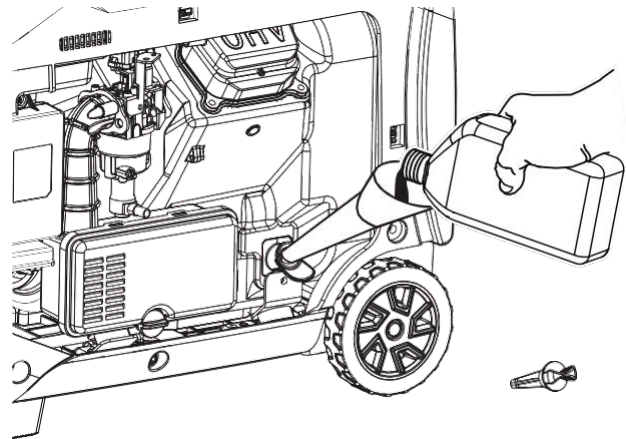
The recommended oil type for typical use is 10W-30 automotive oil. However, using the listed conventional oils shown in the "Recommended Engine Oil Type" chart may be used for typical use including the first 5 hours of the break-in run time period of the engine. If running generator in extreme temperatures, refer to the "Recommended Engine Oil Type" chart.

Recommended Engine Oil Type	
	10W-30
	5W-30 10W-40
	5W-30 Full Synthetic
°F	-20 0 20 40 60 80 100 120
°C	-28.9 -17.8 -6.7 4.4 15.6 26.7 37.8 48.9
Ambient Temperature	

1. Place the generator on a solid, flat, level surface.
2. On the right side of the generator, loosen the screws and remove the maintenance cover.



3. Remove oil dipstick to add oil.
4. Using a funnel, as needed, add the appropriate type of oil until the oil level is at the proper level. SAE 10W-30 oil is recommended for general use. **DO NOT OVERFILL.** Replace oil dipstick and secure maintenance cover.



5. Check engine oil level daily and add as needed.



ATTENTION

Once the oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole. When using the dipstick to check the oil level, **DO NOT** screw in the dipstick while checking.

PREPARATIONS

CAREFUL

This engine is equipped with a low oil shut-off and will stop when the oil level in the crankcase falls below a critical level.

ADD PETROL

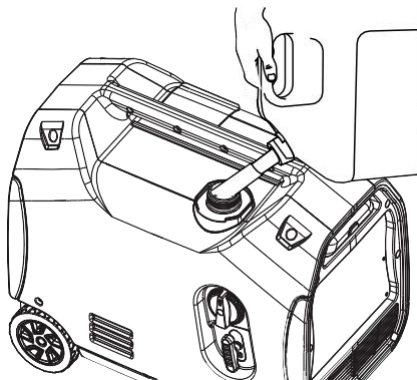
WARNING



TO PREVENT SERIOUS INJURY FROM FIRE:

Fill the petrol tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before adding petrol. Do not smoke.

1. Make sure the generator is on a solid, flat, level surface.
2. Unscrew the petrol cap and set it aside.
3. Slowly add petrol to the petrol tank. Be careful not to overfill. The petrol gauge on the top of the petrol tank indicates how much petrol is in the generator petrol tank.



4. Replace the petrol cap and wipe up any spilled petrol with a dry cloth then remove the cloth from the area.

DANGER

Do not overfill the petrol the tank. Overfilling can result in a fire, explosion, or death.

WARNING

Petrol can expand. Do not fill the petrol tank to the top. Leave a minimum of 1.5 inches open space. Petrol fumes are highly flammable. Do not fill the tank near an open flame. Always check for petrol spills.

To ensure the generator runs smoothly, only use fresh, unleaded petrol.

Never use an oil/petrol mixture. Never use old petrol.

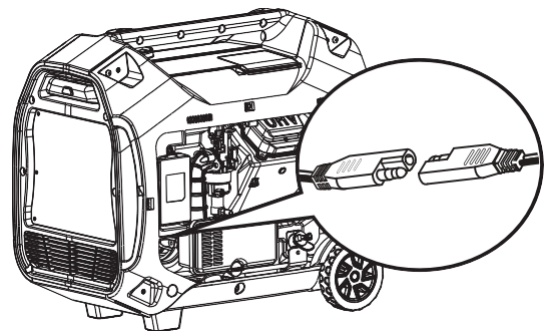
Avoid getting dirt or water in the petrol tank.

Petrol can age in the tank and make it hard to start the generator in the future.

Never store a generator for extended periods of time with petrol in the tank.

CONNECTING THE BATTERY

1. On the right side of the generator, loosen the screws and remove the cover.
2. A quick-connect battery plug is pre-installed on the battery. Remove the cable tie securing the plugs, align colors, then push firmly to connect them.



3. Reinstall the maintenance cover.

Note: The generator is equipped with a battery charging feature. Once the engine is running, a small current will slowly recharge the battery.

OPERATION

GENERATOR LOCATION

WARNING

NEVER operate the generator inside any building, garage, basement, crawlspace, shed, or enclosure, including the generator compartment of a recreational vehicle.

NEVER operate or start the generator in the back of an SUV, camper, trailer, truck bed (regular sides, flat or other configuration), under staircases, stairwells, next to walls or buildings, or any other location that could limit airflow or trap exhaust.

DO NOT operate or store the generator in wet weather conditions such as rain or snow. Using a generator in wet conditions could result in serious injury or death due to electrocution.

Generators must have a minimum of 5 feet (1.5 m) of clearance from all combustible material.

Generators must also have a minimum of 5 feet (1.5 m) of airflow clearance on all sides to allow for adequate cooling, maintenance, and service.

Always place the generator in a well-ventilated area. NEVER place the generator near air intake vents or where exhaust fumes could be drawn into occupied or confined spaces.

Always carefully consider wind and air currents when positioning the generator.

Always allow generators to properly cool before transport or for storage purposes.

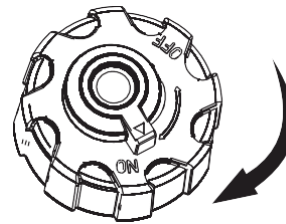
Failure to follow proper safety precautions may result in personal injury, damage to the generator, and void your warranty.

WARNING

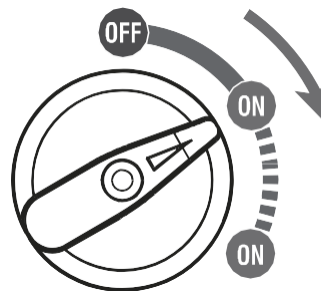
During operation, the muffler and exhaust fumes will become hot. If there is inadequate cooling space or if the generator is blocked or enclosed, temperatures can rise quickly and may lead to a fire.

STARTING THE GENERATOR

1. Make sure the generator is on a solid, flat, level surface.
2. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in or turned on.
3. Turn the petrol tank cover ventilation knob to "ON." (Actual prevail)

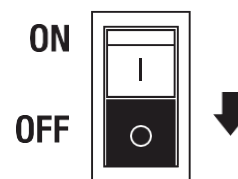


4. Turn the Petrol Switch to ON.



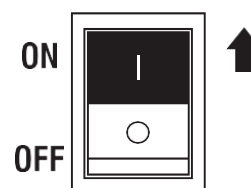
5. Press LOW IDLE to "OFF".

LOW IDLE



6. Press Main Switch to "ON".

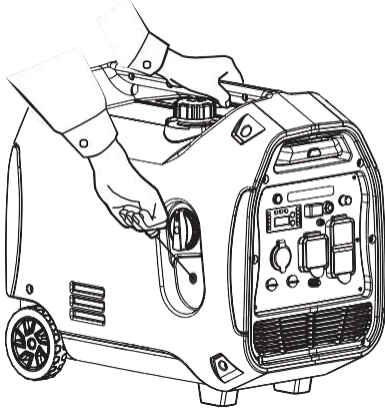
MAIN SW.



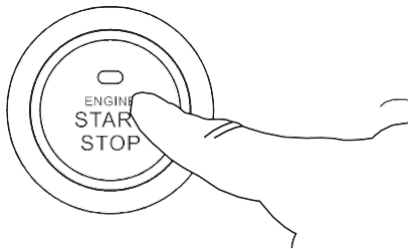
OPERATION

7. Choose the Starting Method

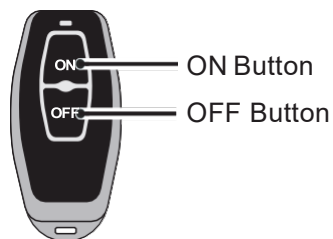
Recoil Start: Firmly grasp and pull the recoil handle slowly until you feel resistance, let it retract then pull swiftly.



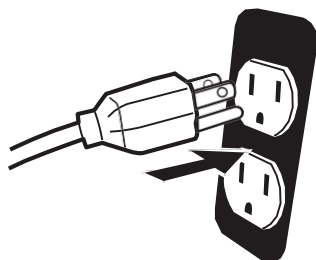
Push Button Start: Press the start button for 1-3 seconds, then release, to start the generator.



Remote Start: Push and hold the ON button on the remote start key fob for one second.



8. Plug in devices.



OPERATION

ATTENTION

When switching to propane operation, the engine may run rough for a few seconds while it purges petrol in the carburetor.

If the engine stops when switching petrol sources, disconnect all loads then restart the unit on the petrol source of choice.

Parallel Operation

The parallel connection ports allow you to connect two generators to increase the total available electrical power. Follow the instructions included with your parallel connection kit for proper installation and operation.

Overload Indicator

Note: The OVERLOAD light may turn on for a few seconds as a large device starts. This is normal for loads approaching the capacity of this generator.

1. The total combined load through the outlets on the generator must not exceed the running power of the unit.
2. If the OVERLOAD light turns on and the generator stops producing power, it has been overloaded.
3. Turn off and disconnect all electrical devices and stop the engine. Compare device requirements to generator rating and reduce the total wattage of connected devices if necessary. Move anything that may be limiting generator ventilation away.
4. Check if any circuit breakers have tripped and make sure that ALL circuit breakers are reset before starting the generator again.
5. Restart the engine and reconnect devices while being careful to not overload the generator.

Low Oil Indicator

1. If the engine oil level is too low, the LOW OIL light turns on and the engine will automatically shut off.

2. The engine cannot be restarted until the proper amount of oil has been added. Add the appropriate type of oil until the oil level is at the proper level. SAE 10w-30 oil is recommended for general use.

ATTENTION

Do not run the engine with too little oil. The engine will shut off if the engine oil level is too low.

Low Idle

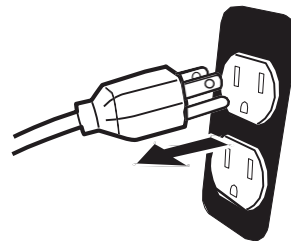
1. Turn on a low idle mode to limit noise and petrol consumption with a light generator load.
2. Turn off the low idle mode to run the engine at full speed under the following conditions:

STARTING THE GENERATOR:

- If the load exceeds 50%, it is recommended to turn off the low idle mode.

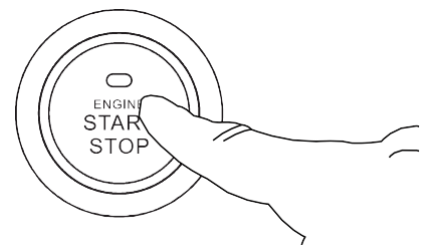
SHUTTING DOWN THE GENERATOR:

1. Turn off and unplug all connected electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.



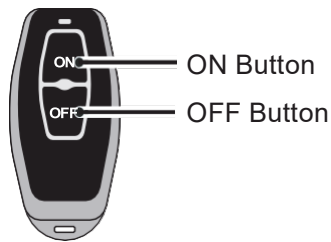
2. Select the Stopping Mode:

Button Stop: Press the button to turn off the generator.



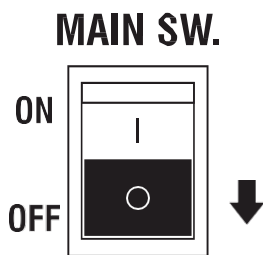
OPERATION

Remote Stop: Hold down the OFF button on the remote start key for one second.

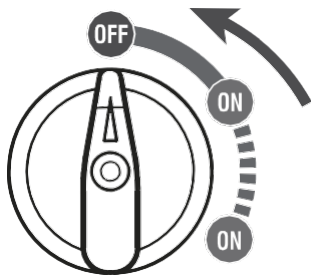


6. After the generator has completely cooled down, remove propane (or methane) hose if applicable and store the generator in a cool, dry, sheltered storage area.
7. After the generator has completely cooled down, remove propane (or methane) hose if applicable and store the generator in a cool, dry, sheltered storage area.
8. Remove or consume all untreated petrol if you plan to store the generator longer than 3 months.
9. If the generator is not used for a long time, please disconnect the battery wiring.

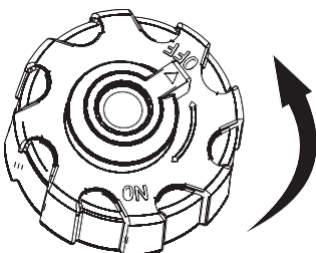
3. Press the Main Switch to "OFF".



4. Turn the Petrol Switch to OFF position.



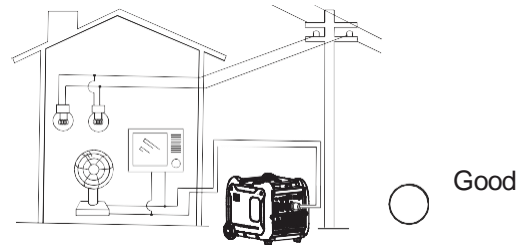
5. Turn the petrol tank cover ventilation knob to "OFF." (Actual prevail)



USING THE GENERATOR

SERVICE ENVIRONMENT OF THE GENERATOR

- Applicable temperature: 23°F (-5°C)~104°F (40°C);
- Applicable humidity: below 95%;
- Applicable altitude: regions below 1,500 m (It shall be used by reducing power in regions above 1,000 m).



Standard atmospheric condition

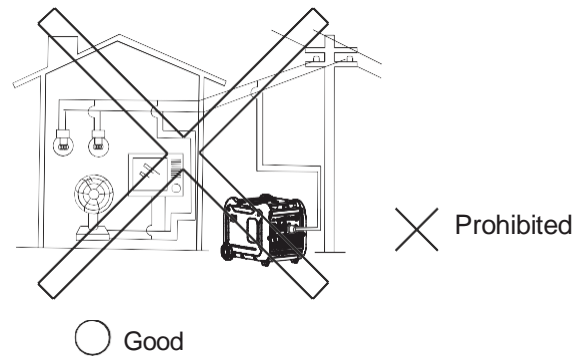
Ambient temperature T_r : 298k (77°F) (25°C)

Absolute atmospheric pressure P_R : 100kPa

When actual environmental condition is inconsistent with the condition of output power of the generator set:

Every 41 deg F (5 deg C) of increase in ambient temperature will reduce the power of the generator by about 2%.

Every 30% of increase in relative humidity of air will reduce the power of generator by 5%.



GENERATOR WIRING

When the generator is connected to household power source as a backup power supply, the connection must be carried out by a professional electrician or a person familiar with electricity.

- After connecting the load to the generator, check carefully whether electrical connection is safe and reliable. Improper electrical connection may cause generator damage, burning or fire.
- Avoid connecting this generator to commercial power outlet.

When extending the cable, be sure not to exceed its length.

- ① 60m cross-section area is 1.5mm²
- ② 100m cross-section area is 2.5mm²

- The appearance of the extension cable must be protected by a layer of tough and elastic rubber cover (IEC25) or other substitutes.



Connection of AC power

WARNING

All electrical equipment must be disconnected before inserting the plug.

ATTENTION

Make sure that all electrical equipment including wires and plugs, are in good condition before connecting to the generator;

Make sure that all loads driven by the generator is within rated load range; current range of rated socket.

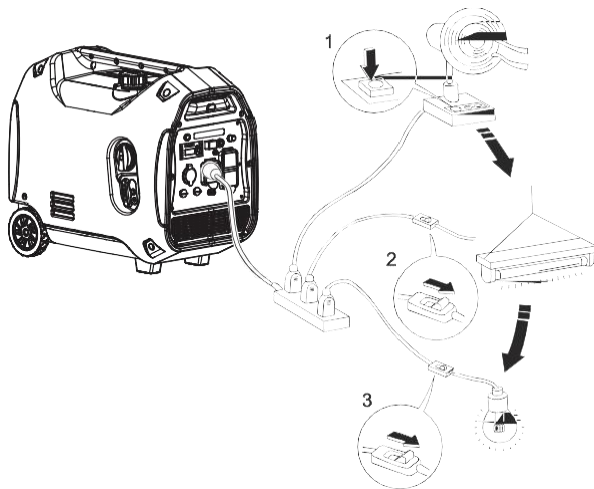
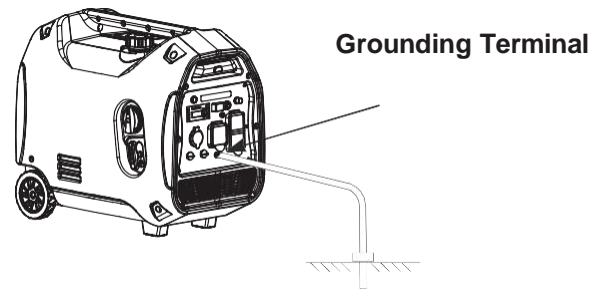
Tip: Make sure that the generator set is grounded, and if electrical equipment requires grounding, the generator set must be grounded.

USING THE GENERATOR

- ① Start up the engine;
- ② Turn energy-saving switch to "ON;"
- ③ Insert the plug into AC outlet;
- ④ Make sure that AC indicator is lit up;
- ⑤ Switch on electrical equipment.

Tip: Before increasing engine speed, the low idle switch must be switched to "OFF."

If the generator set supplies power to multi loads or electrical equipment, start from large to small according to the size of each electrical equipment.



RANGE OF APPLICATION

Before using the generator, please make sure that total load is within rated load range of the generator, otherwise the generator may be damaged.

Tip:

AC and DC can be used at the same time, but total power amount shall not exceed rated output power.

When total power exceeds rate power overload indicator will light up.

Generator Grounding

In order to prevent any damage to the generator caused by electric shock or improper electrical application, it is recommended that the generator is grounded with a good conductor with an insulating sheath.

- ① Please use grounding wire with sufficient electrical energy capacity;
- ② Connect one end of the grounding wire relative to grounding bolt on control panel of the generator set;
- ③ Insert grounding body (iron rod with a diameter of 5 ~ 10mm) 200mm below into the earth and lead it out with conductor;
- ④ Connect the other end of the grounding wire reliable to the led wire of grounding body.

SERVICE AND MAINTENANCE

Good maintenance and service is the best guarantee for safe, economical, and reliable operation. It also contributes to environmental protection.

In order to keep the generator in good condition, you must inspect and maintain it regularly. The maintenance schedule is as follows:

Maintenance cycle		Item			
		Each	First in 1 month or 20 hours	Then every three months or every 50 hours	100 hours per year or use
Engine oil	Check-fill	√			
	Replace		√	√	
Gearbox gear Oil (if any)	Check oil	√			
	Replace		√	√	
Air cleaner element	Inspection	√			
	Clean		√		
	Replace			√	
Settling cup (if any)	Clean				√
Spark plug	Clean-adjust				√*
Spark eliminator	Clean			√	
Idle speed (if any)**	Check-adjust				√
Valve clearance**	Check-adjust				√
Petrol tank and petrol filter***	Clean				√
Petrol line	Inspection	Every two years (Please replace if necessary)			
Cylinder head, piston	Remove carbon deposit**	Displacement < 225cc, every 125 hours; displacement capacity ≥ 225cc, every 250 hours.			
<p>* These items shall be replaced if necessary;</p> <p>** These items shall be maintained by the dealer authorized by the Company, unless the user has proper tools and maintenance ability.</p>					

SERVICE AND MAINTENANCE

ATTENTION

If it often works under high temperature or high load, oil must be changed every 25 hours;

If it often works in a dusty or harsh environment, the air cleaner element must be cleaned every 10 hours. If necessary, the air cleaner element shall be replaced every 25 hours;

It must be maintained using on the spot inspections or on regularly scheduled inspections;

If the maintenance cycle time has elapsed, perform the maintenance as soon as possible as per the table above.

WARNING

Please shut down the engine first before performing any maintenance. The engine must be placed in a horizontal position. In order to prevent the engine from starting up, separate the spark plug cap from the spark plug.

Do not use it indoors or use it in a tunnel, cave or other places that are poorly ventilated. Make sure that work areas are well ventilated. Exhaust gas from the engine contains toxic gases, carbon oxides, and the inhalation can cause shock, loss of consciousness, and even death.

CHECKING AND FILLING FUEL

WARNING

TO PREVENT SERIOUS INJURY FROM FIRE:

Fill the petrol tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before adding petrol. Do not smoke.

1. Clean the Petrol Cap and the area around it.
2. Unscrew and remove the Petrol Cap.
3. Remove the strainer and remove any dirt and debris. Then replace the strainer.

Note: Do not use petrol containing more than 10% ethanol (E10). Do not use E85 ethanol. Add a petrol stabilizer to the petrol or the Warranty is VOID.

Note: Do not use petrol that has been stored in a metal petrol container or a dirty petrol container. It can cause particles to enter the carburetor,

affecting engine performance and/or causing damage.

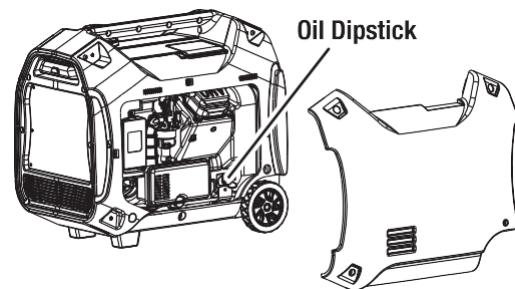
4. If needed, fill the petrol tank to about 1 inch under the fill neck with 87 octane unleaded petrol that has been treated with a petrol stabilizer additive. Follow petrol stabilizer manufacturer's recommendations for use.
5. Replace the Petrol Cap.
6. Wipe up any spilled petrol and allow excess to evaporate before starting the engine. To prevent FIRE, do not start the engine while the smell of petrol hangs in the air.

ENGINE OIL CHANGE

WARNING

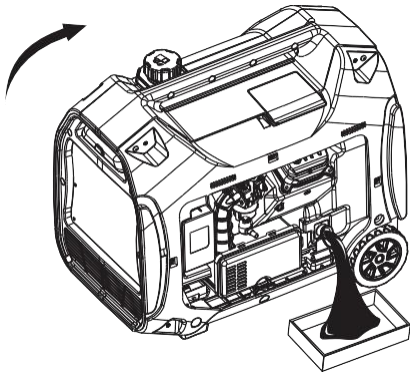
Do not drain the oil immediately after turning off the generator. During operation, the oil is very hot and can cause serious burns.

1. Make sure the engine is stopped and is level.
2. Remove the right exterior cover.



3. Unscrew oil dipstick.
4. Place a container under the engine, tilt the generator, and pour out the oil.

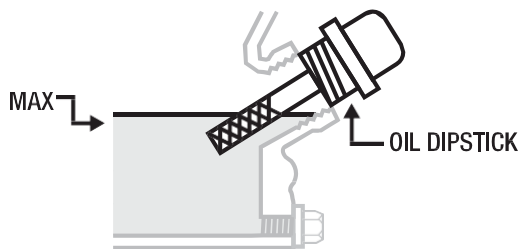
SERVICE AND MAINTENANCE



5. Add the appropriate type of oil until the oil level is at the proper level. SAE 10W-30 oil is recommended for general use. Approximately 600ml is required.

Note: Make sure the generator is level when adding oil to prevent overfilling which could cause engine damage.

6. Check the oil level. The oil level should be just below the edge of the hole as shown.



7. Thread the oil dipstick back in clockwise and replace the maintenance cover.

ATTENTION

Do not attempt to run the engine with too little oil. The engine will not start with low or no engine oil. Approximately 600ml is required.

SPARK ARRESTOR MAINTENANCE

WARNING

TO PREVENT SERIOUS INJURY AND FIRE:
Operate only with proper spark arrestor installed.

WARNING

The operation of this equipment may create sparks that can start fires around vegetation

The operator should contact local fire agencies for laws or regulations relating to fire.

A spark arrestor may be required.

Fire prevention requirements.

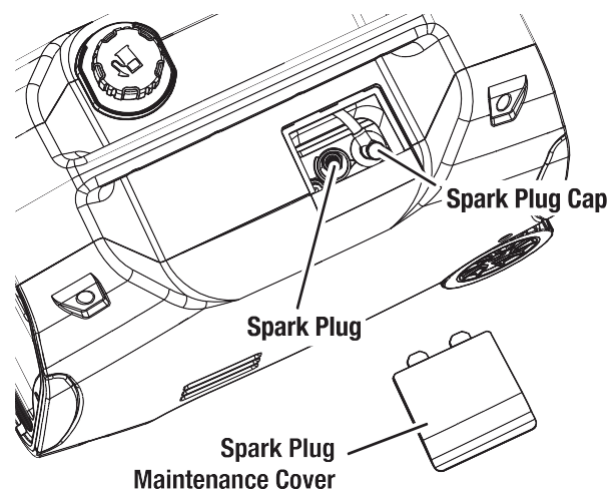
1. Allow the generator to cool completely.
2. Remove the screws from the back of the generator.
3. Remove the tail pipe and spark arrestor.
4. Clean the spark arrestor using a wire brush (sold separately). Replace the arrestor if damaged.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL BRUSH FIRE, secure spark arrestor back in place immediately after cleaning and before further operation.

SPARK PLUG MAINTENANCE

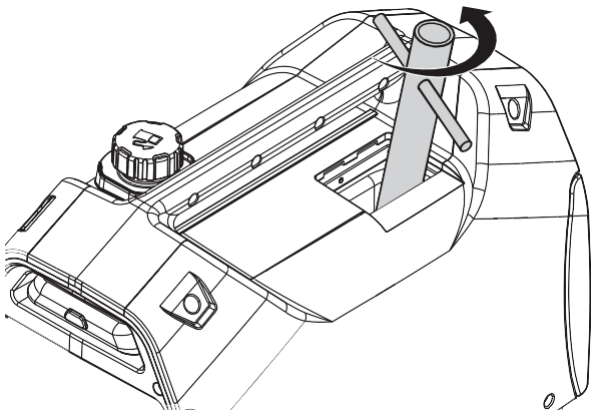
1. Remove spark plug maintenance cover and spark plug cap of the generator.



2. Disconnect spark plug cap from the end of plug. Clean out debris from around spark plug.

SERVICE AND MAINTENANCE

- Using the spark plug wrench, remove the spark plug.



- Inspect the spark plug: If the electrode is oily, clean it using a clean, dry rag. If the electrode has deposits on it, clean it with a brass wire brush. If the white insulator is cracked or chipped, replace the spark plug.

0.7~0.8mm



**Standard spark: F7RTC Spark plug
gap: 0.7-0.8mm**

Tip: The spark plug clearance is required to be measured by line thickness gauge, which shall be adjusted if necessary.

- When installing a new spark plug, adjust the plug's gap to the specification on the Specifications Chart. Do not pry against the center electrode, the spark plug can be damaged.
- Apply anti-seize material to spark plug threads. Install the new spark plug or the cleaned spark plug into the engine.

Spark cold torque: 22 Nm.

Tip: If there is no torque wrench when installing the spark plug, a better estimation method is to screw it 1/4-1/2 turns by force after screwing it in place. But the spark plug must be screwed in to specified torque as soon as possible.

ATTENTION

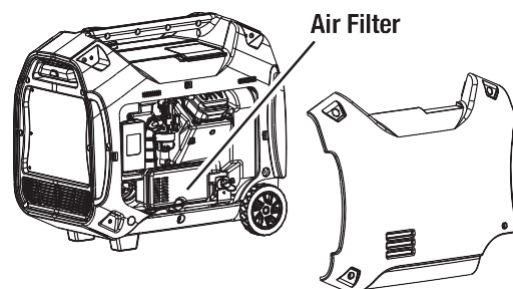
Tighten the spark plug properly. If loose, the spark plug will cause the engine to overheat. If over tightened, the threads in the engine block will get damaged.

- Replace spark plug cap and spark plug maintenance cover.

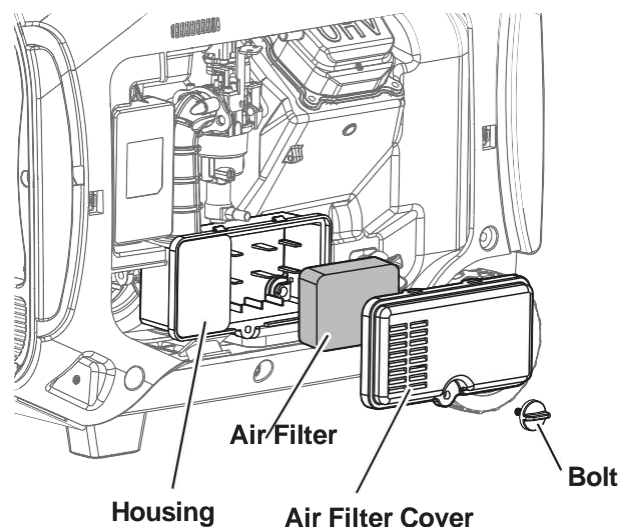
AIR FILTER

A dirty air filter may prevent air from flowing into the carburetor. In order to prevent failure of the carburetor, please maintain the air filter regularly. If being used in a dusty environment, it must be maintained frequently.

- Remove the right exterior cover.

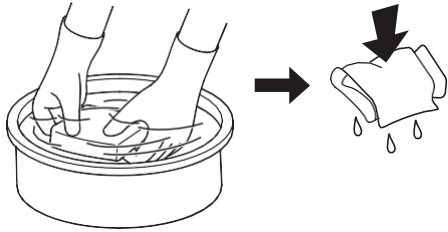


- Remove air filter bolt, to remove cover plate of air cleaner.
- Remove foam cleaner element.

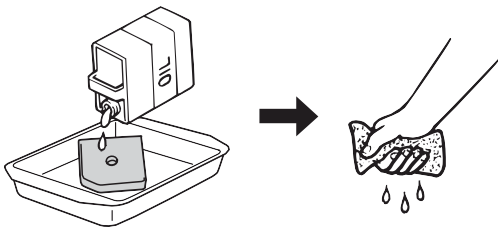


SERVICE AND MAINTENANCE

4. Clean the components with a cleaning agent.
After cleaning, wrap the components in a cloth and screw them dry.



5. Drip a few drops of oil to the foam filter element and squeeze off excess oil. The foam cleaner element must be wet, but there must not be oil dripping.



ATTENTION

Be sure not to twist the foam filter element forcibly to avoid damage.

6. Put the foam cleaner element into air filter.

Tip: Make sure that the surface of the foam filter element is in close contact with air cleaner, and there shall be no gap leaking air.

7. Reassemble empty air filter cap back to its original position, and tighten screws.
8. Assemble the right exterior cover and tighten the bolt.

ATTENTION

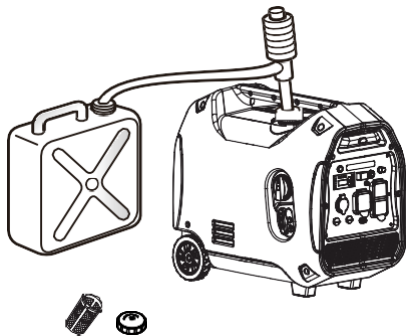
Be sure not to start the engine before the air filter is assembled, because it will generate excessive toxic gas and wear the cylinder.

STORAGE AND TRANSPORT

GENERATOR STORAGE

If it is stored long-term, in order to prevent aging, you must take some storage measures.

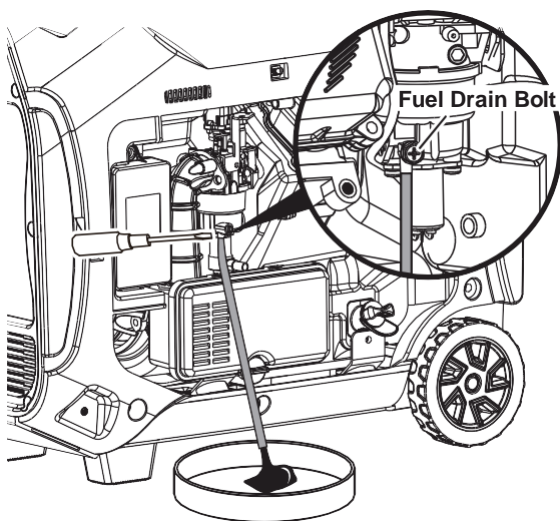
1. Turn off the generator.
2. Open petrol tank cap, to take out the petrol filter screen. Pump all petrol in petrol tank into a separate petrol tank, and then reassemble the petrol tank cap back.



3. Start up the engine to burn off petrol in the carburetor, and then shut it down.

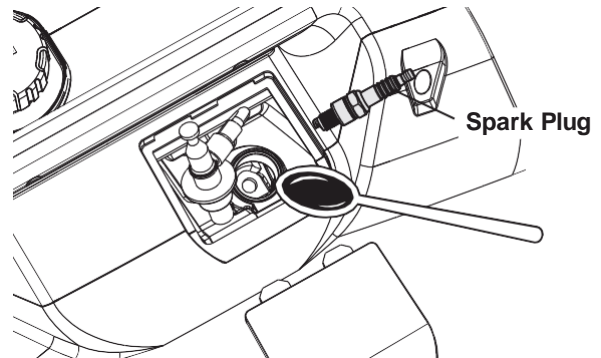
Tip: Do not connect any electrical equipment. Running time of the engine depends on remaining petrol in the petrol tank.

4. Unscrew the petrol drain bolt on the carburetor, and drain petrol in the carburetor into a separate petrol tank. Tighten petrol drain bolt.



5. Unscrew oil dipstick, and drain oil in the crankcase off. Fill new oil to upper oil limit, and then assemble oil dipstick

Remove the spark plug and pour 5-10ml of clean oil into the combustion chamber. Turn the crankshaft a few times to distribute the oil, then reassemble the spark plug.



6. Gently pull the startup handle until you feel resistance, allowing both inlet valve and exhaust valve to be closed.
7. Disconnect the positive and negative battery wires.
8. Place the generator set in a clean and dry area.

GENERATOR TRANSPORT

When the generator set is transported, it shall be ensured that there is no petrol spilling.

Do not fill excessive fuel into the fuel tank.

Do not run the generator and avoid direct sunlight.

Do not transport the generator set on rough roads for a long period time.

PREPARATION FOR USE AFTER STORAGE

1. Slowly pull the starter cord a few times to clean oil from the cylinder or to eject any pump protector from the pump which may have been added prior to storage.
2. Remove the spark plug from the cylinder. Wipe oil from the spark plug and return it to the cylinder and re-tighten.
3. Reconnect the spark plug wire.
4. Re-petrol engine per earlier instructions in this manual.

TROUBLESHOOTING

Problem	Possible Causes	Probable Solutions
Engine will not start	FUEL RELATED: <ol style="list-style-type: none"> No fuel in tank or fuel valve closed. Choke not in START position, cold engine. Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.) Low quality or deteriorated, old gasoline. Carburetor not primed. Dirty fuel passageways. Carburetor needle stuck. Fuel can be smelled in the air. Too much fuel in chamber. This can be caused by the carburetor needle sticking. Clogged Fuel Filter. 	FUEL RELATED: <ol style="list-style-type: none"> Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline and open fuel valve. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). Move Choke to START position. Clean out ethanol rich gasoline from fuel system. Replace components damaged by ethanol. Use fresh 87+ octane stabilizer-treated unleaded gasoline only. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). Use fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). Pull on Starter Handle to prime. Clean out passageways using fuel additive. Heavy deposits may require further cleaning. Gently tap side of carburetor float chamber with screwdriver handle. Turn Choke to RUN position. Remove spark plug and pull the start handle several times to air out the chamber. Reinstall spark plug and set Choke to START position. Replace Fuel Filter.
	IGNITION (SPARK) RELATED: <ol style="list-style-type: none"> Power Switch at OFF position. Spark plug cap not connected securely. Spark plug electrode wet or dirty. Incorrect spark plug gap. Spark plug cap broken. Circuit breaker tripped (electric start models only). Incorrect spark timing or faulty ignition system. 	IGNITION (SPARK) RELATED: <ol style="list-style-type: none"> Turn Power Switch to ON. Connect spark plug cap properly. Clean spark plug. Correct spark plug gap. Replace spark plug cap. Reset circuit breaker. Check wiring and starter motor if breaker continues to trip. Have qualified technician diagnose/repair ignition system.
	COMPRESSION RELATED: <ol style="list-style-type: none"> Cylinder not lubricated. Problem after long storage periods. Loose or broken spark plug. (Hissing noise will occur when trying to start.) Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.) Engine valves or tappets mis-adjusted or stuck. 	COMPRESSION RELATED: <ol style="list-style-type: none"> Pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again. Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3. Tighten head. If that does not remedy problem, replace head gasket. Have qualified technician adjust/repair valves and tappets.
	ENGINE OIL RELATED: <ol style="list-style-type: none"> Low engine oil. Engine mounted on slope, triggering low oil shutdown. 	ENGINE OIL RELATED: <ol style="list-style-type: none"> Fill engine oil to proper level. Check engine oil before EVERY use. Operate engine on level surface. Check engine oil level.
	SPARK ARRESTOR RELATED: <ol style="list-style-type: none"> Spark Arrestor clogged with soot. 	SPARK ARRESTOR RELATED: <ol style="list-style-type: none"> Clean and replace Spark Arrestor.



Follow all safety precautions whenever diagnosing or servicing the generator or engine.

The table is a general troubleshooting method. If the fault is inconsistent with the table or the fault cannot be resolved, contact the distributor.

TROUBLESHOOTING

Problem	Possible Causes	Probable Solutions
Engine misfires	<ol style="list-style-type: none"> 1. Spark plug cap loose. 2. Incorrect spark plug gap or damaged spark plug. 3. Defective spark plug cap. 4. Old or low quality gasoline. 5. Incorrect compression. 	<ol style="list-style-type: none"> 1. Check cap and wire connections. 2. Re-gap or replace spark plug. 3. Replace spark plug cap. 4. Use only fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 5. Diagnose and repair compression. (Use Engine will not start: COMPRESSION RELATED section.)
Engine stops suddenly	<ol style="list-style-type: none"> 1. Carbon Monoxide level high. Red light on Carbon Monoxide Sensor illuminates. 2. CO Sensor Alarm flashes yellow continually shortly after starting. 3. CO Sensor Alarm flashes yellow continually after longer period of operation. 4. Low oil shutdown. 5. Fuel tank empty or full of impure or low quality gasoline. 6. Defective fuel tank cap creating vacuum, preventing proper fuel flow 7. Faulty magneto. 8. Disconnected or improperly connected spark plug cap. 	<ol style="list-style-type: none"> 1. Leave area immediately and allow area to ventilate thoroughly. Only operate generator outside. 2. Carbon monoxide sensor malfunction. Sensor needs service. Do not use the Generator until the sensor is working properly 3. Make sure to operate generator within rated ambient temperature; maintain minimum 5 ft. clearance from all sides. 4. Fill engine oil to proper level. Check engine oil before EVERY use. 5. Fill fuel tank with fresh 87+ octane stabilizer treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 6. Test/replace fuel tank cap. 7. Have qualified technician service magneto. 8. Secure spark plug cap.
Engine stops when under heavy load	<ol style="list-style-type: none"> 1. Dirty air filter 2. Engine running cold. 	<ol style="list-style-type: none"> 1. Clean element. 2. Allow engine to warm up prior to operating equipment.
Engine knocks	<ol style="list-style-type: none"> 1. Old or low quality gasoline. 2. Engine overloaded. 3. Incorrect spark timing, deposit buildup, worn engine, or other mechanical problems. 	<ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Do not exceed equipment's load rating. 3. Have qualified technician diagnose and service engine.
Engine backfires	<ol style="list-style-type: none"> 1. Impure or low quality gasoline. 2. Engine too cold. 3. Intake valve stuck or overheated engine. 4. Incorrect timing. 	<ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Use cold weather fuel and oil additives to prevent backfiring. 3. Have qualified technician diagnose and service engine. 4. Check engine timing.
Attached device doesn't have power	<ol style="list-style-type: none"> 1. Device not plugged in properly 2. Circuit Breaker tripped. 3. Product needs service. 	<ol style="list-style-type: none"> 1. Turn off and unplug the device, then plug it back in again and turn on. 2. Turn off and unplug device, reset Circuit Breaker, plug in device and turn on. 3. Have product repaired.
Attached device begins to operate abnormally	<ol style="list-style-type: none"> 1. Problem with device. 2. Rated load capacity exceeded. 	<ol style="list-style-type: none"> 1. Immediately unplug device. Have device repaired by a qualified technician, or replace device. 2. Lower the number of items plugged into the generator to stay within the rated capacity, or use a more powerful generator



Follow all safety precautions whenever diagnosing or servicing the generator or engine.

The table is a general troubleshooting method. If the fault is inconsistent with the table or the fault cannot be resolved, contact the distributor.

TECHNICAL PARAMETERS

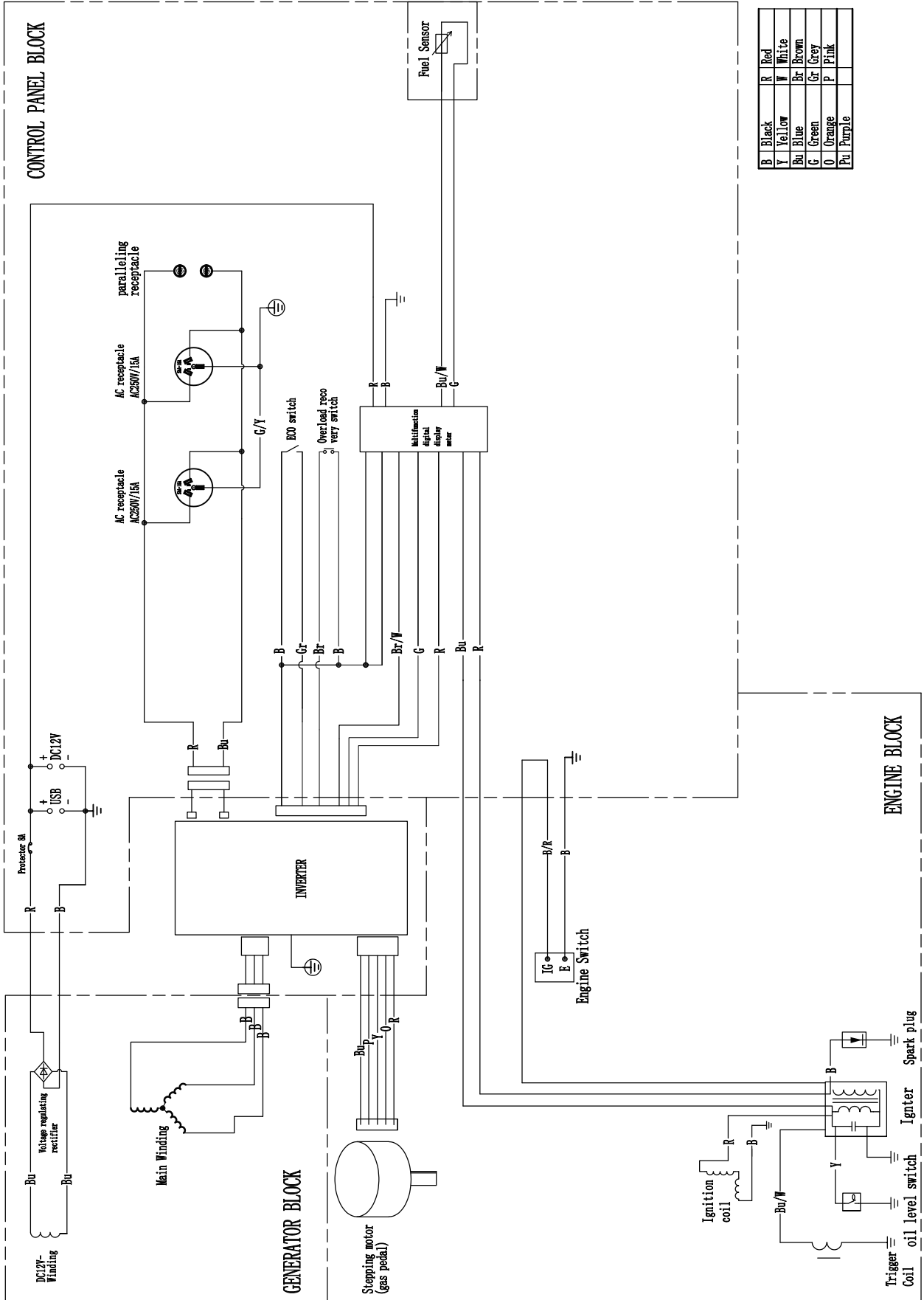
Model	MX2000ISR	MX3500ISR	MX3500ISE	MX3800ISE
Rated Power	1800W	3000W	3200W	3500W
Max. Power	2000W	3500W	3500W	3800W
Engine Model	148F/P-2	164F/P-2	164F/P-2	165F/P
Engine Type	Single-cylinder ,4-stroke, forced-air-cooled, OHV			
Voltage	240V			
Current	7.5A	12.5A	13.3A	14.6A
Displacement	79.7cc	145cc	145cc	159cc
Gas Distribution Mode	OHV			
Cooling Mode	Forced cooling wind			
Starting Method	Recoil start		Recoil start/Electrical start/Remote start	
Petrol Tank Volume	4L		6.2L	
Petrol Type	Petrol			
Oil Capacity	0.35L	0.45L	0.45L	
Lubricating Oil Model	SAE 10W/30			
Rated Power Factor	1			
Phase Number	Single Phase			
Overall Dimension	485×285×455mm		595×354×536mm	
Net Weight	20kg	23kg	25kg	

DISCLAIMERS

All information, illustrations, and specifications in this manual are valid at the time of publication. The illustrations and parameters used in this manual are only for representative reference. Our company reserves the right to make any specifications or design changes without prior notice.

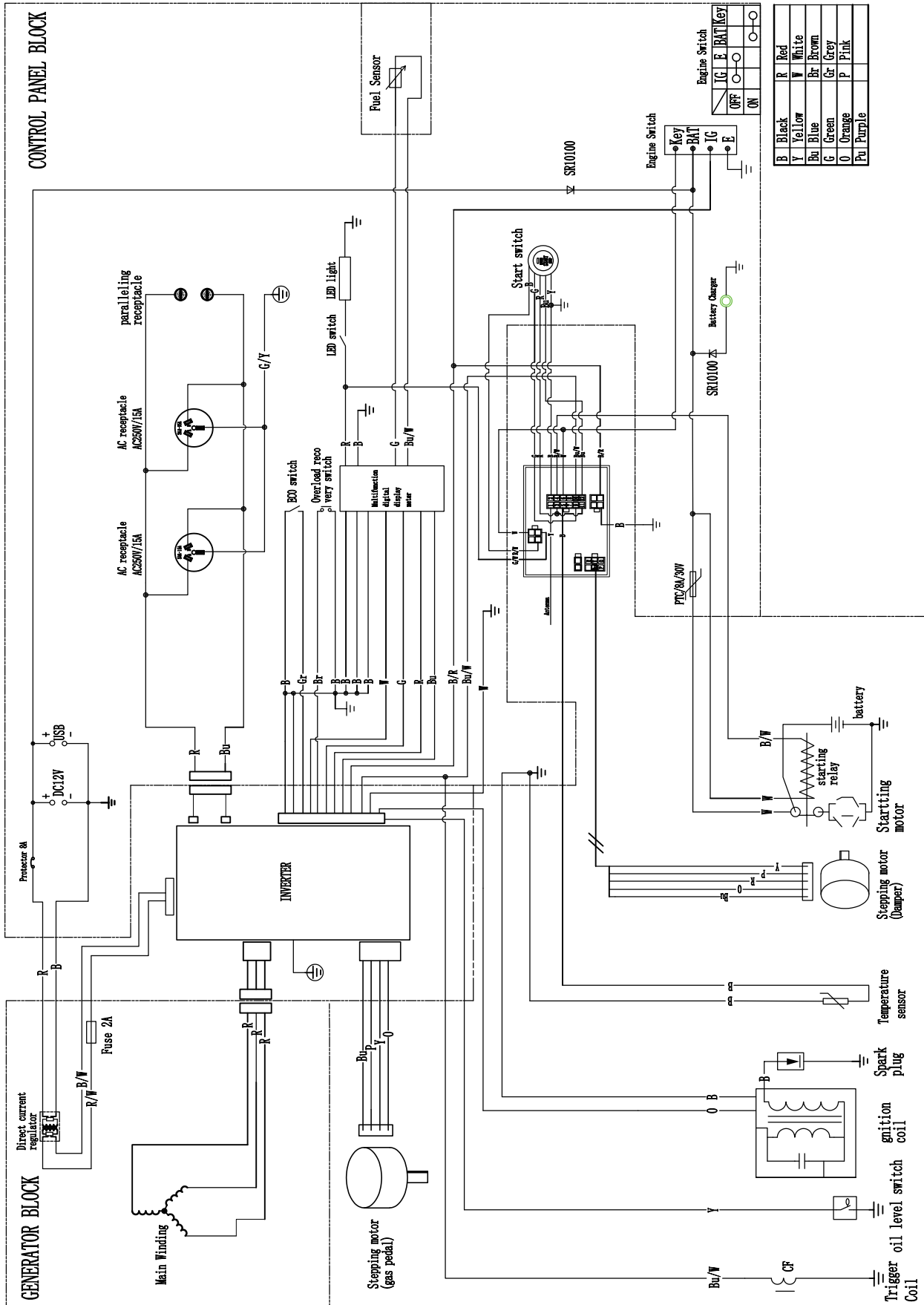
WIRING DIAGRAM

MX2000ISR / MX3500ISR



WIRING DIAGRAM

MX3500ISE / MX3800ISE



WARRANTY CONDITIONS

Maxwatt Power Products PTY Ltd (the "Company") warrants that this product is free from defects in materials and workmanship for a period of:

Two (2) years or 500 operating hours (whichever occurs first) for domestic use (personal, residential, or recreational applications).

Two (2) years or 300 operating hours (whichever occurs first) for commercial use (income-generating, rental, or business -related applications).

Goods purchased under an Australian Business Number (ABN) are considered commercial use.

The Warranty Period begins on the original date of sale and does not restart upon repair or replacement of any part.

This warranty provides benefits in addition to the rights and remedies available under the Australian Consumer Law and other applicable statutes. It does not exclude, limit, or modify any statutory rights.

LIMITED WARRANTY

This is a "walk-in" warranty, applicable only to the specified range of generators. Consumers are advised to take the generator to the nearest authorized service agent. Visit www.maxwatt.com.au for more details.

Warranty Service Process:

- The Consumer is responsible for all transportation costs to and from the Company's or its authorized dealer's premises within the Warranty Period.
- Upon inspection, the Company may, at its discretion, repair or replace any unit found to have defective materials or workmanship.
- Repairs or replacements will be scheduled based on standard service workflow and parts availability.

Exclusions:

- The Company is not liable for repair or replacement of Goods that:
- Have been repaired by unauthorized parties.
- Were abused, improperly installed, operated, maintained, repaired, transported, or stored.

WARRANTY CONDITIONS (continued)

- Were not serviced as per schedule using genuine spare parts.
- Have been altered, misused, or otherwise damaged.

This warranty does not apply where a defect or other issue with the product is caused by normal wear and tear, misuse, or abuse of this product.

WHAT THE APPOINTED SERVICE AGENT WILL REPAIR OR REPLACE UNDER WARRANTY:

"The appointed Service Agent will repair or replace, at its sole discretion, any part that is proven to be defective in material or workmanship under normal use during the applicable warranty time period. Warranty repairs will be made without any charge for parts and labour.

All parts replaced will be considered as part of the original product and the warranty on such parts will expire coincident with the original product warranty."

EXCLUSIONS TO THIS LIMITED WARRANTY INCLUDE:

Neglect in the periodic maintenance as specified in the owner's manual.

Improper repairs or maintenance including any repairs and/or maintenance carried out by a non-accredited service agent.

Operating methods other than those indicated in the owner's manual.

The use of non-genuine parts and/or accessories other than those supplied by an accredited service agent.

Normal wear and tear, including but not limited to the fading of painted or plated surfaces.

Consumable parts, including but not limited to keys, spark plugs, fuel and oil filters, recoil starter ropes, wheels, lubricants, oil, grease, and fuel.

Cleaning adjustments and normal periodic maintenance work, including but not limited to cleaning the battery, carburettor, engine oil, fuel tank, and injectors.

Overloading resulting in the damage of the circuit breaker, stator, and rotor.

WARRANTY CONDITIONS (continued)

Charging and proper maintenance of the battery.

Correct preparation when using the generator for the first time as set out in the owner's manual.

Fire damage caused by but not limited to overloading, incorrect installation, incorrect refuelling, and any other causes as set out in the owner's manual.

Damage to any electronic and/or electrical appliances connected to the generator.




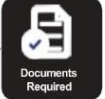
BELOW IS A TABLE OF PARTS THAT ARE LIMITED BY THIS WARRANTY:

PARTS	<u>OUT OF BOX FAILURE (LESS THAN 20 RUNNING MINUTES)</u>
STATOR	X
ROTOR	X
CIRCUIT BREAKER	X
IGNITION COIL	X
SPARK PLUG	X
BATTERY	X



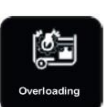
















Note:

Out of box failure refers to a machine that has run for less than 20 minutes.






Please Note the Following Terms & Conditions.

- 
 — Customer is required to return the generator to the store.
- 
 — The generator will be repaired at no charge to the customer should the fault be deemed a manufacturer defect only.
- 
 — The approximate lead time for repairs is **14 - 21 working days** from the time the generator is received at the Maxwatt Service Center.
- 
 — A copy of the proof of purchase is required when returning the generator for repairs. The warranty is null and void without a copy of proof of purchase.

NOTE: THE FOLLOWING IS EXCLUDED FROM THE MANUFACTURER WARRANTY POLICY.

- 
 — Neglect in the periodic maintenance as specified in the owners / operator's manual.
 - 
 — Operating methods other than those indicated in the owner / operator's manual.
 - 
 — Overloading resulting in the damage to the Inverter / Circuit Breaker / Alternator.
 - 
 — Improper repairs or maintenance carried out.
 - 
 — Normal "wear & tear" due to day-to-day use & operation.
 - 
 — The in-correct installation resulting in the damage to the Inverter / Alternator / Control Panel and remote.
-
- | | | | | | | | |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  | | | |

CHECK LIST PRIOR TO SENDING THE GENERATOR IN FOR ASSESSMENT / REPAIR.

- 
 — Ensure that the battery is charged.
- 
 — Ensure that there is the correct amount of oil and that it does not need to be replaced.
- 
 — Ensure that there is sufficient fuel.
- 
 — Ensure that the spark plug does not need to be cleaned or replaced.
- 
 — Ensure that the generator **has been serviced** if it has run for more than 50 hours. Check the owners / operator's manual for information.

DISCLAIMER OF IMPLIED WARRANTIES

Maxwatt Power Products disclaims any responsibility for the loss of time or use of the product, transportation, commercial loss or any incidental or consequential loss or damage. Any implied warranties are limited to the duration of this written warranty policy and procedures manual.

Proof of Purchase

It is recommended that you keep the original tax invoice for your records.

Warrantor:

Maxwatt Power Products Pty Ltd
Shop 15/1440 New Cleveland Rd, Chandler, QLD, 4155
(07) 3732 5363
customercare@maxwatt.com.au

SPARE PARTS AND SERVICING

WHERE DO I TAKE MY PRODUCT FOR SERVICE OR REPAIR?

Please contact MaxWatt at customercare@maxwatt.com.au we can provide after-sales support for your generator.

Should you experience any problems with your generator, it is recommended that you consult the troubleshooting guide in the Instruction Manual first before contacting us. The most common issues can be resolved quickly in this manner without the inconvenience of having to take your generator to a service agent.

ARE SPARE PARTS AVAILABLE FOR PURCHASE?

Yes, we carry a full range of spare parts for all products. Please check our catalogue for a full list of spare parts and contact us if you need to order anything.

Distributed by:



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