MAXWATT

POWER WHEN YOU NEED IT

MX8000iS

INVERTER GENERATOR OPERATOR'S MANUAL

TABLE OF CONTENTS:

IMPORTANT:

Thank you for purchasing a MAXWATT Power Petrol Inverter Generator (hereinafter referred to as the “inverter generator”).

This manual will assist you in operating and maintaining your generator. This manual is the latest version.

With the continuous improvement and upgrading of this product, the manufacturer reserves the right to modify this manual without notice. The manufacturer shall assume no liability for incorrect information contained in this manual.

This manual is an integral part of the generator. When the generator is transferred to others, this manual should be handed over to the new owner.

Some important information in this manual will be indicated in the following way. The users should pay special attention to these instructions.

The range of MAXWATT Power Products are safe and reliable, but incorrect use of these products may cause personal injury and or damage to your machine. Please read this manual thoroughly before operation as this product is required to operate strictly in accordance with this manual.

IMPORTANT NOTICES:

PLEASE P A Y S P E C I A L A T T E N T I O N T O S T A T E M E N T S PRECEDED BY THE FOLLOWING WORDS:

	**Danger**

- **DANGER**

  This indicates a hazardous situation, which, if not avoided, will result in death or serious injury.

	**Warning**

- **WARNING:**

  This indicates a hazardous situation, which, if not avoided, could result in death or serious injury.

	**Caution**

CAUTION:

This indicates a hazardous situation, which, if not avoided, could result in injury.

For any queries on the above please contact MAXWATT

1. GENERAL SAFETY INFORMATION:

⚠	Danger	⚠	Warning	⚠	Caution

1.1 A "LAYMAN" and or "CHILDREN may not recognise the possible dangers of operating a generator. We recommend that only competent person should operate the generator.

1.2 Fuel is combustible and easily ignited. Do not refuel during operation.

1.3 Do not refuel whilst smoking or near naked flames. Do not overfill or spill fuel. If this happens, clean the fuel on and around the generator properly before operating.

1.4 Only use the specified fuel when operating the generator.

1.5 Some parts of the internal-combustion engine are hot and might cause burns. Pay attention to the warning signs on the generating set.

1.6 Engine exhaust gases are toxic. Do not operate the generator in an unventilated room. When installed in a ventilated room, additional requirements for fire and explosion protection must be observed.

1.7 Regularly check that the bolts and nuts are properly tightened as they may become loose due to vibration of the generator whilst in use.

1.8 Before using the generator, ensure that you have checked the periodic maintenance schedule in the operator's manual.

1.9 Pay attention to the wiring or extension cords from the generator to the connected device. If the wire is under the generator or in contact with a vibrating part, it may break and possible cause a fire, generator burnout, or electric shock hazard. Replace damaged or worn cords immediately.

1.10 Do not operator in rain, wet or damp conditions, or with wet hands. The operator may suffer severe electric shock if the generator is wet.

1.11 If wet, wipe and dry it well before starting. Do not pour water directly over the generator, not wash it with water.

1.12 Be extremely careful that all necessary electrical grounding procedures are followed during each and every use. Failure to do so can be fatal.

1.13 Do not connect the generator to a commercial power line. Connecting to a commercial power line may short circuit the generator. We strongly recommend the use of a transfer switch for connecting to a domestic circuit.

1.14 Do not smoke when handling the battery. The battery emits flammable hydrogen gas, which can explode if exposed to cigarettes and or naked flames. Keep the area well ventilated and keep naked flames / sparks away when handling the battery.

1.15 Keep children and all bystanders at a safe distance from the generator whilst in use.

1.16 It is absolutely essential that you know and understand the safe and proper use of the power tool or appliance that you intend to connect to the generator. All operators must read, understand and follow the tool / appliance operator's manual. The tool and appliance applications and limitations must be understood. Keep instruction manuals in a safe place for future reference.

1.17 Always switch off the circuit breaker on the generator when not in use.

1.18 Do not store the generator inside a house or office. Do not store the generator where it will be exposed to rain or water.

2. ELECTRICAL SAFETY INFORMATION:

2.1 Electrical equipment including cables, cords and plug connections must not be defective. Please check before using.

2.2 Do not plug the Generator directly into a wall socket outlet.

2.3 The Generator must not be connected to other power sources such as the power company supply mains. In special cases where stand-by connection to existing electrical systems or integration therewith is intended, note that it is a legal requirement that such connection or integration may only be performed by a competent person.

2.4 Protection against electrical shock depends on circuit-breakers that are specially matched to the Generator. If a circuit breaker requires replacement, it shall be replaced by a circuit breaker that has identical ratings and performance characteristics.

2.5 Due to high mechanical stresses only tough rubber-sheathed flexible cable should be used

2.6 If the Generator is of Class II construction, then earthing of the Generator is not required.

2.7 <u>Extension Cords:</u>

When an extension cord set is connected to the generating set the following should be considered:

2.7.1 A 1mm2 flexible cable can draw a maximum of 10A provided that the cable is no longer than 25m.

2.7.2 A 1.5mm2 flexible cable can draw a maximum of 10a provided that the cable is not longer than 35m.

2.7.3 A 1.5mm2 flexible cable can draw a maximum of 16a provided that the cable is not longer than 20m.

2.7.4 A 2.5mm2 flexible cable can draw a maximum of 10a provided the cable is not longer than 65m.

2.7.5 A 2.5mm2 flexible cable can draw a maximum of 16a provided that the cable is not longer than 45m.

2.7.6 A 4mm2 flexible cable can draw a maximum of 10a provided that the cable is no longer than 100m.

2.7.7 A 4mm2 flexible cable can draw a maximum of 16a provided that the cable is no longer than 65m.

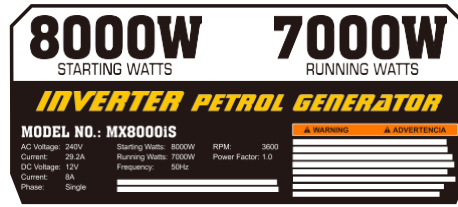
2.8 Voltage drop in electric extension cords:

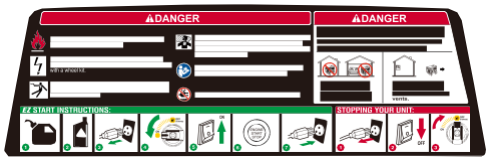
When a long electric extension cord is used to connect an appliance or tool to the generator, a certain amount of voltage drops or loss occurs in the extension cord which reduces the effective voltage available for the appliance or tool.

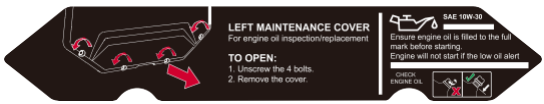
The chart below has been prepared to illustrate the approximate voltage loss when an extension cord of 300 feet (approx.100 meters) is used to connect an appliance or tool to the generator.

Nominal cross section	A.W.G.	Allowable current	No. of strands/ strands dia.	Resistance	Current Amp.							Voltage drop
mm2	No.	A	No./mm	/100m	1A	3A	5A	8A	10A	12A	15A	
0.75	18	7	30/0.18	2.477	2.5V	8V	12.5V					
1.27	16	12	50/0.16	1.486	1.5V	5V	7.5V	12V	15V	18V		
2	14	17	37/0.26	0.952	1V	3V	5V	8V	10V	12V	15V	
3.5	12 to10	23	45/0.32	0.517		1.5V	2.5V	4V	5V	6.5V	7.5V	
5.5	10 to 8	35	70/0.32	0.332		1V	2V	2.5v	3.5V	4V	5V	

3. SAFETY STICKERS AND EXPLANATIONS:







4. SPECIFICATIONS:

Model:	MX8000iS
Starting Watts:	8000W
Running Watts:	7000W
Engine:	SC460(459cc)
Ac Voltage:	240V
Frequency:	50Hz
Rated Current:	29.2A
Phase:	Single
Fuel Capacity:	26L
Run Time:	11hrs at 1/2load
Engine Oil:	1.0L
Net Weight:	115kg
Fuel Type:	Unleaded petrol

5. PRE-OPERATING INSPECTION:

5.1 Engine Oil – This is a major factor affecting the performance and life span of the Generator. Do not use non-detergent and 2 stroke oil as this will damage the Generator.

5.2 Before using the Generator check the oil level, ensure that the unit is on a flat and level surface when doing this and that the unit is “OFF”.

5.3 The recommended oil to use is 4 – stroke gasoline engine oil IE SAE10W-30.

5.4 Running the Generator with insufficient engine oil will cause damage to the Generator.

5.5 Please note that the Generator is fitted with a “low oil alert sensor”.

5.6 Only use clean un-leaded fuel when operating/running the Generator. Dirty/contaminated fuel will cause damage to the Generator and will affect the performance.

5.7 Gasoline is extremely flammable, exercise extreme caution when putting fuel into the fuel tank. DO NOT BE NEGLIGENT.

5.8 Always refuel in a well-ventilated area.

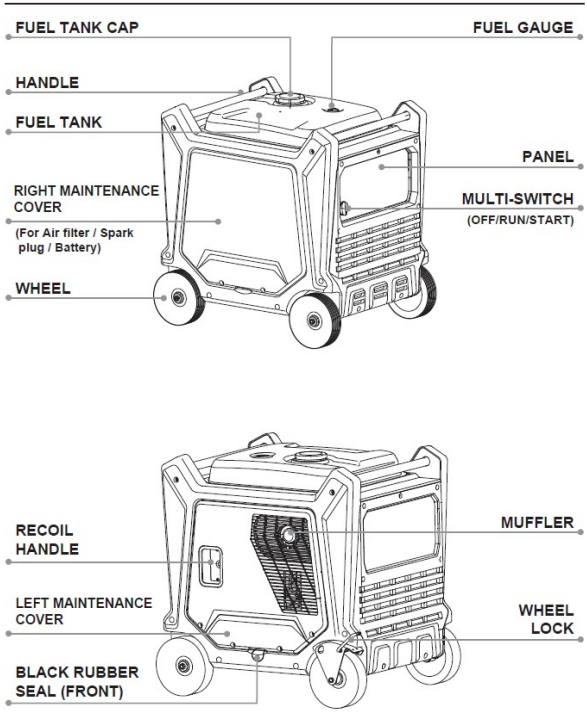
5.9 Do not attempt to refuel the Generator whilst the engine is running.

5.10 Be careful not to over fill the tank when refueling. If this happens, clean the fuel spillage properly.

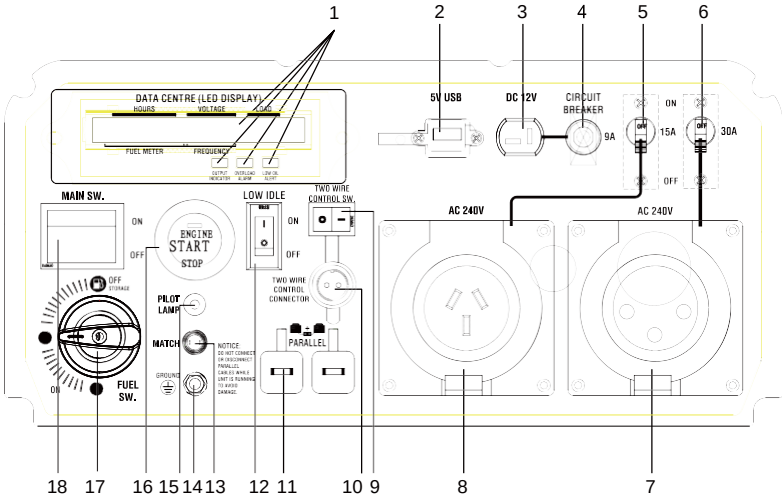
5.11 Do not smoke whilst refueling.

5.12 Keep out of reach of children

6. CONTROLS AND FEATURES

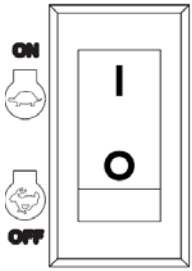


6.1 CONTROL PANEL



1	DATACENTRE	10	TWO WIRE CONTROL CONNECTOR
2	5V USB	11	PARALLEL OPERATION OUTLETS
3	DC 12V	12	LOW IDLE
4	CIRCUIT BREAKER	13	MATCH
5	CIRCUIT BREAKER	14	GROUND
6	CIRCUIT BREAKER	15	PILOT LAMP
7	AC OUT 240V	16	ENGINE START
8	AC OUT 240V	17	FUEL-SWITCH
9	TWO WIRE CONTRAL SWITCH	18	MAIN SWITCH

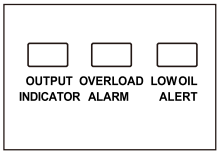
6.2 **CONTROL FUNCTIONS**



ECO THROTTLE

When the Throttle is in the **"ON"** position the throttle controls the engine speed according to the connected electrical load. The results are better fuel consumption and less noise. When the switch is in the" **OFF"** position the engine runs at 4,500 rpm regardless of the electrical load.

Note: The Throttle must be "OFF" when using electrical devices that require a large starting current such as compressors, pumps or refrigerators.



LED INDICATORS

The Led Indicators assist in communicating status and functions of the Generator.

Output Indicator (Green)

The Output Indicator comes on when the engine starts and produces power.

Overload Alarm (Red)

The Overload Alarm comes on when a connected device requires more power than the generator is able to produce. The Output Indicator (Green) will go off and the Overload Alarm (Red) will stay on, but the engine will continue to run.

⚠	**Caution**

Do not overload the generator. Low Oil Alarm (Red)

When the engine oil falls below the required level the Low Oil Alarm will come on and the engine will stop automatically. The engine will not restart until oil is added to the unit to bring it up to the appropriate level.

6.3 TO RESET THE GENERATOR

6.3.1 Turn off any connected electric devices and stop the engine.

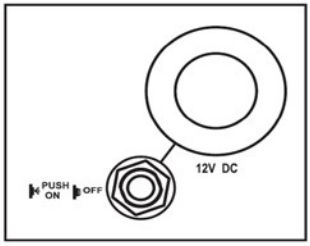
6.3.2 Reduce the total wattage of the connected electric devices within the rated output.

6.3.3 Use in proper ventilated areas. Maintain at least 1m of clearance on all sides for adequate cooling.

6.3.4 After checking, restart the engine.

Note:

The Overload Alarm may come on for a few seconds when first using electrical devices that require a large starting current, such as compressors, pumps or refrigerators. When starting the unit, if the Low Oil Alarm light flickers and the engine will not start, you will need to add engine oil before attempting to restart the engine. The generator should only be operated on a level surface.DO NOT operate the generator on loose ground or obvious inclines. The low oil shutdown feature may be prematurely activated causing the engine not to start.



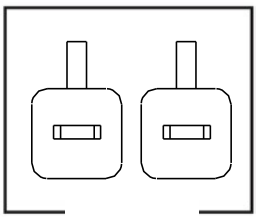
12V 8A DC

The 12V 8A DC Output is provided for battery charging. Follow the instructions in the owner's manual for the battery charging procedures.

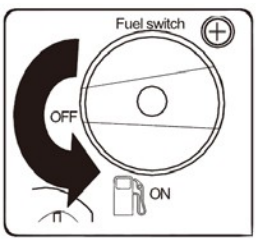
8A DC Circuit Breaker

The 8A DC Circuit Breaker turns off automatically if the current exceeds 8A. If the circuit breaker turns **"OFF"** you will need to push it **"in**" to turn it **"on"** again.

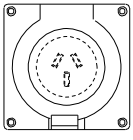
PARALLEL OUTPUT: Two generators can be connected to increase the output. Connect the parallel cables into the parallel box first, then start the generators normally.



Fuel Valve: Turn fuel valve to "on" position before starting generator. Turn fuel valve to "off" position when you stop using generator.

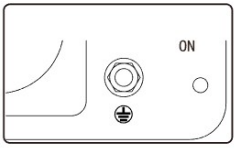


NOTE: To shut off the generator rotate the multi-Switch clockwise to the OFF position and hold until generator turns off.



240 Volt 5-20R

The Outlet is used to power 240 V single phase 50HZ loads requiring up to 3500W continuous power.



Ground Terminal

Properly ground generator to prevent electrical shock. Connect the ground terminal of generator to ground electrode buried in the ground.

PARALLEL KIT (Optional)

The non-polarized parallel kit terminals are used with a parallel kit (sold separately) that will allow generators to be linked together to increase output.
NOTE: Read and understand the parallel kit's instructions prior to use. Kit is for usage with this unit only.

7. PRE-OPERATION CHECKS

7.1 UNPACK THE GENERATOR:

Remove the generator from its packaging.

WARNING!
PACKAGING IS FLAMMABLE!
DO NOT ATTEMPT TO ADD FUEL TO THIS UNIT BEFORE REMOVING IT FROM PACKAGING.

Inspect the generator to ensure that no damage has incurred in shipping or handling. If the unit appears to be damaged do not add oil or fuel or attempt to start the generator.

This product has been shipped completely assembled. Carefully remove the product and accessories from the box making sure that all the items listed on the packing list are included namely:

- Generator
- 12V Charging Cables
- Oil Funnel

7.2 ADDING THE ENGINE OIL:

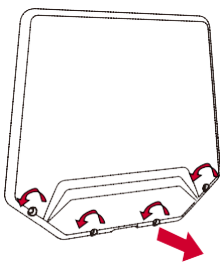
The generator has been shipped without engine oil.

DO NOT add fuel or start the engine before adding engine oil.

Attempting to start the generator without the correct amount of engine oil will result in equipment failure.

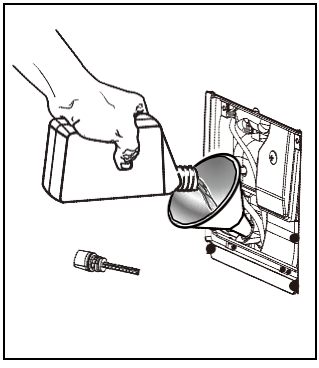
Engine oil has a major influence on engine performance and service life. For general, all-temperature use, SAE 10W-30 is recommended. Always use a 4-stroke engine oil that meets or exceeds the requirements.
NOTE: Non-detergent or 2-stroke engine oil will damage the engine and should not be used.

- Loosen the screws at the side of the left maintenance cover. Remove cover and set aside.
- Unscrew the oil cap/dipstick and remove.
- Wipe dipstick clean and re-seat in hole; do not re-thread.
- Remove dipstick again and check engine oil level. Engine oil level should fall between the minimum and maximum marks on the dipstick.
- If level is low, add engine oil.
- Replace and secure the cap/dipstick.



Place the generator on a level surface.

DO NOT tilt the generator while adding oil. It can cause you to overfill the oil and or cause the oil leak into areas in which it is not



intended. Remove the oil filler cap seen in figure 2.

Using the funnel provided, fill with 0.4L of SAE10W-30 or 15W-40 (SEE FIGURE 3) See figure 4 for proper oil level.

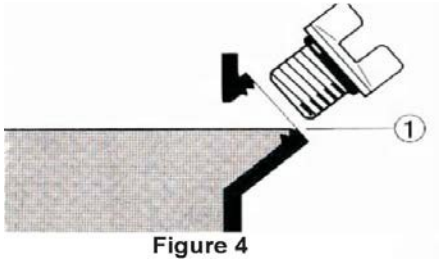


Figure 4

Replace the fuel cap and secure the side panel with the screws provided.
Ensure that the correct amount of oil is used of 0.4L.

RECOMMENDED ENGINE OIL:

Only use 4 stroke automotive oil (API or SE) alternatively you can use a higher grade (SG, SH or SJ). SAE 15W-40 is recommended for general all temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area.

7.3 ADDING FUEL:

WARNING:

Petrol and its vapors are highly flammable and explosive. To prevent serious personal injury and property damage, handle gasoline with care. Keep away from ignition sources, handle outdoors only, do not smoke while adding fuel, and wipe up spills immediately.

When adding the fuel to the generator, make sure the unit is sitting on a flat level surface, if the unit is hot please wait till it is cool before refilling with fuel. ALWAYS fill the tank outdoors with the machine turned off.

Do not overfill the tank, otherwise it may overflow when the fuel warms up and expands.

Note: For safety reasons once the fuel has been added to this unit it cannot be returned to the place of purchase, please contact MAXWATT for all service-related enquiries.

7.3.2 Use clean, fresh, regular unleaded fuel with a minimum octane level of 85.

7.3.3 **DO NOT** mix oil with the fuel.

7.3.4 Always clean the area around the fuel cap.

7.3.5 Remove the fuel cap.

7.3.6 Be sure that the fuel strainer is in place.

7.3.7 Slowly add the fuel to the tank.

7.3.8 Do not exceed the red marker position of the fuel filter.

7.3.9 Screw on the fuel cap and wipe away and spilled fuel.

Note: Use only unleaded fuel, the use of leaded fuel will cause severed damage to the internal engine parts. After filling the fuel ensure that the fuel tank cap is securely tightened

7.4 STARTING THE ENGINE:

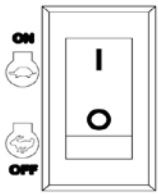
NOTICE:
On a level surface with the engine off, check the lubricant level before each use of the generator.

NOTE: If location of generator is not level, the unit may not start or may shut down during operation.

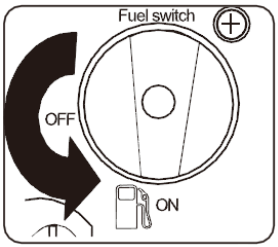
NOTICE:
Do not place the generator directly on the ground when using the unit in grassy areas or in areas with dense vegetation. Doing so could result in grass discoloration and/or localized soil damage.

ALWAYS OPERATE THE GENERATOR IN A WELL-VENTILATED AREA.

DO NOT connect any electrical devices to the outlets on the generator before starting the engine.



Turn the Economy Throttle switch “OFF” you may turn the Economy Throttle switch to the “ON” position once the engine is started and a steady idle is achieved.



Turn fuel valve to "on" position before starting generator.

FOR ELECTRIC START;

- **FOR ELECTRIC START:** Turn and hold the Engine START/STOP Switch.

  The Engine START/STOP Switch functions for 5 seconds. As soon as the engine starts, the starter will stop automatically.

  If the engine fails to start, **WAIT** at least 10 seconds before operating the starter again.

  FOR MANUAL START: Use the recoil starter when the battery voltage is too low to turn the starter motor.

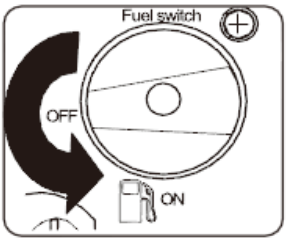
  - Pull the starter grip lightly until you feel resistance; then pull briskly in the direction of the arrow as shown.

  NOTE: Do not allow the grip to snap back after starting: return it gently to its original place.

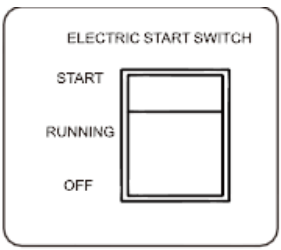
- Plug to the generator.

7.5 STOPPING THE ENGINE:

Before stopping the engine, turn off and unplug all electrical loads. Never start or stop the generator with electrical devices plugged in or turned on. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator. Generator will shut down after all excess fuel has been used.



1. Turn the Fuel Valve to the "OFF" position.
2. Let the engine run until fuel starvation has stopped the engine. This usually takes a few minutes.



3.Press the engine switch to the "off" position.

Important：

Always ensure that the fuel Valve and the engine Switch are in the position when the engines is not in use.

8. ELECTRICAL CONNECTION:

8.1 CAPACITY:

Follow these simple steps to calculate the running and starting watts for your requirements.

8.1.1 Select the electrical devices you plan on running at the same time.

8.1.2 Add up the running watts of these devices. This is the amount of power you will need to keep your items running.

8.1.3 Identify the highest starting wattage of all the devices identified in step 1, add this number to the number calculated in step 2.

Note: Surge wattage is the extra boost of power needed to start some electric driven equipment. Following the steps listed under "Power Management" will guarantee that only one device will be started at a time.

8.2 POWER MANAGEMENT:

Use the following formula to convert voltage and amperage to watts:

Volts X Amps = Watts

To prolong the life of your generator and attached devices, follow these steps to add an electrical load:

8.2.1 Start the generator with no electrical load attached.

8.2.2 Allow the engine to run for several minutes to stabilize.

8.2.3 Plug in and turn on the first item, it is best to attach the item with the largest load first.

8.2.4 Allow the generator to stabilize.

8.2.5 Plug in and turn on the next item.

8.2.6 Repeat steps 5-6 for each additional item.

8.3 CONNECTING ELECTRICAL LOADS:

8.3.1 Let the engine stabilize and warm up a few minutes after starting.

8.3.2 Prior to powering tools and equipment make sure that the generators rated voltage, and amperage capacity is adequate to supply all the electrical loads that the generator will power. (230V,7amps,12V DC @ 8 Amps)

8.3.3 Once the generator is running, simply connect the [power cords of 230V AC equipment into the AC outlets.

8.3.4 **DO NOT** connect 3-phase loads to the generator.

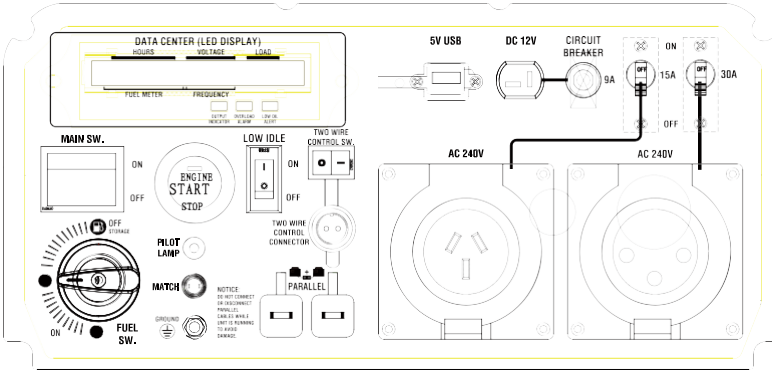
8.3.5 **DO NOT** overload the generator.

NOTE: The DC terminals may be used for charging 12 Volt automotive type batteries only.

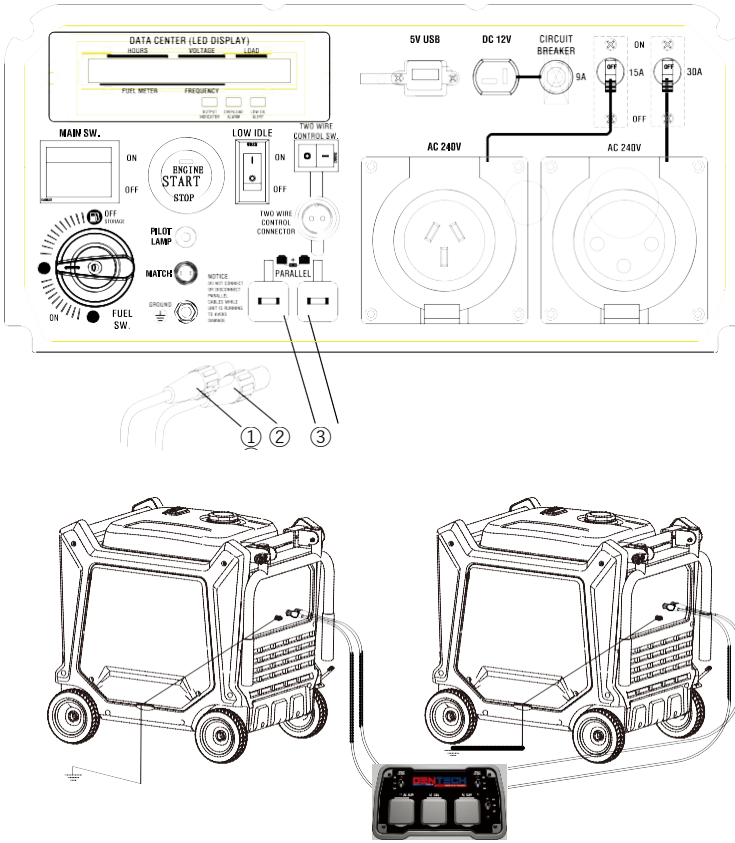
8.4 PARALLEL CONNECTION WITHIN 2 GENERATORS:

This allows you to increase the output by connecting two generators together.

Be sure the generators are powered off and without load when connecting the parallel cables.



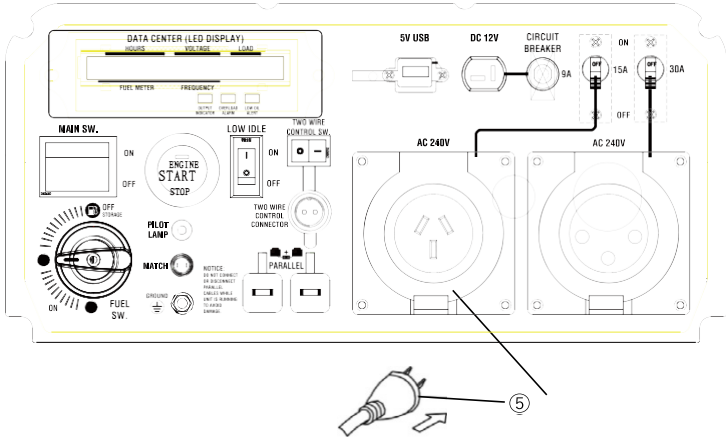
Connect the parallel connection cables 1 and 2 into the parallel connection sockets 3 and 4.



*Parallel function must use parallel box, and direct connection male bold of wires is prohibited

1. Start both of the generators as per the normal operation. Please make sure that the cables are connected in the parallel connection sockets properly. If they are not connected properly, the generator could be damaged when started.
2. The load plugs can now be plugged into the AC sockets. Ensure that

the load is split between the 3 sockets in the parallel box, DO NOT OVERLOAD THE SOCKET WITH MORE THAN 20 AMPS OR 4500W.



Warning:

Only 2 sets of the same brand invertor generator can be parallel connected. Only use the same brand of parallel cables. Make sure that the parallel cables are connected into the correct sockets and only connect when the generators are off.

Ensure that the load is evenly distributed from each AC socket and that the sockets are not overloaded which will result in the circuit breaker tripping. Always use the Parallel Box.

8.5 BATTERY CHARGING:

8.5.1 Start the engine first and allow it to reach idle before connecting

the generator to the battery. Battery Charging is performed using the 12V DC outlet only.

8.5.2 Be sure the Throttle switch is turned “OFF” while charging the batteries.

8.5.3 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 the positions.

8.5.4 Connect the battery charger leads to the battery terminals securely so that they do not disconnect due to the engine vibration or other disturbances.

8.5.6 Change the battery by following the instructions in the owner’s manual of the battery.

8.5.7 The DC Circuit Breaker will turn “OFF” automatically if the current exceeds the rated output.

8.5.8 To restart charging the battery, turn the DC protector on by pressing its button to the “ON” position.

8.5.9 Refer to the owner’s manual of the battery to determine charging times.

Note: Never start or stop the generator with electrical devices plugged in or turned on.

8.5 2 WIRE AUTO START

Automatic Electric Starting of the MX8000IS by 2-Wire Auto Start.

1. Verify the battery is properly installed and both battery cables are attached.

2. If the generator is left in non-operating standby whilst in auto-start mode for an extended period or it starts and stops frequently with a short operating time, the battery may become excessively discharged and unable to automatically start the generator. To ensure reliable service, it is recommended that the battery be connected in parallel to a main(12V) or solar-powered automatic maintenance battery charger(12V).

3. Connect electrical cords or devices into the 240-Volt AC or 12-Volt DC outlets, as required.
   Switch the 240-Volt AC Main Circuit Breaker to the ON position and ensure that the DC breaker is pushed in.

4. Connect the 2-wire auto start terminals to an external “dry” or voltage-free circuit that will provide the start and stop commands to the generator by closing and opening the circuit, respectively.

5. Move the fuel shut off valve to the ON position.

6. Push the auto start control switch to the ON position.

7. Do not touch the choke lever. It will automatically adjust itself to the correct position if the generator’s battery is sufficiently charged.

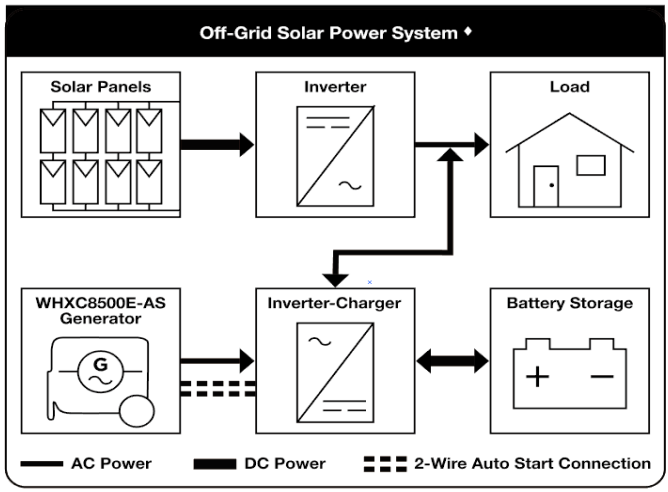
8. Upon receiving a “start” signal by closing of the external 2 wire remote control circuit, the generator will start automatically. The generator will continue running until it receives a remote “stop” command or is manually stopped or runs out of fuel.

9. When the two-wire control switch is pressed ON, the one - key start, cannot control the starting of the generator set.

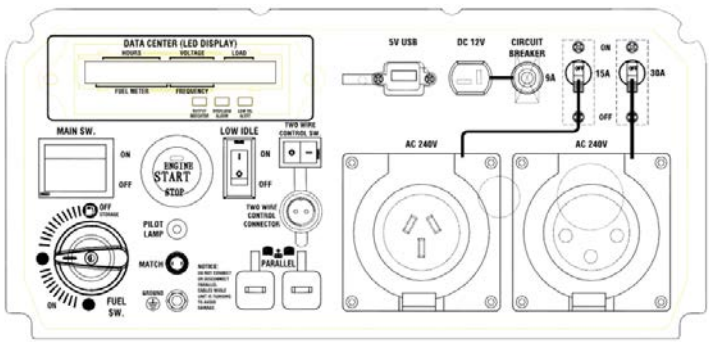
10. Only the two-wire control socket (two core aviation) socket can control the start and stopping of the generator set.

11. After 48 hours of turning off the generator set with the one key start, the generator set will enter the power saving mode. At this time, only the "one key start" switch will reenergize the generator set to wake up the v starter module. After the gen set has been woken then the start and stop function of the generator set can be controll ed again.

12. When the two-wire control switch is pressed OFF, only the one -key starter, can control the starting or stopping of the generator set.



♦ Depending on system configuration, the generator can automatically provide backup to recharge the storage battery and / or feed in power to supply the load.



9. MAINTENANCE:

For all your service, maintenance and warranty queries please contact MAXWATT.Please refer to the back page for all contact details. Before starting your generator, please check the following service items.

These basic inspections can be carried out by a “Laymen”.

1. Sufficient fuel.
2. Excessive Vibration.
3. Sufficient clean engine oil.
4. Leaking fuel or oil.
5. Safe surroundings.

Periodic inspection, adjustment and lubrication will keep your generator in the safest and most efficient condition possible.

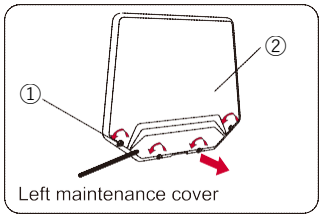
9.1 PERIODIC MAINTENANCE:

Item	Routine	Prior to use	Every	
			6mos. or 100hrs.	12mos. or 300hrs.
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.	•		
Engine oil	• Check oil level in engine.	•		
	• Replace*		•*	
Air Filter Element	• Check condition • Clean		•	
Muffler Screen	• Check Condition • Clean or replace if necessary		•	
Spark Arrestor	• Check Condition • Clean or replace if necessary		•	
Fuel Filter	• Check Condition • Clean or replace if necessary			•

* Initial replacement of the engine oil is after one month or 20 hours of operation.

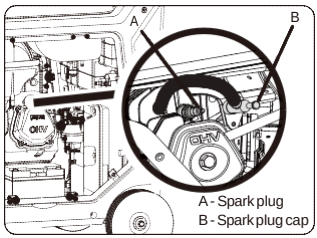
9.2 SPARK PLUG MAINTENANCE:

The spark plugs in an important engine component and should be checked periodically.



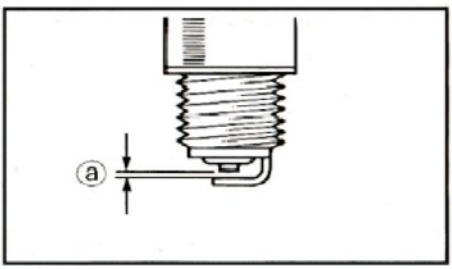
Left maintenance cover

1. Remove the screws 1 and then remove the cover 2.
2. Remove the spark plug cable from the spark plug.
3. Use the spark plug tool that shipped with your generator to remove the plug**.**
4. Inspect the elect rode on the plug. It must be clean and not worn to produce the spark required for ignition.
5. Make certain the spark plug gap is 0.7-0.8mm or (0.028-0.031in).



A - Spark plug
B - Spark plug cap

6. Refer to the spark plug recommendation chart when replacing the plug.
7. Carefully thread the plug into the engine.
8. Used the spark plug tool to firmly install the plug.



Spark Plug Type:
TORCH E5T(E5RTC)
Spark Plug Gap:
0.6-0.7 mm (0.024-0.028 in)
Spark Plug Torque:
20.0 N·m (2.0kgf·m,14.8 lbf·ft)

9.3 ENGINE OIL REPLACEMENT

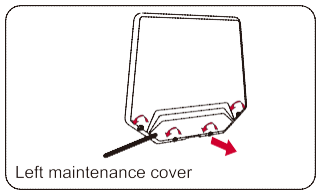
9.3 CHANGING THE ENGINE OIL

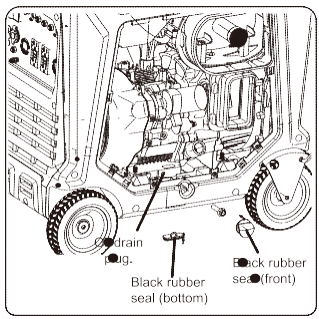
For the best performance the engine oil should be changed after every 100 hours or 6 months, however it is recommended that the initial engine oil is replaced after 20 hours.

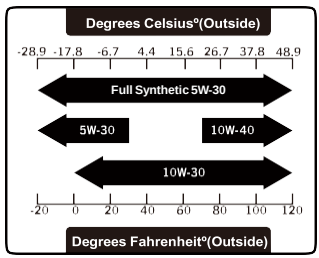
Note: Drain the engine oil while the engine is still warm but not hot. Warm engine oil will drain quickly and more completely.

- Loosen the screws at the side of the left maintenance cover. Remove cover and set aside.
- Reach under the generator and remove the black rubber seal located below the oil drain plug.
- Place a suitable container underneath the generator to catch the used oil.
- Remove the oil fill cap/dipstick.
- Remove the other black rubber seal located in the front the oil drain plug.
- Use a wrench through the hole ro remove the oil drain plug and allow the oil to drain completely.
- Reinstall the oil drain plug. Tighten the plug securely.
- Reinstall the two black rubber seal (the front one and the bottom one).
- With the generator in a level position and refill with engine oil following the instructions in the Checking/Adding engine oil section previously in this manual. For amount of engine oil needed to refill, see Product Specifications earlier in this manual or the accompanying engine manual, if applicable.
- Reinstall the oil cap/dipstick securely.
- Reinstall the left maintenance cover. Tighten screws to secure.

NOTE: Used engine oil should be disposed of at an approved disposal site. See local retailer for more information.







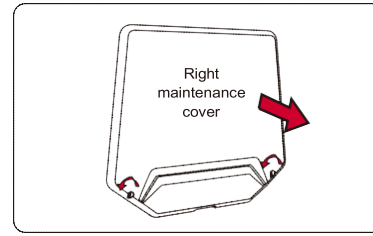
9.4 AIR FILTER MAINTENANCE

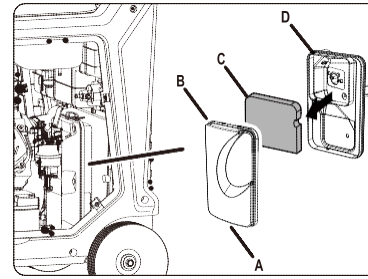
This should be performed every 6 months or 100 hours. The air filter may need to be cleaned more frequently when using in wet or dusty areas.

CHECKING/CLEANING AIR FILTER

For proper performance and long life, keep air filter clean.

- Loosen the screws at the side of the right maintenance cover. Remove cover and set aside.
- Unsnap the air filter cover clip, pulling the cover down and off the unit, remove air filter cover and set aside.
- Remove the air filter.
- Wash the air filters with warm, soapy water. Rinse and squeeze to dry.
- Reinstall the air filters.
  NOTE: Make sure the filters are seated properly inside the generator. Installing the filters incorrectly will allow dirt to enter the engine, causing rapid engine wear.

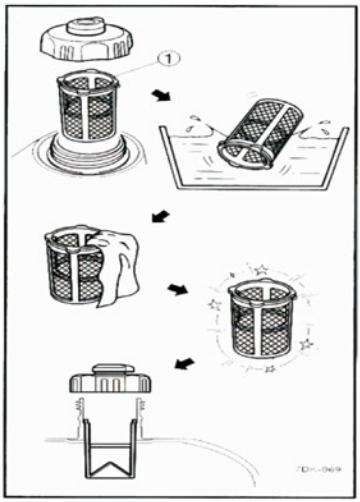




- Reinstall the air filter cover.
- Reinstall the right maintenance cover. Tighten screws to secure.

9.5 FUEL FILTER MAINTENANCE

This should be performed every 12 months or 300 hours.



1. Remove the fuel tank cap and filter -1
2. Clean the filter with petrol.
3. If damaged replace it.
4. Wipe the filter and install it.
5. Install the fuel tank cap.

9.6 DRAINING FUEL TANK/CARBURETOR

To help prevent gum deposits in the fuel system, drain the fuel from the tank and carburetor before storing.

Draining the fuel tank:

Remove the fuel tank cap, remove the fuel strainer, and empty the fuel tank into an approved fuel container. We recommend using a commercially available fuel hand pump to empty the tank. Do not use an electric pump. Siphon the fuel by inserting the tip of the hand pump into the side of the pump guard. Reinstall the fuel strainer and the fuel tank cap..

Draining the carburetor:

- Loosen the screws at the side of the right maintenance cover. Remove cover and set aside.
- Turn the Multi-switch to the RUN position.
- Position a suitable container under the carburetor drain screw to catch fuel; loosen the screw.
- Allow fuel to drain completely into container.
- Retighten drain screw securely.
- Turn the Multi-switch to the OFF position.

Warning! Petrol is highly flammable. Do not perform maintenance while smoking or near an open flame.

9.7 STORAGE

When preparing the generator for storage, allow the unit to cool for 30 minutes then follow the guidelines below.

STORAGE TIME	PRIOR TO STORING
Less than 2 months	■ Drain fuel from tank and dispose of in a suitable container according to state and local ordinances.
2 months to 1 year	■ Drain fuel from tank and dispose of in a suitable container according to state and local ordinances.
1 year or more	■ Remove spark plug. ■ Drain fuel from tank and dispose of in a suitable container according to state and local ordinances. ■ Put a tablespoon of engine oil into the spark plug cylinder. Turn the engine slowly with the pull rope to distribute the engine oil. ■ Reinstall spark plug. ■ Change engine oil. ■ After removal from storage, fill with fresh gasoline.
NOTE: If storing fuel in suitable container for later use, make sure fuel has been treated with fuel stabilizer according to stabilizer manufacturer's instructions.	

10.TROUBLESHOOTING:

ENGINE WILL NOT START

Possible Cause	Solution
Battery not charged.	Charge battery.
Engine switch is in the OFF position.	Turn engine switch to the ON position.
No fuel.	Fill fuel tank.
Stale fuel or water in gasoline.	Drain entire system and refill with fresh fuel.
Engine oil level is low.	Engine is equipped with Low Oil Shutoff. If engine oil level is low, it must be filled before unit will start. Check engine oil level and fill, if necessary.
Multi-switch is in OFF or Run position.	Turn multi-switch to the START position.
Spark plug faulty, fouled, or improperly gapped.	Replace spark plug.
Engine stored without treating or draining gasoline, or refueled with bad fuel.	Drain fuel. Refuel with fresh fuel.
Dirty fuel filter.	Replace fuel filter or contact a qualified service center.

ENGINE LACKS POWER.

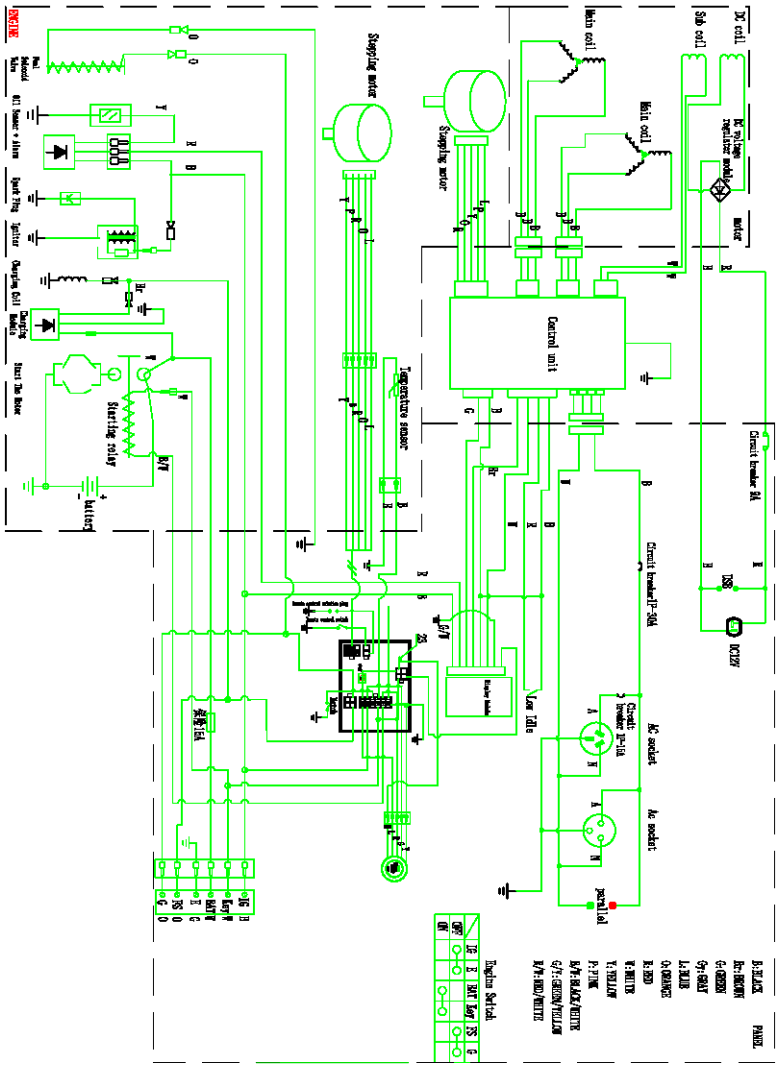
Possible Cause	Solution
Dirty air filter.	Check air filter element. Clean or replace as needed.
Engine stored without treating or draining fuel, or refueled with bad fuel.	Drain fuel. Refuel with fresh fuel. If problem continues, contact a qualified service center.

AC RECEPTACLE DOES NOT WORK.

Possible Cause	Solution
OUTPUT indicator is OFF, and OVERLOAD indicator is ON.	Check AC load. Stop and restart the engine. Check the cooling air inlet. Stop and restart the engine.
AC Circuit protector(s) tripped.	Check AC load and reset AC circuit protector(s)
GFCI system activated.	Reset the GFCI.
Item plugged in is defective.	Try a different item.

If problem persists after trying the above solutions, contact your nearest authorized service center for assistance.

11.WIRING DIAGRAM



WARRANTY INFORMATION

2 YEAR TRADE WARRANTY

Express Warranty

Subject to the exclusions set out below, we warrant that this product will be free from defects in materials or workmanship for 24 months from the date of purchase.

The benefits conferred by this warranty are in addition to all rights and remedies which you may be entitled to under the Australian Consumer Law and any other statutory rights you may have under other applicable laws. This warranty does not exclude, restrict, or modify any such rights or remedies.

Warranty Exclusions

This express 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.

Consumer Guarantees

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage.

You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

LIMITED WARRANTY POLICY

"This is a **"walk in"** warranty policy and is limited to the range of generators specified herein". We recommend that you take the generator to the nearest service agent for assistance. Please visit www.maxwatt.com.au for more information.

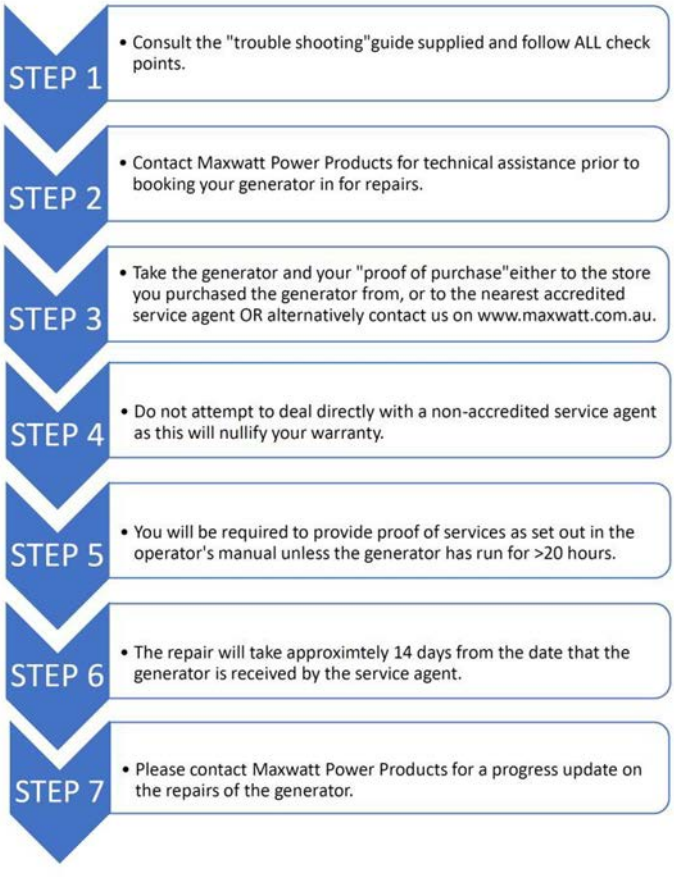
To qualify for this warranty:

"The warranty applies to the first purchaser and each subsequent owner during the applicable warranty time period".

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".

WARRANTY PROCEDURES:



BELOW IS A LIST OF GENERATORS THAT ARE COVERED UNDER THIS WARRANTY:

MODELS	WARRANTY PERIOD PRIVATE/RESIDENTIAL	WARRANTY PERIOD COMMERCIAL/RENTAL
MAXWATT ALL MODELS	24 months or 500 running hours which ever come first	24 months or 300 running hours which ever come first

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 of the battery, carburetor, engine oil, fuel tank and injectors.
- Over loading resulting in the damage of the AVR, circuit breaker, stator and rotor.
- 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 as a result of but not limited to overloading, incorrect installation, incorrect re-fueling 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

PART	OUT OF BOX FAILURE	< 20 RUNNING HOURS
STATOR	*	
ROTOR	*	
CIRCUIT BREAKER	*	
AVR	*	
IGNITION COIL		*
SPARK PLUG		*
BATTERY		*
WHEELS AND AXLE		*
HANDLES		*
RECOIL STARTER		*

*__NOTE__:
OUT OF BOX FAILURE REFERS TO A MACHINE THAT HAS RUN FOR < 20 MINUTES.

DISCLAIMER OF CONSEQUENTIAL DAMAGE AND LIMITITATION OF IMPLIED WARRANTIES

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

ONLINE ORDER RETURNS POLICY

If you believe an item is faulty, you may have rights to a remedy under the Australian Consumer Law. The Australian Consumer Law does recognize that the relevant time period may vary by product (or service) depending on the nature of the goods (or service), the price paid and any representations made about the goods (or service).

Where you believe an item is faulty, it may be necessary for us to send your goods to the manufacturer or their service agent for it to be assessed within a reasonable period of time. If there is a major failure with the item, you may choose a refund, exchange or repair. If the failure is minor, we will repair the item (or, at our discretion, we may replace the item) within a reasonable time.

Where an item is damaged through misuse or abnormal use, the manufacturer cannot provide a refund, exchange or repair.
Maxwatt Power Products require satisfactory proof of purchase before providing a remedy under the Australian Consumer Law.

DAMAGED IN TRANSIT

Please do not sign for the delivery of goods that are obviously damaged. If damage is only found upon unpacking, then please contact the store that fulfilled your order as soon as possible. Store contact details can be found on your order confirmation email. They will then arrange for the goods to be collected and a refund or replacement item sent out to you. Alternatively, please take the items to your nearest store where they will be able to help you.

NOT AS ADVERTSIED /INCORRECT ITEM

If your order arrives and it's not what you ordered, please contact either the store the order came from or on the online support team at customercare@maxwatt.com.au.

FAULTY PRODUCT

Please contact the store that fulfilled your order. Store contact details can be found on your order confirmation email. The store will need to assess whether the fault is a major or minor fault and will either arrange for the product to be repaired or replace. Some manufacturers require us to send fault items to them for assessment before we can give you a replacement.

CHANGE OF MIND

Changed your mind? Don't worry. You've got 30 days to get your order back to the store it was sent from and provided its un-used we'll give you a refund minus the costs of any shipping.

VALID RECEIPT

A copy of your in-store purchase receipt or online order confirmation email is required for any return. If returning your product to store, please ensure you take a copy with you.

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Unit 5,1440 NewCleveland Road, Chandler
Queensland Australia

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