

RYOBI®

OWNER'S OPERATING MANUAL INVERTER GENERATOR MODEL RG-2100I

SPECIFICATIONS

AC output.....	230V~50Hz
Rated power.....	1750W
Peak power.....	2100W
Rated current.....	7.6A
Phase.....	Single
Power factor.....	cosφ=1
Displacement.....	80cc
DC output (Cigarette socket).....	12V/5A
DC output (USB socket).....	5V/Max 2.1A
Engine.....	Single Cylinder, OHV 4 stroke, Air cooled
No load speed (low).....	3300min ⁻¹
No load speed (high).....	4300min ⁻¹
Continuous operating time.....	3.5hrs (100% load)
Fuel tank capacity.....	4L
Fuel type.....	Unleaded petrol
Oil type.....	SAE 10W-30
Oil capacity.....	0.4L
Ignition system.....	C.D.I.
Starting system.....	Recoil starter
Spark plug type.....	ER6C
Protection class/Quality class/Performance class.....	IP23M/A/G1
Max. temperature.....	40°C
Max. altitude.....	1000m
Weight.....	20kg
Sound @7m.....	58dB(A)

THANK YOU FOR BUYING A RYOBI INVERTER GENERATOR

Your new inverter generator has been engineered and manufactured to Ryobi's high standard of dependability, ease of operation and operator safety. Properly cared for, it will give you years of rugged, trouble free performance. If you use your inverter generator properly and only for what it is intended, you will enjoy years of safe, reliable service.



CAUTION: Carefully read through this entire owner's manual, paying close attention to the general safety rules and rules for safe operation, before using.

KEEP THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT SAFETY INSTRUCTIONS

The purpose of safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.



SAFETY ALERT SYMBOL. Indicates caution or warning. May be used in conjunction with other symbols or pictures.

Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

Do not attempt to operate this tool until you have read thoroughly and completely understood the safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save this Owners Operating Manual and review it frequently for continual safe operation and for instructing others who may use this tool.



Do not use E15 or E85 fuel in this product. It will damage the unit and void your warranty. Only use unleaded gasoline containing up to 10% ethanol.

Due to continued product refinement policy, product features and specifications can and will change without notice. Check current features and specifications with your retailer.



DANGER: CARBON MONOXIDE. Using a generator indoors **CAN KILL YOU IN MINUTES.**

Generator exhaust contains high levels of carbon monoxide (CO), a poisonous gas you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. But even if you cannot smell the exhaust, you could be breathing CO.

Never use a generator inside homes, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does **NOT** supply enough fresh air.

ONLY use a generator outdoors and far away from open windows, doors, and vents. These openings can pull in generator exhaust.

Even when you use a generator correctly, CO may leak into the home. **ALWAYS** use a battery powered or battery-backup CO alarm in the home.

If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air **RIGHT AWAY**. See a doctor. You could have carbon monoxide poisoning.



WARNING: Read and understand all instructions. Failure to follow all instructions listed below could result in electrocution, fire, and/or carbon monoxide poisoning, which can cause death or serious injury.



WARNING: In some applications, National Electric Code requires the generator to be grounded to an approved earth ground. Before using the ground terminal, consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.

SAVE THESE INSTRUCTIONS

The generator must be mounted on a firm level surface.

Do not allow children or untrained individuals to use this unit.

Keep all bystanders, children, and pets at least 10 feet away.

Wear sturdy and dry shoes or boots. Do not operate while barefoot.

IMPORTANT SAFETY INSTRUCTIONS

Do not operate generator when you are tired or under the influence of drugs, alcohol, or medication.

The electrical output load must not exceed the maximum load stated on the rating plate. Exceeding the rated load will damage the unit or shorten its life and will invalidate the guarantee.

The engine must not be run at speeds that exceed the maximum stated on the rating plate.

Operating an engine at excessive speeds increases the hazard of personal injury.

Do not tamper with components, which may increase or decrease the governed speed.

Mains extension leads, mains supply leads, and all electrical equipment must be in good working condition.

Never operate electrical equipment with damaged or defective mains supply leads.

Keep the area around the generator clear of obstructions at all times. Never locate the generator against a building or near a canvas or plastic structure i.e. Tents etc.

Always use the correct fuel mix as stated in the user manual and on the rating plate.

To reduce the risk of fire and burn injury, handle fuel with care. It is highly flammable.

Do not smoke while handling fuel.

Store fuel in a container approved for gasoline.

To prevent fire, always stop the engine and allow to cool for five minutes before refueling and never over fill the fuel tank.

Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.

Tighten the fuel cap securely after refueling.

Wipe spilled fuel from the unit.

Never attempt to burn off spilled fuel under any circumstances.

Always clean up spilt fuel immediately using sand.

Do not use the generator in or near an explosive atmosphere.

To prevent an electric shock, never operate the machine in rain, snow or touch with wet hands.

Check the fuel system periodically for leaks. Seals and hoses should be checked for signs of deterioration or chafing. Check for loose or missing clamps damaged fuel tank or filler cap. All defects should be corrected before further use.

Always allow the generator to reach full operating speed before connecting any electrical load. Always disconnect the electrical load before switching the generator off.

To prevent surging that may possibly damage electrical equipment, do not allow engine to run out of fuel while electrical loads are connected.

Before transporting the generator in a vehicle, drain all fuel to prevent spillage.

To prevent an electric shock and fire, never connect an electrical load with the electrical output switched on.

Do not connect the generator to any other electrical source.

Before storing, allow the engine to cool for 30 minutes and drain fuel from the unit.

Do not store the generator in rain, snow, or wet weather.

Store the generator in a well-ventilated area with the fuel tank empty. Fuel should not be stored near the generator.

Empty fuel tank, place the engine switch/fuel valve/choke lever in the OFF position, and restrain the unit from moving before transporting in a vehicle.

Provide a plastic sheet or absorbent pad below the generator to catch any drips of fuel or lubricant when transporting.

Generators vibrate in normal use. During and after the use of the generator, inspect the generator as well as extension cords and power supply cords connected to it for damage resulting from vibration. Have damaged items repaired or replaced as necessary. Do not use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.

IMPORTANT SAFETY INSTRUCTIONS

For power outages, permanently installed stationary generators are better suited for providing back-up power to the home. Even a properly connected portable generator can become overloaded. This may result in overheating or stressing the generator components, possibly leading to generator failure.

Inspect the unit before each use for loose fasteners, fuel leaks, etc. Replace damaged parts.

Use only recommended or equivalent replacement parts and accessories. Use of any other parts or failure to follow maintenance instructions may create a risk of shock or injury.

FUEL FILLING SAFETY RULES



DANGER: RISK OF FIRE AND SERIOUS BURNS. Never remove fuel cap when unit is running. Shut off engine and allow the unit to cool at least five minutes. Remove cap slowly.



WARNING: Select bare ground for fuelling and move at least 10 feet (3m) from fuelling spot before starting the engine. After refuelling, properly tighten fuel cap; wipe off any spilled fuel and check for leakage.



WARNING: If fuel gets spilled on clothes, especially trousers, it is very important to change clothes immediately. Do not rely on evaporation. Flammable quantities of fuel may remain on clothes after a spill for longer than expected.



WARNING: Vibrations can cause an improperly tightened fuel cap to loosen or come off and spill quantities of fuel. In order to reduce the risk of fuel spillage and fire, tighten fuel filler cap by hand as securely as possible. Before use always make sure that the fuel cap has been properly tightened. Check for fuel leakage while refuelling and during operation. If a fuel leak is suspected, do not start or run the engine until leak is fixed and spilled fuel has been wiped away.

ADDING OR REMOVING FUEL

Turn the generator off and let it cool for at least five minutes before removing the fuel cap. Loosen the cap slowly to relieve pressure in the tank.

Only fill or drain fuel outdoors in a well-ventilated area.

DO NOT pump gasoline directly into the generator at the gasoline station. Use an approved container to transfer the fuel to the generator.

DO NOT overfill the fuel tank.

Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.

DO NOT light or smoke cigarettes.

WHEN STARTING THE GENERATOR

DO NOT attempt to start a damaged generator.

Make certain that the gas cap, air filter, spark plug, fuel lines and exhaust system are properly in place.

Allow spilled fuel to evaporate fully before attempting to start the engine.

Make certain that the generator is resting firmly on level ground.

WHEN OPERATING THE GENERATOR

DO NOT move or tip the generator during operation.

DO NOT tip the generator or allow fuel or oil to spill.

WHEN TRANSPORTING OR SERVICING THE GENERATOR

Make certain that the fuel shutoff valve is in the off position and the fuel tank is empty.

Disconnect the spark plug wire.

When storing the generator:

Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

SPECIFIC SAFETY RULES



WARNING: Do not use the generator in areas where there is a risk of explosion or fire from combustible materials. The sparks possibly caused when using this generator may ignite combustible materials as well as flammable liquids, paint, varnish, petrol, flammable gases and dust of an explosive nature. As a precaution it is recommended that you consult an expert on a suitable fire extinguisher and its use. Ensure that the work area is kept clear of combustible materials.

Warning! Do not use the generator indoors or in confined spaces where exhaust gases, smoke or fumes could reach dangerous concentrations.

Never connect this generator to a second generator.

Never connect this generator to Commercial or Domestic power supply.

Always use the generator in an open well ventilated area.

Unit will become hot during use. Please keep generator at least one metre (1m) away from buildings, other equipment, pedestrian areas or flammable materials.

Do not operate the generator near hazardous material.

Never pull the recoil starter once the generator engine has started. Any damage caused will not be covered by warranty.

Never start or stop the generator with any appliances attached.

Ensure the generator has stopped before servicing, or lubricating etc.

Do not attempt to modify the generator, guards or the supplied accessories in any way.

Do not touch the exhaust. This can become very hot during operation and can cause serious burns.

Always check the generator for damaged parts or fuel leaks, ensure these are fixed before using it.

Never refuel while smoking or in the vicinity of an open flame.

Always wear safety eye wear, ear and breathing protection when operating or refuelling the generator.

To avoid a fire if you spill fuel while refuelling, clean up before starting the generator.

Never operate or store the generator on its side, ALWAYS operate or store in an upright manner on firm, solid ground.

Your generator is factory set, NEVER attempt to speed it up as this could endanger the user and damage the generator and/or attached appliances.

Never operate the generator in damp, wet or flooded conditions.

Before plugging appliances into the generator allow it to run up to full speed.

If the generator makes an unfamiliar sound or vibrates excessively, switch the generator 'OFF' immediately.

Investigate the possible cause or consult your authorised service agent.

Do not use ANY type of coolant on the generator as a fatal electric shock could occur.

Never use coolant in the generator as damage may occur.

Do not touch the generator with wet hands as this may cause electrocution.

Never use your generator on highly conductive surfaces. e.g. Steel walk ways, metal roof or metal bench, as this could cause an electric shock.

Always operate your generator at least two (2) metres away from conductive surfaces.

Locate this generator in a convenient place, avoid using long extension leads.

If an extension lead is used, avoid leaving it where it may be damaged by pedestrian or vehicular traffic or cause a trip and fall hazard.

When using extension lines or mobile distribution networks the total length of lines for a cross section of 1.5mm² should not exceed 60m; for a cross section of 2.5mm² this should not exceed 100m.

The unit operates best in temperatures between 5°C and 40°C with a relative humidity of 30~95%.

Operation of the generator at altitudes above 1,000m may require retuning. Consult a qualified service technician.

SPECIFIC SAFETY RULES

Always observe normal safety precautions with ALL appliances used with this generator.

Never transport the generator with fuel in the tank. ALWAYS empty the fuel tank.

All loads must be kept within the ratings stated on the rating plate. Overloading the generator will damage the unit or shorten its life. This will not be covered under warranty.

Do not tamper or alter any parts as this may cause personal injury or damage the generator.

Always disconnect any loads before starting or stopping the generator.

When storing the generator always store in a secure well ventilated area.

Always store in an upright position. NEVER store or lay this generator on its side.

Keep children a minimum of 3m away from the generator at all times.

Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.

Sparks can result in fire or electrical shock.

When servicing the generator: Disconnect the spark plug wire and place it where it cannot contact the plug. DO NOT check for spark with the plug removed. Use only approved spark plug testers.

CHECK DAMAGED PARTS

Before using the generator it should be carefully checked to determine that it will operate properly and perform its intended function.

Check for broken or missing parts and have them replaced or repaired at an authorised service facility. Check any other condition that may affect the operation of the generator. A guard or any other part of the generator that is damaged should be properly repaired or replaced by an authorised service facility unless otherwise indicated in this instruction manual.

Any switch that does not operate correctly must be replaced by an authorised service facility.

DO NOT use the generator if the 'ON / OFF' motor switch does not turn the generator 'ON' and 'OFF'.

PERSONAL SAFETY

CLOTHING

Do not wear loose clothing, jewellery or anything that could get caught in moving machinery. Gloves may be worn when filling generator with fuel.

HAIR

Long hair should be tied back or contained in a protective covering.

EYE PROTECTION

The use of safety goggles is highly recommended (normal glasses are not sufficient for eye protection) when using or refuelling generators. Prescription glasses do not have safety lenses.

FOOTWEAR

Where there is the risk of heavy objects or if there is a risk of slipping on wet or slippery floors, suitable non-slip, covered, safety footwear should be worn. Protect your feet from dropping accidents.

EAR PROTECTION

The use of ear protection is highly recommended when using generators. The continual noise may damage your ears.

RESPIRATORY PROTECTION

Always wear approved breathing protection when decanting fuel. ALWAYS use this generator in well ventilated area. Never use indoors.

Warning! Do not breathe in exhaust fumes. Exhaust fumes are poisonous and may cause drowsiness, unconsciousness and even death.

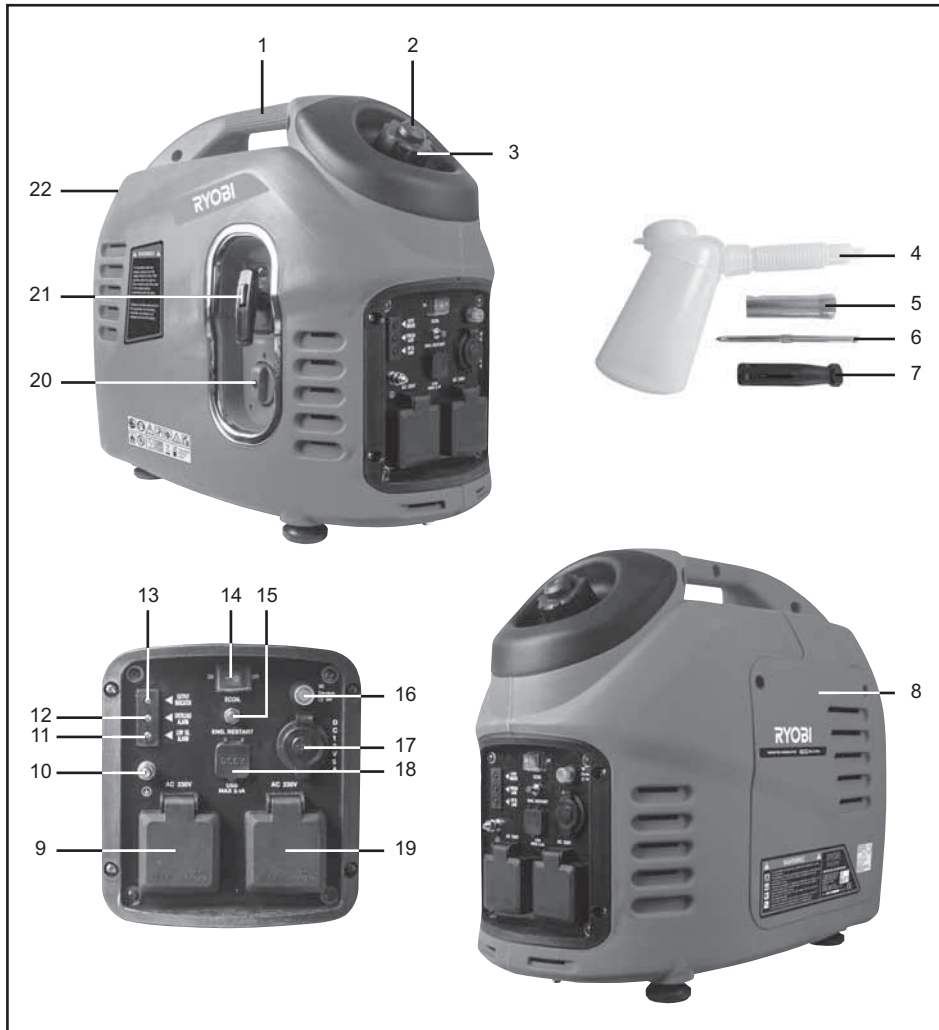
DO NOT OVER REACH

Do not over reach. Keep a proper footing and maintain your balance at all times. Avoid using abnormal stances and awkward body positions.

STAY ALERT

Watch what you are doing, use common sense, and never operate a generator when you are tired, drinking alcohol, taking drugs or if taking medication that causes drowsiness.

DESCRIPTION



- | | |
|---|--------------------------------------|
| 1. Handle | 12. Overload indicator (red) |
| 2. Fuel cap | 13. Output indicator (green) |
| 3. Fuel cap vent | 14. Economy switch |
| 4. Oil container | 15. Engine restart button |
| 5. Spark plug socket | 16. DC circuit breaker |
| 6. Screw driver | 17. 12V DC cigarette lighter socket |
| 7. Screw driver handle | 18. 5V USB socket |
| 8. Access panel (Air filter, spark plug & oil filler) | 19. AC socket 2 |
| 9. AC socket 1 | 20. Fuel tap valve and engine switch |
| 10. Earth point | 21. Recoil starter handle |
| 11. Low oil level indicator (yellow) | 22. Exhaust |

UNPACKING & ASSEMBLY

UNPACKING

Caution! This packaging contains sharp objects. Carefully unpack your generator. This generator is heavy (20kg) and may require two (2) people to lift. Remove the machine, together with the accessories supplied, from the packaging. Check carefully to ensure that the machine is in good condition and account for all the accessories listed in this manual. Also make sure that all the accessories are complete. If any parts are found to be missing, the machine and its accessories should be returned together in their original packaging to the retailer.

Do not throw the packaging away, keep it safe throughout the guarantee period, then recycle if possible, otherwise dispose of it by the proper means. Do not let children play with empty plastic bags due to the risk of suffocation.

ASSEMBLY

This generator requires no assembly, however the motor requires oil, SAE 10W-30 or SAE 15W-40, to be added to the sump before you can use, refer to the below instructions for specific details.

ADDING ENGINE OIL

WARNING! The generator is supplied without oil and must be filled before first use, failure to do so will invalidate your guarantee.

Oil capacity – approximately 400ml

Oil type – SAE 10W-30 or SAE 15W-40 4-stroke motor oil. Non-detergent or 2-stroke engine oils will damage the engine and should not be used.

Always check oil level before using.

Always use fresh clean oil.

Change oil every 50 hours or every 3 months.

If contaminated (dirty) or old (stale) oil is used any damage caused will not be covered under warranty.

NOTE: This generator is fitted with an oil cut out switch and red warning light. If the oil level is empty or low then the generator WILL NOT start or run and the low oil light will glow when the recoil is pulled.

Always check the oil level before starting the generator.

Never check or add oil while the generator is running.

1. Ensure that engine is OFF when filling oil.
2. Remove the 4 access panel screws with a screwdriver and then remove panel, Fig.1.
3. Remove the oil filler cap/dipstick, Fig 2.
4. Wipe dipstick clean and re-seat in hole; do not re-thread. Remove dipstick again and check the oil level. The oil level should fall within the



Fig. 1

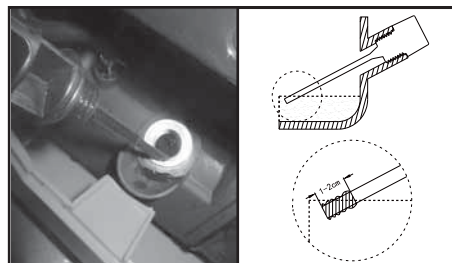


Fig. 2

level indicator area on the dipstick. If level is low, add engine oil until the fluid level rises to the upper portion of the level indicator area on the dipstick (Fig.2). Replace and secure the oil cap/dipstick and return the generator to the stand position.

WARNING! Over filling the oil can damage the generator, this damage will not be covered under warranty.

FILLING THE FUEL TANK

ONLY USE UNLEADED PETROL - NO ETHANOL

Fuel tank capacity – 4 litres (4 L)

Use of incorrect fuel and/or oil may damage the generator and will not be covered under warranty.

Do not use E10 or any type of ethanol fuel as this will damage the generator and will not be covered under warranty.

Do not use high octane fuels (greater than 91%) as this will damage the generator and will not be covered under warranty.

Use a clean approved container to store your unleaded petrol (ULP) in before decanting into the fuel tank.

DANGER! STOP engine before adding fuel. This engine is certified to operate on unleaded gasoline. Unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life.

Warning! Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

1. Remove the fuel cap (Fig.3).
2. Fill with unleaded petrol. The fuel tank should not be filled above the top of the fuel filter (Fig.4).

3. Replace and secure the fuel cap.

Petrol is extremely flammable and explosive under certain conditions.



Fig. 3

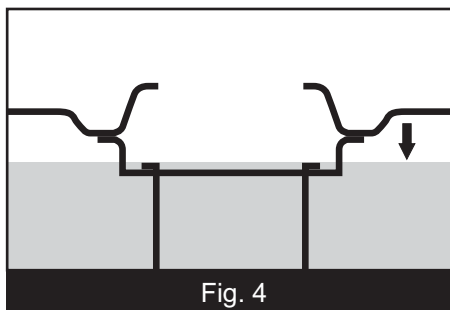


Fig. 4

Do not smoke or allow flames or sparks where the generator is refuelled or where Petrol is stored.

Refuel in a well-ventilated area.

Do not let fuel spill over the generator casing. If there is some fuel spillage, be sure that it has evaporated before starting the engine.

Avoid touching gasoline or breathing in gasoline fumes.

FUEL CAP VENT

This generator is fitted with a sealable fuel cap vent, Fig. 5.

Seal the fuel cap vent for storage or transport - rotate the lever to OFF.

For using the generator the fuel needs to breathe - rotate the lever to ON.



Fig. 5

GENERATOR 'EARTHING'

Before using this generator it must be prepared correctly before use. Locate the generator on firm level ground away from buildings or other structures ensuring that the exhaust is not obstructed.

Your generator must be properly connected to an appropriate ground to help prevent electric shock.



WARNING. Failure to properly ground the generator can result in electric shock.

A earth point connected to the frame of the generator has been provided on the power panel, Fig.6. For remote grounding, connect a length of heavy gauge (12 AWG minimum) copper wire between the generator ground terminal and a copper rod driven into the ground.

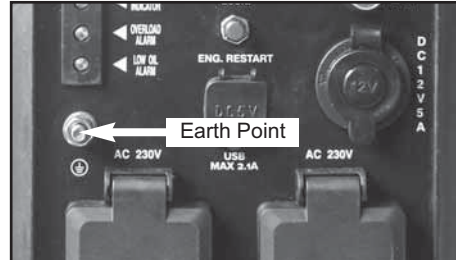


Fig. 6

We strongly recommend that you consult with a qualified electrician to ensure compliance with local electrical codes.

OPERATION

STARTING THE GENERATOR



CAUTION. Always check the oil level before starting the engine (see Page 8).

Never start your generator without a "earth" stake attached or with electrical appliances or power leads attached.

1. Turn the fuel cap vent to the ON position (Fig.5)
Note: If the fuel cap vent is not ON the generator will not operate correctly.
2. Turn the Fuel tap valve and engine switch to the CHOKE position, Fig.7.



Fig. 7

3. Hold down the generator firmly with one hand on the handle. With the other hand grip the recoil starter handle (Fig.8) and pull and return the rope gently 3-4 times to let the engine breath in the fuel mixture from the carburetor. Pull the cord sharply. Continue this procedure until the engine starts.



Fig. 8



CAUTION. Avoid damaging the plastic case of the crankshaft while pulling the rope. Always return the recoil starter cord handle slowly.

4. When the engine has been successfully started and is running smoothly turn the Fuel tap valve and engine switch to the ON position (Fig.9).



Fig. 9

OPERATION

ECONOMY SWITCH (FIG.10)

When this switch is turned on your generator will use less fuel, however only switch on when loads of less than 900W are attached. If a load is higher than 900W switch to OFF.

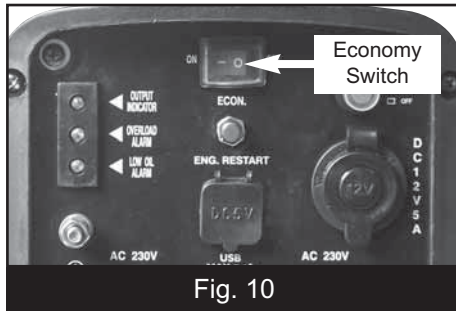


Fig. 10



WARNING! Before connecting any electrical load to the generator ensure that the load does not exceed the maximum load as stated on the rating plate.

Ensure that the mains supply lead is long enough to reach the generator without any strain. When the generator engine has been successfully started and is running smoothly connect the electrical load to the generators AC output socket.

AC OUTLET

Your generator is equipped with two 230V AC power sockets. These will run a range of devices providing they are within the limits of the generators output.

NOTE: The max (surge) power requirements of some devices e.g. Fridges, Televisions, etc; can be up to seven (7) times greater than their rated (continuous) power. Do not over load your generator. The devices wattage can be found on the data label attached to the product.

A basic guide is listed below for some common products. You can use any combination of appliances provided that you do not exceed the limits of your generator. For this generator never exceed 1650W in total when combining multiple different appliances.

NOTE: When using multiple devices only start one device at a time.

YOUR GENERATOR AC LIMITS

Rated (continuous) power - 1750W

Max (surge) power - 2100W

Note: Long extension leads may reduce the effectiveness of your generators supply power.

Suggested Device	Maximum Wattage	Suggested Wattage
Bayonet/Screw in globes (home use)	Up to 1750W	Max. of 35 x 50W globes
Florescent tubes	Up to 1200W	Max. of 60 x 20W globes
Halogen lights	Up to 1300W	
Power tools	Up to 1300W	
Laptop computer	Up to 700W	
DVD/Video players	Up to 450W	
Portable television	Up to 150W	
Portable television & DVD/Video player combination	Up to 800W	
AC/DC Camping fridge	Up to 150W	
Cooling fans	Up to 500W	
Heating	Up to 1000W	
Radio/CD player	Up to 1200W	
ipod/MP3 player	Up to 1400W	
Mobile phone charging	Up to 900W	
Hand held games charging	Up to 900W	

You can use any combination of appliances provided that you do not exceed the limits of your generator. For this generator never exceed 1650W in total when combining multiple different appliances.

OPERATION

USING THE AC OUTLET

1. Check that the only illuminated light is the green output power.
2. Lift the flap and plug your appliance into the AC outlet socket on the face plate.
3. Turn the appliance on and use as per the manufacturers manual.
4. When finished turn your appliance off.
5. Disconnect appliance from the generator and the flap should close automatically.

NEVER leave any appliances plugged into your generator, always disconnect when appliance is not in use.

STOPPING THE GENERATOR



WARNING. Never stop your generator with electrical appliances or power leads attached. Always remove power leads and appliances before stopping your generator.

1. Allow generator to run for 1-2 minutes, this allows the generator to cool down.
3. Switch economy switch to OFF.
4. Switch fuel valve tap and engine switch to OFF, Fig.11.



Fig. 11

OUTPUT INDICATOR LIGHT

Output indicator light (green) will remain ON during operation. However if it goes out and the red light comes then you have overloaded the generator, see the following and page 11.

SAFETY DEVICES

AC OUTLET

Your generator is equipped with an output indicator light. When this light goes out and the red light illuminates, then the generator will produce NO POWER.

To restart the power supply;

1. Remove the appliance. Check wattage, page 11.
2. Stop the generator.
3. Wait 2 minutes.
4. Start generator, see page 10, ensure the green output indicator light is illuminated.
5. Re-attach the appliance.
6. If the output indicator light goes out and the red light glows, the output power stops then the attached appliance is either faulty or the appliance's required power is greater than the generator's output, check the appliances wattage requirements. Page 11.

12V DC OUTLET

Your generator is equipped with a DC output circuit breaker. This circuit breaker will "pop" out if the attached appliance is either faulty or the appliance's required power need is greater than the generator's DC power output.

To reset the circuit breaker and restart the power supply;

1. Remove the appliance.
2. Stop the generator.
3. Wait 2 minutes.
4. Push the circuit breaker back in, it should stay in. If not the circuit breaker is still over heated, allow to cool down for another 2 minutes before trying again to push it in.
5. Start generator.
6. Re-attach the appliance.
7. If the circuit breaker "pop's" out again and the power stops then the attached appliance is either faulty or the appliances required power is greater than the generators output, check the appliances power requirements.

OPERATION

DC BATTERY CHARGING FUNCTION

This function is applicable to 12V battery charging only.

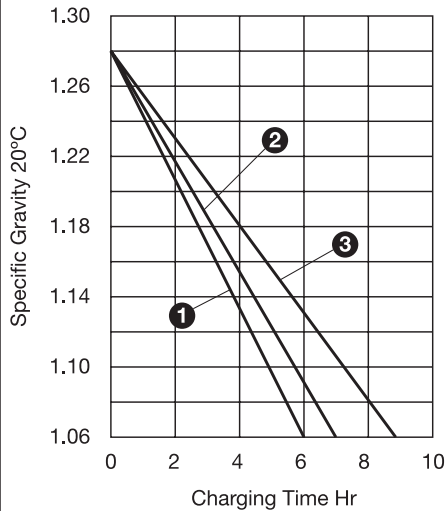
Disconnect the leads from the battery.

Loosen the vents on the battery.

Make sure the battery fluid level is correct

Using a hydrometer measure the specific gravity of the battery fluid and calculate the charging time in accordance with the table shown, Fig 12.

Aim for specific gravity and charging time



Battery	Battery Capacity
30Ah	20Hr
35Ah	20Hr
47Ah	20Hr

Fig. 12

Attach the 12v charging leads to the battery observing correct polarity (Red = + Positive) (black = - Negative).

Plug the 12v charger lead into the socket on the generator, Fig 13.

The specific gravity for the fully charged battery shall be within 1.26 to 1.28. It is advisable to check the specific gravity every hour.

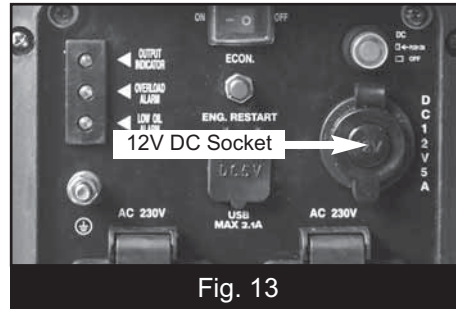


Fig. 13

LOW OIL LEVEL INDICATOR LIGHT

If the oil level in the motor sump drops to a dangerously low level then the oil light, yellow, will flicker and the generator will automatically stop.

If the oil level in the motor sump is dangerously low, then the generator will not start, however the low oil light, yellow, will flicker only when the recoil starter is pulled.

If your generator will not start always check the oil level first.

To add oil or check the oil level, refer page 8.

OVERLOAD INDICATOR LIGHT

This indicator light is on when the generator is overloaded, check attached products power, refer to page 11.

When the overload indicator is on and there is no output power at socket you can press the "engine restart" button to quickly restart the engine, Fig.14.

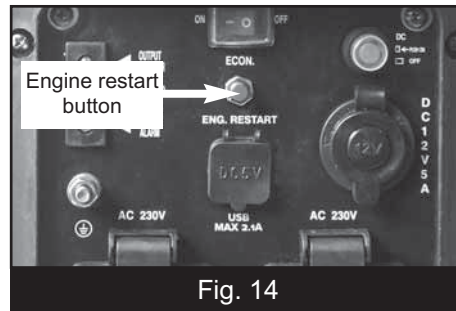


Fig. 14

MAINTENANCE

GENERAL MAINTENANCE

Keep the generator in a clean and dry environment where it is not exposed to dust, dirt, moisture, or corrosive vapours.

Do not allow the cooling air slots in the generator to become clogged with foreign material such as leaves, snow, etc.

Do not use a garden hose to clean the generator. Water entering the fuel system or other internal parts of the unit can cause problems that will decrease the life of the generator.

To clean the unit:

1. Use a soft bristle brush and/or vacuum cleaner to loosen and remove dirt and debris.
2. Clean air vents with low pressure air that does not exceed 25 psi.
3. Wipe the exterior surfaces of the generator with a damp cloth.

SPARK PLUG MAINTENANCE

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

Remove the 4 access panel screws with a screwdriver and then remove panel, Fig.15.

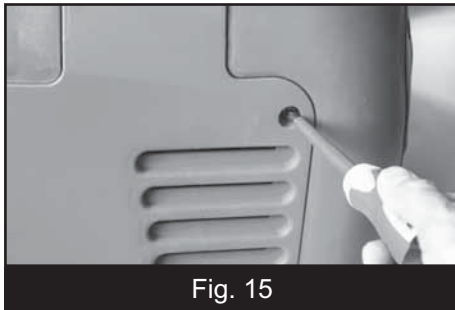


Fig. 15

Pull the HT lead off the spark plug, Fig 16, and clean any dirt from around the spark plug base. Using the spark plug socket supplied remove the spark plug, Fig 17.

Inspect spark plug for damage, and clean with a wire brush before reinstalling. If insulator is cracked or chipped, spark plug should be replaced. Make sure electrode gap is 0.60mm-0.80mm.

NOTE: If replacing, use the following recommended spark plug: ER6C.



Fig. 16



Fig. 17

Screw spark plug back by hand, avoid damaging threads of the cylinder.

Put the spark plug back in position and use the spark plug wrench to tighten it. If spark plug is new, use 1/2 turn to compress washer appropriate amount. If reusing old spark plug, use 1/8 to 1/4 turn for proper washer compression.

Replace spark plug cap.

Reinstall the spark plug maintenance cover and secure with the 4 screws.

Warning! Spark plug must be assembled firmly, or it will become hot and may damage generator.

A loose spark plug can overheat and damage the engine.

CLEANING THE EXHAUST PORT & MUFFLER

Depending on the type of fuel used, the type and amount of oil used, and/or your operating conditions, the exhaust port and muffler may become blocked with carbon deposits. If you notice a power loss with your petrol-powered tool, you may need to remove these deposits to restore performance. We highly recommend that only qualified service technicians perform this service.

MAINTENANCE

CHECKING/CLEANING THE AIR FILTER

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

1. Remove the 4 access panel screws with a screwdriver and then remove panel.
2. Loosen the air filter screw and remove the air filter panel (Fig.18 & 19).
3. Remove the air filter (Fig.20).
4. If the filter element is dirty, clean with warm, soapy water. Rinse and let dry.
5. Apply a light coat of engine oil to the elements, then squeeze it out.
6. Replace the elements into the air filter box.
7. Replace air filter cover and tighten the air filter screw.
8. Replace the access panel and tighten the 4 access panel screw.

NOTE: Do not run the generator without the air filter. Rapid engine wear will result.

ENGINE OIL REPLACEMENT

1. Remove the 4 access panel screws with a screwdriver and then remove panel.

Note: Drain the used oil while the engine is warm. Warm oil drains quickly and completely.

2. Place a suitable container under the engine to catch the used oil. Remove the oil filler cap and pour out the old oil into the container.
3. With the engine in a horizontal position, fill to the top of the oil filler neck with the recommended oil.
4. Replace the oil filler cap then reinstall the access panel and tighten the panel screws securely.

Note: Improper disposal of engine oil can be harmful to the environment. If you change oil please dispose of it properly. Put it in a sealed container and take it to a recycling centre. Do not discard it in household waste, dump it on the ground or pour it down a drain.

FUEL TANK FILTER

After every 100 hours of running or every 6 months the fuel tank filter should be removed and cleaned.



Fig. 18



Fig. 19



Fig. 20

Remove the fuel cap and the filter, clean the filter thoroughly using an environmentally friendly water based degreasing agent and re-fit.

MAINTENANCE

DRAINING THE CARBURETOR

1. Place a container underneath the generator
2. Unscrew the draining bolt of the carburetor and let the fuel pour into the container.

STORAGE

If the generator is not to be used or is to be stored for more than one month the following storage procedure should be carried out. Drain all the fuel from the fuel tank and the carburetor, ensure that all the fuel has been drained.

Remove the spark plug and pour approximately one tablespoon full of clean engine oil into the spark plug hole.

With the ignition turned OFF gently pull on the recoil starter cord several times. Re-fit the spark plug and continue to pull the recoil starter cord until the piston is on the compression stroke (when resistance is felt) then stop pulling.

Store the generator in a dry well ventilated place under a cover to prevent any dust or debris from accumulating on the generator.

When preparing the generator for storage, follow the guidelines below.

PLEASE NOTE:

If using for a caravan, motor home or boat etc refer to the manufacturers manual regarding connection of a generator.
Do **NOT** connect into a house ring main circuit.

STORAGE

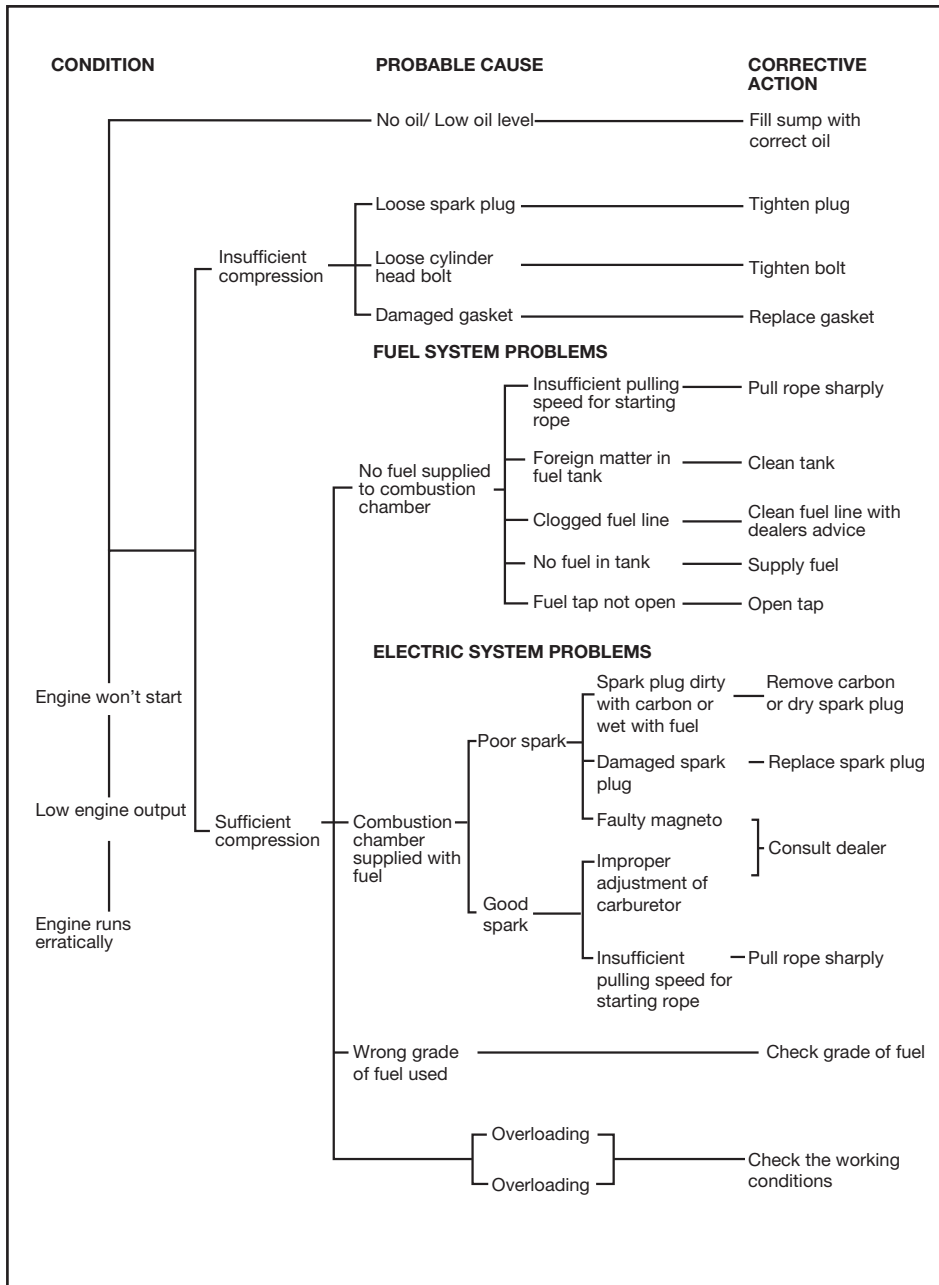
STORAGE TIME	PRIOR TO STORING
Less than 1 month	<ul style="list-style-type: none"> ■ No special preparation is required.
1 to 2 months	<ul style="list-style-type: none"> ■ Empty fuel from fuel tank.
2 months to 1 year	<ul style="list-style-type: none"> ■ Empty fuel from fuel tank. ■ Drain fuel from carburetor. ■ Clean fuel sediment cup.
1 year or more	<ul style="list-style-type: none"> ■ Empty fuel from fuel tank. ■ Drain fuel from the carburetor. ■ Clean fuel sediment cup. ■ Remove spark plug. ■ Put a tablespoon of engine oil into the cylinder through the spark plug hole. Turn the engine slowly with the pull rope to distribute the oil. ■ Reinstall spark plug. ■ Change engine oil.
<p><small>*Use unleaded fuel stabilisers formulated to extend storage life. For recommendations, contact your nearest authorised service center.</small></p>	

MAINTENANCE CHART

Item	Remark	Pre-operation check (daily)	Initial 1 month or 20hours	Every 3 month or 50 hours	Every 6 month or 100 hours	Every 12 month or 300 hours
Spark plug	Check condition Adjust gap and clean Replace if required			●		
Engine oil	Check oil level Replace	●	●		●	
Air filter	Clean. replace if required			●		
Fuel Filter	Clean fuel cock filter Replace if required				●	
Valve clearance	Check and adjust when engine is cold					●
Fuel line	Check fuel hose for cracks or damage. Replace if required	●				
Exhaust system	Check for leakage. Tighten or replace gasket if required.	●				
	Check exhaust screen. Clean and replace if required.				●	
Carburetor	Check choke operation	●				
Cooling system	Check fan damage					●
Starting system	Check recoil starter operation	●				
Decarbonisation	More frequently if necessary					●
Fittings/ Fastenings	Check all fittings and fixtures and tighten if required				●	

The figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not the actual level of exposure of the workroom, the other sources of noise etc. i.e. the number of machines and the adjacent processes and the length of time for which an operator is exposed to the noise. Also the permissible exposure level can vary from country. This information however, will enable the user of the machine to make a better evaluation of the hazard and risk. The supplier recommends the use of ear protection at all time.

FAULT CHART




















FAULT CHART




CONDITION	PROBABLE CAUSE	CORRECTIVE ACTION
Indicator light ON. No AC output	Tripped circuit breaker	Reset
	Poor connection or faulty lead	Check and repair
	Broken recepticle	Check and repair
	Faulty circuit breaker	
Indicator light OFF. No AC output	Generator problem	
Output power too high or low	Engine RPM set too high or low	No load speed set to 3000rpm
	Loose component	Locate and tighten
	Internal generator problem	Consult dealer

SYMBOLS

Some of the following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

SYMBOLS	DESIGNATION/EXPLANATION
	Do not expose to rain or use in damp locations.
	To reduce the risk of injury, the user must read and understand the operator's manual before using this product.
	Always wear safety goggles or safety glasses with side shields and, as necessary, a full face shield when operating this product.
	Precautions that involve your safety.
	Failure to use in dry conditions and to observe safe practices can result in electric shock.
	Running the generator gives off carbon monoxide, an odourless, colourless, poison gas. Breathing carbon monoxide can cause nausea, fainting, or death.
	Fuel and its vapours are extremely flammable and explosive. Fire or explosion can cause severe burns or death.
	To reduce the risk of injury or damage, avoid contact with any hot surface.
	To reduce the risk of serious injury, avoid attempting to lift the generator alone.
	Consult with local electrician to determine grounding requirements before operation.
	Add oil.
	Guaranteed sound pressure level and sound power level.
	Beware of electric shock level.
	Fuel and its vapors are explosive and can cause severe burns or death.
	Oil level should fall within the level indicator area on the dipstick.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Conforms to relevant safety standards.

SYMBOLS

SYMBOL	SIGNAL	MEANING
	DANGER:	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SERVICE

Now that you have purchased your tool, should a need ever exist of repair or service, simply contact your nearest Ryobi Authorised Service Centre or other qualified service organisation. Be sure to provide all pertinent facts when you call or visit.

NOTES

NOTES

**RYOBI POWER EQUIPMENT
WARRANTY**

Subject to the warranty conditions below, this RYOBI tool (hereinafter called "the Product"), is warranted by Ryobi (herein called "the Company") to be free from defects in material or workmanship for a period of 24 months from the date of original purchase covering both parts and labour. Under the terms of this warranty, the repair or replacement of any part shall be the opinion of the Company or its authorised agent. Should service become necessary during the warranty period, the owner should contact the authorised Ryobi retailer from whom the product was purchased, or the nearest Company branch office. In order to obtain warranty service, the owner must include the Sales Docket and Warranty Certificate to confirm date of purchase. This Product is sold by the dealer or agent as principal and the dealer has no authority from the Company to give any additional warranty or guarantee on the Company's behalf except as herein contained or herein referred to.

Warranty Conditions

This warranty only applies provided that the Product has been used in accordance with the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such warranty does not cover consumable components, damage, malfunction or failure resulting from

misuse, neglect, abuse, or used for a purpose for which it was not designed, or is not suited and no repairs, alterations or modifications have been attempted by other than an Authorised Service Agent. This guarantee will not apply if the tool is damaged by accident or if repairs arise from normal wear and tear.

Accessories such as bits, blades, sanding discs, cutting lines, etc., are excluded from this guarantee. Normal consumable parts, such as carbon brushes, bearings, chucks, cord assembly's, spark plugs, recoil pulleys and bump head assembly's are specifically excluded from this guarantee.

The Company accepts no additional liability pursuant to this warranty for the costs of traveling or transportation of the Product or parts to and from the service dealer or agent - which costs are not included in the warranty.

Nothing herein shall have the effect of excluding, restricting or modifying any conditions, warranty, right or liability imposed, to the extent only that such exclusion, restriction or modification would render any term herein void.



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email: stevens@ryobi.co.za

**THIS WARRANTY FORM
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.**

For your record and to assist in establishing date of purchase (necessary for in-warranty service), please keep your purchase docket and this form, completed with the following particulars.

PURCHASED FROM:.....

ADDRESS OF DEALER:.....

DATE:..... MODEL NO..... SERIAL NO.....

Present this form with your Purchase Docket when Warranty Service is required.