



INSTRUCTIONS FOR:

GENERATOR INVERTOR 1000W 230V



MODEL No: **G1000I**





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Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

  **IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.**

1. SAFETY

- WARNING! Ensure any Health & Safety, Government, or local authority regulations are adhered to when using this equipment.**
- ✓ Familiarise yourself with the application and limitations, as well as the potential hazards of the generator.
- ✓ Maintain the generator in good condition (use an authorised service agent). Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ This generator is designed and manufactured for specific applications. **DO NOT** attempt to modify the unit or use it for any application for which it is not designed. If you have any questions regarding the application of the unit please contact your local Sealey dealer.
- ✓ Operate the generator only on level surfaces (maximum allowable tilt is 10°) and where it will not be exposed to excessive moisture, dirt, corrosive vapours or be in the proximity of combustible material (flammable liquids, solids or gases).
- ✓ Remove ill fitting clothing, ties, watches, rings and other loose jewellery and contain long hair. Wear appropriate protective clothing.
- ✓ Keep non-essential persons away from the working area.
- ✗ **DO NOT** use the generator for any purpose other than that for which it is designed.
- ✗ **DO NOT** operate the generator if any parts are missing or damaged, as this may cause failure and/or personal injury.
- ✗ **DO NOT** over-fill fuel tank. Always leave space for fuel to expand.
- ✗ **DO NOT** operate in wet conditions.
- ✗ **DO NOT** operate the generator when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** store the generator with fuel in the tank where petrol vapours might reach an open flame or spark.
- WARNING! DO NOT exceed the Wattage/Amperage capacity of the generator.** Add the rated wattage of all devices intended for single connection. The total must not exceed rated wattage of generator (see specification). In most cases the rated wattage of an electrical device can be found on the nameplate. If the nameplate only gives voltage and amperage, multiply the two to give rated wattage (Volts x Amps = Watts) **DO NOT** run at a power output between continuous and maximum for more than 15minutes.
- WARNING!** Generator exhaust gases contain deadly carbon monoxide which must not be inhaled. Always allow sufficient ventilation.
- WARNING!** If you decide to use an Earth Leakage Circuit Breaker (also referred to as an RCD or Ground Fault Circuit Interrupter), it is imperative that the neutral end of the power winding is connected to the frame of the generator set and that the earth connector on the frame is connected with a low impedance connector to the local earth via an earth spike or local protective earth conductor. This connection should only be attempted by a qualified electrician, after first having consulted your local Sealey dealer.
- WARNING!** Petrol is highly flammable and petrol vapour is explosive. **DO NOT** permit smoking, naked flames, sparks or heat in the vicinity when handling petrol. Avoid spilling petrol onto a hot engine. Comply with all laws regulating storage and handling of fuels.
- WARNING! DO NOT** refuel when the engine is running or when the engine is hot. Allow time for the engine to cool down.
- WARNING! DO NOT start or stop the generator while electrical loads are connected and switched on. Start the engine, let it stabilise, then connect the electrical load. To stop engine, disconnect the electrical load and let engine stabilise before switching off.**
- WARNING! DO NOT use worn, bare, frayed or otherwise damaged electrical cables with the generator. To do so may result in electric shock.**
- ▲ **DANGER!** This generator is designed for outdoor use only. To use the generator inside any building or enclosure, including the generator compartment of a caravan, may result in fire or explosion. No user-performed modifications, including venting of the exhaust and/or cooling ventilation, will eliminate the danger.
- ▲ **DANGER! If this unit is used for back-up power in the event of a commercial power failure, the following steps must be taken: The connections from standby power to a building electrical system must be carried out by a qualified electrician complying with all laws and regulations. Before connecting the generator to the electrical system, open the main circuit breaker to isolate the generator and system from the commercial electrical supply. Failure to do this may result in damage to the generator and may result in serious injury or fatality, due to a back-feed of electrical energy.**
- ▲ **DANGER!** The generator produces a very powerful voltage that can cause a severe electrical shock. Avoid contact with bare wires, terminals etc. **DO NOT** allow any unqualified person to operate or service the generator.
- ▲ **DANGER! DO NOT tamper with the engine governed speed setting. Higher operating speeds are dangerous and increase the risk of personal injury and/or equipment damage. The generator supplies the correct rated frequencies and voltages only when running at the correct governed speed. Incorrect frequency and/or voltage can damage some connected electrical loads. Operating at excessively low speeds may result in shortened engine life. Over-speeding will invalidate the warranty.**

2. INTRODUCTION

Digital inverter technology provides stable 'clean' output making the unit suitable for use with sensitive electrical equipment. Smart throttle sensor automatically adjusts the engine speed to precisely match the load, which allows the generator to run quieter whilst increasing fuel efficiency and lengthening engine life. Electronic ignition and a light pull recoil for easy start up. Supplied with electric circuit breaker. Fitted with 1 x 230V socket.

3. SPECIFICATION

Engine Power:	1.kw/1.47hp	Fuel Tank Capacity:	3.5ltr
Motor Type:	2-Stroke Petrol	Fuel:	Unleaded 95 RON
Output:	230V - 50Hz	Maximum Running Time:	3.2hr
Current Rating (continuous):	3.6A	Noise Rating:	60dB @ 7mtr
Continuous Power Rating:800W	Dry Weight:	8.5kg
Maximum Power Rating:	1000W	Dimensions (L x W x H):	300 x 240 x 330mm

4. PREPARATION

4.1. UNPACKING

Remove generator from packaging and inspect for any shortages or damage. If anything appears to be missing or damaged, contact your Sealey dealer.

5. OPERATION

- ❑ **WARNING!** Before use, ensure you read, understand and comply with the safety instructions in this document. Ensure you understand the application and limitations fully, as well as the potential hazards of the generator.
- ❑ **WARNING!** Never connect the generating set earth lead to pipes. Pipes may carry inflammable substances such as gas or domestic fuel and there is a risk of fire or explosion in the event of a short circuit.
- ❑ **WARNING!** Never run the engine without an air filter fitted.

PRE START-UP OF THE GENERATOR

- ✓ Check the air filter element to ensure it is clean and in good condition, clean or replace as necessary (see section 6.2).

5.1. FILLING WITH FUEL/OIL MIXTURE

- ❑ **WARNING!** NEVER refuel when the engine is running or when the engine is hot. Allow time to cool down
- ❑ **WARNING!** Petrol is highly flammable and petrol vapour is explosive.

- 5.1.1. Ensure the generator set is on a flat horizontal surface strong enough to prevent it from sinking.
- 5.1.2. If earthing the generator, connect one end of the earth lead to the chassis earthing terminal (fig.1) and the other to a low impedance earthing spike.
- 5.1.3. Ensure all electrical loads are disconnected.
- 5.1.4. Prepare fuel/oil mixture by mixing at a ratio of 50:1 = fuel:oil.
- 5.1.5. Remove the fuel tank filler cap, check the level of the fuel and refill with the recommended fuel if necessary.
- 5.1.6. Do not over-fill the fuel tank, always leave room for the fuel to expand.

5.2. STARTING THE GENERATOR

- ❑ **WARNING!** The output sockets will be live once the engine has started.
- 5.2.1. Ensure you have performed all actions in 5.1 above.
 - 5.2.2. Move the choke lever to the CLOSED position (fig.2).
- Note:** If starting a warm engine or when the ambient temperature is high, move the choke control to the OPEN position.
- 5.2.3. Press the fuel primer bulb 10 times to fill the carburettor. The bulb is to be found on the underside of the carburettor body (fig.3).
 - 5.2.4. Set the On/Off Switch to the I position (fig.4).
- Note:** Ensure there is sufficient free space behind to prevent personal injury when pulling the pull start.
- 5.2.5. Grasp the pull start handle (fig.2) and pull slowly until some resistance is felt. Let it rewind slowly, then pull with a rapid full arm stroke. Let the pull start return slowly.
 - 5.2.6. When engine starts, move the choke lever to half choke position until engine runs smoothly and then to the OPEN position.
 - 5.2.7. If engine fails to start, repeat the procedure from 5.2.5. If it still will not start, refer to 'Trouble-Shooting' section. If necessary contact your authorised Sealey service agent.

5.3. USING THE GENERATOR

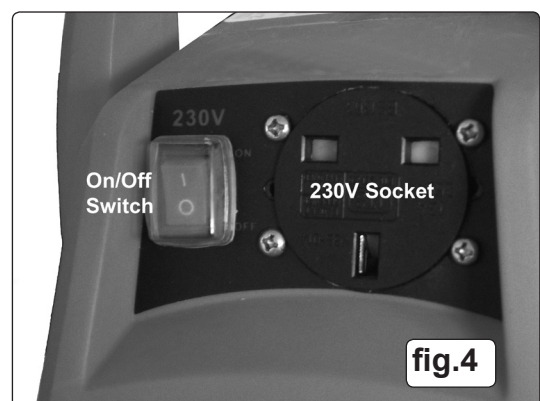
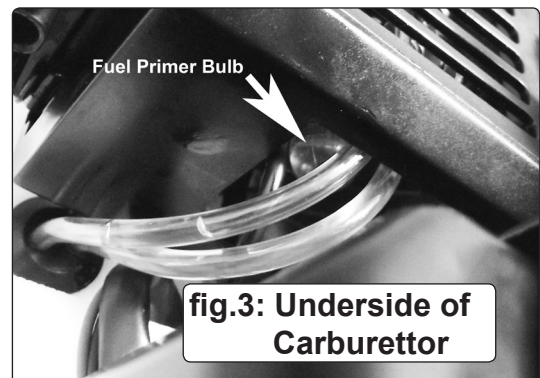
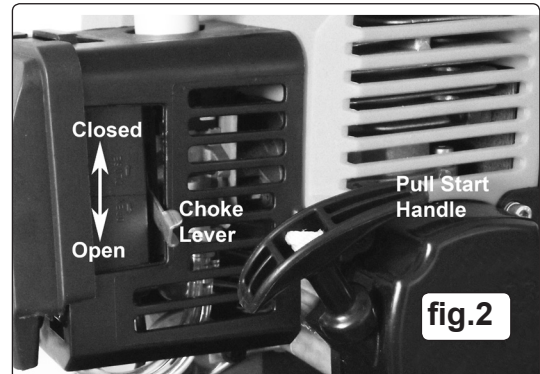
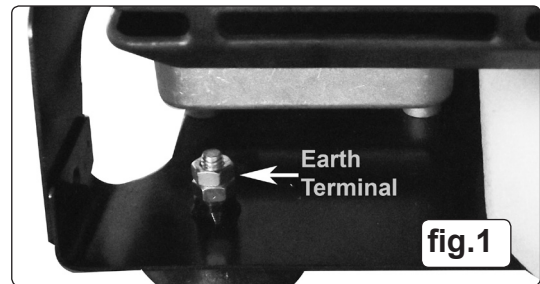
- ❑ **WARNING!** Do not exceed the wattage capacity of the generator.
- 5.3.1. Allow the engine to warm up (approximately 3 minutes).
 - 5.3.2. Connect the equipment to the generator socket.
 - 5.3.3. Always observe the safety instructions for the equipment being used.
 - 5.3.4. Carry out the following checks whilst the generator is in use:
 - Is there any vibration or abnormal noise?
 - Is there any backfiring or is the engine not running smoothly?
 - What colour is the exhaust gas? (Is it black or too white.)
 - 5.3.5. If you notice any of the above points stop the generator (paragraph 5.5) and contact your local Sealey dealer.

5.4. Overload Indicator Light (fig.5)

- 5.4.1. The overload indicator light will show steady red if the generator is overloaded (in excess of 1000W) or the connected appliance is short-circuited.
- 5.4.2. The light will stay lit for about 4 seconds, after which time the generator output will be disconnected.
- 5.4.3. The overload indicator light will then flash red until the generator is switched off.

5.5. TO STOP THE GENERATOR

- 5.5.1. Disconnect the electrical load.
- 5.5.2. Allow the engine to run unloaded for 1 - 2 mins.
- 5.5.3. Stop engine by moving the On/Off switch to the 0 position (fig.3).



6. MAINTENANCE

6.1. GENERAL MAINTENANCE SCHEDULE

- WARNING!** All maintenance work is carried out when the engine is stopped. If the engine must run, ensure that the working area is well ventilated. Exhaust gases contain carbon monoxide; exposure to this toxic gas can cause loss of consciousness and can be fatal.
- WARNING!** If the engine has just been running, the muffler will be very hot, take care not to touch it.
- ✓ Ensure the spark plug HT lead has been disconnected prior to commencing maintenance.
- ✓ All other maintenance must be carried out by qualified persons, contact your local Sealey service agent.

Item	Remarks	Every 50hrs or Monthly	Every 150hrs or 3 Monthly
Spark Plug	Remove carbon		
	Adjust gap	✓	✗
	Replace if necessary		
Air Filter	Clean	✗	✓
	Replace if necessary		
Fuel Filter	Clean	✗	✓
	Replace if necessary		

6.2. MAINTAINING THE AIR FILTER (fig.6 & 7)

Note: If the air filter is dirty, air passing towards the carburettor will be restricted. To avoid the carburettor from malfunctioning, clean the air filter regularly. Clean more often when the engine is used in extremely dusty environments.

- WARNING!** Never use fuel or solvent to clean the foam element. This can cause a fire or an explosion.

- 6.2.1. Unclip the air filter cover as in fig.6 and remove the foam filter as in fig.7.
- 6.2.2. Carefully check the element for tears or holes and replace if damaged.
- 6.2.3. Clean the element using compressed air. Replace the element if it is very dirty.
- 6.2.4. Wash the foam element in household detergent diluted in warm water, rinse with plenty of water and dry thoroughly.
- 6.2.5. Dip the foam element into some clean engine oil and press out to remove any excess oil.

Note: The engine will start smoking during the first start up if too much oil is left on the foam.

- 6.2.6. The refitting procedure is the reverse of the above.

6.3. MAINTAINING THE SPARK PLUG

- WARNING!** If the engine has just been running, the muffler and the spark plug will be very hot; allow them to cool.
- WARNING!** The spark plug must be correctly tightened. If the plug is not well tightened, it can overheat and damage the engine.

Note: To ensure that the engine performs correctly, the spark plug must not have any deposits on it and its gap must be correct.

- 6.3.1. To remove the spark plug: pull the cap off as in fig.8 and unscrew the spark plug using the supplied wrench.
- 6.3.2. Inspect the spark plug and discard it if the electrodes are worn or if the porcelain is cracked or scaled. If the spark plug is to be re-used, clean with a wire brush.
- 6.3.3. Measure the electrode gap using a feeler gauge. The gap must be between 0.5mm and 0.7mm (fig.9). Adjustment of the gap can be achieved by bending the side electrode.
- 6.3.4. Check the spark plug washer is in good condition and screw the plug in by hand to avoid cross threading.
- 6.3.5. Once the spark plug is installed, tighten it using the spark plug wrench to compress the washer.

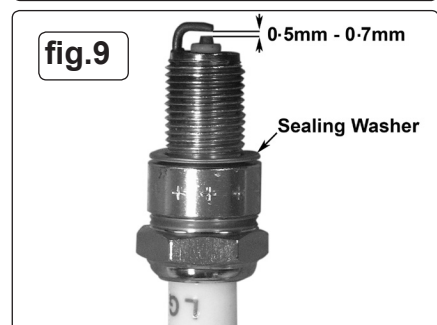
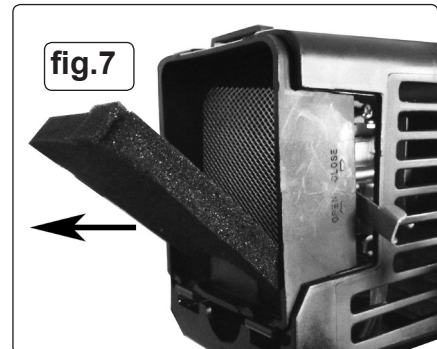
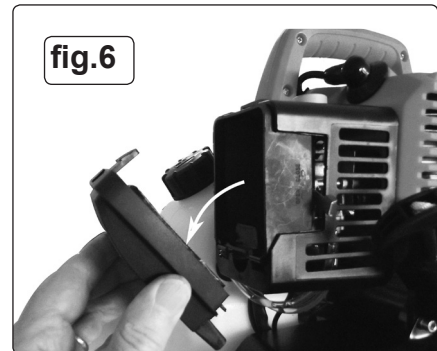
Note: In the case of a new spark plug being fitted, screw it in by hand and tighten it by 1/2 turn with a spark plug wrench to compress the washer. If the spark plug has already been used, screw it in by hand and only tighten it by 1/8 to 1/4 turn to compress the washer.

6.4. MAINTAINING THE FUEL FILTER

- 6.4.1. A fuel filter is fitted to the fuel pick-up pipe in the fuel tank.
- 6.4.2. To clean the filter; hook the pick up pipe out of the tank carefully and remove the filter basket.
- 6.4.3. If available, use an air line to blow the filter basket out.
- 6.4.4. Replace the filter to the pick-up pipe and replace it in the tank.

6.5. CLEANING THE GENERATOR

- 6.5.1. Clean the generator using a brush and cloth. Remove dust and debris around the exhaust muffler and the cooling fins.
- WARNING!** DO NOT use a jet wash or get the generator wet.
- 6.5.2. Clean the engine and alternator air inlets and outlets. Make the most of this cleaning by checking the general condition of the generator and change any defective or worn parts.



7. TRANSPORTATION AND STORAGE

- ❑ **WARNING!** Petrol is highly flammable and petrol vapour is explosive. **DO NOT** permit smoking, naked flames, sparks or heat in the vicinity when handling petrol. Avoid spilling petrol onto a hot engine. Comply with all laws regulating storage and handling of fuels.

7.1 TRANSPORTATION

- 7.1.1 **DO NOT** overfill the fuel tank.
 7.1.2 **DO NOT** operate the generator whilst it is inside a vehicle. Remove it from the vehicle and operate it in a well-ventilated area.
 7.1.3 To prevent fuel spillage during transportation, the generator should be secured in an upright position.

7.2 STORAGE

- 7.2.1 Prior to storing the generator for a prolonged period, ensure that the storage area is free of excessive humidity and dust.
 7.2.2 Drain the fuel completely from the tank into an approved container.

8. TROUBLESHOOTING

FAULT	CAUSE	ACTION
Engine will not start	No fuel in tank Engine switch is not switched on Choke set incorrectly Spark plug fouled Air cleaner blocked Fuel filter blocked	Replenish fuel tank Set engine switch correctly Set choke lever correctly Clean/replace spark plug Clean/replace air filter Clean fuel filter
Engine does not run smoothly	Air cleaner blocked Spark plug fouled Choke set incorrectly Contaminated or stale fuel	Clean/replace air filter Clean/replace spark plug Set choke lever correctly Drain and replace fuel



Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or telephone 01284 757500.

Environmental Protection



Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.



WEEE Regulations

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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