



INSTRUCTIONS FOR:

GENERATOR INVERTER 1050W/2000W 230V

MODEL No's: **G1050I, G2000I**

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.
- ❑ **WARNING! DO NOT exceed the Wattage/Amperage capacity of the generator.** Add rated wattage of all devices intended for connection at any one time, the total must not exceed rated wattage of generator (see specifications).
- ❑ **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 earth connector on the machine 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 dealer.**
- ▲ **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 an 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: before connecting the generator to the electrical system, open the main circuit breaker to isolate the generator and system from the commercial electric supply. Failure to do this may result in damage to the generator and may result in serious injury or fatality, owing 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. Never allow any unqualified person to operate or service the generator.**
- ❑ **WARNING! Petrol is highly flammable and petrol vapour is explosive. Do not permit smoking, naked flames, sparks or heat in the vicinity while handling petrol. Avoid spilling petrol onto a hot engine. Comply with all laws regulating storage and handling of fuels.**
- ❑ **WARNING! NEVER refuel when the engine is running or when the engine is hot. Allow cool down time.**
 - ✓ Operate the generator only on level surfaces (maximum allowable tilt is 10°) and where it will not be exposed to excessive moisture, dirt or 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.
- ❑ **WARNING! Never start or stop the generator while electrical loads are connected. 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.**
- x **DO NOT** use the generator for any purpose other than that for which it is designed.
- x **DO NOT** operate the generator if any parts are missing or damaged, as this may cause failure and/or personal injury.
- x **DO NOT** over-fill fuel tank. Always leave room for fuel to expand.
- x **DO NOT** operate in the rain.
- ▲ **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 voltage 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.**
- x **DO NOT** operate the generator when you are tired, or under the influence of alcohol, drugs or intoxicating medication.
- x **DO NOT** store the generator with fuel in tank where petrol vapours might reach an open flame or spark.

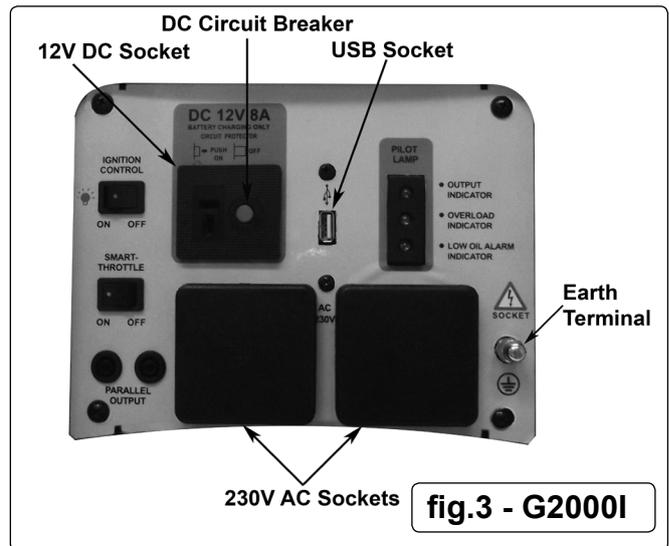
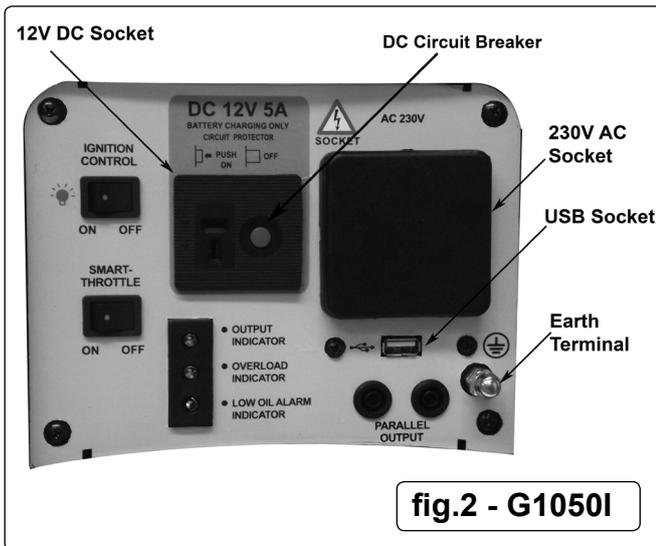
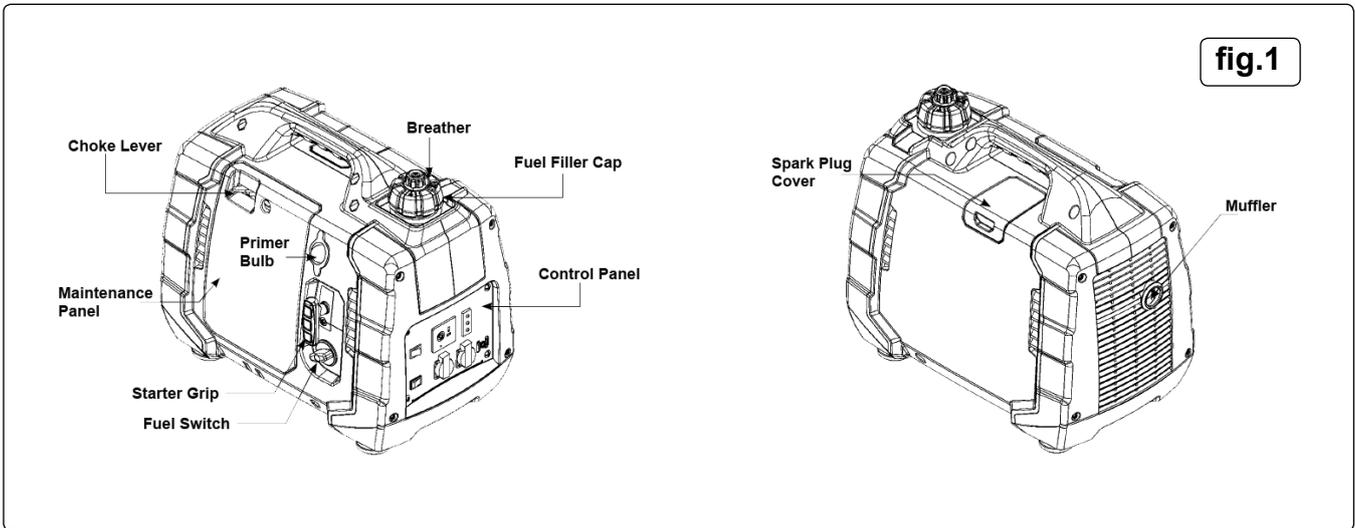


2. INTRODUCTION

Digital inverter technology provides stable 'clean' output making these units 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. Starts easily with a light pull recoil start. Fitted with brushless alternator and electronic ignition for easy maintenance. Supplied with electric circuit breaker. 3 LED display panel to indicate output, overload and low oil alarm. Fitted with 230V socket (x2 on G2000I) and 12V battery charging outlet. Low oil cut-out and overload protection.

3. SPECIFICATION

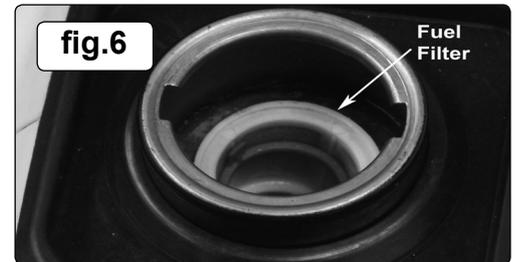
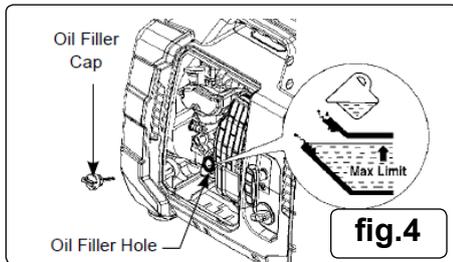
Model No:	G1050I	G2000I
Engine Power:	1.3kW/1.7hp	2.2kW/2.9hp
Engine Type:	4-Stroke Petrol	4-Stroke Petrol
Fuel:	Unleaded 95 RON	Unleaded 95 RON
Output:	230V-50Hz/12V DC/5V USB	230V-50Hz/12V DC/5V USB
Current Rating:	3.9A/5A	6.96A/8A
Continuous Power Rating:	900W	1600W
Maximum Power Rating:	1050W	2000W
Fuel Tank Capacity:	3.2ltr	5.4ltr
Maximum Running Time:	3.7hrs	4.2hrs
Noise Rating (± 5%)	65 ± 5dB @ 7mtrs	65 ± 5dB @ 7mtrs
Dry weight:	16.5kg	26.5kg
Dimensions (L x W x H):	480 x 290 x 415mm	555 x 330 x 460mm



4. BEFORE USE

4.1. PRE-START CHECKS.

- 4.1.1. Check the oil level before starting. **NOTE:** the Oil Alert System will protect the engine from low oil level by shutting it down in such circumstances. Manually checking the level will prevent this happening. See fig.4.
- 4.1.2. Check the fuel level. The fuel cap is released by turning anticlockwise by a half turn (fig.5). The fuel level should be no higher than the bottom of the fuel cap filter (fig.6).
- 4.1.3. Replace the fuel cap.



5. STARTING

- 5.1. Make sure that all appliances are disconnected from the output sockets and the generator is level before starting.
 - 5.1.1. Turn the fuel cap breather fully clockwise to the 'ON' position. (fig. 5)
 - 5.1.2. Turn the ignition switch to the 'ON' position. (fig.2 or 3).
 - 5.1.3. Move the choke lever to the 'START' position (fig.8). **NOTE:** When the engine is hot, the choke need not be used.
 - 5.1.5. On first use prime the fuel system by pressing the primer bulb (fig.7) 25-30 times.
 - 5.1.6. Pull the recoil starter slowly, until you feel tension in the starter cord. Then pull the recoil starter quickly to its full extent. Do not allow the cord to snap back; let the starter cord rewind slowly as you hold the recoil starter handle.
 - 5.1.7. If engine fails to start, check that the controls are in the correct position as in 5.1.1. - 5.1.4. above.
 - 5.1.8. When the engine is running smoothly, return the choke lever to the 'RUN' position. **NOTE: If the engine stops and will not restart, check the fuel and engine oil level before troubleshooting further.**

6. OPERATION

- 6.1. **SMART THROTTLE**
Engine speed is kept at idle automatically when the electrical appliance is disconnected and it returns to the proper speed to power the electrical load when electrical appliance is connected. This position is recommended to minimize the fuel consumption while in operation.
 - 6.1.1. With the switch (fig.2 or 3) in the 'ON' position, engine speed is automatically lowered when loads are reduced, turned off or disconnected.
 - 6.1.2. When appliances are turned on or reconnected, the engine returns to the proper speed to power the electrical load.
 - 6.1.3. In the 'OFF' position, the Smart Throttle does not operate.
 - 6.1.4. Appliances with large start-up power demands may not allow the engine to reach normal operating rpm when they are connected to the generator. Turn the Smart Throttle Switch to the 'OFF' position and connect the appliance to the generator. If the engine still will not reach normal operating speed, check that the appliance does not exceed the rated load capacity of the generator.
 - 6.1.5. If high electrical loads are connected simultaneously, turn the Smart Throttle Switch to the 'OFF' position to reduce voltage changes.
 - 6.1.6. The Smart Throttle Switch is not effective for use with appliances that require only momentary power. If the tool or appliance is likely to be turned on and off quickly, the Smart Throttle Switch should be in the 'OFF' position.
 - 6.1.7. When using the DC output, turn the Smart Throttle Switch to the 'OFF' position.

6.2. EARTHING

- 6.2.1. Ensure that the generator is earthed when the connected equipment has an earth connection.
- 6.2.2. To prevent electrical shock from faulty appliances, the generator should be earthed. Connect a length of heavy wire between the generator's earth terminal and an external earth source.
- 6.2.3. Connections for standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes.

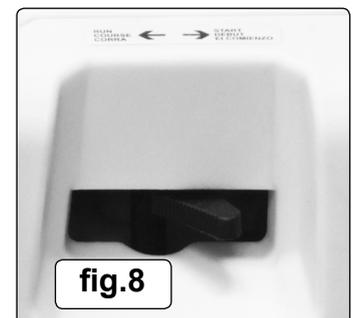
▲ **DANGER!** Improper connections can allow electrical current from the generator to back feed into the electricity supply mains. Such back feed may electrocute utility company workers or others who contact the lines during a power outage, and when utility power is restored, the generator may explode, ignite or cause fires in the building's electrical system.

6.3. A.C. APPLICATIONS

- 6.3.1. Start the engine and make sure the output indicator LED (green) flashes (fig.2 or 3)
- 6.3.2. Confirm that the appliance to be used is switched off, and plug in to the generator.
- 6.3.3. When an electric motor is started, both the overload indicator LED (red) and the output indicator LED (green) may light simultaneously. If the overload indicator LED (red) goes off after about four seconds, this is normal. If the overload indicator LED (red) stays on, consult your Sealey dealer.

6.4. D.C. BATTERY CHARGING

- 6.4.1. Before connecting the battery charging cable to a battery that is installed in a vehicle, disconnect the vehicle's battery earth cable from the negative (-) battery terminal.
- 6.4.2. Connect the charging cables to the DC outlet of the generator and then to the battery terminals.
- 6.4.3. Connect the red lead of the battery charging cable to the positive (+) battery terminal and the black lead to the negative (-) battery terminal.
- 6.4.4. The DC circuit breaker (fig.2 or 3) automatically cuts off the DC battery charging circuit when the DC charging circuit is overloaded, when there is a problem with the battery, or when the connections between the battery and the generator are incorrect.
- 6.4.5. The circuit breaker may be reset by pressing the red button in, once the fault has been identified and corrected.
- 6.4.6. To disconnect: stop the generator, remove the black lead from the negative (-) battery terminal, remove the red lead from the positive (+) battery terminal then remove the charging lead plug from the 12V DC socket on the control panel.

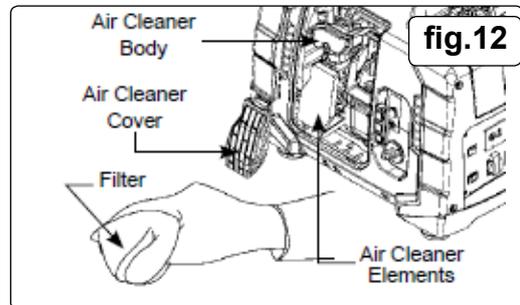
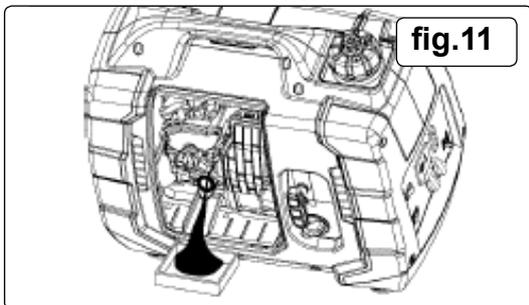
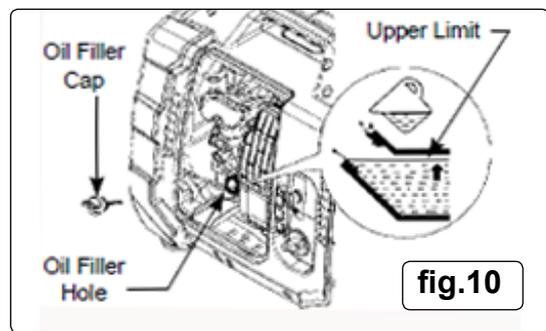
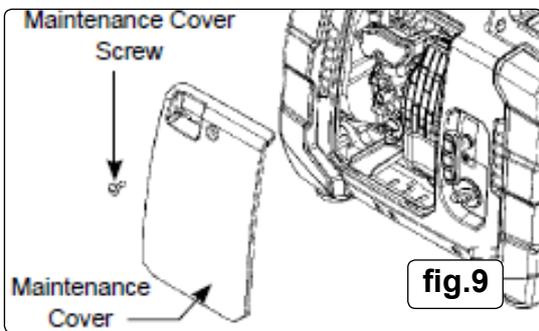


- ❑ **WARNING! DO NOT** attempt to start an automobile engine with the generator still connected to the battery. The generator may be damaged.
NOTE: The DC receptacle can be used while the AC output is in use. If you use both at the same time, be sure not to exceed the total power for AC and DC.
- 6.5. USB SOCKET**
 - 6.5.1. The output from the USB socket is 5V in an unloaded state. Only use the USB socket to charge a mobile phone.
 - 6.5.2. To avoid damage to mobile phone battery, connect the charging lead to the generator first, then to the phone.
 - 6.5.3. Disconnect the phone first, then unplug the charging lead from the generator.
- ❑ **WARNING! DO NOT** start the generator whilst connected to a mobile phone; there is the risk of damage to the phone battery.
- 6.6. OUTPUT AND OVERLOAD INDICATORS** (fig.2 or 3)
 - 6.6.1. The output indicate LED (green) will flash during normal operating conditions.
 - 6.6.2. If the generator is overloaded, or if there is a short in the connected appliance, the output indicate LED (green) will go out, the overload indicator LED (red) will light and current to the connected appliance will be shut off.
 - 6.6.3. Stop the engine if the overload indicator LED (red) comes on and investigate the overload source.
- 6.7. STOPPING THE ENGINE**
 - 6.7.1. In an emergency: Turn the fuel switch and ignition switch to the 'OFF' position.
 - 6.7.2. In normal use: unplug appliances from the generator, turn the fuel switch and ignition switch to the 'OFF' position, turn the fuel cap breather to the 'OFF' position after the machine has cooled down.

7. MAINTENANCE

Maintenance Schedule					
Item	Daily Check	20hrs or first month	50hrs or every 3 months	100hrs or every 6 months	200hrs or yearly
Check Engine Oil	✓ Check				
Replace Engine Oil		✓ Replace		✓ Replace	
Check Air Filter	✓ Check				
Clean Air Filter			✓ Clean		
Spark Plug				✓ Clean	✓ Replace

- 7.1. CHANGING THE ENGINE OIL**
 - 7.1.1. Drain the oil while the engine is still warm to assure rapid and complete draining.
 - 7.1.2. Loosen the cover screw and remove the maintenance cover (fig.9).
 - 7.1.3. Remove the oil filler cap (fig.10).
 - 7.1.4. Drain dirty oil into a container (fig.11).
 - 7.1.5. Refill with the recommended oil, and check the oil level.
 - 7.1.6. Reinstall the maintenance cover and tighten the cover screw securely.
 - 7.1.7. Engine oil capacity: G1050l: Approx ·18ltr, G2000l: Approx ·35ltr. For normal temperatures, a 10W-30 oil is recommended.
 - 7.1.8. **Dispose of used oil responsibly, complying with local environmental regulations.**



- 7.2. AIR FILTER CLEANING**

A dirty air cleaner will restrict air flow to the carburettor. To prevent carburettor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dirty areas.

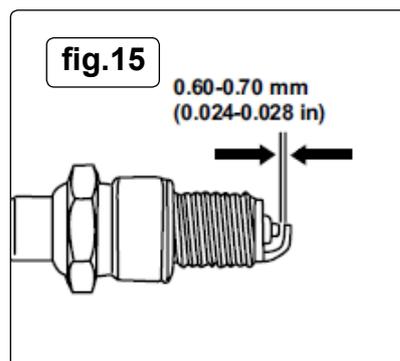
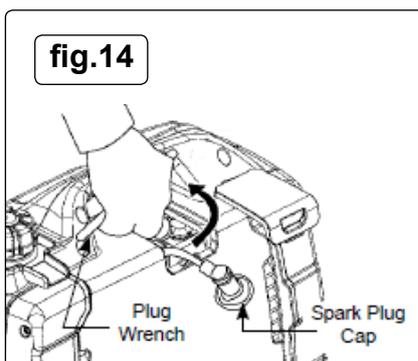
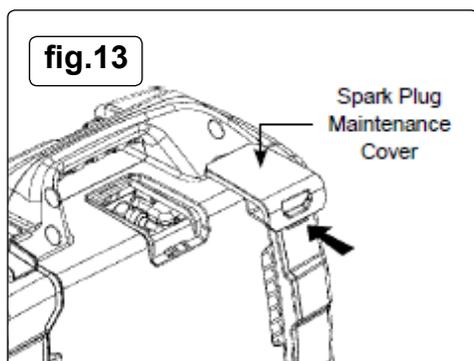
 - ❑ Never run the generator without the air filter, otherwise rapid engine wear may result.
 - 7.2.1. Loosen the cover screw and remove the maintenance cover. (fig.9)
 - 7.2.2. Remove the air cleaner cover. (fig.12)
 - 7.2.3. Wash the filter in a non-flammable or high flash point solvent and dry it thoroughly.
 - 7.2.4. Soak the filter in clean engine oil and squeeze out the excess oil.
 - 7.2.5. Reinstall the air filter and the air cleaner cover.
 - 7.2.6. Reinstall the maintenance cover and tighten the cover screw securely.

7.3. SPARK PLUG

RECOMMENDED SPARK PLUG: A7RTC or equivalent.

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

- 7.3.1. Remove the spark plug maintenance cover (fig.13).
- 7.3.2. Remove the spark plug cap (fig.14).
- 7.3.3. Clean any dirt from around the spark plug base.
- 7.3.4. Use the wrench to remove the spark plug.
- 7.3.5. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
- 7.3.6. Measure the plug gap with a feeler gauge. The gap should be 0.60-0.70mm (0.024-0.028"). Correct as necessary by bending the side electrode carefully (fig.15).
- 7.3.7. Install the spark plug carefully, by hand, to avoid cross-threading.
- 7.3.8. After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress its washer. If a used plug is being reinstalled, it should only require 1/8 to 1/4 turn after being seated.
- 7.3.9. Reinstall the spark plug cap on the spark plug securely.
- 7.3.10. Reinstall the spark plug maintenance cover.



8. TROUBLESHOOTING

Problem	Cause	Remedy
Engine will not start	Insufficient fuel	Check and refill fuel tank
	Fuel / Ignition switch in 'OFF' position	Switch to 'ON'
	Engine oil is low	Check and top up oil
	Spark plug fouled	Clean or replace spark plug
	Incorrect starting technique	Read section 5 for correct technique
No power generated	Circuit breaker in 'OFF' position	Reset to 'ON'

9. TRANSPORT & STORAGE

- 9.1. Always transport and store the generator in an upright position.
- 9.2. Ensure that the fuel switch and ignition switch are placed in the 'OFF' position.
- 9.3. When the engine has cooled, turn the fuel cap breather to the 'OFF' position to avoid the risk of fuel spillage.
- 9.4. When not in use, store the generator in a cool, dry location out of the reach of children and away from sources of ignition.
- 9.5. If being stored for a long period, drain the fuel tank.

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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