

SEALEY

POWER TOOLS

INSTRUCTIONS FOR: 800W 4.5" H. D. ANGLE GRINDER

Model: **SGE115**

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.

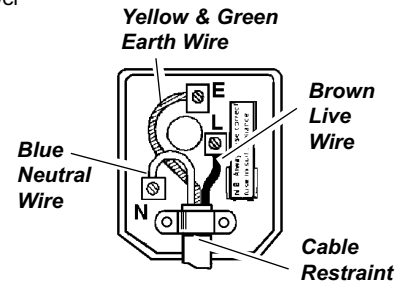


IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. RETAIN INSTRUCTIONS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

1. SAFETY INSTRUCTIONS

1.1. ELECTRICAL SAFETY **WARNING!** It is the user's responsibility to read, understand and comply with the following: You must check all electrical equipment and appliances to ensure they are safe before using. You must inspect power supply leads, plugs and all electrical connections for wear and damage. You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD together with portable products that are plugged into an electrical supply not protected by an RCCB. If in doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer. **You must** also read and understand the following instructions concerning electrical safety.

- 1.1.1. The **Electricity At Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of the appliance and the safety of the appliance operator. **If in doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply. See 1.1.1. & 1.1.2. above and use a Portable Appliance Tester (PAT).
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply, leads, plugs and all electrical connections for wear and damage, especially power connections, to ensure that none is loose.
- 1.1.6. **Important:** Ensure the voltage marked on the product is the same as the electrical power supply to be used and check that plugs are fitted with the correct capacity fuse. A 13 amp plug may require a fuse smaller than 13 amps for certain products, see fuse rating at right. **DO NOT** pull or carry the powered appliance by its power supply lead.
- 1.1.7. **DO NOT** pull power plugs from sockets by the power cable.
- 1.1.8. **DO NOT** use worn or damage leads, plugs or connections. Immediately replace or have repaired by a qualified electrician. A U.K. 3 pin plug with ASTA/BS approval is fitted. In case of damage, cut off and fit a new plug according to the following instructions (discard old plug safely).
- 1.1.9. **DO NOT** use worn or damage leads, plugs or connections. Immediately replace or have repaired by a qualified electrician. A U.K. 3 pin plug with ASTA/BS approval is fitted. In case of damage, cut off and fit a new plug according to the following instructions (discard old plug safely).



**FUSE RATING
5 AMP**


(UK only - see diagram at right). **Ensure the unit is correctly earthed via a three-pin plug.**

a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.

b) Connect the BROWN live wire to live terminal 'L'.

c) Connect the BLUE neutral wire to the neutral terminal 'N'.

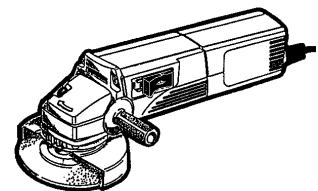
d) After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.

Double insulated products are fitted with live (BROWN) and neutral (BLUE) wires only. Double insulated products are always marked with this symbol . **To re-wire, connect the brown & blue wires as indicated above. DO NOT connect the brown or blue to the earth terminal.**

- 1.1.10. **Cable extension reels.** When a cable extension reel is used it should be fully unwound before connection. A cable reel with an RCD fitted is recommended since any product which is plugged into the cable reel will be protected. The section of the cores of the cable is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the cable reel is suitable for this product and for others that may be used in the other output sockets, we recommend the use of 2.5mm² section cable.

1.2. GENERAL SAFETY

- 3 Disconnect the grinder from the mains power before changing accessories, servicing or performing any maintenance.
- 3 Maintain grinder and discs in good condition. Check moving parts and alignment. If necessary use an authorised service agent.
- 3 Replace or repair damaged parts. *Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- 3 **WARNING!** Always work with the grinder safety guard in place.
- 3 Wear approved safety goggles, ear defenders, gloves and, if grinder generates dust, dust mask.
- 3 The grinding wheel or disc must only be changed by persons holding an appropriate grinding wheel certificate.
- 3 Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.
- 3 Use grinder in a suitable work area. Keep area clean, tidy and free from unrelated materials and ensure adequate lighting.
- 3 Maintain correct balance and footing, **DO NOT** over-reach. Ensure the floor is not slippery and wear non-slip shoes.
- 3 Use only approved grinding discs and only use the normal grinding surface. Never use the side or upper surface of disc for cutting.
- 3 Check grinding disc to ensure there are no splits, cracks or other damage (see Section 4). If in doubt do not use the disc.
- 3 Grinding discs must be securely attached before use, but not over-tightened.
- 3 Secure unstable workpiece with a clamp, vice or other adequate holding device and ensure the grinder is gripped with both hands.
- 3 Keep non-essential persons away from the working area, use screens if necessary.
- 7 **DO NOT** operate the grinder if any parts are missing or the grinder is damaged.
- 7 **DO NOT** use the grinder for a task it is not designed to perform.
- 7 **DO NOT** operate the grinder where there are flammable solids, liquids or gasses.
- 7 **WARNING!** **DO NOT** grind any materials containing asbestos.
- 7 **DO NOT** get the grinder wet or use in damp or wet locations.
- 7 **DO NOT** switch the grinder on whilst the disc is in contact with the workpiece.
- 7 **DO NOT** cover the grinder air vents. To do so will overheat the machine.
- 7 **DO NOT** touch the workpiece immediately after grinding, it will be very hot.
- 7 **DO NOT** use the grinder as a fixed tool and **DO NOT** try to cool the grinding discs with water or other lubricants.
- 7 **DO NOT** hold unsecured work in your hand and **DO NOT** touch the grinding disc whilst operating, or whilst plugged into the mains power.
- 7 **DO NOT** leave the grinder running unattended, and **DO NOT** lay the grinder down whilst it is running.
- 7 **DO NOT** operate the grinder when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- 3 When not in use switch off grinder, remove plug from power supply and store in safe, dry, childproof area.



2. CONTENT & SPECIFICATION

Remove items from packing and identify parts against fig. 1. Check to ensure they are in good condition. If any part is damaged or missing contact your supplier immediately.

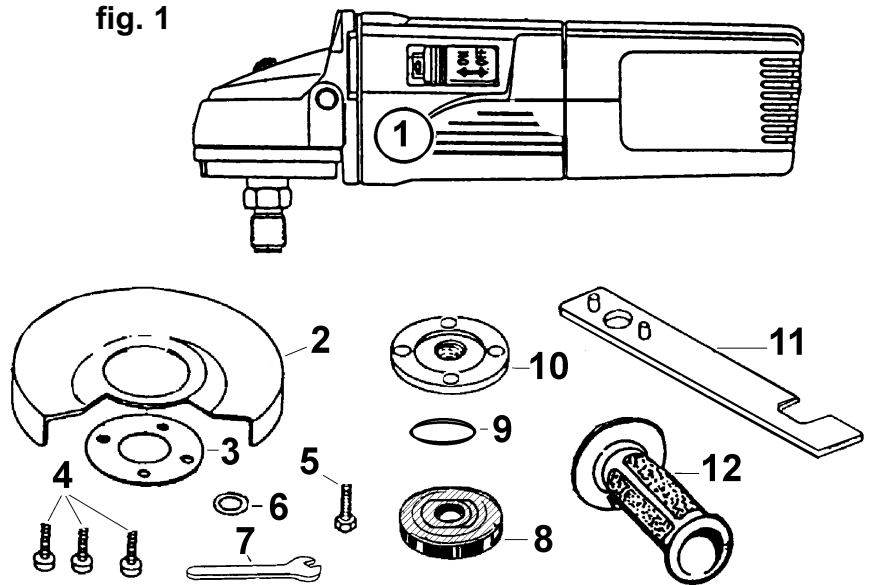
CONTENT LIST

1. Angle grinder
2. Safety guard
3. Guard clamping washer
4. Screws x 3
5. Bolt x 1
6. Washer x 1
7. Bolt Spanner
8. Disc flange
9. Joint ring (fitted to item 8)
10. Nut flange
11. Pin wrench
12. Auxiliary handle

SPECIFICATION

Power800 watt
 No-load speed10000rpm
 Maximum grinding disc size115mm
 Spindle threadM14
 Weight2.3kg

fig. 1

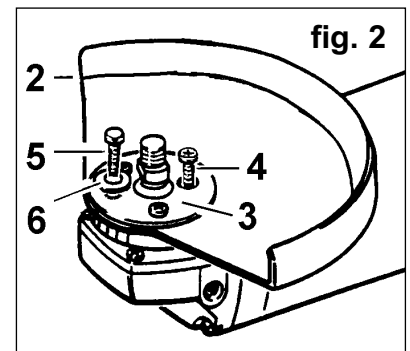


3. ASSEMBLY

WARNING! Ensure that the grinder is unplugged from the mains power supply before assembling.

3.1. Guard

- 3.1.1. Remove nut flange (fig.1.10) and disc flange from spindle.
- 3.1.2. Place the guard (fig. 2.2) over the spindle and seat on flange.
- 3.1.3. Place clamping washer (fig. 2.3) over spindle, with pips towards the guard, and align the four holes with the threaded holes in the grinder head.
- 3.1.4. Insert the three screws (fig. 2.4) and tighten so that the guard can still be rotated.
- 3.1.5. Place washer (fig. 2.6) over bolt (fig. 2.5) and screw into the larger threaded hole using spanner (fig. 1.7) provided. Do not tighten at this stage.



3.2. Grinding Disc (only be performed by person holding grinding wheel certificate)

- 3.2.1. Place the disc flange (fig. 3.8) onto the centre spindle (fig. 3.A) ensuring that the joint ring (fig. 3.9) is facing upward. Engage the recess in the disc flange (fig 3.8) with the drive flats on the shaft.
- 3.2.2. Place grinding disc (fig. 3.B) on the spindle.
- 3.2.3. Retain disc with nut flange (fig. 3.10). Fit with spigot facing in if disc is less than 5mm thick, and facing out if disc is more than 5mm thick (figs. 3 a & b).

fig. 3a

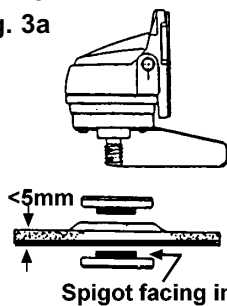


fig. 3b

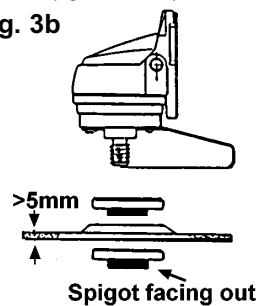
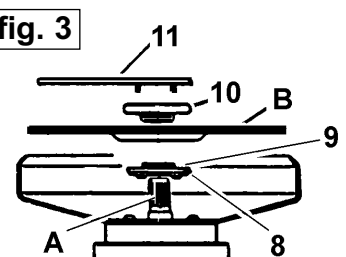


fig. 3



- 3.2.4. Stop the spindle from turning by pushing in and holding the stop button (fig 5.A).
- 3.2.5. Lock the grinding disc into place by tightening the nut flange (fig 3.10) with the pin wrench (fig 3.11).
- 3.2.6. Release the locking button and check that it has sprung back to the initial position.

3.3. Positioning the Guard

The guard (fig. 4.2) may be rotated through any angle to suit the task.

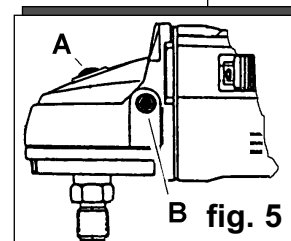
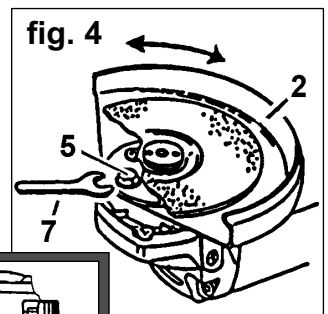
- 3.3.1. Position the guard to give working access whilst still providing maximum personal protection for the operator.
- 3.3.2. Lock the guard in place by tightening locking bolt (fig. 4.5) with spanner (fig. 4.7).

3.4. Handle

The auxiliary handle will allow better control and safety.

- 3.4.1. Fit the handle (fig. 1.12) by screwing it into the threaded hole (fig. 5.B) on either the left or right side of the gear box, as best suits the work.

fig. 4



4. GRINDING DISCS

⚠ **WARNING! DO NOT USE DISCS THAT ARE DAMAGED, OR SUSPECTED OF DAMAGE.**

Before using a grinding disc ensure there are no fissures or cracks. Once mounted on the grinder test the disc before use by facing the grinder in a safe direction (pointing away from yourself, others and vulnerable items) and operate for a short time.

⚠ **DANGER! Use of damaged discs may cause damage and/or personal injury.**

Grinding and cutting discs used in association with this machine shall be of an adequate speed rating and suitable for the job in hand. The discs shall be made in accordance with British Standard 4481:Part 1 1989. Only persons holding a grinding wheel certificate are authorised to change grinding discs and wheels.

5. OPERATING INSTRUCTIONS

⚠ **WARNING! Ensure grinder is unplugged from the mains power supply before changing accessories.**

5.1. Preparation

- 5.1.1. Assemble grinding disc according to 3.2. and position handle to suit the task.
- 5.1.2. Ensure the disc safety guard is correctly positioned.
- 5.1.3. Plug grinder into the mains power supply.

5.2. Grinder On/Off Switch

The On/Off switch is designed to avoid starting should the switch be pressed in error (fig. 6.A).

- 5.2.1. Once plugged into the mains supply, start the grinder by sliding the switch back - it will latch in the 'On' position.

⚠ **WARNING! When the grinder first starts it will kick to the right, you must ensure therefore that the tool is securely gripped in both hands. Especially important is the position you choose to secure the auxiliary handle in order to maintain stability.**

- 5.2.2. To switch off the machine push the front of the On/Off button (fig. 6.A) down. The button will slide forward under spring pressure to the safety position and the machine will stop.

⚠ **WARNING! Before grinding ensure you wear approved safety goggles, ear defenders, dust mask if grinder generates dust and safety gloves, and that all other safety instructions in Section 1 are followed carefully.**

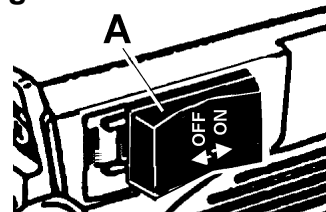
5.3. Grinding

The key to effective operating is controlling the pressure and surface contact between the disc and the workpiece.

⚠ **WARNING! DO NOT switch the grinder on whilst the disc is in contact with the workpiece. Bring the rotating disc to the workpiece.**

- 5.3.1. Allow the disc to reach full speed before starting to grind.
- 5.3.2. Grind flat surfaces at an angle of between 10 to 20 degrees. Too great an angle will cause a concentration of pressure in one small area resulting in gouging or burning of the surface.
- 5.3.3. When grinding is complete allow the workpiece to cool. DO NOT touch the hot surface.
- 5.3.4. Unplug the grinder from the mains power supply, clean and store in a safe, dry, childproof area.

fig. 6



6. MAINTENANCE

⚠ **WARNING! Ensure the grinder is disconnected from the mains power supply before attempting any maintenance.**

6.1. Cleaning

Keep the grinder ventilation slots clean and free from obstructions. If available, blow compressed air into the vents to clear any internal dust (safety goggles must be worn when undertaking this process). Keep the outer case of the grinder clean and free from grease. DO NOT wash with water or use solvents or abrasives.

6.2. Changing the brushes

The brushes should only be changed by an authorised Sealey service agent.

7. DECLARATION OF CONFORMITY

Declaration of Conformity

We, the sole importer into the UK, declare that the product listed below is in conformity with the following standards and directives.

**800W 4.5" H. D. ANGLE GRINDER
Model SGE115**

73/23/EEC Low Voltage Directive
89/336/EEC EMC Directive
98/37/EC Machinery Directive
93/68/EEC CE Marking Directive



The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman

1st October 2001

For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Tools.

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, address and postcode.

SEALEY POWER TOOLS

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