



INSTRUCTIONS FOR: 5" GRINDER WITH 8" WET STONE Model: SM58

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 OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

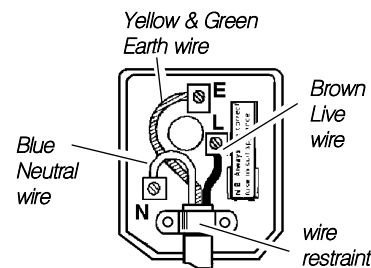
The use of symbols in this document is to attract your attention to possible danger. The symbols and warnings themselves do not eliminate any danger, nor are they substitutes for proper accident prevention measures.

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 professional 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 a business premises, to be tested by a qualified Electrician at least once a year by using a Portable Appliance Tester (PAT).
- 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 any 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 are 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 13Amp plug may require a fuse smaller than 13Amps for certain products (*subject to 1.1.10. below*) see fuse rating at right.
- 1.1.7. DO NOT pull or carry the powered appliance by its power supply lead.
- 1.1.8. DO NOT pull power plugs from sockets by the power cable.
- 1.1.9. DO NOT use worn or damaged 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
THIS PRODUCT MUST BE FITTED
WITH A:
3 Amp FUSE

- 1.1.9. DO NOT use worn or damaged 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). (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'.****After wiring, check there are no bare wires, that all wires have been correctly connected and that the wire restraint is tight.**

Double insulated products are often 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. Some products require more than a 13Amp electrical supply. In such a case, NO plug will be fitted. You must contact a qualified Electrician to ensure a 30 amp fused supply is available. We recommend you discuss the installation of an industrial round pin plug & socket with your electrician.
- 1.1.11. 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 cable on the cable reel is important. We recommend that at least 1.5mm² section cable 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

- ⚠ WARNING! Disconnect the grinder from the mains power, and ensure the grinding stones are at a standstill before attempting to change accessories, service or perform any maintenance.**
- ✓ Maintain the grinder in good condition and check moving parts alignment regularly.
- ✓ Replace or repair damaged parts. *Use genuine parts only. Non authorised parts may be dangerous and will invalidate the warranty.*
- ▲ DANGER! DO NOT use a damaged stone as it is dangerous and may cause damage or serious personal injury.**
- ⚠ WARNING! Only persons qualified under the "Abrasive Wheels Regulations" and holding a current grinding wheel certificate are to change or dress grinding stones. Unplug grinder from mains power and refer to chapter 4 "Grinding Stones" for details.**
- ⚠ WARNING! Keep all guards and holding screws in place, tight and in good working order. Check regularly for damaged parts. A guard or any other part that is damaged should be checked to ensure that it will operate properly and perform its intended function before tool is used. Safety guard is a mandatory fitting where grinder is used in premises covered by the Health & Safety at Work Act.**
 - ✓ Locate grinder in an adequate working area for its function, keep area clean, tidy and free from unrelated materials. Ensure adequate lighting.
 - ✓ Before each use check grinding wheel for condition. If worn or damaged replace immediately.
- ⚠ WARNING! Always wear approved eye or face protection when operating the grinder.**
 - ✓ Use breathing protection in accordance with COSHH regulations if fumes or dust pose a hazard. Wear ear defenders and gloves if necessary.
 - ✓ Keep hands and body clear of the workpiece when operating the grinder.
 - ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non slip shoes.
 - ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and contain and/ or tie back long hair.
 - ✓ Both stones operate together. Whilst working with required stone, ensure you keep yourself and any items clear of the other stone.
 - ✓ This grinder is suitable for sharpening fine blades and the like. Remember to handle all blades and tools with care to avoid personal injury.
 - ✓ Keep children and unauthorised persons away from the working area.
- x DO NOT force the grinder to achieve a task it was not designed to perform, and DO NOT use the grinder for cutting.
- x DO NOT operate the grinder if any parts are damaged or missing as this may cause failure or possible personal injury.

❑ WARNING! DO NOT grind, or sand any materials containing asbestos.

- x DO NOT switch the grinder on whilst the stone is in contact with the work piece.
- x DO NOT allow water from the wet stone to contact any other part of the grinder. Ensure any waste water that drips from the water tray outlet pipe is safely contained, or drained away.
- x DO NOT get the grinder wet or use in damp or wet locations or areas where there is condensation. (Water must relate to wet stone use only).
- x DO NOT use grinder where there are flammable liquids, solids or gases such as paint solvents, including waste wiping or cleaning rags etc.
- x DO NOT touch the workpiece close to the ground surface as it will be very hot. Allow to cool. The workpiece may also be very sharp.
- x DO NOT operate the grinder when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- x DO NOT leave the grinder operating whilst unattended.
- ✓ When not in use switch the grinder off, and disconnect from the mains power supply, and clean the machine and working area.

2. INTRODUCTION & SPECIFICATIONS

The SM58 is supplied with a 230Volt induction motor and is fully guarded and suitable for workshop use. The grinder is suitable for sharpening many items including fine blades.

Dry Grinding Stone Dimensions:	125 x 50 x 12.5mm
Dry Grinding Stone Part No:	SM58/GW125
Dry Grinding Speed:	2850rpm
Wet Grinding Stone Dimensions:	200 x 25 x 80mm
Wet Grinding Stone Part No:	SM58/GW200W
Wet Grinding Speed:	134rpm
Motor:	1/4Hp - 230V/1ph

3. ASSEMBLY & INSTALLATION

Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately.

- | | | |
|----------------------|------------------------|---|
| 1. Water tank | 7. Wet stone guide | 13. Tool rest |
| 2. Water tank holder | 8. Water sponge | 14. Stone locking tool |
| 3. Water feed tap | 9. Eye shield | 15. Water outlet pipe |
| A. Angle lock | 10. Stone guard | 16. Water tray |
| B. Angle guide | 11. Stone cover | 17. On/Off switch |
| 6. Wet Stone | 12. Dry grinding stone | 18. Wet guide locking knob, (each end). |

❑ WARNING! DO NOT Plug grinder into mains power supply until these instructions state it is safe to do so.

- 3.1. Locate Grinder** on an appropriate level and stable surface. The grinder may be fitted to a bench by removing the base and using the hole the grinder body for fixing bolts.
- 3.2. Assembly.**
 - 3.2.1. Assemble the eye shield according to figure 2. Do not overtighten as the eye shield may crack. Inset bolt (A) into appropriate threaded hole on the right hand side of the wheel guard see figure 1 item 9.
 - 3.2.2. Take the tool rest support (fig 3. B) insert it into and align holes in part A. Pass bolts (C) through washers "D" and guide plate hole, and lock with washer (F) and wing nuts (E). Attach rest to grinder by passing bolt (G) through washer and into hole in the front of the stone guard figure 1. items 13 & 10. Set clearance between the guide and stone at 1-2mm, and lock all nuts and screws.
 - 3.2.3. Insert the water tank (fig 1.1) into tank holder (2) and insert feed tap (3) into tank. Tap may be turned to the left or right to control the water on/off flow. Position the water drop outlet at about 3mm in from the inner edge of the wet stone "X", so the water is dispersed outward as the stone rotates.
 - 3.2.4. Fit the outlet water pipe (15) to the outlet spout on underside of the water tray (16).
 - 3.2.5. Wet stone guide (fig 1.7) is optional. To assemble push side supports (fig 4.1) into slots of the tray (2), fix with lock nut (3). Lay guide (4) in each support recess. Pass long screw through rear of support and guide (S) and secure with locking knob (5). Set the distance and angle between the guide and stone according to the item to be ground, but ensure the minimum distance is 3mm and maximum is 10mm. Ensure the arm is parallel to the stone and lock with nuts (3) and (5). Also set the angle arm (fig1.A & B)) as required.
 - 3.2.6. Check that all items have been correctly assembled and that all nuts and bolts are secure. The grinder is now ready for use.

4. GRINDING STONES

4.1. MANDATORY SAFETY INSTRUCTIONS.

The following instructions must be observed together with chapter 1 safety.

- ▲ **DANGER! use of a damaged stone is dangerous and may cause damage or personal injury.**
- ❑ **WARNING! Ensure grinder is unplugged from the mains power supply before attempting to change grinding stones (or wheel). Only persons qualified under the "Abrasive Wheels Regulations" and holding a current grinding wheel certificate are authorised to change and dress grinding stones (wheels).**
- ✓ Grinding stones (wheels) used with machine must be of an adequate speed rating and suitable for the material to be ground.
- ✓ Ensure the cutting stone's maximum speed specification is higher than that indicated on the machine data plate.
- ✓ Check grinding stones are secure, and the stone is not worn or damaged, that there are no chips, flaws or cracks, if damaged replace immediately.
- ✓ Ensure replacement stone is not damaged in any way such as cracks, deformations or splinters etc. Also check the mounting flanges to ensure they are not deformed, burred or chipped. Damaged items must **NOT** be used as they may cause irregular pressure on the stone which may cause stone to break. DO NOT over tighten a stone. Never tamper with a stone in order to adapt it to a different size holder.
- ✓ Install a new stone as in 4.2. Once mounted on the grinder test the stone before use by standing to the side of the grinder, and run the machine for one minute. Dress the stone if necessary.

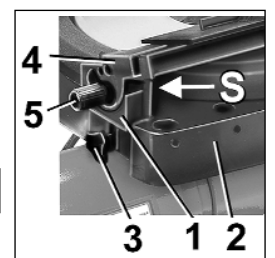
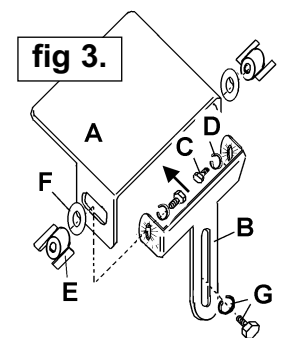
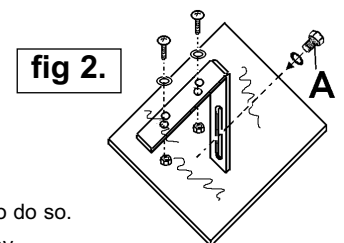
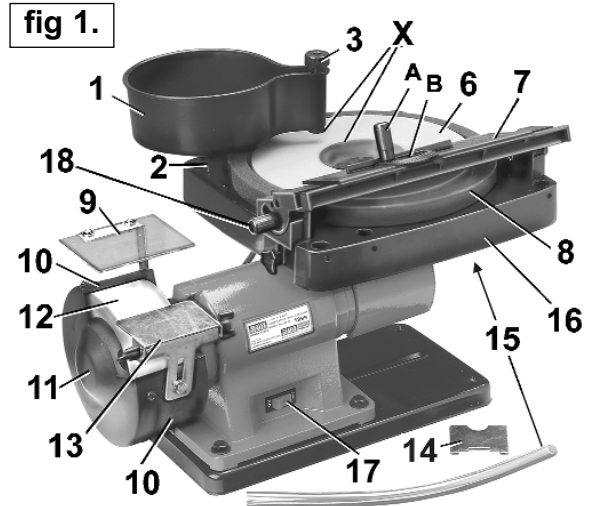


fig 4.

- 4.2. CHANGING DRY STONE (fig 1.12).** **WARNING! unplug grinder from the mains power supply before changing stone.**
- 4.2.1. Lift the eye shield and tool rest away from the stone, undo cover screws and remove the cover (fig 1.11).
- 4.2.2. Hold grinding stone firmly. Protect your hands use cloth or wear gloves. Unscrew retaining nut. *Note: The nut has a left hand thread and must be loosened by turning clockwise.* It may be necessary to strike wrench sharply with the heel of your hand to loosen nut.
- 4.2.3. Remove grinding stone washers, blotters and stone.
- 4.2.4. Carefully inspect the new stone before installing to ensure there are no flaws, chips, or cracks.
- WARNING! DO NOT USE A DAMAGED STONE.**
- 4.2.5. Inspect the blotters, if they are damaged replace them. The dry stone must not be used without stone blotters, should you not have any available when you need to replace them, cut out a piece of suitable cardboard the same shape for temporary use only.
- 4.2.6. Install the new stone by reversing steps above. Ensure washers are installed with the flange on the outside, (i.e. the concave side against the blotter).
- 4.2.7. Hold stone steady and secure locking nut. DO NOT over tighten as this may crack the stone.
- 4.2.8. Replace stone cover, re-adjust tool rest to a maximum of 2mm from stone face, tighten securely, and replace eye shield.
- 4.3. CHANGING THE WET STONE (fig 1.6).** **WARNING! unplug grinder from the mains power supply before changing stone.**
- 4.3.1. Remove the tool guide, and water tank.
- 4.3.2. Hold grinding stone firmly. Protect your hands use cloth or wear gloves. Unscrew retaining nut with wrench supplied (fig 1.14). *(The nut has a left hand thread. View nut for screw direction).*
- 4.3.3. Remove nut, washer and stone. Replace new stone by reversing the process and referring to 4.2.6. above.

5. OPERATING INSTRUCTIONS

5.1. PRE USE INSPECTION.

- WARNING! INSPECT THE GRINDER BEFORE OPERATING THE MACHINE. ENSURE THE GRINDER IS UNPLUGGED FROM THE MAINS POWER BEFORE COMMENCING THE INSPECTION.**

Turn the grinding stones by hand and check for any damage. Check they do not touch the tool rests and are correctly aligned. If any of the above checks fail, replace, repair, or adjust as necessary before starting the grinder.

5.2. PREPARING THE WET STONE.

- 5.2.1. Adjust the water retaining sponge (fig 1.8) to be 1-2mm higher than the top of the stone in order to catch water as the stone spins.
- 5.2.2. Position water tank outlet about 3mm in from the centre of the stone (fig1.X) so that the water will flow outward as the stone turns. Half fill the tank with clean water. Dampen the stone first, then turn the tap on to allow water to drop onto the stone.
- 5.2.3. Loosen guide locks (fig 1.18) and lay the knife or blade to be ground against the guide. Adjust the height and angle accordingly and re-tighten locking nuts and read 5.4. Items may be ground without the use of the wet stone guide, but ensure item is safely held.

5.3. PREPARING THE DRY STONE.

- 5.3.1. Check that the eye shield is in good condition, correctly placed and secure, and that you can see through it clearly.
- 5.3.2. Check the tool rest is securely fixed and is set at 1-2mm from the stone, and proceed as 5.4.

5.4. USING THE GRINDER.

- WARNING! Before commencing work, ensure you have read, understood, and apply chapter 1. Safety Instructions.**

- 5.4.1. Plug grinder into the mains power supply.
- 5.4.2. Stand to one side of the grinder, switch the machine on (fig 1.17) and allow it to build up to full speed.
- 5.4.3. Hold the workpiece comfortably and securely, and bring it slowly into contact with the spinning stone. Maintain a light and even pressure, do not use excess pressure which may damage the stone and overload the motor. Move small workpieces across the face of the stone to avoid uneven wear of the stone face.
- 5.4.4. When you have completed your task, unplug the grinder from the mains power supply, and clean the machine ready for next use.

Important reminder: Grinding stones MUST Only be assembled by a person holding a grinding wheel certificate. See chapter 4.

6. MAINTENANCE

- WARNING! Ensure the grinder is unplugged from the mains power supply before performing any maintenance or service.**
- 6.1. As the dry stone wears, adjust the position of the tool rest. The dry stone rest must be set at a maximum of 2mm from the stone surface.
- 6.2. Regularly remove the dry stone cover and clean out any dust and dirt.
- 6.3. Regularly remove and clean the wet stone water sponge and clean out the water tray. Check that the water outlet is not blocked.
- 6.4. Clean the water tank and tap outlet to ensure a correct flow.
- 6.5. Keep the machine clean and ensure that water from the wet stone is kept clear from the motor and other parts of the grinder.
- 6.6. The machine motor and bearing are sealed units and require no regular maintenance. Should you require assistance, contact your local Sealey service agent.
- 6.7. For information relating to the handling and maintenance of grinding stones refer to chapter 4.

5" GRINDER WITH 8" WET STONE

Model: SM58

89/392/EEC

Low Voltage Directive (S.I. 1989/728)

89/336/EEC EMC Directive (S.I. 1992/2372).

89/392/EEC Machinery Directive (S.I. 1992/3073)

93/68/EEC CE Marking Directive

Declaration of Conformity We, the sole importer into the UK, declare that the product listed here is in conformity with the following EEC standards and directives



Signed by Mark Sweetman

1st September 1999

The construction files for this product is held by the Manufacturer and may be inspected on request by contacting Jack Sealey Ltd

For Jack Sealey Ltd. Sole importer into the UK of Sealey Quality Machinery

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 product. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** Call us for a copy of our latest catalogue on 01284 757525 and leave your full name and address including your postcode.



Sole UK Distributor
Sealey Group,
Bury St. Edmunds, Suffolk.



01284 757500



01284 703534

E-mail: sales@sealey.co.uk