

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.

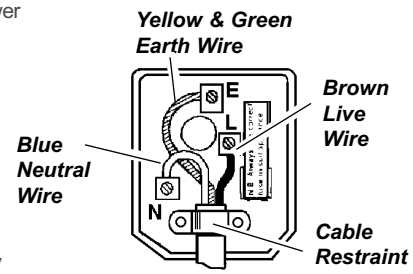
! IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP 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 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, at least once a year, 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 for wear and damage and 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.
- 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
5 AMP FUSE

- (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

- WARNING!** Disconnect the grinder from the mains power and ensure the grinding wheels 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 recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ▲ **DANGER! DO NOT use a damaged stone as it is dangerous and may cause damage and/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 repaired or replaced before the grinder is next used. The safety guard is a mandatory fitting when grinder is used in premises covered by the Health & Safety at Work Act.
- ✓ Locate grinder in a suitable work area, 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 stones 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.
- ✓ Keep children and unauthorised persons away from the work area.
- ✗ **DO NOT** use the grinder for a task it is not designed to perform.
- ✗ **DO NOT** operate the grinder if any parts are damaged or missing as this may cause failure and/or personal injury.
- WARNING! DO NOT** grind, or sand, any material containing asbestos.
- ✗ **DO NOT** switch the grinder on whilst the wheel is in contact with the workpiece.
- ✗ **DO NOT** allow the workpiece to over heat. Periodically cool by immersing the workpiece in water.

- X DO NOT use grinder where there are flammable liquids, solids or gases such as paint solvents and including waste wiping or cleaning rags.
- 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 or under the influence of alcohol, drugs or intoxicating medication.
- X DO NOT leave the grinder operating unattended.
- ✓ When not in use switch off the grinder and disconnect from the mains power supply. Clean the machine and work area.

2. INTRODUCTION & SPECIFICATION

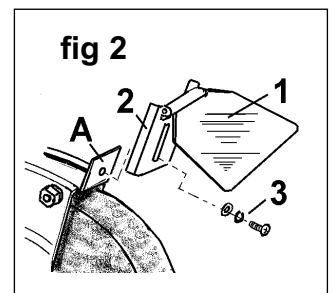
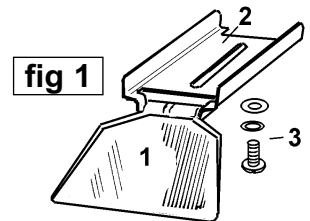
The BG250XL is fitted with stone guards, adjustable eyeshield and spark arrestors, an induction motor for general grinding and sharpening operations and fine and coarse grade grinding stones.

Motor	750W	No Load Speed2800rpm
Input	230V	Fitted with	1 x fine stone, 1 x course stone
Axle Diameter	16mm	Weight30kg

3. ASSEMBLY & INSTALLATION

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

- ❑ **WARNING! Before assembly check to ensure grinder is unplugged from mains.**
- 3.1. Securely bolt the grinder to a fireproof workbench using the base holes as a template. Ensure the bench is able to support the weight of the grinder when in operation. If mounting on a metal bench insulate the grinder by placing a suitable plank of wood between the grinder base and the bench top.
- 3.2. Assemble the eye shield (fig 1.1) by placing the connecting bracket (fig 1. 2) up against the bracket support (fig 2. A) and fix with washers and screw (3). The slot in the bracket allows you to adjust height of the shield, but ensure bracket is at least 2mm clear of the grinding wheel.
- 3.3. Check that the tool rest is no more than 1.5mm from the wheel. The rest may be adjusted by loosening the two locking bolts, moving the rest and re-tightening the bolts.



4. GRINDING STONES

- 4.1. **MANDATORY SAFETY INSTRUCTIONS.** (The following instructions must be observed together with Section 1 safety).
 - ▲ **DANGER! use of a damaged stone is dangerous and may cause damage and/or personal injury.**
 - ❑ **WARNING! Ensure grinder is unplugged from 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 this machine must be of an adequate speed rating and suitable for the material to be ground.
 - ✓ Ensure that the specified maximum speed of the grinding stone is higher than that indicated on the machine data plate.
 - ✓ Check that grinding stones are secure and that the stones are not worn or damaged, that there are no fissures or cracks. If damaged, replace immediately.
 - ✓ Ensure replacement stone is not damaged in any way - cracks, deformations, splinters etc. Also check the mounting flanges to ensure these are not deformed, burred or chipped. Damaged items must **NOT** be used as they may cause the stone to break as a result of uneven pressure. DO NOT over tighten a stone. Never tamper with a stone in order to adapt it to different size holder.
 - ✓ Install a new stone as in 4.2.
- 4.2. **Stone Changing Procedure.** ❑ **WARNING! Unplug grinder from the mains power supply before changing stone.**
 - 4.2.1. Remove the eye shield. Protect the plastic viewer from scratching.
 - 4.2.2. Loosen and pull the tool rest out as far as possible.
 - 4.2.3. Remove the three screws from the side of the wheel cover and remove the cover. **WARNING!** Take care as the guard ring (fig 3.B, to which the eye shield had been attached at point A) is compressed and will spring outward when the outer cover is removed.
 - 4.2.4. Hold grinding stone firmly. To protect your hands use cloth or wear gloves. Unscrew retaining nut (fig 4.1).
 - Note:** The nut on the right side of the grinder has standard right hand thread (undo anti-clockwise). The left side nut has a left hand thread and must be loosened by turning clockwise. It may be necessary to strike the wrench sharply in the loosening direction with the heel of your hand to loosen the nut.
 - 4.2.5. Remove grinding stone washer (fig 4.2), blotter (3), stone (4), 2nd blotter (3), from main spindle (X).
 - 4.2.6. If wheel insert (fig 4.5) is in bore of stone, remove it. If insert is on shaft leave it there.
 - 4.2.7. Carefully inspect the new stone before installing to ensure that there are no chips or cracks.
 - ❑ **WARNING! DO NOT USE A DAMAGED STONE.**
 - 4.2.8. Inspect the blotters (fig 4.3) If they are damaged replace them. The grinder must never be used without these blotters. Should you not have any available when you need to replace them, cut the same shape from suitable cardboard, for temporary use only.
 - 4.2.9. If loose, press wheel insert (fig 4.6) into the bore of the new stone.
 - 4.2.10. Install the new stone by reversing steps above. Check that the insert (6) is central in the bore of the stone and ensure that washer (2) is fitted with the flat outer face against the blotter.
 - 4.2.11. Hold stone steady and secure locking nut. **DO NOT** over tighten as this may crack the stone.
 - 4.2.12. Align the eye shield attachment bracket (fig 3.A) of the guard ring (B) with the upper most part of the back shield plate at point (C). Place the outer cover over the guard ring and pass securing screw through the upper holes and secure with the washers and nut (D), finger tight only. Tension the guard ring (B) around the rim of shield and secure with the back cover screw and nut. Finally ensure the bottom of the guard ring is correctly fitted between the inner and outer covers and fix with the bottom screw and nut. Tighten the locking screws and nuts. Replace eye shield and re-adjust tool rest to a maximum of 1.5mm from stone face and tighten securely.

fig 3

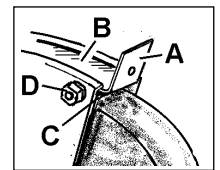
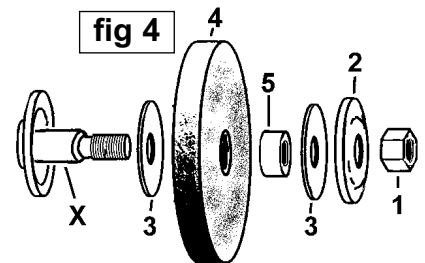


fig 4



NOTE: IF FITTING A WIRE WHEEL, IT MUST HAVE A 16MM BORE AS THE GRINDING WHEEL INSERT WILL NOT FIT A WIRE WHEEL.

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.

5.1.1. Check the tool rests are securely fixed at a maximum of 1.5mm from the grinding stone.

5.1.2. Check that eye shields are in good condition, are secure and that you can see through them clearly.

5.1.3. 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. Stone Use.

Depending on the model, grinders are supplied with one or two aluminous oxide stones. Stones have two grades, fine are preferred for hard materials and a coarse for soft materials.

When grinding, should surface of the stone become "loaded" (coated with particles of the material being ground) it is probably the wrong grade of stone for the job.

Important reminder: Grinding stones **MUST ONLY** be assembled by a person holding a grinding wheel certificate. See Section 4.

5.3. Using the Grinder.

WARNING! Before commencing work, ensure you read, understand and apply the Safety Instructions.

Plug grinder into the mains power supply.

Place the eyeshield in its appropriate safety location.

Switch the grinder on and bring the workpiece slowly into contact with the spinning stone.

Use the entire front face of the grinding wheel surface, avoid grinding grooves in the stone. **DO NOT** use the side of the stone.

Hold work firmly, and gently move the work across the grinder face. **DO NOT** push or force the work and **DO NOT** allow the workpiece to slip in your hands.

When you have completed your task, unplug the grinder from the mains power supply, and clean the machine ready for next use.

6. MAINTENANCE

WARNING! Ensure the grinder is unplugged from the mains power supply before performing any maintenance or service.

6.1. As the grinding stone wears, adjust the position of the tool rests. The rest must set at a minimum of 1.5mm from the stone surface.

6.2. Regularly remove the grinding stone covers and clean out any dust and dirt. **Refer to part 4.2. to remove covers.**

6.3. The machine motor and bearings are sealed units and require no regular maintenance. Should you require assistance, contact your local Sealey service agent.

6.4. For information relating to the handling and maintenance of grinding stones refer to Section 4.

7. DECLARATION OF CONFORMITY

BENCH GRINDER
Model: BG250XL

73/23/EEC Low Voltage Directive
89/336/EEC EMC Directive
98/37/EC Machinery Directive
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 standards and directives.



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

6th April 2001

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: 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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