

SEALEY

Quality MACHINERY

INSTRUCTIONS FOR:
**COMBINATION BELT SANDER, GRINDER,
WIRE BRUSH & POLISHER.**

Model Nos: **SM55 & SM56**

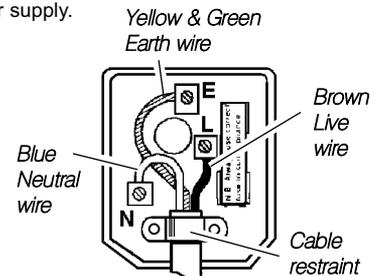
Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



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. PLEASE KEEP INSTRUCTIONS SAFE 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 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 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 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). (UK only - see diagram at right). **Ensure the unit is correctly earthed via a three-pin plug.**
- Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**
 - Connect the BROWN live wire to live terminal 'L'.**
 - Connect the BLUE neutral wire to the neutral terminal 'N'.**
 - After wiring, check that there are no bare wires, that all wires have been correctly connected, that the outer insulation extends beyond the cable restraint and that the restraint is tight.**
- 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 in 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, the use of 2.5mm² section is recommended.
- 1.2 GENERAL SAFETY**
- ✓ Familiarise yourself with the applications, limitations and specific potential hazards of the product.
 - ⚠ **WARNING!** Ensure all Health and Safety, local authority and general workshop practice regulations are strictly adhered to.
 - ⚠ **WARNING!** Disconnect from the power supply before changing accessories, servicing or performing any maintenance.
 - ⚠ **WARNING!** DO NOT grind or sand any materials containing asbestos.
 - ✓ Maintain the machine and keep in good condition (use an authorised service agent).
 - ✓ Check the alignment of moving parts regularly, for safest performance keep the machine clean at all times.
 - ✓ Before each use check all abrasive attachments for condition. If worn or damaged replace immediately.
 - ✓ Replace or repair damaged parts. *Use recommended parts only. Unauthorised parts are dangerous and will invalidate the warranty.*
 - ✓ Locate the machine in a suitable work area. Keep area clean and uncluttered and ensure there is adequate lighting.
 - ✓ Ensure the machine is situated on a solid worksurface, adequate for supporting the weight of the machine and the workpiece.
 - ✓ Ensure there are no flammable or combustible materials near the work area.
 - ✓ Remove ill fitting clothing, ties and loose jewellery and tie back long hair.
 - ✓ Maintain correct balance and footing, ensure the floor is not slippery and wear non-slip rubber soled footwear.
 - ✓ Keep hands and body clear of the work table when operating the machine.
 - ✓ Wear approved safety eye or face protection, when operating the machine. If dust is generated respiratory protection must be worn.
 - ✗ **DO NOT** operate the machine when you are tired, under the influence of alcohol, drugs or intoxicating medication.
 - ✗ **DO NOT** leave the machine running unattended.
 - ✗ **DO NOT** touch the grinding wheel or belt whilst machine is operating, or whilst the machine is plugged into the power supply.
 - ✗ **DO NOT** touch the workpiece immediately after grinding, it will be very hot.
 - ✗ **DO NOT** try to cool the grinding wheel with water or any other lubricants.
 - ✗ **DO NOT** switch the machine on while the workpiece is in contact with the grinding wheel or sanding belt.
 - ✗ **DO NOT** operate the machine if any parts are damaged or missing as this may cause failure and/or personal injury.
 - ✗ **DO NOT** use the machine for any purpose other than that for which it is designed.
 - ✗ **DO NOT** allow children or untrained persons to operate the machine. Keep them away from the work area.
 - ✗ **DO NOT** remove the safety guard whilst in use.
 - ✓ When not in use unplug from the power supply and make every effort to make the machine childproof.



FUSE RATING
SM55 - 5 AMP
SM56 - 13 AMP

2. TECHNICAL SPECIFICATIONS

Model SM55

Grinding Wheel	.150 x 25 x 20mm
Grinding Speed	.2580rpm
Wire Brush	.150 x 16 x 12mm
Buffing Mop	.125 x 16 x 12mm
Sanding Belt	.1000 x 50mm
Sanding Speed	.910m/min
Motor	.370 watt
Supply	.230V AC

Model SM56

Grinding Wheel	.200 x 25 x 20mm
Grinding Speed	.2580rpm
Wire Brush	.200 x 16 x 12mm
Buffing Mop	.175 x 19 x 12mm
Sanding Belt	.1000 x 100mm
Sanding Speed	.910m/min
Motor	.740 watt
Supply	.230V AC

3. ASSEMBLY & ADJUSTMENT

WARNING! Before use the machine must be bolted to a stable, fireproof bench or table which is strong enough to take the weight of the machine and any workpiece. Failure to comply with this instruction could result in severe personal injury.

3.1. Unpack the product and check contents. If there are any damaged or missing parts contact your supplier immediately.

3.2. EYE SHIELD

- 3.2.1. Remove protective film from eye shield, place support plate on top and assemble (fig. 1).
- 3.2.2. Take assembled eye shield and support plate and attach mounting bracket as shown in (fig. 2).
- 3.2.3. Attach the whole assembly to the top left hand side of the grinding wheel cover.
- 3.2.4. Adjust so the bottom of the mounting bracket is no more than 2mm from the grinding wheel.

NOTE : The eye shield assembly will need to be adjusted regularly as the grinding wheel wears.

3.3. TOOL REST

- 3.3.1. Attach the tool rest to the bottom left hand side of the grinding wheel cover (fig. 3), and adjust so the top of the tool rest is no more than 2mm from the grinding wheel.

NOTE : The tool rest assembly will need to be adjusted regularly as the grinding wheel wears.

3.4. SANDING BELT ASSEMBLY

3.4.1. Sanding frame:

- a) Remove protective cover (fig. 6) and belt.
- b) Remove nut from rotor shaft on the left hand side of the machine.
- c) Place sanding frame over locating flange and tighten the allen bolt with allen key (fig. 4).
- d) Mount the bottom roller on rotor shaft, ensuring keyway in roller locates with key on rotor shaft.
- e) Re-fit and tighten nut with socket wrench to secure roller onto rotor shaft.

3.4.2. Sanding belt:

- a) SM55 - Push downwards on the ball knob until the two steel balls (1 on each side of frame) lock in the stop holes (fig. 5).
- SM56 - Turn the tension lever anti-clockwise to lower the top roller (fig. 6).
- b) Turn tracking knob as necessary so that top roller is at 90° to the frame and place the sanding belt over the two rollers.
- c) SM55 - Release the ball knob by carefully depressing the steel balls with a suitable instrument. **DO NOT** use fingers.
- SM56 - Turn the tension lever clockwise to raise the top roller and tension the belt.

3.4.3. Protection cover (fig. 6):

- a) Fit the protection cover with the waste pipe downwards.
- b) Secure the protection cover with the two bolts and washers provided.

3.5. WORKING TABLE

- 3.5.1. Attach working table as shown (fig. 7).
- 3.5.2. Pivot to desired angle and ensure locating pin is in place before tightening allen bolt.

3.6. WIRE BRUSH & POLISHER

- 3.6.1. Lightly oil machine shaft and inside of adaptor, hold grinding wheel and attach adaptor (fig. 8).
- 3.6.2. Place wire brush or polisher onto adaptor and tighten securely, ensuring that disc washers are correctly positioned with concave sides facing inwards.

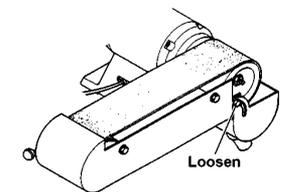
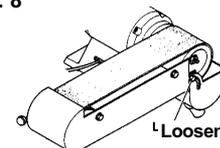
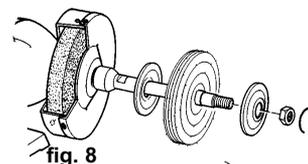
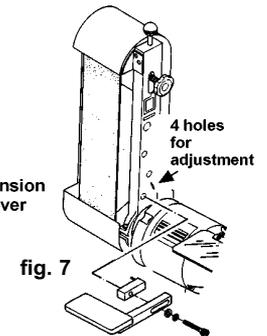
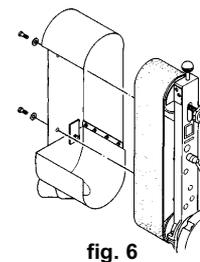
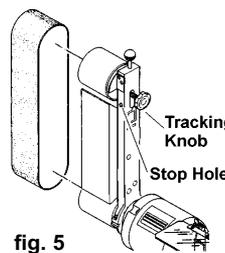
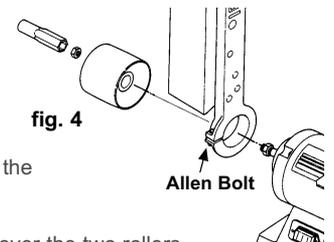
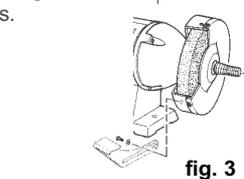
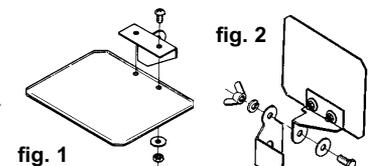
3.7. ADJUSTING SANDING POSITION

3.7.1. Sanding curves:

- a) Adjust frame assembly to a horizontal position as 3.7.2.
- b) Loosen bolt securing the bottom roller cover (fig. 9).
- c) Set the roller cover to reveal just sufficient sanding belt and re-tighten bolt.

3.7.2. Sanding position:

- a) Loosen allen bolt with allen key (fig. 10), **take care** not to over loosen the allen bolt as the assembly will drop suddenly.
- b) Adjust the frame assembly to the desired position.
- c) Once the position is set re-tighten the allen bolt securely.

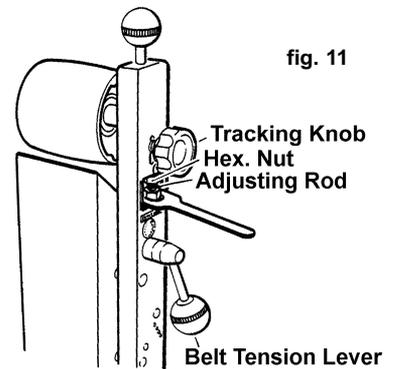


3.8. ADJUSTING BELT POSITION (BOTH MODELS)

- 3.8.1. Turn tracking knob clockwise to move belt right, or anti-clockwise to move belt left.
- 3.8.2. Start the machine, if necessary readjust the belt with the machine running.

3.9. ADJUSTING BELT TENSION SM56 ONLY (fig. 11)

- 3.9.1. Remove the protection cover.
- 3.9.2. Turn belt tension knob 120° clockwise and remove the sanding belt.
- 3.9.3. Remove the cover beneath the tracking knob.
- 3.9.4. Turn the tension nut clockwise with a 12mm spanner (supplied) to loosen.
- 3.9.5. Turn adjusting rod clockwise to increase belt tension.
- 3.9.6. Fix the position by re-tightening the tension nut anticlockwise.
- 3.9.7. Replace the sanding belt and protection cover and turn belt tension knob 120° anticlockwise.



4. OPERATING INSTRUCTIONS

- WARNING! Before each use** rotate the sanding belt and grinding wheel by hand to check they are undamaged and secure. Remove adjusting keys and wrenches before switching on the machine. *Ensure you wear approved safety goggles, gloves and ear defenders. If the machine generates dust, respiratory protection must be worn.*
- WARNING! Avoid subjecting machine** to excessive strain or harsh impact. **DO NOT** force the workpiece against the belt or wheel. *Failure to comply with this instruction may cause the wheel to break resulting in severe personal injury.*
- WARNING! DO NOT** switch on the machine whilst the workpiece is in contact with the belt or wheel. Keep all guards and holding screws in place, tight and in good working order. A guard, or any other part, that is damaged must be repaired or replaced **before** the machine is used. The safety guard is mandatory when the machine is used in premises covered by the Health & Safety at Work Act.

4.1. SANDING

- 4.1.1. When using the sanding belt attachment **always** utilise the work table. **Extreme** caution should be taken if the workpiece is being sanded on any other part of the sanding belt. The direction of rotation will cause the belt to pull the workpiece downwards. We recommend that the work table is positioned as close as possible to the sanding belt.

4.2. GRINDING

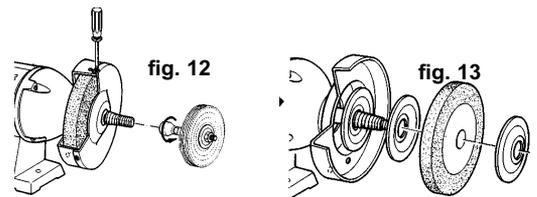
- 4.2.1. All grinding should be done as slowly as possible, maintaining a controlled progression. Rather than attempting to grind the workpiece in one go, you should complete the task in even, controlled stages. Never force the workpiece into the grinding wheel and remember that metals being ground will increase in temperature quickly. **DO NOT** touch the workpiece close to the cut as it may be very sharp. Remember that serious personal injury may result if the above advice is not followed.

5. GRINDING WHEEL

- WARNING!** Grinding wheels used in association with this machine **must be** of an adequate speed rating and size. The wheels must also be made in accordance with British Standard 4481:Part 1 1989.
- DANGER! Only persons holding a grinding wheel certificate are authorised to change the grinding wheel.**
- DANGER! Damaged wheels are dangerous.** Before each use check they are secure and not damaged, mis-shapen, chipped or cracked in any way. Also check that the washers are not deformed. **Damaged wheels must be replaced immediately** as they could break, resulting in personal injury.

5.1. REPLACING GRINDING WHEEL

- 5.1.1. If fitted, remove the complete adaptor assembly, including the wire brush or polisher, and remove the wheel cover (fig. 12).
- 5.1.2. Holding the grinding wheel firmly in your hand with a rag or cloth, unbolt the retaining nut with the socket wrench and remove the wheel (fig. 13). It may be necessary to strike the wrench with the heel of your hand.
- 5.1.3. Inspect the wheel for cracks, chips and any other visible damage other than normal wear. Discard if any damage is noted. Inspect the blotter, if missing or damaged replace with a thin piece of cardboard, or paper cut to the same shape. **Never use a grinding wheel without a blotter.**
- 5.1.4. When installing a new wheel ensure disc washers are placed concave side facing inwards.
- 5.1.5. Hold the wheel as before and tighten the nut firmly. Do not overtighten as this will cause it to crack.
- 5.1.6. Replace the wheel cover and adjust the tool rest and eye shield (See 3.2. & 3.3.).



NOTE: When a new wheel has been fitted, start the machine, let it run for a short period with no load and check for vibration.

5.2. MAINTENANCE

- 5.2.1. The wheel may require dressing occasionally. This must only be done by a qualified person, using the correct type and size of dresser.
- 5.2.2. Regularly remove the outer wheel guard and clean out any dust.

COMBINATION BELT SANDERS Models SM55 & SM56

89/392/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 products listed here are in conformity with the following standards and directives.



Signed by Mark Sweetman

Date 23rd January 2001

The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to 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: 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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