



INSTRUCTIONS FOR:
BANDSAW & SANDER
 Model No: **SM1210**

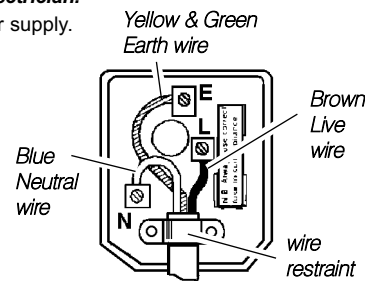
Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

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 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 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. Products such as welders must not be pulled or carried by their output cables.
- 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.**
 - 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'.**



FUSE RATING
 THIS PRODUCT MUST BE FITTED WITH A:
5 Amp FUSE

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 and 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 that you discuss the installation of a industrial round pin plug & socket with your Electrician.

1.2 GENERAL SAFETY

- ⚠ **WARNING!** Disconnect the saw from the mains power before changing saw blades and accessories, servicing or performing maintenance.
- ✓ Mount the saw to a secure surface such as a work table, workbench or floor. Keep area clean and tidy and free from unrelated materials, and ensure there is adequate lighting.
- ✓ Maintain the machine in good condition (use authorised service agent only).
- ✓ Replace or repair damaged parts. *Use recommended parts only. Non authorised parts may be dangerous and will invalidate the warranty.*
- ✓ Replace table insert when worn.
- ✓ Keep the machine clean for best and safest performance and check moving parts alignment regularly.
- ✓ Before each use check saw blade and abrasive attachments for condition. If worn or damaged replace immediately.
- ✓ Place the blade guard to within 1/8" of the material being cut.
- ✓ Adjust the sanding table to within 1/16" of the disc to avoid catching the work piece or your fingers between the table and the disc.
- ⚠ **WARNING!** Keep all safety 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 the machine is used. The safety guard is a mandatory fitting.
- ✓ Keep saw clean and sharp for best and safest performance. Follow the instructions for changing accessories.
- ✓ Use only the recommended accessories with speeds rated equal to or greater than the tool. Improper accessories can be hazardous.
- ✓ Remove adjusting keys and wrenches from the machine and its vicinity before turning it on.
- ✓ Wear approved safety eye protection, ear defenders, and if dust is generated respiratory protection.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and contain long hair.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non slip shoes.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Secure non stable work piece with a clamp, vice or other adequate holding device.
- ✓ Avoid unintentional starting.
- ✓ Keep hands and fingers at a safe distance from the saw blade, especially at the end of a cut. Guide the work with a piece of wood or push rod instead of your fingers when cutting small pieces.
- ✓ Disconnect the saw from the power supply before removing wood chips or dust.
- ✓ Use a support when sawing material without a flat surface to rest on.

1.2 GENERAL SAFETY Cont:

- x DO NOT operate the machine if damaged.
- x DO NOT operate the machine if any parts are missing as this may cause failure or possible personal injury.
- x DO NOT use saw bands which are damaged or deformed. Use only Sealey blades and spare parts. Non standard blades can be dangerous.
- x DO NOT get the machine wet or use in damp or wet locations or areas where there is condensation.
- x DO NOT expose the saw housing to flame or high temperature.
- x DO NOT use as a bandsaw unless the sanding disc guard is in place.
- x DO NOT use as a sander without the sanding table attached.
- x DO NOT wet the abrasive sanding surface. Water entering the tool could cause an electrical hazard.
- x DO NOT sand transit, asbestos, paint or magnesium. The dust produced from these materials is hazardous and/or flammable.
- x DO NOT allow untrained persons to operate the machine.
- x DO NOT use machine where there is flammable liquids, solids or gases such as paint solvents, including waste wiping or cleaning rags etc.
- x DO NOT leave the machine operating whilst unattended.
- x DO NOT operate the machine when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- x DO NOT force the machine to achieve a task it was not designed to perform.
- ✓ When not in use switch the machine off and lock by removing the switch toggle marked "REMOVE TO LOCK" and unplug from mains power.

2. DESCRIPTION & SPECIFICATIONS

SM1210 is for cutting, wood and non-ferrous soft metals, and for sanding and finishing metals, wood and plastics. DO NOT use on any other materials.

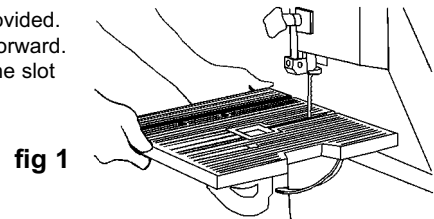
| | | | |
|------------------------------|-------------|-----------------------------|---------------|
| Max Cutting Height | .98 mm | Table Size | .292 x 292 mm |
| Throat Depth | .250 mm | Sanding Disc Size | .150 mm |
| Motor Power | .1/3Hp | Disc Speed | .1720 rpm |
| Blade Length | .1425 mm | Disc Table Tilt | .0-45° |
| Cutting Speed | .780 m/min | Net/Gross Weight | .16.4/19.4 kg |
| Power Supply | .230V - 1ph | Dust Extraction | .50mm Ø |

3. ASSEMBLY

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

3.1. BANDSAW ASSEMBLY:

- 3.1.1. Attach the two bases to saw body with the wrench, with 4 bolts and 4 washers provided. The base piece with the arrow must be fitted on the front with the arrow pointing forward.
- 3.1.2. Place the saw table onto the saw frame. Be sure to slide the saw blade through the slot in the table and that the angle gauge meets the ridge on the saw body (fig 1).
- 3.1.3. Using the table tilt lock knobs, secure the table to the frame.
- 3.1.4. Attach the pointer to the frame using the screw provided.
- 3.1.5. Re-fit the table alignment screw and clamp.



3.2. ASSEMBLY AS A POWER DISC SANDER:

⚠ WARNING! Avoid trapping your fingers or workpiece by ensuring that the sanding table is no more than 1/16" away from the sanding disc.

- 3.2.1. Remove the saw blade as explained below in "Changing Blades".
- 3.2.2. Remove the sanding disc cover.
- 3.2.3. Secure the disc guard with the three screws provided.
- 3.2.4. Place the set screw so that it just rests in the threaded hole in the sanding disc. Slide the disc onto the motor shaft until the disc surface and shaft are almost flush. Do not allow the shaft to extend beyond the surface of the sanding disc during operation.
- 3.2.5. Tighten the set screw with the long hex wrench provided.
- 3.2.6. Insert the table support rod into the base, leaving about 70mm of the rod extending outside the base.
- 3.2.7. Install the bolt in the base and tighten with a 1/2" wrench.
- 3.2.8. Slide the table assembly onto the rod then install and tighten the knob.

4. MACHINE ADJUSTMENTS

⚠ WARNING! ENSURE THE MACHINE IS DISCONNECTED FROM THE MAINS POWER SUPPLY BEFORE ATTEMPTING ANY ADJUSTMENTS.

4.1. CHANGING BLADES :

- 4.1.1. Remove the front cover.
- 4.1.2. Release blade tension by turning the lock knob (no. 68) counter-clockwise.
- 4.1.3. Remove the side cover, upper blade guard and table alignment screw.
- 4.1.4. Carefully remove the saw blade.
- 4.1.5. Install the new saw blade. Be sure the teeth are pointing down.
- 4.1.6. Adjust the new blade to the proper tension (see below).
- 4.1.7. Reinstall the table alignment screw and upper blade guard.
- 4.1.8. Attach the side cover.

4.2. ADJUSTING BLADE TENSION:

- 4.2.1. Loosen the blade tension lock knob (no.68) 1/4 turn counter-clockwise.
- 4.2.2. Remove the side cover.
- 4.2.3. Turn the blade tension adjusting knob (no.81) clockwise. Correct tension is reached when the blade gives slightly in the middle to firm finger pressure.
- 4.2.4. Tighten the blade tension lock knob.
- 4.2.5. Replace the side cover.

4.3. ADJUSTING BLADE TRACKING:

- 4.3.1. Remove the side cover and rotate the lower wheel clockwise to determine how the blade is tracking on the three wheels.
- 4.3.2. If adjustment is needed, loosen the blade tension lock knob (no.68) 1/4 turn counter-clockwise.

- 4.3.3. Using the hex wrench, turn the blade tracking screw (no.72) clockwise slightly to move the blade to the rear, and counter-clockwise to move the blade to the front.
- 4.3.4. Tighten the blade tension lock knob and rotate the wheel as in step 2. Repeat the procedure as necessary.
- 4.3.7. Replace the side cover.

4.4. ADJUSTING UPPER BLADE GUIDE ASSEMBLY:

The assembly should always rest about 1/8" above, or as close as possible to the top surface of the workpiece. To adjust, loosen the knob (no.19) and slide the assembly to the desired position.

4.5. TABLE ADJUSTMENTS

It is recommended that both saw table and sanding table be set at 90°. To do this, use a square to compare the saw table's angle to the saw blade and the sanding table's angle to the sanding disc. Loosen the tables and adjust until they are square (for the band saw table, turn the 90° positive stop (no.51) until the set screw touches the frame). Fix the tables in position and set the indicators to zero. To tilt the tables after adjustment, loosen the table lock knobs beneath them and adjust to the desired angle.

WARNING! Avoid trapping your fingers or workpiece by ensuring the sanding table is no more than 1/16" away from sanding disc.

4.6. BLADE GUIDE ADJUSTMENTS

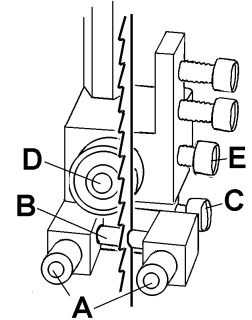
4.6.1. Upper blade guide

- a. Loosen the two screws (A) and adjust the blade guides (B) as close as possible to the sides of the blade. Do not pinch the blade.
- b. Tighten the two screws (A). Loosen screw (C) and move the guide bracket in or out until the front edge of the guides are just behind the blade "gullets".
- c. The upper blade support bearing (D) prevents the saw blade from being pushed too far back while cutting. It should be adjusted approximately 1/32" behind the blade by loosening the screw (E), positioning the bearing behind the blade, then tightening the screw.

4.6.2. Lower blade guide

- a. Follow steps 1-3 above using the corresponding items for the lower blade guide.
- b. The lower blade guide bracket should always be adjusted as close as possible to the table to properly support the blade. Loosen the screws on the side of the bracket, move the bracket, then tighten the screws.

fig 2



5. OPERATING INSTRUCTIONS

- 5.1. **CROSS CUTTING.** To cut wood at right angles to the grain. This type of cut can also be made freehand but using the mitre guide ensures accurate results. The guide can also be adjusted to a 45° angle to produce mitre cuts, or compound mitre cuts with the table tilted. Ensure the work is held firmly against the table and against the face of the mitre guide. **WARNING!** Keep your fingers away from the blade, particularly at the end of the cut. A stop rod can be attached to the mitre guide to provide an end stop for cross cutting several pieces to the same width. The end stop is also used to support work when cutting with the table tilted.
- 5.2. **FREEHAND SAWING.** When freehand cutting, select a blade suitable for cutting the smallest radius in the work you have planned. Always feed the work slowly to follow your saw line. Ensure you do not drag the work off the line forcing the blade sideways or twisting the blade. It may be helpful to make a rough cut about 6 mm away from the line. For difficult curves which may be too tight for the blade, make relief cuts on the face of the curve so the scraps will fall away as the final radius is cut.
- 5.3. **CUTTING NON-FERROUS METALS.** Cut metallic work at the lowest bandsaw speed. DO NOT saw metal at wood cutting speeds which will burn the blade. Having adjusted the speed and blade selection, sawing metal is comparable to procedures for wood. You must however only feed the work piece at the rate the blade can cut. Metals do not have the "give" that timber has, so work pieces must be held very firmly to prevent twisting or misalignment of the blade while feeding.

6. MAINTENANCE

WARNING! ENSURE THE MACHINE IS DISCONNECTED FROM THE MAINS POWER SUPPLY BEFORE CARRYING OUT ANY MAINTENANCE.

- 6.1. **CHANGING TYRES:** Eventually the rubber tyres on the bandsaw wheels will wear due to the constant contact with the blade teeth. Lift the edge of the tyre with a small screwdriver and the tyre can be worked off the wheel easily. It is recommended that all three tyres be changed at the same time.
- 6.2. **BLADE GUIDES:** Blade guides should be inspected regularly for wear or chipping. When replacing guides, replace all guides at the same time, both upper and lower.
- 6.3. **BEARINGS:** All bearings used in the construction of the bandsaw and its motor are sealed and lubricated for life.
- 6.4. **CLEANING:** Remove dust and chips from the inside of the bandsaw frequently. Remove the front cover and use a brush or vacuum cleaner. At the end of every work session, clean sawdust away from the motor vents.

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

Bandsaw & sander Model SM1210
 EN50081-1 Generic emission standard
 EN55014 Limits & methods of measurement of radio disturbances characteristics of household electrical appliances, portable tools and similar electrical apparatus.
 73/23/EEC Low Voltage Directive (S.I. 1994/3260)
 89/392/EEC Machinery Directive (S.I. 1992/3073)
 89/336/EEC EMC Directive (S.I. 1992/2372)
 93/68/EEC CE Marking Directive.



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

Signed by John Sealey

1st October 1998

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.



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