



Instructions For:
12" & 14" Band Saw
Model No: **SM59 & SM60**

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

BEFORE USING THIS PRODUCT, PLEASE READ THE INSTRUCTIONS CAREFULLY. MAKE CAREFUL NOTE OF SAFETY INSTRUCTIONS, WARNINGS AND CAUTIONS. THIS PRODUCT SHOULD ONLY BE USED FOR ITS INTENDED PURPOSE. FAILURE TO DO SO MAY CAUSE DAMAGE OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY.

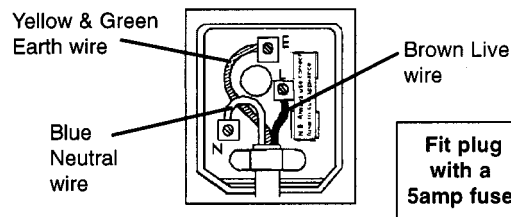
(The use of symbols in this document is to attract your attention to possible danger. The symbols and warnings themselves do not eliminate any danger, nor are they substitutes for proper accident prevention measures).

1. SAFETY INSTRUCTIONS

DO check regularly for worn or damaged power cord. Replace worn or damaged cords immediately.
DO make sure the voltage from the power source matches the system's voltage.
(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).

PLUG FITTING INSTRUCTIONS (U.K. Only)

- ✓ 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.
- ✓ Always replace worn or damaged electrical cords or plugs immediately.
- ✓ This unit must be plugged into an appropriate electrical outlet.
- ✓ DO NOT use an adaptor.
- ✓ If in any doubt contact a qualified electrician.



DO familiarise yourself with this product's applications and limitations, as well as the specific potential hazards peculiar to this tool.

WARNING! DO disconnect system from power supply before opening the guard, servicing, changing accessories or performing maintenance.

WARNING! DO keep machine in good working order and condition. Keep blades sharp, immediately replace damaged or distorted blades.

Replace table insert when worn. *(Take immediate action to repair or replace damaged parts).*

DO use recommended parts only. *(Non recommended parts may be dangerous and will invalidate the warranty).*

DO ensure the machine is connected to appropriate dust extraction equipment (see 3.17)..

DO keep all guards and holding screws in place, tight and in working order. Guards must be in good working order.

DO check for correct alignment of moving parts and for possible broken or loose mountings.

DO ensure the space required for use and maintenance of the machine is adequate, free from unrelated materials and has good lighting.

DO remove any adjusting keys and wrenches from the machine before operating.

DO NOTE: In principle, the safety cut out should activate if the saw door or guard is opened. we strongly recommend however that you disconnect machine from the power supply before opening the door or guard.

DO wear approved eye and ear protection when operating the machine. If dust is produced wear an approved face or dust mask.

Approved safety products are available from your Sealey dealer.

DO keep a correct footing and balance at all times.

DO ensure work piece is secured with a clamp.

DO keep children and unauthorised persons away from the working area. Keep area child proof by use of padlocks and master switches.

DO hold workpiece firmly against the table.

DO ensure that large or oversize workpieces are supported at table height.

DO be cautious when cutting workpieces which are irregular in cross-section. The saw blade could pinch before the cut is completed.

Any stock such as frame moulding, must lay flat on the table surface and not be allowed to rock.

DO ensure you use a suitable support for any workpiece that does not have a flat surface.

DO feed workpiece at a careful rate just fast enough for the blade to cut. **(NEVER FORCE A WORKPIECE THROUGH THE BLADE).**

WARNING! DO TURN THE MACHINE OFF before backing out an incomplete workpiece.

DO NOT use the machine for anything other than its intended purpose.

DO NOT use the machine without guards, and the wearing of approved eye and ear protection. If dust caused use face or dust mask.

DO NOT wear ill fitting clothing; remove ties, watches, rings and other jewellery. Tie up, or adequately cover long hair.

DO NOT use this machine in wet or damp locations.

DO NOT use machine in areas where fumes from paint, solvents, or flammable liquids pose a potential hazard. Keep all flammable materials (including wiping, or cleaning rags) away from the saw, and dispose of according to local regulations.

DO NOT use blades which are becoming blunt. (The efficiency the machine is very dependent upon the use of sharp blades)

DO NOT attempt to cut a workpiece that is too small to be held by hand.

DO NOT feed a workpiece too fast while cutting.

DO NOT stand on the machine.

DO NOT leave the machine running when unattended. Turn the power switch OFF and do not leave the area until machine has stopped.

DO NOT use whilst under the influence of drugs, alcohol or other intoxicating medication.

WARNING! This saw is designed for cutting wood and some soft metals. DO NOT cut hard metal or any such materials.

Dowel rods and tubing have a tendency to roll while being cut and cause the blade to "BITE". DO NOT cut such items without clamping or blocking the workpiece.

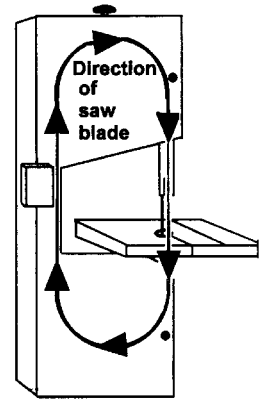
2. SPECIFICATIONS

MODEL SM59

Capacity:	125x305mm
Table Tilt:	L-15° R-45°
Mitre Gauge Tilt:	L-45° R-45°
Table Size:	305 x 305mm
Running Speed:	2286 f/min
Blade Length:	2045mm
Motor Size:	1/2Hp 230V
Dust Extraction Ø:	37mm
Stand Part No:	SM59ST
Saw Blade Capacity:	158x305mm
Blade Speed:	666mpm
Recommended Fuse:	6amp
Airborne Noise:	The Main Sound Level: 76.96 dB (A)

MODEL SM60

Capacity:	90x355mm
Table Tilt:	L-10° R-45°
Mitre Gauge Tilt:	L-45° R-45°
Table Size:	355 x 355mm
Running Speed:	3000 f/min
Blade Length:	2489mm
Motor Size:	3/4Hp 230V
Dust Extraction Ø:	80mm
Stand Part No:	SM60ST
Saw Blade Capacity:	190x355mm
Blade Speed:	914mpm
Recommended Fuse:	6amp
Airborne Noise:	The Main Sound Level: 76.96 dB (A)



3. ASSEMBLY

WARNING! BEFORE FOLLOWING ANY OF THE STEPS BELOW, BE SURE TO DISCONNECT THE SAW FROM THE POWER SUPPLY!

Refer to the parts diagram to identify items.

- 3.1. Remove parts of the saw from package. Inspect thoroughly for damage. Do not assemble the tool with damaged parts. Contact your supplier for replacement parts.
- 3.2. The protective coating on the band saw must be removed with a cloth moistened with kerosene. Do not use acetone, gasoline or lacquer thinner for cleaning.
- 3.3. To assist the workpiece slide across the table's surface, apply a coat of paste wax.
- 3.4. Ensure there is at least 2sq. metres of space for the saw, and 8 metres of free space in all directions around it before assembly.
- 3.5. Stand assembly is optional. Contact your supplier if required. If no stand is used, we recommended that you bolt the saw to a secure surface, i.e. work table or workbench strong enough to support the saw and the heaviest workpiece you are likely to use.
- 3.6. Attach the pulley to the motor shaft and remove the lower wheel to expose the lower wheel pulley.
- 3.7. Place the V-Belt over the wheel pulley. Loosen the hex head screws holding the motor to the base and raise the motor to allow the belt to slip onto the motor pulley (Fig 1.).
- 3.8. Align the motor pulley to the wheel pulley by adjusting the motor forward or back by means of the slotted holes on the motor mount.
- 3.9. With the pulleys aligned, secure the screws attaching the motor to the base and check the belt tension. Correct belt tension should allow for one inch of movement in the middle of the belt.
- 3.10. Remove the tapered pin from the band saw table and loosen the hex head screws holding the trunnion to the underside of the table.
- 3.12. Guide the saw blade through the table slot from the rear.
- 3.13. With the blade located in the centre hole, line up the slotted holes of the larger rear trunnion with the short and long table shafts and at the same time position the other end of the long shaft into the slotted hole of the front trunnion (Fig 2.).
- 3.14. Insert the trunnion tension bolt into the long shaft from the rear of the machine and secure at the other end by screwing on the trunnion adjusting knob with the washer.
- 3.15. Re-tighten the four hex head screws holding the trunnion to the underside of the table.
- 3.16. Replace the tapered pin.
- 3.17. Dust Extraction.
 - 3.17.1. The dust extraction outlet is located at the rear of the machine, next to the motor.
 - 3.17.2. Attach an extraction hose with a diameter of 80mm.
 - 3.17.3. Extraction equipment must be switched on before cutting is commenced and left on briefly after the cut has been completed.

Fig 1

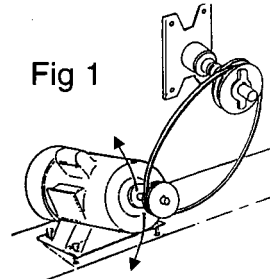
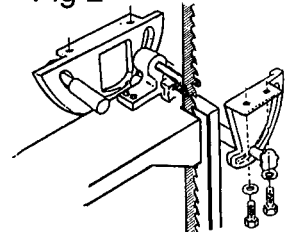


Fig 2

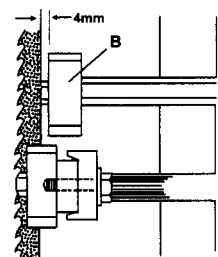


4. SETTINGS & ADJUSTMENTS

- 4.1. **ADJUSTING THE BLADE TENSION:** To adjust the tension of the blade, twist the knob (87) on the top of the frame clockwise to tighten, counter-clockwise to loosen. When the band saw is not in use, we recommended one loosen the tension.
- 4.2. **BLADE ALIGNMENT:**
 1. Loosen the blade tension as described above.
 2. Open the upper wheel door and carefully spin the wheel. Look for blade travel in the centre of the upper tyre.
 3. If the blade moves forward, adjust by turning alignment screw counter-clockwise. If blade moves to the rear, turn screw clockwise.
 4. Continue making slight adjustments while spinning the wheel slowly until the blade is aligned.
- 4.3. **BLADE GUIDE ADJUSTMENT:**

For the UPPER BLADE GUIDE assembly, the guide bearings are held in place by two hex head screws which attach to a guide block behind each bearing. The guide blocks are each attached by screws to a single bracket. Both bearings should lightly touch the blade's sides. Adjustments are made with the two screws that attach the guide blocks to the bracket. The blade guide bearing (Fig 3. item B) prevents the blade from being pushed too far back and protects the blade from teeth damage. This bearing must be set 0.4 mm behind the blade (Fig 3.). To adjust, loosen the lock knob and re-position the bearing shaft until the 0.4 mm spacing is achieved. Re-tighten the lock knob.

Fig 3



4.4. **LOWER BLADE GUIDE** and bearing adjustments should be made immediately following adjustments to the upper guide and bearings. The lower guide bearing should be set 0.4 mm behind the blade. The adjustment is made by loosening the set screw and moving the bearing shaft forward or back in the housing. Bearing movement to the left or right of the blade is made with the two hex head screws. To adjust:

- a) Loosen the hex head screws on both bearings. Notice that they are attached directly to the bracket without blocks.
- b) Re-position both bearings on the bracket to make light contact with both sides of the blade and tighten bearing screws.
- c) Forward or backward movement is made by loosening the set screw.

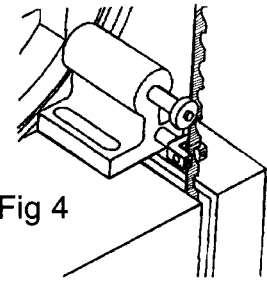


Fig 4

4.5. **TABLE TILT:**

- a) Loosen the hand knob at the side of the table.
- b) Tilt the table to the desired angle using the scale on the rear trunnion.
- c) Re-tighten the knob.

4.6. **BLADE REPLACEMENT:**

- a) Release the tension on the blade as described above.
- b) Remove the tapered table pin and table insert.
- c) Slip the blade off the wheels and guide it out through the table slot.
- d) Slip the new blade on by following the above procedures in reverse.
- e) Adjust the tracking and tension as described above.
- f) Replace the tapered table pin and insert.

4.7. **BLADE SELECTION:** Use the blade selections recommended below for cutting the following materials:

SOFT WOOD -	6 TPI
ALUMINIUM -	4 TPI
COPPER -	12 TPI
PLASTIC -	4 TPI

WE STRONGLY RECOMMEND THAT ONE HOLDS A STOCK OF SHARP SPARE BLADES

Declaration of Conformity

We, the sole importer into the UK, declare that the products listed below are in conformity with the following EEC standards and directives.

12 & 14" Band Saws Models: SM59 & SM60

72/23/EEC
Low Voltage Directive (S.I. 1994/3260)

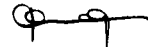
89/336/EEC
EMC Directive (S.I. 1992/2372 & Amendments)

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



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

Signed by John Sealey



Date 1st November 1997

Authorised representative for Taiwan registered company 55654778

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

IMPORTANT

NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THIS EQUIPMENT.

WARRANTY

GUARANTEE IS 12 MONTHS FROM PURCHASE DATE. PROOF OF PURCHASE WILL BE REQUIRED FOR ANY CLAIM.

INFORMATION

PLEASE CALL US FOR A COPY OF OUR LATEST CATALOGUE.



Sealey Group
Bury St. Edmunds,
Suffolk.

SM59 & SM60 - Job 57- 121197



01284 757500



01284 703534

e-mail: sales@sealey.co.uk