



PROFESSIONAL BANDSAWS 305MM & 355MM

MODEL NO'S: **SM1305 & SM1306**

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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instruction manual



Wear eye protection



Wear ear protection



Wear a mask



Indoor use only

1. SAFETY

1.1. ELECTRICAL SAFETY

- ❑ **WARNING!** It is the user's responsibility to check the following:

Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. You may obtain an RCD by contacting your local Sealey dealer.

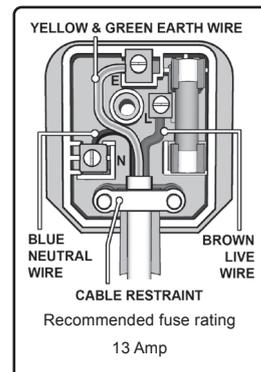
If the product is used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.

Electrical safety information, it is important that the following information is read and understood.

- 1.1.1. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- 1.1.2. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- 1.1.3. **Important:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.

- ✗ **DO NOT** pull or carry the appliance by the power cable.
- ✗ **DO NOT** pull the plug from the socket by the cable.
- ✗ **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.

- 1.1.4. This product is fitted with a BS1363/A 13 Amp 3 pin plug.
If the cable or plug is damaged during use, switch off the electricity supply and remove from use. Ensure that repairs are carried out by a qualified electrician.
Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.
a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.
b) Connect the BROWN live wire to the live terminal 'L'.
c) Connect the BLUE neutral wire to the neutral terminal 'N'.
Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight.
Sealey recommend that repairs are carried out by a qualified electrician.



- 1.1.5. **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. We suggest 1.5mm² section as a minimum 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 saw from the mains power before changing saw blades and accessories, servicing or performing maintenance.
- ✓ Mount the saw to a secure surface such as the stand supplied or a workbench. Keep area clean and tidy and free from unrelated materials and ensure there is adequate lighting.
- ✓ Maintain the saw in good condition (use authorised service agent only).
- ✓ Replace or repair damaged parts. *Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ✓ Keep the machine clean and the blade sharp for best and safest performance. Check moving parts alignment regularly.
- ✓ Before each use check saw blade condition. If worn or damaged replace immediately.
- ✓ Place the blade guard to within 1/8" of the material being cut.
- ✓ **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 repaired or replaced before the saw is next used. The safety guard is a mandatory fitting.
- ✓ Remove adjusting keys and wrenches from the saw before turning it on.
- ✓ Wear approved safety eye protection, ear defenders, safety gloves 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 unstable 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 rather than your fingers when cutting small pieces.
- ✓ Disconnect the saw from the power supply before removing wood chips or dust.
- ✓ Use a workpiece support when sawing material which extends beyond the saw table.
- ✗ **DO NOT** operate the machine if damaged.
- ✗ **DO NOT** operate the machine if any parts are missing as this may cause failure and/or personal injury.
- ✗ **DO NOT** use saw blades which are damaged or deformed. Use only Sealey blades and spare parts. Non-standard blades can be dangerous.
- ✗ **DO NOT** get the saw wet or use in damp or wet locations or areas where there is condensation.
- ✗ **DO NOT** expose the saw housing to flame or high temperature.
- ✗ **DO NOT** allow untrained persons to operate the saw.
- ✗ **DO NOT** use saw where there are flammable liquids, solids, gases such as paint solvents and including waste wipers or cleaning rags etc.
- ✗ **DO NOT** leave the saw operating unattended.
- ✗ **DO NOT** operate the saw if either of the blade covers is open or if the blade guard is not fitted.
- ✗ **DO NOT** operate the saw when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** use the saw for a task it is not designed to perform.
- ✓ When not in use switch off the saw and unplug from the mains power.

2. INTRODUCTION

Fully approved to current CE directives. Steel chassis with locking blade wheel covers. Smooth operation by bearing-mounted blade wheels and belt drive induction motors. Micro switches prevent operation when either blade wheel cover is open. No-volt release switches prevent uncontrolled blade restart after power interruption. 2-Speed operation enables bandsaw to cut multiple types of materials. Fitted with tilting tables for cutting compound mitres. Fully adjustable blade tracking and tensioning for precise cutting action. Features quick adjusting rip fence, mitre gauge, dust extraction port, blade wheel brushes and push sticks. Supplied with metal stand.

3. SPECIFICATION

Model no:..... SM1305
 Throat depth:.....305mm
 Max. cutting height:165mm
 Table size:500 x 400mm
 Table tilt:0-45°
 Blade length:2240mm
 Cutting speed:360, 660mtr/min
 Motor power:550W
 Supply:230V
 Dust extraction diameter:Ø100mm

Model no:..... SM1306
 Throat depth:335mm
 Max. cutting height:165mm
 Table size:500 x 400mm
 Table tilt:0-45°
 Blade length:2400mm
 Cutting speed:540, 660mtr/min
 Motor power:750W
 Supply:230V
 Dust extraction diameter:Ø100mm

MAIN FEATURES

- A Blade tension adjustment knob
- B Blade cover lock
- C Blade guard height locking knob
- D Blade guard
- E Fence
- F No Volt On/Off switch
- G Fence lock handle
- H Table side guide
- I Mitre guide
- J Blade
- K Drive belt tensioner knob
- L Extraction outlet
- M Tracking adjustment knob
- N Stand

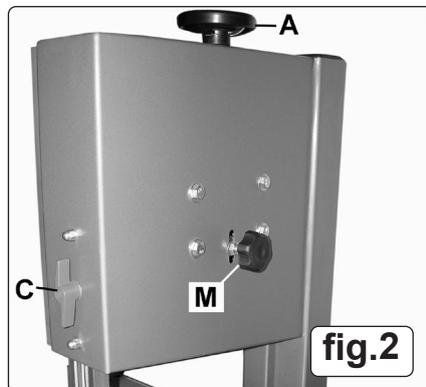
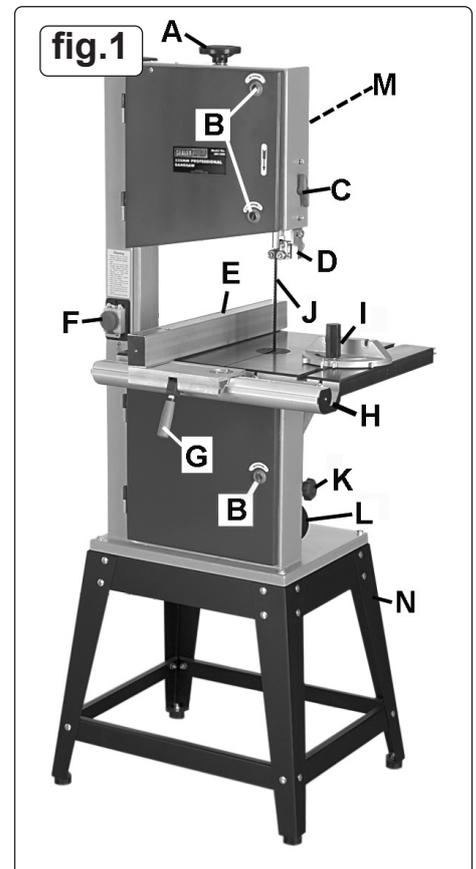


fig.2



4. ASSEMBLY

- 4.1. Unpack the product and check contents for damage. Should there be any damaged or missing parts contact your supplier immediately.
- 4.2. **STAND ASSEMBLY**
Assemble stand as shown in fig.1.N. Ensure all fittings are tight.
- 4.3. **SAW ASSEMBLY**
- 4.4. An assistant may be required to help.
- 4.5. To install the table, place table and support onto the sliding base support, sliding saw blade through the slot in table, and also ensuring bolt (part 126) is in place and aligns with hole in base support.
- 4.6. Secure by threading adjustment knob onto bolt and tightening.
- 4.7. Fit the bolt into the blade slot of table. Attach the table side guide to the table with four bolts and washers.
- 4.7.1. Fit the fence, first align bearing at the far end with one of the table slots, then lower onto table side guide. Push down handle (fig.1.G) to lock when fence is in required position.
- 4.7.2. Position table at right angles to the blade. Using a set square against the blade check for accuracy. If any adjustment is needed, loosen nuts and bolts holding the sliding base support and make any necessary fine adjustments. Tighten all nuts and bolts.

IMPORTANT! Attach the saw to the stand using appropriate bolts, nuts and washers, or alternatively to a firm, stable work surface capable of supporting the saw and any workpiece.

- * **DO NOT** attempt to use the saw as a free-standing unit as it may topple over during use and cause damage and/or personal injury. Connect extraction port (Ø100mm) to dust extractor system (if available).

5. ADJUSTMENTS

- **WARNING! ENSURE THAT THE BANDSAW IS DISCONNECTED FROM THE POWER SUPPLY BEFORE ATTEMPTING ANY ADJUSTMENTS.**

5.1. CHANGING THE BLADE

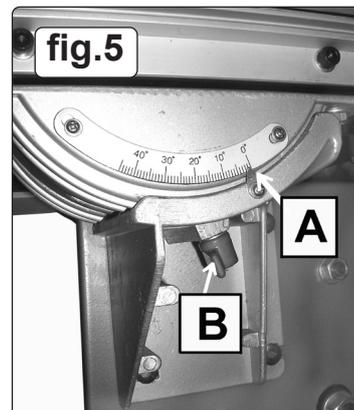
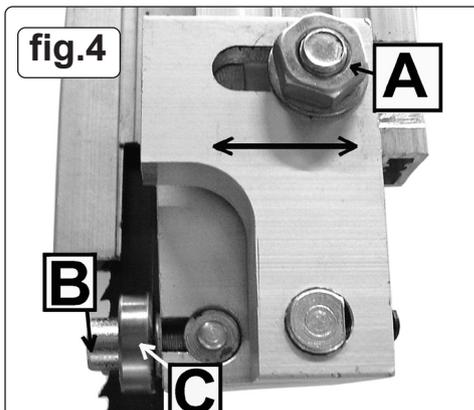
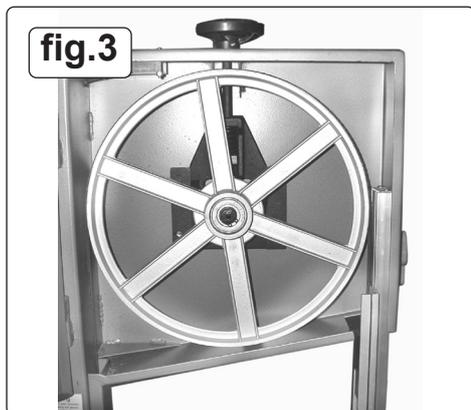
- 5.1.1. Turn the blade cover locks (fig.1.B) anticlockwise to open the upper and lower covers.
- 5.1.2. Turn blade tension adjustment knob anticlockwise (fig.1.A) to slacken the blade.
- 5.1.3. Remove the table side guide and the securing bolt from the table blade slot.
- 5.1.4. Carefully remove the blade.
- 5.1.5. Install the new blade. Be sure the teeth are pointing downwards and outwards. Refit securing bolt and table side guide.
- 5.1.6. Adjust new blade to the correct tension (see .2.) and check, and adjust if necessary, tracking (see 5.3.) and blade guide adjustment (see 5.5.).
- 5.1.7. Close both blade covers and lock with blade cover locks.

5.2. ADJUSTING BLADE TENSION

- 5.2.1. Open the blade covers and check to ensure that blade is centred on both wheel rims (if not, see section 5.3).
- 5.2.2. Turn the blade tension knob (fig.1.A) to adjust the blade tension - clockwise to tighten, anticlockwise to slacken. Correct tension is reached when the blade gives slightly to firm finger pressure at mid-span. **DO NOT** over-tighten.
- 5.2.3. Close both blade covers and lock with blade cover locks.

5.3. ADJUSTING BLADE TRACKING

- 5.3.1. Open blade covers and carefully rotate the upper blade wheel (fig.3) clockwise by hand, to determine whether blade is tracking correctly - blade should be on the centre of each wheel rim.
- 5.3.2. If adjustment is needed, turn the tracking knob (fig.2.M) whilst continuing to turn the upper blade wheel. Note the effect on the tracking and continue to turn tracking knob until tracking is correct.
- 5.3.3. Close both blade covers and lock with blade cover locks.



5.4. UPPER BLADE GUIDE POSITION

- 5.4.1. The upper blade guide should always be adjusted to about 3mm above the workpiece. To adjust, loosen the locking knob (fig.1.C) and lower the assembly to the required position. Tighten locking knob.

5.5. UPPER BLADE GUIDE BEARING ADJUSTMENT

- 5.5.1. The upper blade guide support bearing prevents the saw blade from being pushed too far back when cutting. It should be adjusted to 0.75mm behind the blade. Loosen nut (fig.5.A) and by sliding the bearing holder left or right, position the bearing correctly and then tighten the nut to secure. Re-check for correct positioning.
- 5.5.2. The upper blade guide side bearings prevent the saw blade from being pushed sideways when cutting. Adjust the bearings (fig.5.C) so that each is just clear of the blade. Loosen the socket head screw (fig.5.B) and slide the bearings to position them correctly. Tighten socket head screw to secure. Re-check for correct positioning.

5.6. LOWER BLADE GUIDE BEARING ADJUSTMENT

- 5.6.1. The three lower guide bearings should be adjusted using the same procedure as for the upper guide bearings above. They are positioned within the lower blade cover.
- 5.6.2. All three bearings are held in place by socket head screws. Position each bearing correctly and re-check for correct positioning after tightening the socket head screws..

- Notes:
- a) Always check and adjust both upper and lower guides at the same time.
 - b) Carry out these checks/adjustments every time the blade is changed.
 - c) The blade will be damaged if the teeth contact the guides/guide bearings.

5.7. DRIVE BELT TENSION

- 5.7.1. Open lower blade cover and check belt tension. Belt should have approx. 5mm mid-span deflection under finger pressure.
- 5.7.2. To adjust belt tension turn drive belt tensioner knob (fig.1.K) until correct tension is achieved. Close and lock cover.

5.8. BLADE SPEED

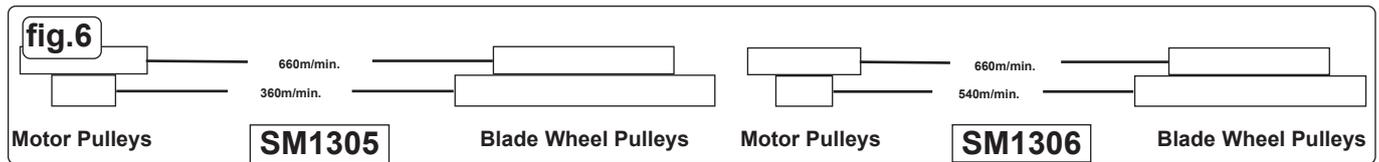
- 5.8.1. Open lower blade cover and remove all belt tension by turning belt tensioner knob anticlockwise (fig.1.K).
- 5.8.2. Move belt to the required pair of pulleys (see fig.6. for required blade speeds).
- 5.8.3. Tension belt correctly (see 4.7.) by turning drive belt tensioner knob (fig.1.K) and close and lock cover.

5.9. MITRE GAUGE

- 5.9.1. The mitre gauge (fig.1.I), which can be located in either of the two table slots, is adjustable through 45° in either direction. Loosen the central locking knob, adjust and then tighten locking knob.

5.10. TABLE ANGLE

- 5.10.1. Loosen the knob (fig.5.A) and adjust table to required angle using the scale (fig.5.B) as a guide. Tighten knob when in required position.



5.11. FENCE

- 5.11.1. The fence (fig.1.E) is mounted on the table side guide (fig.1.H).
5.11.2. To reposition or remove the fence, push up locking handle (fig.1.G). To refit the fence, first align bearing at it's far end with one of the table slots, then lower onto table side guide. Push down handle (fig.1.G) to lock when fence is in required position.

6. OPERATION

- 6.1. To switch saw on, lift the No Volt switch cover and press the on switch. Switch cover should be lowered over on/off switch. Simply hit the No Volt switch to turn saw off. If saw does not switch on, ensure both blade cover doors are shut and secured.
- 6.2. Adjust blade guide to just above the workpiece (3mm). Use both hands to feed workpiece to the blade. Use a steady even pressure sufficient to keep blade cutting but no more. If needed, stop the saw and wait for blade to stop before backing blade out of a cut.
- 6.3. **RIP SAWING**
6.3.1. Cutting wood with the grain. For best results use rip fence on left side of saw to guide workpiece. The table side guide scale shows the distance between the blade and the right hand edge of the workpiece.
- 6.4. **CROSS CUTTING**
6.4.1. To cut wood at right angles to the grain. This type of cut can be made freehand but using the mitre guide ensures accurate results. The guide can also be adjusted up to a 45° angle to produce mitre cuts or compound 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, use an offcut piece of wood to push the last piece of work through.
- 6.5. **FREEHAND**
6.5.1. When freehand cutting, always feed the work slowly to follow your saw line. Ensure you do not drag the work off-line forcing the blade sideways or twisting it. It may be helpful to make an initial rough cut about 5mm 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 that the waste wood will fall away as the final radius is cut.
- 6.6. **BLADE AND BLADE SPEED SELECTION**
6.6.1. The hardness of the workpiece determines the blade speed required. Soft materials - high speed, hard materials - low speed.
6.6.2. There should be at least three saw teeth in contact with the workpiece at any one time during cutting. Therefore the thinner the workpiece the higher the blade tpi required.
- 6.7. **BEVEL CUTTING**
6.7.1. When bevel cutting with the table tilted always have the workpiece guide (fence or mitre) on the lower part of the table.
- 6.8. **WORKPIECE STABILITY**
6.8.1. Any workpiece which does not have a flat surface which will ensure stability on the saw table must be held in a suitable device which will prevent rotation.

7. MAINTENANCE

- WARNING! ENSURE THE MACHINE IS DISCONNECTED FROM THE MAINS POWER SUPPLY BEFORE CARRYING OUT ANY MAINTENANCE.**
- 7.1. **CHANGING BELTS**
7.1.1. Eventually the rubber belts on the bandsaw wheels will wear due to the constant contact with the blade teeth.
7.1.2. Remove blade (see 5.1), lift the edge of the belt (item 19) with a small screwdriver and the belt can be worked off the wheel easily.
7.1.3. It is recommended that both belts be changed at the same time.
- 7.2. **BLADES**
7.2.1. If blades break, check for correct tension after fitting new blade. Also avoid over working blade by keeping to a constant feed rate and avoiding any side pressure on the blade.
- 7.3. **BLADE GUIDES**
7.3.1. Blade guides should be inspected regularly for wear or chipping. When replacing guides, replace all guides at the same time, both upper and lower.
- 7.4. **TABLE INSERT**
7.4.1. The insert should be inspected regularly and replaced if wear or damage is found.
- 7.5. **BEARINGS**
7.5.1. All bearings used in the construction of the bandsaw and motor are sealed and lubricated for life.
- 7.6. **CLEANING**
7.6.1. Remove dust and chips from the inside of the bandsaw frequently. Open the wheel covers and use a brush or vacuum cleaner. At the end of every work session, clean sawdust away from the motor vents.



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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 this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR



01284 757500



01284 703534



sales@sealey.co.uk



www.sealey.co.uk