

Original Instruction Manual

BS300E Premium 12" Bandsaw

Version 3.0
January 2013





To register this product please visit **www.recordpower.info**

It is important to register your product as soon as possible in order to receive efficient after sales support and be entitled to the full **5 year guarantee**. Your statutory rights are not affected.

Please see back cover for contact details.





Always wear safety glasses when using woodworking equipment.





Important

For your safety read instructions carefully before assembling or using this product.

Save this manual for future reference.

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Consumable Spare Parts Quick Find

Part Number	Part Description	Part Number	Part Description
Blades			
BB931406	1/4" x 6 TPI Bandsaw Blade	Upper Blade Gu	iides
BB933806	3/8" x 6 TPI Bandsaw Blade	SBS300E-149	Hex bolt M6 1.0 x 15
BB931204	1/2" x 4 TPI Bandsaw Blade	SBS300-153	Upper guide support block
BB931206	1/2" x 6 TPI Bandsaw Blade	SBS300-146	Blade support shaft
BB933403	3/4" x 3 TPI Bandsaw Blade	Lower Blade Gu	ıides
BB933404	3/4" x 6TPI Bandsaw Blade	SBS300E-113	Washer
BB93CUS	Custom width & tooth pattern	SBS300E-130/13	5 Left & right cover
SBS300-127	Table Insert	SBS300E-131	Hex socket screw
		SBS300-132	Lower blade guide support
Band wheels		SBS300E-136	Hex bolt M5 0.8 x 10
SRPBS12-101	Drive belt	SBS300E-137	Flat washer M5
SBS300-26	Band wheel tyre	SBS300-132	Lower blade guide support
SBS300-18	Wheel bearing		3 11
SBS300-58	Brush		

Explanation of Symbols

THE SYMBOLS AND THEIR MEANINGS SHOWN BELOW MAY BE USED THROUGHOUT THIS MANUAL. PLEASE ENSURE THAT YOU TAKE THE APPROPRIATE ACTION WHEREVER THE WARNINGS ARE USED.

Mandatory Instructions



Read and fully understand the instruction manual before attempting to use the machine.



Indicates an instruction that requires particular attention



Wear protective eyewear



Use respiratory protective equipment



Use hearing protection



Use suitable protective footwear



Use protective work gloves

Warning



Indicates a risk of severe personal injury or damage to the machine



Indicates a risk of severe personal injury from electrical shock



Risk of personal injury from lifting of heavy items



Indicates a risk of severe personal injury from airborne objects



Risk of fire

General Health & Safety Guidance

Ensure that you carefully read and fully understand the instructions in this manual before assembly, installation and use of this product. Keep these instructions in a safe place for future reference.

WARNING: for your own safety, do not attempt to operate this machine until it is completely assembled and installed according to these instructions.

WARNING: When using any machine, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

Safe Operation

1. Use Personal Protective Equipment (PPE)

- The operation of any machine can result in foreign objects being thrown
 into your eyes, which can result in severe eye damage. Protective
 eyewear or other suitable eye protection or face shield should be used at
 all times. Everyday spectacles only have impact resistant lenses. They are
 not protective eyewear and do not give additional lateral protection.
- Use respiratory protective equipment (dust mask etc.) if the machining operation creates dust. Exposure to high levels of dust created by machining hardwoods, softwoods and man made composite boards can result in serious health problems. Some imported hardwoods give off highly irritating dust, which can cause a burning sensation. The use of respiratory protective equipment should not be seen as an alternative to controlling the risk of exposure at source by using adequate dust extraction equipment.
- The use of ear plugs or ear defenders is recommended when the machine is in use, particularly if the noise level exceeds 85 dB.
- Wear suitable protective gloves when handling cutting tools or blades.
 Gloves should NOT be worn when using the machine as they can be caught in moving parts of the machine.
- Non-slip safety footwear is recommended when using the machine and handling large work pieces.

2. Dress appropriately

- Do not wear loose clothing, neckties or jewellery; they can be caught in moving parts of the machine.
- Roll up long sleeves above the elbow.
- Wear protective hair covering to contain long hair.

3. Safety warnings

- Find and read any warning labels on the machine.
- It is important that any labels bearing health and safety warnings are not removed, defaced or covered. Replacement labels can be obtained by contacting our Customer Service Department.

4. Familiarise yourself with the machine

 If you are not thoroughly familiar with the operation of this machine, obtain advice from your supervisor, instructor, or other qualified person or contact your retailer for information on training courses. Do not use this machine until adequate training has been undertaken.

5. Take care when moving or positioning the machine

- Some machines can be very heavy. Ensure the floor of the area in which
 the machine is to be used is capable of supporting the machine.
- The machine and its various components can be heavy.
 Always adopt a safe lifting technique and seek assistance when lifting heavy components. In some cases it may be necessary to use mechanical handling equipment to position the machine within the work area.
- Some machines have optional wheel kits available to allow them to be manoeuvred around the workshop as required. Care should be taken to install these according to the instructions provided.
- Due to the nature of the design of some machines the centre of gravity will be high making them unstable when moved. Extreme care should be taken when moving any machine.
- If transportation of the machine is required then all precautions relating to the installation and handling of the machine apply. In addition, ensure that any vehicles or manual handling equipment used for transportation are of adequate specification.

6. The machine should be level and stable at all times

- When using a leg stand or cabinet base that is designed to be fitted to the machine, always ensure that it is securely fastened to the machine using the fixings provided.
- If the machine is suitable to be used on a workbench, ensure that the
 workbench is well constructed and capable of withstanding the weight
 of the machine. The machine should always be securely fastened to the
 workbench with appropriate fixings.
- Where possible, floor standing machines should always be secured to the floor with fixings appropriate to the structure of the floor.
- The floor surface should be sound and level. All of the feet of the
 machine should make contact with the floor surface. If they do not, either
 re-locate the machine to a more suitable position or use packing shims
 between the feet and the floor surface to ensure the machine is stable.

7. Remove adjusting keys and wrenches

 Ensure that all adjusting wrenches and keys are removed before switching the machine 'ON'. There is a risk of severe personal injury or damage to the machine from airborne objects.

8. Before switching the machine 'ON'

- Clear the machine table of all objects (tools, scrap pieces etc.)
- Make sure there is no debris between the work piece and the table / work support.
- Ensure that the work piece is not pressed against, or touching the saw blade or cutting tool.
- Check all clamps, work holding devices and fences to ensure that they
 are secure and cannot move during machining operations.
- Plan the way that you will hold and feed the work piece for the entire machining operation.

9. Whilst machining

Before starting work, watch the machine while it runs. If it makes
an unfamiliar noise or vibrates excessively, switch the machine 'OFF'
immediately and disconnect it from the power supply. Do not restart until
finding and correcting the source of the problem.

10. Keep the work area clear

- Working clearances can be thought of as the distances between
 machines and obstacles that allow safe operation of every machine
 without limitation. Consider existing and anticipated machine needs,
 size of material to be processed through each machine and space for
 auxiliary stands and/or work tables. Also consider the relative position of
 each machine to one another for efficient material handling. Be sure to
 allow yourself sufficient room to safely operate your machines in any
 foreseeable operation.
- Cluttered work areas and benches create the risk of accidents. Keep benches clear and tidy away tools that are not in use.
- Ensure that the floor area is kept clean and clear of any dust and debris that may create trip or slip hazards.

11. Consider the work area environment

- Do not expose the machine to rain or damp conditions.
- Keep the work area well lit and ensure that there is artificial lighting available when there is insufficient natural light to effectively light the work area. Lighting should be bright enough to eliminate shadow and prevent eye strain.
- Do not use the machine in explosive environments eg. in the presence of flammable liquids, gases or dust.
- The presence of high levels of dust created by machining wood can present a risk of fire or explosion. Always use dust extraction equipment to minimise the risk.

12. Keep other persons away (and pets)

- The machine is designed to be used by one person only.
- Do not let persons, especially children, touch the machine or extension cable (if used) and keep visitors away from the work area.
- Never leave the machine running unattended. Turn the power supply off and do not leave the machine unattended until it comes to a complete stop.

General Health & Safety Guidance - cont.

 If the work area is to be left unattended, all machinery should be switched 'OFF' and isolated from the mains power supply.

13. Store machines safely when not in use

When not in use, machines should be stored in a dry place, out of reach
of children. Do not allow persons unfamiliar with these instructions or
with the machine to operate it.

14. Do not overreach

- Choose a working position that allows your body to remain balanced and feed the work piece in to the machine without overreaching.
- Keep proper footing and balance at all times.

15. Electrical supply

- Electrical circuits should be dedicated to each machine or large enough
 to handle combined motor amp loads. Power outlets should be located
 near each machine so that power or extension cables are not obstructing
 high-traffic areas. Observe local electrical guidelines for proper
 installation of new lighting, power outlets, or circuits.
- The machine must be connected to an earthed power supply.
- The power supply must be equipped with a circuit breaker that provides short circuit, overload and earth leakage protection.
- The voltage of the machine must correspond to the voltage of the mains power supply.
- The mains plug fitted to the machine should always match the power outlet. Do not modify the plug in any way. If a replacement plug is required it should be fitted by a competent person and of the correct type and rating for the machine.
- If you are unsure about any electrical connections always consult a qualified electrician.

16. Avoid unintentional starting of the machine

Most machines are fitted with a no-volt release (NVR) switch to prevent
unintentional starting. If in doubt always ensure the machine switch
is in the 'OFF' position before connecting it to the power supply. This
means the machine will not automatically start up after a power cut or
switching on of the power supply, unless you first reset the start switch.

17. Outdoor use

• Your machine should not be used outdoors.

18. Extension cables

- Whenever possible, the use of extension cables is not recommended.
 If the use of an extension cable is unavoidable, then it should have a minimum core cross section of 2.5 mm² and limited to a maximum length of 3 metres.
- Extension cables should be routed away from the direct working area to prevent a trip hazard.

19. Guard against electric shock

 Avoid body contact with earthed or grounded surfaces such as pipes and radiators. There is an increased risk of electric shock if your body is earthed or grounded.

20. Always work within the machine's intended capacities

 Operator safety and machine performance are seriously adversely affected if attempts to make the machine perform beyond its limits are made

21. Do not abuse the power cable

- Never pull the power cable to disconnect it from the power socket.
 Always use the plug.
- Keep the power cable away from heat, oil and sharp edges.
- Do not use the power cable for carrying or moving the machine.

22. Secure the work piece

- Ensure that the work piece is securely held before starting to machine it.
- When working within 300 mm of the machining area, always use a push stick to feed the work piece in to the blade or cutting tool. The push stick should have a minimum length of 400 mm. If the push stick becomes damaged, replace it immediately.
- Use extra supports (roller support stands etc.) for any work pieces large enough to tip when not held down to the table top.

- Do not use another person as a substitute for a table extension, or as additional support for a work piece that is longer or wider than the basic table, or to help feed, support, or pull the work piece.
- Do not attempt to machine more than one work piece at a time.
- When feeding the work piece towards the blade or cutting tool never position your hands in direct line of the cutting path. Avoid awkward operations and hand positions where a sudden slip could cause your hand or fingers to move into the machining area.

23. Stay alert

- Safety is a combination of operator common sense and alertness at all times when the machine is being used.
- Use all machines with extreme care and do not use the machine when you are tired or under the influence of drugs, alcohol or medication.

24. Use the correct tool for the job

- Do not use the machine for any purpose other than which it was designed.
- When selecting replacement cutting tools and blades, always ensure that
 they are designed to cut the material that you intend to use them for. If
 in any doubt seek further advice from the manufacturer.

25. Connect dust extraction equipment

- Always use dust extraction equipment. The dust extractor should be of suitable size and capacity for the machine that it is connected to and have a filtration level appropriate to the type of waste being collected. Refer to the relevant section of the manual for details of the specific dust extraction requirements for this machine.
- The dust extractor should be switched 'ON' before starting the machine that it is connected to. The dust extractor should be left running for 30 seconds after the last machining operation is complete in order to clear any residual waste from the machine.

26. Ensure that the machine is correctly guarded

- Never use the machine if any of the standard safety guards and equipment are removed or damaged.
- Some machines incorporate safety interlocks to prevent the machine from being used without the guards in place. Never attempt to bypass or modify the interlocks to allow the machine to be used without the guards in place.

27. Maintain your machine with care

- This manual gives clear instructions on installation, set up and operation of the machine and also details any routine and preventative maintenance that should be performed periodically by the user.
- Remember always to switch off and unplug the machine from the power supply before carrying out any setting up or maintenance operations.
- Follow any instructions for the maintenance of accessories and consumables.
- Do not use compressed air to clean the machine. Always use a brush to dislodge dust in places that are awkward to reach and a dust extractor to collect the waste.
- Inspect electric cables periodically and, if damaged, have them replaced by an authorised service facility or qualified electrician.
- Inspect extension cables (if used) periodically and replace if damaged.

28. Keep cutting tools sharp and clean

- Correctly maintained cutting tools are easier to control and less likely to bind.
- Cutting tools and blades can become hot during use. Take extreme care
 when handling them and always allow them to cool before changing,
 adjusting or sharpening them.

29. Disconnect the machine from the power supply

 When not in use, before servicing, changing blades etc. always disconnect the machine from the power supply.

30. Check for damaged parts

- Before each use of the machine, it should be carefully checked to determine that it will operate properly and perform its intended function.
- · Check for alignment of moving parts, binding of moving parts, breakage

General Health & Safety Guidance - cont.

of parts and any other conditions that may affect the operation of the machine.

- A guard or other part that is damaged should be properly repaired or replaced by a qualified person unless otherwise indicated in this instruction manual.
- Do not use the machine if the switch does not turn the machine 'ON' and 'OFF'.
- Have defective switches replaced by a qualified person.

31. Warning!

 The use of any accessory or attachment, other than those recommended in this instruction manual, or recommended by our Company may present a risk of personal injury or damage to the machine and invalidation of the warranty.

32. Have your machine repaired by a qualified person

 This machine complies with the relevant safety rules and standards appropriate to its type when used in accordance with these instructions and with all of the standard safety guards and equipment in place. Only qualified persons using original spare parts should carry out repairs.
 Failure to do this may result in considerable danger to the user and invalidation of warranty.

33. Caution! Motor may become hot during use

 It is normal for motors on some machines to become hot to the touch during use. Avoid touching the motor directly when in use.

Additional Health & Safety for Bandsaws

Safe Operation

1. Familiarise yourself with the machine

- Machining operations using bandsaws have a history of serious accidents.
 Most result from contact with the moving blade while presenting material to the blade or moving it from the table. Other minor accidents can occur whilst setting, cleaning, adjusting or maintaining the machine.
- The machine is designed for cutting wood and composite board (plywood, MDF etc.). Certain plastics can also be cut using a suitable blade.

2. Before switching the machine 'ON'

- Ensure that the blade is correctly tensioned and aligned on the band wheels and the blade guides are correctly adjusted.
- Ensure that the teeth of the blade are pointing downwards.
- Check the condition of the blade to ensure that no teeth are missing, damaged or deformed and the blade is not cracked or split. If any of these conditions apply, replace the blade immediately.
- Ensure that the saw blade type and width are suitable for the material to be cut.
- Check that the blade width is within the minimum and maximum permitted on the machine and that the thickness of the blade is suitable for the diameter of the wheel.
- Some machines have more than one cutting speed. For most wood cutting applications the faster of the speeds should be used.
- Check the condition of the table insert. Replace it immediately if it is damaged or showing signs of wear.
- Adjust the guard as close as possible to the work piece being cut.
- Check that access doors are fully closed and that the latches are secure.

3. Whilst machining

- Never apply sideways pressure to the blade as this may cause the blade to break.
- Care must be taken when cutting wood with knots, nails or cracks in
 it and / or dirt on it, as these can cause the blade to get stuck. If this
 happens, switch the machine 'OFF' immediately and follow the procedure
 detailed in the manual to remove the blade from the work piece.
- If cutting cylindrical timber use a suitable jig to prevent twisting of the work piece.
- 4. This machine falls under the scope of the 'Health & Safety at Work etc. Act 1974', and the 'Provision & Use of Work Equipment Regulations 1998'. In addition the elimination or control of risks from wood dust is included in the above regulations and the 'Control of Substances Hazardous to Health (COSHH) Regulations 2002'. We recommend that you study and follow these regulations.

Further guidance can be found in the 'Safety in the use of narrow bandsaws – Woodworking sheet No.31' and the 'Safe use of woodworking machinery' code of practice booklet (L114) published by Health & Safety Executive and available from their website www.hse.gov.uk.

Record Power Guarantee

"**Products**" means the Products sold by Record Power subject to these terms and conditions;

"Record Power" is Record Power Limited, whose company registration number is 4804158 and registered office address is Centenary House, 11 Midland Way, Barlborough Links, Chesterfield, Derbyshire S43 4XA and sells through a network of Authorised Dealers;

"**Authorised Distributor**" is the nominated importer for your region who will generally sell through a network of Authorised Dealers. Details of Authorised Distributors for specific countries can be found in the Product manual or at www.recordpower.info;

"**Authorised Dealer**" is a retailer or business authorised to sell Record Power Products to end users.

1 Guarantee

- 1.1 Record Power guarantees that for a period of 5 years from the date of purchase the components of qualifying Products (see clauses 1.2.1 to 1.2.9) will be free from defects caused by faulty construction or manufacture.
- 1.2 During this period Record Power, its Authorised Distributor or Authorised Dealer will repair or replace free of charge any parts which are proved to be faulty in accordance with paragraphs 1.1 above provided that:
- **1.2.1** you follow the claims procedure set out in clause 2 below;
- **1.2.2** Record Power, our Authorised Distributor or Authorised Dealer are given a reasonable opportunity after receiving notice of the claim to examine the Product;
- 1.2.3 if asked to do so by Record Power, its Authorised Distributor or Authorised Dealer, you return the Product, at your own cost, to Record Power's premises or other approved premises such as those of the Authorised Distributor or supplying Authorised Dealer, for the examination to take place;
- **1.2.4** the fault in question is not caused by industrial use, accidental damage, fair wear and tear, wilful damage, neglect, incorrect electrical connection, abnormal working conditions, failure to follow our instructions, misuse, or alteration or repair of the Product without our approval;
- **1.2.5** the Product has been used in a domestic environment only;
- 1.2.6 the fault does not relate to consumable Products such as blades, bearings, drive belts or other wearing parts which can reasonably be expected to wear at different rates depending on usage (for full details contact Record Power or your local Authorised Distributor);
- **1.2.7** the Product has not been used for hire purposes, by you or by a previous owner;
- **1.2.8** the Product has been purchased by you as the guarantee is not transferable from a private sale.
- 1.2.9 where the Product has been purchased from a retailer, the 5 year guarantee is transferable and begins on the date of the first purchase of the Product and in the event of a claim under this guarantee proof of the original purchase date will be required to validate the warranty period.

2 Claims Procedure

- 2.1 In the first instance please contact the Authorised Dealer who supplied the Product to you. In our experience many initial problems with machines that are thought to be due to faulty parts are actually solved by correct setting up or adjustment of the machines. A good Authorised Dealer should be able to resolve the majority of these issues much more quickly than processing a claim under the quarantee.
- 2.2 Any damage to the Product resulting in a potential claim under the guarantee must be reported to the Authorised Dealer from which it was purchased within 48 hours of receipt.
- 2.3 If the Authorised Dealer who supplied the Product to you has been unable to satisfy your query, any claim made under this Guarantee should be made directly to Record Power or its Authorised Distributor (for details of the Authorised Distributor in your country please see your Product manual or check www.recordpower.info for details). The claim itself should be made in a letter setting out the date and place of purchase, and giving a brief explanation of the problem which has led to the claim. This letter should then be sent with proof of the purchase date (preferably a receipt) to Record Power or its Authorised Distributor. If you include a phone number or email address this will help to speed up your claim.
- Please note that it is essential that the letter of claim reaches Record Power or its Authorised Distributor on the last day of this Guarantee at the latest. Late claims will not be considered.

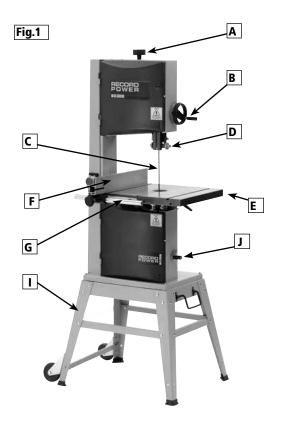
3 Limitation of Liability

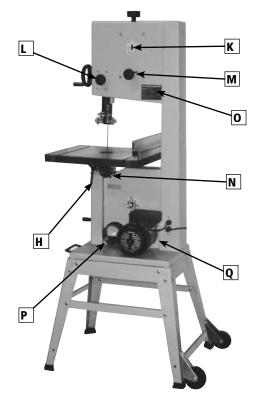
- **3.1** We only supply Products for domestic and private use. You agree not to use the Product for any commercial, business or re-sale purposes and we have no liability to you for any loss of profit, loss of business, business interruption or loss of business opportunity.
- **3.2** This Guarantee does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This Guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer.

4 Notice

This Guarantee applies to all Products purchased from an Authorised Dealer of Record Power within the United Kingdom of Great Britain and Northern Ireland. Terms of Guarantee may vary in other countries — please check with the Authorised Distributor in your country (details of the Authorised Distributor for your country can be found in the manual or at www.recordpower.info).

1. Getting To Know Your Bandsaw





- A Blade Tensioning Knob
- B Rise & Fall Hand Wheel
- C Blade
- D Upper Blade Guides
- E Table
- F Rip Fence
- G Rip Fence Rail
- H Table Tilt Lock Handle
- I Stand & Wheel Kit

- J Belt Tension & Speed Change Handle
- K Blade Tension Indicator
- L Rise & Fall Lock Knob
- M Blade Tracking Knob
- N Table Tilting Knob
- O Motor Rating Plate
- P 100 mm Dust Extraction Port
- Q Motor

2. Machine Specification

Blade length: 2370 mm (93") **Blade width:** 6 - 19 mm (¹/₄" - ¹/₄")

Max depth of cut:190 mmThroat depth:305 mmTable size:480 x 400 mmMax width blade to rip fence:230 mmTable height:990 mmExtraction port:100 mm

Motor: 230 V / 50 Hz / 1 hp / 750 W

 Full load current:
 4.6 A

 Weight:
 85 kg

 Footprint:
 700 x 540 mm

Dimensions: Height 1670 mm x width 680 mm x depth 690 mm

Sound power level: 82 dBA (no load), 100 dBA (load)
Sound pressure level: 75 dBA (no load), 90 dBA (load)

3. Stand & Wheel Kit Assembly

3.1 Stand & Wheel Kit Assembly





CAUTION! The machine is heavy. Additional help or a suitable lifting device or support will be required for lifting the machine onto the stand.

The stand and wheel kit comes as a self assembly unit Fig.3.1.

Stand

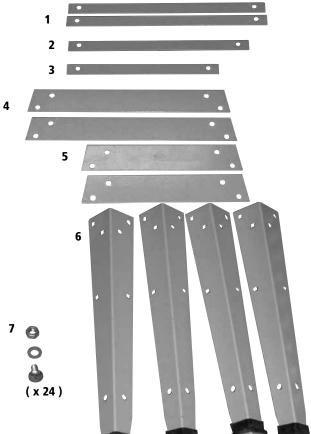
- 1. 2 x Long mid brace supports
- 2. Medium mid brace support
- 3. Short mid brace support
- 4. 2 x Long top brace supports
- 5. 2 x Short top brace supports

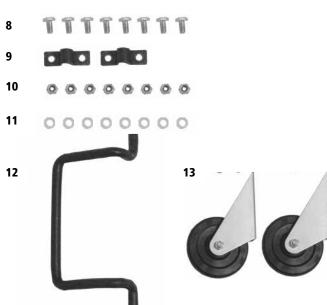
- 7. 24 x Stand fixing nuts bolts and washers (each)

Wheel Kit

- 8.8 x Hex bolts
- 9. 2 x D-Handle brackets
- 10.8 x Nylon nuts
- 11.8 x Washers
- 12. D-handle
- 13. 2 x Casters







3. Stand & Wheel Kit Assembly - cont.



Note: When assembling this legstand do not fully tighten the nuts and bolts until the assembly is complete.

When fitting the optional pedal wheel kit during initial assembly of the bandsaw, please do so before attaching the bandsaw to the leg stand to ensure greater safety and ease of fitment.

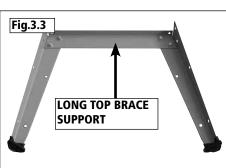
When fitting the optional pedal wheelkit, the short mid brace support (Fig. 3.7) at the front of the bandsaw should be removed.

Please see section 15 for assembly instructions of the BS300A Pedal Wheel Kit.

3.2 Stand Assembly

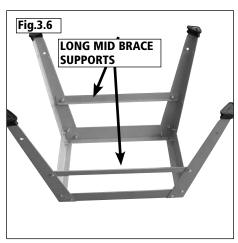
- 1. Locate the first leg and secure it to one of the long top brace supports using the nuts, bolts and washers supplied **Fig.3.2**.
- 2. In the same way, attach the second leg to the brace support **Fig.3.3**.
- 3. Locate the short top brace supports and fix to the legs as shown **Fig.3.4**.
- 4. Continue in this way until all of the legs and top brace supports have been fitted **Fig.3.5**.
- 5. The locating holes a third of the way down each leg are for securing the mid brace supports. Fix the long mid brace supports to the frame using the nuts, bolts and washers **Fig.3.6**.
- 6. Finally, fit the short and medium mid brace supports to the shorter sides **Fig.3.7**. Short mid brace support is fitted to holes positioned two thirds of the way up each leg. Medium mid brace support is positioned in the lower holes in each leg.

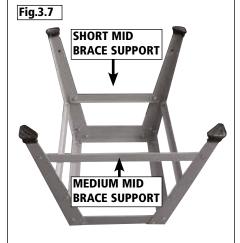












3. Stand & Wheel Kit Assembly - cont.

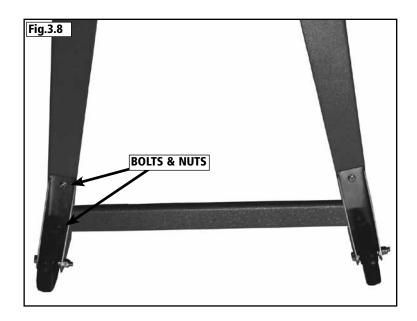
3.3 Wheel Kit Assembly

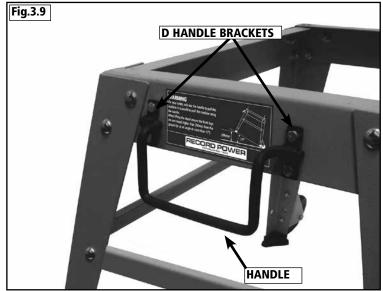
- 1. Attach the casters to the rear legs of the machine stand using the M6 x 16 hex bolts, Washers, and M6 nuts provided. **Fig 3.8.**
- 2. Assemble the D-handle to the front short top brace of the stand, using the D-handle brackets, M6 x 16 Hex bolts, Washers and M6 Nuts provided. **(Fig 3.9).**
- 3. Fully tighten all of the fixings to secure the wheels and handle assembly (take care not to over tighten the fixings as damage to the threads may occur).



PLEASE NOTE: For your safety only use the handle to pull the machine. It is unsafe to push the machine using the handle.

When lifting the stand ensure the front legs are not raised higher than 200 mm from the ground (or at an angle of more than 17°).





3. Stand & Wheel Kit Assembly - cont.

1. Feed the long fixing bolts up through the stand and secure the four corners using the washers and bolts provided **Fig.3.10**. The whole stand can now be fully tightened ready for the bandsaw to be fitted.

3.4 Fitting the bandsaw to the stand

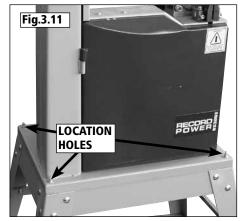




CAUTION! The machine is heavy. Additional help or a suitable lifting device or support will be required for lifting the machine onto the stand.

- 1. Lift the bandsaw over the stand and place the long fixing bolts through the four location holes in the bandsaw base **Fig.3.11**.
- 2. Secure the bandsaw to the stand with the remaining washers and nuts **Fig.3.11**.

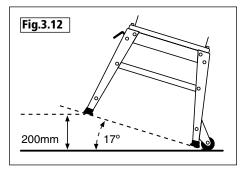






WARNING! For your safety only use the handle to pull the machine. It is unsafe to push the machine using the handle.

When lifting the stand ensure the front legs are not raised higher than 200 mm from the ground (or at an angle of more than 17°). Fig.3.12.



4. Machine Assembly

4.1 Unpacking and components included

The machine is supplied partly assembled. Prior to use, further assembly is required.

When unpacking the machine the following components are included for the initial assembly **Fig.4.1**:

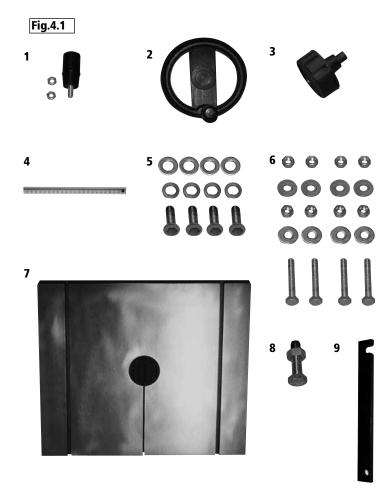
- 1. 2 x Nuts and 1 x small crank handle
- 2. Rise & fall hand wheel
- 3. Blade tensioning knob

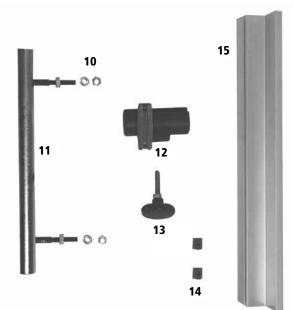
Table Assembly

- 4. Fence scale
- 5. 4 x Table fixing bolts, nuts and washers
- 6. 4 x Long fixing bolts, nuts and washers
- Table
- 8. Table levelling nut and bolt
- 9. Keep plate (already fitted to underside of table)

Fence Assembly

- 10. 4 x nuts
- 11. Fence bar
- 12. Fence carrier
- 13. Fence lock knob
- 14. 2 x mounting blocks
- 15. Fence





4.2 Rise & fall hand wheel

Attach the rise and fall hand wheel to the rise and fall shaft and tighten the socket head bolt with a 6 mm allen key. Then attach the handle and tighten with a 10 mm spanner (See Fig.4.2).

4.3 Belt tension handle

Attach small crank handle to belt tension and speed mechanism with 10mm spanner (not supplied) (See Fig.4.3).

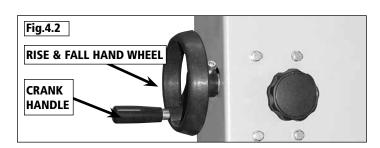
4.4 Fitting the table

Tools Required: - 13mm spanner (not supplied)

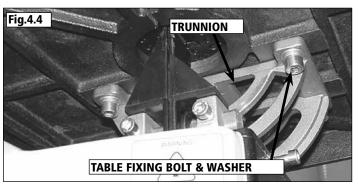
With the help of another person, lift the working table onto the trunnion. Mount the working table on the trunnion using the supplied 4 x table fixing bolts and 4 x washers (See Fig.4.4 front view & 4.5 rear view).

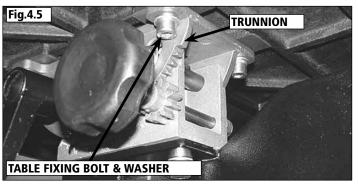
4.5 Fitting the tension knob

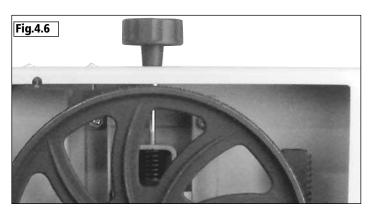
To fit the tension knob, slot it into the key way on the top of the bandsaw. **Fig.4.6**.





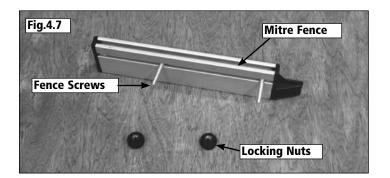


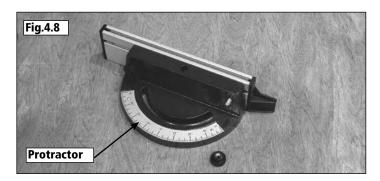


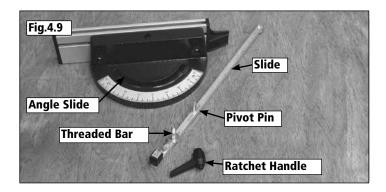


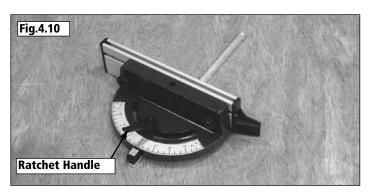
4.6 Assembling the mitre fence

- 1. Unscrew the locking nuts from the mitre fence Fig.4.7.
- 2. Place the protractor with the flat edge running parallel to the mitre fence.
- 3. Position it in such a way that the fence screws slot into the holes on the protractor **Fig.4.8.**
- 4. Replace and re-tighten the locking nuts.
- 5. Position the slide underneath the protractor so that the threaded bar sits in the angle slide and the pivot pin inserts into the pivot hole **Fig.4.9** and **Fig.4.10**.
- 6. Tighten the ratchet handle onto the threaded bar Fig.4.10.







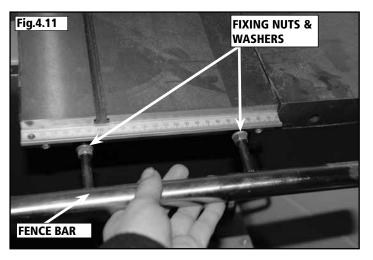


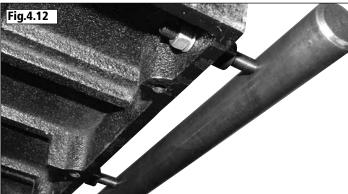
4.7 Fixing the fence bar

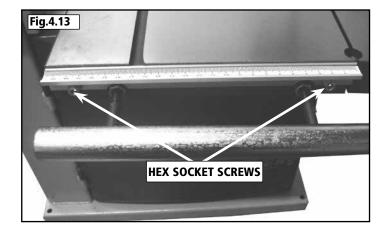
Place the fence bar on to the table as shown in Fig 4.11, ensuring 2 washers are placed next to the fixing nuts. Use the 2 remaining nuts and washers to secure the fence bar from the underside of the table, **Fig 4.12.** Do not fully tighten yet as adjustment may be necessary.

4.8 Fixing the fence scale

Attach the fence scale to the table **Fig. 4.13** and fix with the two hex socket screws.







4.9 Fitting the fence carrier

Locate the fence carrier on to the fence rail Fig.4.14.

4.10 Fitting the rip fence

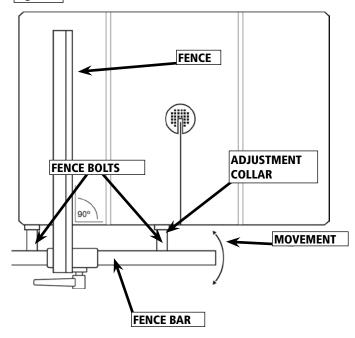
Now slide the rip fence on to the fence carrier and tighten the holding fixtures. Screw in the lock knob to secure the position of the fence on the rail, **Fig.4.15**. The fence can be used in the upright position as shown or the fence can be attached to the carrier using the other 'T' slot in a lower position, ideal for when working with small items, to allow the guides to be located closer to the work piece.

4.11 Fence alignment 1

Align the fence assembly until parallel with the mitre fence t-slot by turning the adjustment collars and the fence bolts accordingly. If the fixing nuts have been tightened, these will need slackening off before this adjustment can be made **see Fig. 4.16.**

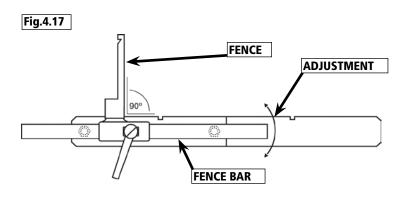
PLEASE NOTE: The fence bar can be located to either the left or right hand side of the table, allowing the fence to be used either side of the blade.

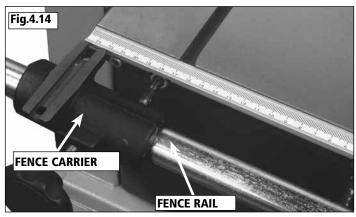
Fig.4.16

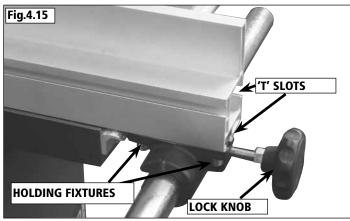


4.12 Fence alignment 2

Check that the fence is 90° to the table using a suitable square. If no adjustment is needed, fully tighten the fence bar nuts. If adjustment is required this is achieved by raising or lowering either side of the fence rail until the fence itself is 90° to the table. Once set at 90° fully tighten the fence bar nuts, **see Fig. 4.17.**







5. Setting Table Square to Saw Blade





CAUTION!

Before carrying out any adjustments or maintenance ensure that the machine is isolated and disconnected from the electricity supply.

5.1 Setting the table stop at 90° to saw Blade

Tools Required:- Small 90° square (Not supplied)
The table can be set at 90° to the Bandsaw Blade (See Fig.5.1) by adjusting the table stop screw (See Fig.5.2) underneath the table.

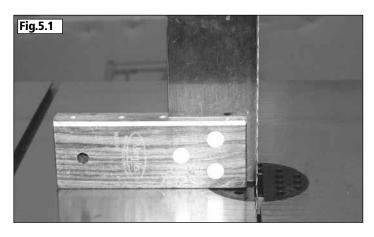
- First offer the square up to the blade to give an indication of adjustment required.
- If the table is not at 90° to the blade use table tilting mechanism (**See 5.3**) to adjust the table until it is 90° to the blade. If the table stop screw position is too high it may be necessary to wind this down out of the way so 90° can be achieved (**See Fig.5.2**).
- Once the table is at 90° to the blade lock off the lock handle on the table tilt mechanism to secure the table position (See Fig.5.3).
- Now set the table stop screw (**See Fig.5.2**), the table stop screw should be adjusted so that the head of the screw makes contact with the top surface of the lower band wheel housing. Once the stop screw is set to the correct length, it is secured by tightening the lock nut up to the flat registration point on the underside of the table.

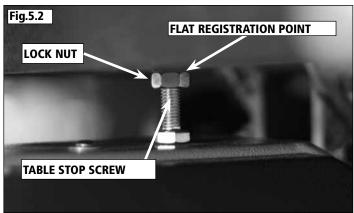
5.2 Adjusting the table tilt scale

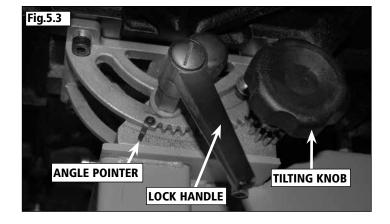
Once the table is set at 90° to the bandsaw blade it may be necessary to adjust the angle pointer on the angle scale so any further angles are accurate. To do this use a Phillips screwdriver to loosen the pan head screw and adjust the pointer to 0° (See Fig.5.3).

5.3 Tilting the table

To tilt the table, loosen the lock handle on the table trunnion. Turn the table tilting knob to adjust the table angle (**See Fig.5.3**). Use the angle indicator scale on the trunnion bracket to find the desired angle. Re-tighten the lock handle to secure the table.







6. Bandsaw Blade Set Up





CAUTION!

Before carrying out any adjustments or maintenance ensure that the machine is isolated and disconnected from the electricity supply.

6.1 Tensioning the blade

The blade tensioning knob should be used to increase or decrease tension (See Fig. 6.1). The only truly accurate way to check a blade is with a tension meter. These are very expensive so most users may need another method. The blade tension indicator, which is located on the back side of the top housing of the bandsaw, should be used first as a guide to the correct tension. We then suggest testing the tension by the amount the blade will deflect sideways. First set the guides to 6 inches above the table, making sure the saw is turned off push the blade sideways with a reasonable amount of pressure using the push stick. A correctly tensioned blade should not move more than a 1/4" sideways (See Fig. 6.2A). If the blade is over tightened, as in Fig. 6.2B, the blade could be damaged.

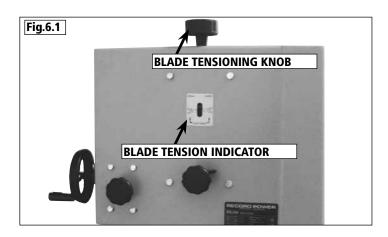
However perhaps the most tried and tested way of blade tensioning is simply: If the bandsaw is cutting accurately then the blade is tensioned correctly, if the blade tends to wander and an accurate cut cannot be achieved then the blade tension needs adjusting.

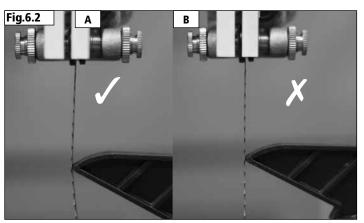
If the machine is to stand idle for a period it is good practice to slacken tension and re-tension when next using.

6.2 Tracking the Bandsaw blade

Isolate the machine from the supply by unplugging the mains plug. Set the tracking of the blade before setting the blade guides. Once the blade is tensioned, track the blade by turning the upper band wheel by hand and adjusting the tracking knob (See Fig.6.3). When viewed from the back of the machine turning the tracking knob clockwise the blade will move towards the back of the band wheel, by turning the tracking knob anticlockwise the blade will move to the front of the band wheel. The blade should run as close to the centre of the band wheel as possible, as shown (See Fig.6.4). On narrow blades (e.g 1/4" and 3/8") it may be necessary to run the blade to rear of the band wheel. After the blade is tracked in the desired position on the band wheel, rotate the band wheel several more times by hand without any further adjustment ensuring that the blade remains in the same position. Once this has been achieved lock the tracking knob with the winged nut (See Fig.6.3).

It takes a few revolutions of the band wheel for the effect of adjustment on the tracking knob to become apparent. To avoid over-adjusting, make small gradual adjustments on the tracking knob and revolve the band wheel a few times to check the alignment of the blade before making further adjustments. The machine should then be run for a few seconds before any adjustment of guides is carried out.









6. Bandsaw Blade Set Up - cont.



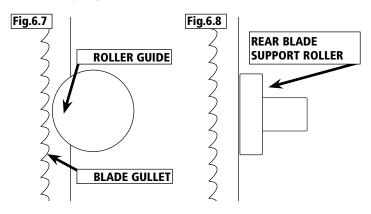


CAUTION!

Before carrying out any adjustments or maintenance ensure that the machine is isolated and disconnected from the electricity supply.

6.3 Adjusting the Upper Guides

First check that all of the roller guides are moving freely. To adjust the upper blade guides, first position the guide assembly relative to the blade, by slackening off the hex screw (Fig.6.5, A) and moving the guide carrier until the roller guides are just behind the gullets of the blade (See Fig.6.7). Next set the roller guides as near as possible to the blade without actually touching. This is done by unlocking the locking nut on each side of the guide adjustment (See Fig.6.5). Do not let the roller guides actually touch the blade as this will adversely affect the life of the blade. Finally adjust the rear blade support roller to be just clear of the back of the blade (See Fig.6.7). Do this by unlocking the hex socket screw (Fig.6.6B). When the correct adjustment is reached, lock the blade support roller in position with a hex key (Fig.6.6B).



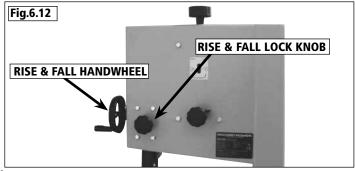
6.4 Adjusting Lower Guides

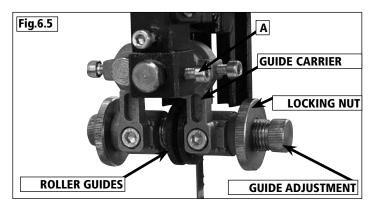
To adjust the lower blade guides, first slacken off the hex socket screw (See Fig.6.9A), move the guide carrier casting so the guides are just behind the gullets of the blade. Next set the roller guides as near as possible to the blade without actually touching. This is done by releasing the hex head socket screw (See Fig.6.9B) on each side of the blade. Finally adjust the rear thrust bearing to be just clear of the back of the blade (See Fig.6.10). To do this first unlock the Hex socket screw (See Fig.6.9C) then using the adjustment knob at the rear, position the thrust bearing Fig.6.10.

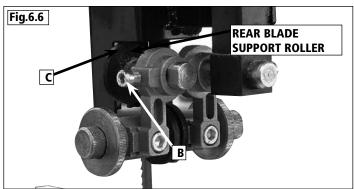
6.5 Adjusting the cutting height

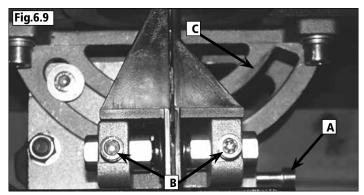
Once the blade is set, the cutting height must be adjusted so there is maximum guarding for the blade and so that the blade guides are providing optimum support to the blade.

To adjust the cutting height loosen the rise and fall lock knob and turn the rise and fall handwheel to raise or lower the guide post/upper blade guide assembly to the desired height **Fig.6.12**. Note: The upper blade guide should provide approximately 5 mm clearance above the workpiece. After the desired position has been set tighten the rise and fall lock knob. Always re-check the upper guides once the desired height is set for any slight adjustment required.













7. Drive Belt Adjustment & Speed Change





CAUTION!

Before carrying out any adjustments or maintenance ensure that the machine is isolated and disconnected from the electricity supply.

7.1 Adjusting the drive belt tension

Use the belt tensioning handle (See Fig.7.1) to adjust the tension of the drive belt. Rotate the handle anti-clockwise to increase the tension and clockwise to decrease tension. As a guide the belt is adequately tensioned when using the index finger to impart reasonable pressure on the belt - the belt should not deflect more than 1/4". But like tensioning a bandsaw blade, this is very subjective and the best test is in operation, if the belt isn't slipping or wearing excessively and there is adequate power being applied to the band wheels then the drive belt is tensioned correctly.



After any adjustment of the belt ensure the poly vees are correctly located in the vee slots as failure to do so could damage the belt in use.

7.2 Changing the Blade Speed

The BS300E has two blade speeds 820 m/min for wood and 380 m/min for some plastics and acrylics. This machine is not suitable for cutting metals.

The lower band wheel has two integral multi vee form pulleys and the motor shaft has a twin multi vee form pulley.

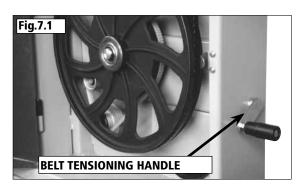
The vee belt passes around the band wheel pulley, the motor pulley and the plain tension roller. The belt tension is released and applied by using the crank handle, this moves the tension roller and allows the speed to be changed (See Fig.7.1).

High Speed 820 m/min

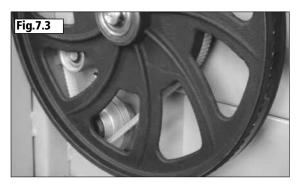
Before changing the speed always make sure the machine has been isolated from the mains supply. For the high speed the belt should be fitted to the rear pulley on both the motor and band wheel. (**See Fig.7.2**).

Lower Speed 380 m/min

Before changing the speed always make sure the machine has been isolated from the mains supply. For the low speed the belt should be fitted to the front pulley on both the motor and band wheel **(See Fig.7.3).**







8. Operation & Bandsawing Practice

Basic Bandsawing Principles

- The blade cuts on a continuous down stroke.
- Slowly feed the workpiece towards the blade, using only light pressure whilst letting the blade do the cutting. Always use a push stick and take care.
- Firmly hold the workpiece and feed it towards the blade slowly, using the push stick and keeping your hands well away from the blade.
- For best results the blade must be sharp. Damaged or worn blades should always be replaced.
- Select the correct blade for the job, depending on the thickness of the wood and the cut to be made (see blade selection).
- For straight cutting use the rip fence supplied.
- When cutting shapes, follow the design marked out by pushing and turning the workpiece evenly. Do not attempt to turn the workpiece without pushing it, as this may cause the workpiece to get stuck, or the blade to bend.



CAUTION! Particular care should be taken towards the end of the cut as there will be a sudden decrease in resistance and care must be taken to stop hands from being thrown towards the blade. Always use a push stick.

Always ensure that your machine is properly maintained and clean. Before commencing work on an important project, it is advisable to familiarise yourself with the operation of the equipment by practising on low value or scrap materials.

Complicated Cutting

Very complicated cuts and small radius curves are the best accomplished with the aid of pre-drilled holes combined with a few tangential or radial cuts. This technique will achieve excellent results without putting undue tension on the blade and blade guide assembly.



WARNING! In circumstances such as cutting deep or wet timber, the work piece may close up behind the blade causing it to stall. In the event that the blade stalls whilst cutting, ease the work piece backwards slightly, to release feed pressure from the blade. Allow the blade to reach full speed before continuing to feed the work piece in to the blade. If the blade fails to move when feed pressure is released, immediately switch off the machine and disconnect the power supply before attempting to free the blade from the work piece.



WARNING! If any component of the machine fails whilst in use or if the blade should break whilst the machine is running, immediately switch off the machine and disconnect from the power supply. Remove the faulty component and replace only with genuine Record Power replacement parts. Any electrical components should only be replaced by a suitably qualified person. To replace a broken blade, please refer to the section of this manual entitled "Band saw Blade Set Up". Always remember to fully release the blade tension mechanism before attempting to fit a new blade. If you are in any doubt about using the machine following a failure or if you need to order replacement spare parts or blades, please contact Customer Services in your country.

Restarting

In the Event of a Blockage or if the Machine Stalls

If the bandsaw stalls due to the blade becoming trapped in the work piece, switch it off immediately by pressing the emergency stop button and wait for the machine to come to a complete stop before proceeding further. If the blade is trapped within the work piece, it may be necessary to prize the work piece apart slightly using a suitable lever in order to free the blade. If it is not possible to free the blade using this method, then it may be necessary to cut the blade using suitable side cutters or tin snips. Replace the blade if necessary and ensure that it is correctly tracked and tensioned and that both doors of the bandsaw are fully closed and secured before attempting to re-start the machine.

To re-start the machine, press the green button marked 'I' on the switch.

In the Event of a Power Failure

The bandsaw is fitted with a no volt release (NVR) switch to protect the user against automatic starting of the machine when power is restored after a power failure.

In the event of a power failure, first locate and rectify the source of the failure. If the fault is within the power circuit of the workshop, there may be an underlying cause (circuit overload etc.) that should be investigated by a qualified electrician, before attempting to restore the power source. If a cutting operation was taking place when the power supply was interrupted, then it may be necessary to free the blade from the work piece before attempting to re-start the machine.

Once the power is restored, the machine can be re-started by pressing the green button marked 'I' on the switch.

Blade Selection (TPI)

The selection of the best blade configuration (see the table below) is necessary for optimum cutting performance.

- Correct blade choice is primarily dependant on two factors: material thickness and material type.
- Greater TPI should be selected as material thickness decreases.
- However, if the TPI is too great, the tooth loading will be insufficient to enable penetration; and cutting. The teeth will also rapidly lose their sharpness.
- For thicker material a lower TPI should be used otherwise the gullet will not be sufficient to clear the waste and the blade will stall or burn the wood.
- In general a minimum of 3 teeth should be in contact with the wood at all times during cutting.

The accompanying blade selection chart (see the table below) gives guidance on the TPI that should give the best results when cutting a variety of material types and thickness. The table below provides recommendations on selecting the correct blade for a variety of commonly used materials. If in doubt about any aspects of blade selection contact Customer Services in your country.

The table provides a guide to selection only. Exact tooth configurations are not always available, nor are all blade configurations covered, but the principles remain the same. For special applications, custom blades can be supplied please call Customer Services in your country.

8. Operation & Bandsawing Practice - cont.

Material	Material	Thickness		
	<6mm	6-12 mm	12-25 mm	>25 mm
Perspex	16 TPI	14 TPI	-	-
Chipboard	-	6 TPI	3-6 TPI	3-4 TPI
Fibre board	16 TPI	14 TPI	-	-
Hardboard	10 TPI	-	-	-
Plywood	10 TPI	8 TPI	6 TPI	3-4 TPI
Strawboard	14 TPI	10 TPI	-	-
Cork	14 TPI	6 TPI	3 TPI	3-4 TPI
Leather	14 TPI	-	-	-
Rubber	10 TPI	8 TPI	-	-
Wood -log	-	-	-	3-4 TPI
Wood -soft	6 TPI	3-6 TPI	3-4 TPI	3-4 TPI
Wood -hard	6 TPI	3-6 TPI	3-4 TPI	3-4 TPI
Wood -wet	-	-	-	3-4 TPI

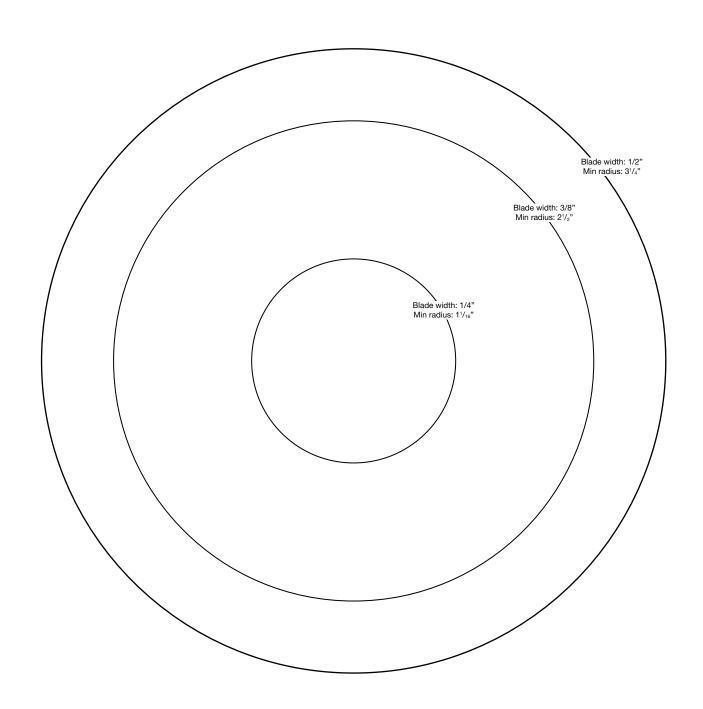
Blade Selection (TPI) - Cont.

Having selected an appropriate blade for the particular thickness and type of material to be sawn, it is essential that the saw blade is allowed to cut freely by not applying too much pressure.

 The need for excessive pressure is likely to be a result of the incorrect blade selection or a worn blade and will result in inaccurate cutting and possibly blade breakage.

Blade Selection (Width)

- When cutting shapes, the width of the blade limits the minimum radius that can be cut.
- If the blade is too wide for the cutting radius the blade will twist and possibly jam or break.
- The smaller the radius the narrower the blade has to be.
 The diagram below provides guidance on the minimum radius to be cut with the most commonly used blade widths.



8. Operation & Bandsawing Practice - cont.

Blade Selection Summary

To see how TPI and width of the blade come together, use the table opposite for reference.

- Regularly examine the blade for excessive damage or cracking as a result of fatigue. If such damage is present replace the blade.
- It is important to use a sharp blade. Dull teeth result in increased feed pressure producing a poor quality finish and an inaccurate cut.

Note:

DD03440C

As well as the blades listed, we can also supply bandsaw blades to almost any specification - please call Record Power customer services in your country.

8.9 Record Power BS300E Blade Range

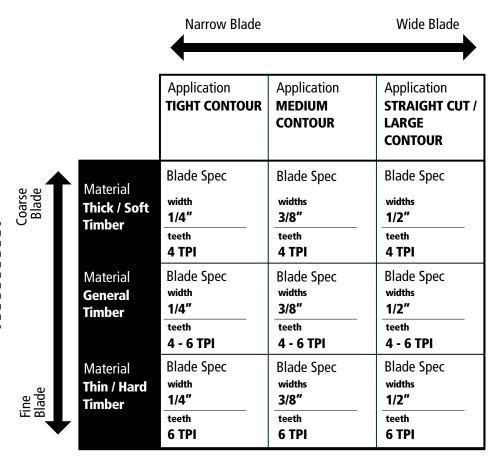
Record Power's high performance bandsaw blades are manufactured to the highest quality tolerances using a specialist premium high carbon steel strip.

The extensive quality control program which involves digital tooth profile checks, set analysis, straightness testing, hardness testing and micro structural analysis results in a blade that cuts straighter and has harder, longer lasting teeth. A premium British blade that can last up to ten times longer than other blades on the market.

The following range of blades are available for the BS300E:

1/4" v C TDI Dandsau Dlada

BB931406	1/4" x 6 IPI Bandsaw Blade
BB933806	3/8" x 6 TPI Bandsaw Blade
BB931204	1/2" x 4 TPI Bandsaw Blade
BB931206	1/2" x 6 TPI Bandsaw Blade
BB933403	3/4" x 3 TPI Bandsaw Blade
BB933406	3/4 x 6 TPI Bandsaw Blade
ВВ93-ЗРАСК	1/4 x 6 TPI Bandsaw Blade
	3/8 x 6 TPI Bandsaw Blade
-	5/8 x 6 TPI Bandsaw Blade
BB93CUS	Custom width & tooth pattern

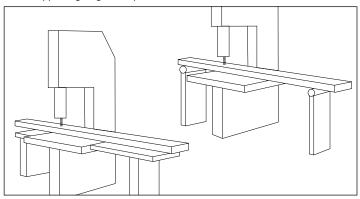


8. Operation & Bandsawing Practice - cont.

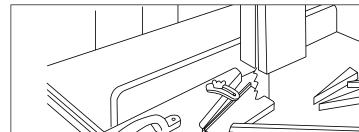
Custom Jigs & Work Support

A bandsaw is one of the most versatile machines in the workshop and with careful preparation many problems encountered on a job can be overcome. By making and using custom jigs repetitive and accurate work can easily be achieved, the following illustrations are some examples of typical jigs and supports used on a bandsaw.

Ex. 1. Supporting large workpieces with roller stands or take off tables.

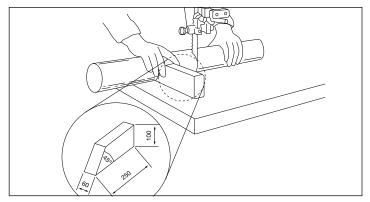


Ex. 2. Always support round pieces with a wedge or vee block. Take extreme care as there is a danger that if the work is not secured properly the blade will snatch the work piece, potentially causing it to spin or bounce back at you.

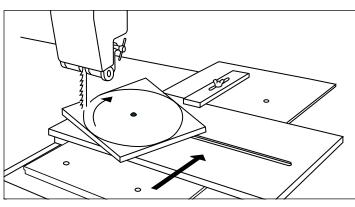


Ex. 5. Jig for accurate repetitive wedges.

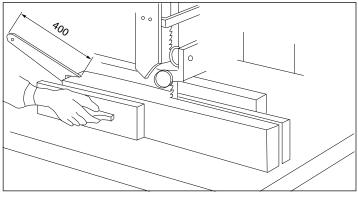
Ex. 6. By mounting a registration pin on a slide repetitive circles can easily be achieved.



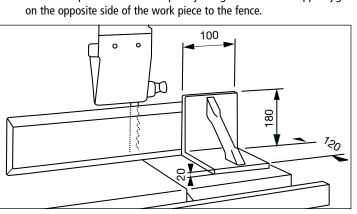
Ex. 3. Use a side pressure pad for accurate cutting of taller material.

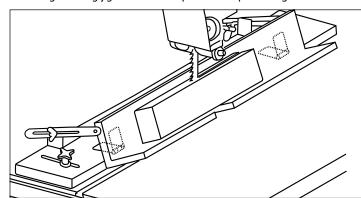


Ex. 7. Angle cutting jig for accurate repetitive compound angles.



Ex. 4. Chamfered pieces can be cut squarely using an additional support jig on the opposite side of the work piece to the fence.





9. Dust Extraction

The Importance Of Dust Extraction

Before the machine is started, ensure that adequate dust extraction provisions have been installed. Dust extraction is extremely important not only for health and safety but also for the correct upkeep of the machine. Saw dust can cause the machine not to operate properly or even fail completely. By keeping the machine free of large amounts of waste the performance will be optimised. If a large amounts of MDF or toxic woods are to be cut we recommend that there is a good ventilation system in place and that in addition to proper extraction a mask or respirator be worn as minimum protection.

Record Power Extractors

Record Power offer a range of high quality dust extractors, we offer both drum and bag type extractors which filter down 0.5 micron providing protection from harmful fine dusts. All Record Power dust extractors & chip collectors have 100 mm inlets and hoses.

DX1000 High Filtration Dust Extractor

Drum type extractor, 45 litre capacity, single 1 kW motor, suitable for intermittent use ie must be switched off for 20 minutes every hour. **0.5 micron filtration**

RSDE1 High Filtration Dust Extractor

Drum type extractor, 45 litre capacity, single 1 kW motor, suitable for intermittent use ie must be switched off for 20 minutes every hour. **0.5 micron filtration**

RSDE2 High Filtration Dust Extractor

Drum type extractor, 50 litre capacity, single 1 kW motor, suitable for intermittent use ie must be switched off for 20 minutes every hour. **0.5 micron filtration**

RSDE/2A High Filtration Dust Extractor with Auto Switching

Drum type extractor, 50 litre capacity, single 1 kW motor, auto switching allows the machine to be turned on and off as machines and power tools are operated. Suitable for intermittent use ie must be switched off for 20 minutes every hour. Maximum auto switch capacity 1.1 kW.

0.5 micron filtration

DX4000 High Filtration Dust Extractor

Drum type extractor, 80 litre capacity, Twin 1 kW motor, suitable for heavy usage ie if one motor is switched off for 20 minutes then the other can be used thus enabling continuous usage. Or both motors can be used simultaneously giving maximum suction but in this mode the extractor must be switched off for 20 minutes every hour. **0.5 micron filtration**

DX5000 High Filtration Dust Extractor

Bag type extractor, 200 litre capacity, Twin 1 kW motor, suitable for heavy usage ie if one motor is switched off for 20 minutes then the other can be used thus enabling continuous usage. Or both motors can be used simultaneously giving maximum suction but in this mode the extractor must be switched off for 20 minutes every hour. **0.5 micron filtration**

CX2600 Chip Collector

Large capacity chip collector, with a powerful 0.37 kW induction motor. An extremely smooth running unit suitable for continuous usage. Very quiet impeller system extracts dust and chippings.

Suitable for chip collection or finer dust using the optional filter cartridge

CX3000 Chip Collector

Larger capacity chip collector, with a more powerful 0.75 kW induction motor and heavy duty construction. An extremely smooth running unit suitable for continuous usage. Very quiet impeller system extracts dust and chippings.

Suitable for chip collection or finer dust using the optional filter cartridge

Air Cleaners

It is strongly advised to also use an air cleaner to remove the fine airborne dust present in the workshop which cannot be removed using machine extraction. Record Power offer a range of air cleaners suitable for all home workshops. Please contact your preferred stockist or call Customer Services in your country.

	DX1000	RSDE1	RSDE2	RSDE/2A	DX4000	DX5000	CX2600	CX3000
Bandsaws Circular saws Sanders Intermittent usage	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended		
Bandsaws Circular saws Sanders Heavy usage					Recommended	Recommended		
Planer Thicknessers Spindle Moulders Universals Intermittent usage	Recommended	Recommended			Can be used	Recommended	Recommended	Recommended
Planer Thicknessers Spindle Moulders Universals Heavy usage					Can be used	Recommended	Recommended	Recommended
Dust Extraction System Intermittent usage					Can be used	Recommended		

10. Maintenance







CAUTION!

Before carrying out any adjustments or maintenance ensure that the machine is isolated and disconnected from the electricity supply.



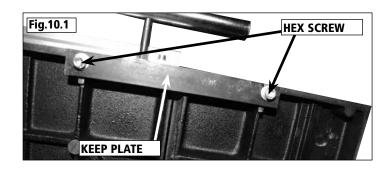
10.1 Replacing the bandsaw blade

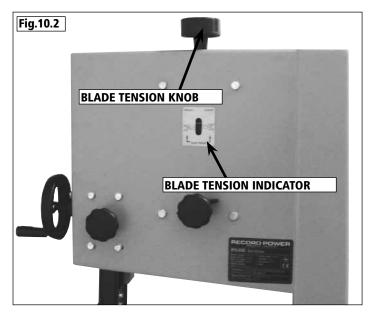
HAZARD! Take great care when unpacking the bandsaw blade as they are usually folded and can spring out very suddenly with great force. **TIP:** If the new blade being fitted is a different width to the one being removed, it is advisable to move back and slacken off all blade guides before fitting the new blade as this will make fitting easier. Whenever a different size blade is fitted the blade guides will always need re-setting.

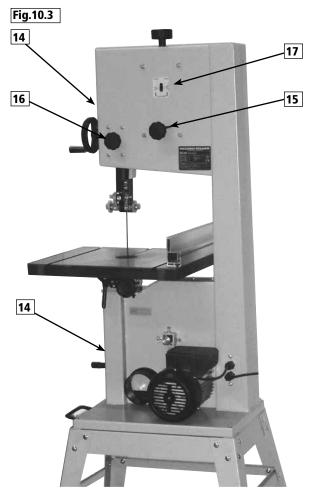
- 1. Isolate the machine from the power supply.
- 2. Open the top and bottom band wheel doors by unscrewing the hex socket screw, Fig 10.3 (14).
- **3.** Remove the Hex socket screw and keep plate from the underside of the table **Fig 10.1**.
- 4. Turn the blade tension knob (17) to release the blade tension.
- **5.** Remove the bandsaw blade by feeding it through the slot in the table, upper blade guides and guard and slot in the spine of the machine taking care not to cut yourself, wear gloves if necessary.
- Fit the new blade ensuring the blade teeth are pointing downwards and towards you at the position where the blade passes through the table.
- Ensuring that the blade is fully in place on band wheel. Simply re-apply tension using the tension knob until the tension indicator shows the correct tension for the blade width.
- Adjust the blade tension further if required using the blade tension knob.
- **6.** Check the blade tracking on the newly fitted blade by turning the upper wheel by hand. The blade should run as close to the centre of the band wheel as possible. On 1/4", 3/8" and 1/2" blades it may be necessary to run the blade to rear of the band wheel **(see section 6.2.)**
- **7.** If required adjust the tracking using tracking knob **(15)** and lock knob to the rear of the upper band wheel housing. When the tracking is correct lock the setting **(see section 6.2)**.
- 8. Re-set the blade guides (see sections 6.3 & 6.4)
- **9.** Close and lock both the band wheel doors before re-connecting the power supply.

The blade tension indicator is a guide only and may need re-calibrating periodically. For further information on blade tensioning **see section 6**.

If the blade teeth are pointing the wrong way simply twist the blade inside out. Remember to always check the guides after changing any blade.







10. Maintenance - cont.





CAUTION!

Before carrying out any adjustments or maintenance ensure that the machine is isolated and disconnected from the electricity supply.

10.2 Replacing the drive belt

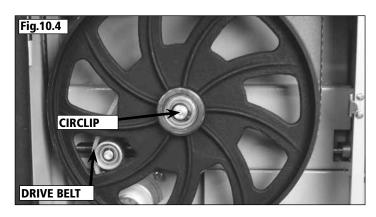
To replace the drive belt simply loosen the tension on the belt using the tension handwheel. Remove the lower band wheel by undoing the circlip on the hub. Remove the old belt and fit the new one **Fig.10.4**. Once the drive belt is in place re-fit the lower band wheel and replace the circlip. Now tension the drive belt using the tension handwheel. For further information on tensioning the drive belt please **see section 7.1**.

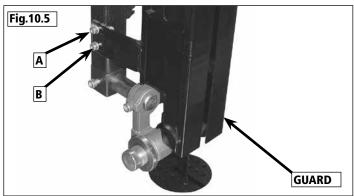
10.3 The blade guide system

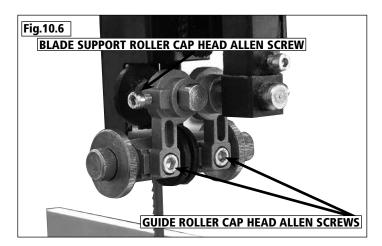
In general usage it is advisable to carefully apply silicon spray to the blade guides to ensure free movement of the rollers, do not use oil or grease for lubrication as this will attract dust and cause the rollers to jam. The blade guide system is a consumable item and depending on usage will wear and may need replacing.

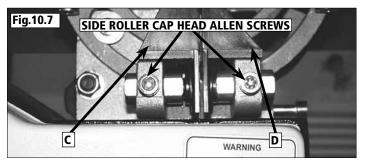
When replacing components on the upper guide assembly first ensure that the blade is removed. Undo cap head allen screws **A & B** then remove the guard, **Fig.10.5.** Once the guard is removed then the various components can be accessed and replaced. Undo the relevant cap head allen screws for either the guide rollers or rear support roller **Fig.10.6.** and fit the new parts. Once the new components are fitted. The blade should be re-fitted **Section 10.1** and the guides adjusted as shown in **Section 6.**

When replacing components on the lower guide assembly first ensure that the blade is removed. Undo cap head allen screws **C & D** and remove the guards. **Fig.10.7.** Once the guard is removed then the various components can be accessed and replaced. The roller bearings are shown in **Fig. 10.7** and the thrust roller bearing at the rear in **Fig.10.8.** This is done by simply undoing the relevant cap head allen screw and replacing the part. Once the new components are fitted. The blade should be re-fitted **Section 10.1** and the guides adjusted as shown in **Section 6.3.**











10. Maintenance - cont.

10.4 The table insert

The table insert on a bandsaw is a consumable item **Fig.10.9** and will therefore need replacing periodically. This procedure should be carried out with the bandsaw blade removed. To replace the table insert simply push the old insert out from underneath the table and fit the new one into position.

10.5 The band wheel tyres

The band wheels on this machine have rubber tyres fitted to the outer rim of the wheel **Fig.10.10** to protect the set of the blade when in use, also to provide drive and to stop the blade slipping. As part of your regular service schedule inspect the tyres for wear and damage and replace if necessary. Again, this is a consumable part of the bandsaw and will need replacing periodically, depending on usage.

First remove the blade from the bandsaw, then remove the band wheel. Gently ease the existing tyre from the rim taking care not to damage the band wheel. To fit the new tyre it is a good idea to heat the tyre first in hot water, this softens the rubber up and makes it easier to stretch it over the band wheel. The tyres before stretching are much smaller than the band wheel and a good deal of stretching is required to make them fit. It is advisable to get help from a second person who can insert the wheel into the tyre while it is fully stretched. It is easier to replace the tyre with the wheels removed.

10.6 The band wheel bearings

The band wheel bearings are sealed for life units which will need replacing periodically depending on usage.

To replace the bearings; first ensure that there is no blade fitted. Remove the circlip from the hub and remove the band wheel (circlip pliers will be required to carry out this operation), you will notice that there are two separate bearings fitted in the hub pressed up against each other. Take a brass drift (or similar) and tap one of the bearings out, the second bearing should now be able to be pushed out.

When fitting the new bearings; position by hand in the wheel hub and tap in until the bearing seats against the ridge in the casting. **Fig.10.11.**

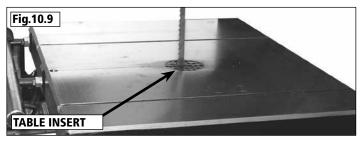
10.7 Cleaning the table

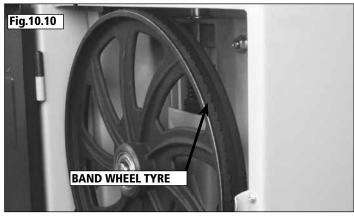
The table is ground from cast iron and if cared for properly will provide smooth, accurate performance. When machining wood a certain amount of resin will be deposited on the surface, to ensure optimum performance the table needs to be properly cleaned at regular intervals.

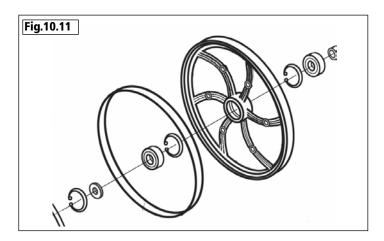
Firstly brush off all loose particles, then wipe clean with white spirit ensuring that any resin build up is removed. Once the table has been thoroughly cleaned it can now be treated with CWA195 silicone spray or wax. If these guidelines are followed the timber will glide smoothly across the table.

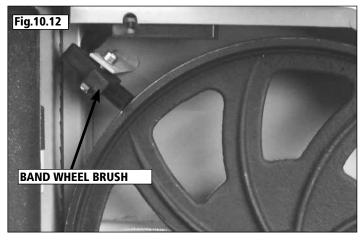
10.8 The band wheel brush

The purpose of this brush is to remove any excess sawdust and resin from the band wheel and tyre **Fig.10.12**. This brush will need adjusting periodically depending on usage. Before each use inspect the brush and make sure it is making sufficient contact with the band wheel to remove sawdust from the tyre. The brush should be touching but not applying pressure to the wheel. If it isn't loosen the fixing and adjust accordingly so it makes contact with the wheel. When the brush cannot be adjusted any nearer the wheel due to the bristles being worn, then it must be replaced. Periodically the brush may also become clogged up with resin (this is especially common when cutting a long run of soft wood) if this occurs this resin must be scraped off, as performance of the brush will be reduced.









11. Trouble Shooting



WARNING: for your own safety, always turn off and unplug the machine before carrying out any troubleshooting.

Symptom	Possible Causes	Solutions
Will not cut in a straight line.	 Blade is worn. Guide carrier set too high. Blade tension not correct. Fence not aligned correctly. Table not aligned correctly. 	 Change blade. Adjust guide carrier. Check and adjust as required. Check and adjust as required. Undo the four bolts holding the table to the trunnion and align table.
Fence is not square.	Fence not aligned correctly.	Check and adjust as required.
Motor slows down when wood is put through.	 Too much pressure being applied to the work piece. Drive belt slipping. Fence not aligned. Table not aligned correctly. Wrong type of blade . 	 Adjust feed rate to suit material. Check and adjust as required. Check and adjust as required. Undo the four bolts holding the table to the trunnion and align table. Change blade if necessary.
Machine stops when I let go of the on/off button.	Faulty switch.	Change switch.
Tension indicator at the correct mark for the blade tension is incorrect.	Tension indicator is not accurate.	The blade tension indicator is only a guide, but fine adjustment may be required for each blade.
Unsure of which type of blade to use.		Refer to section 9 in the manual.
How much tension should be put on the blade?		Refer to section 9 in the manual.
Cannot get the blade on.	Blade tension not released.	Ensure you have fully released the blade tension knob before trying to remove the blade.
Cannot sufficiently tension the blade.	Incorrect blade length. Blade tensioner incorrectly set up.	Check you have the correct blade length. Adjust the nut on the tensioning rod, upwards for smaller blade length and downwards for longer blade lengths.
Blade will not cut the wood.	Blade upside down. Blade back to front.	Re-fit blade with teeth pointing downward Turn the blade inside out then re-fit.
Machine will not start.	 No power supply. Defective switch. Doors not closed fully. Fuse blown. Capacitor or motor may be faulty. 	 Check the power cable and fuse. Replace the switch. Ensure both doors are closed fully. Check and replace the fuse. Check and replace as necessary.

12. Electrical Connection & Wiring Diagram

Machines supplied for use in the UK are fitted with a 3 pin plug conforming to BS1363, fitted with a fuse conforming to BS1362 and appropriate to the current rating of the machine.

Machines supplied for use in other countries within the European Union are fitted with a 2 pin Schuko plug conforming to CEE 7/7.

Machines supplied for use in Australia & New Zealand are fitted with a 3 pin plug conforming to AS/NZS3112.

In all cases, if the original plug or connector has to be replaced for any reason, the wires within the mains power cable are colour coded as follows:

230 V (Single Phase)

Brown: Live (L)
Blue: Neutral (N)
Green and Yellow: Earth (E)

The wire coloured brown must always be connected to the terminal marked 'L' or coloured red.

The wire coloured blue must always be connected to the terminal marked 'N' or coloured black.

The wire coloured green and yellow must always be connected to the terminal marked 'E' or with the earth symbol:



or coloured green / green and yellow.

It is important that the machine is effectively earthed. Some machines will be clearly marked with the double insulated logo:



In this case there will not be an earth wire within the circuit.

In the case of the BS1363 plug for use in the UK, always ensure that it is fitted with a fuse conforming to BS1362 appropriate to the rating of the

machine. If replacing the original fuse, always fit a fuse of equivalent rating to the original. Never fit a fuse of a higher rating than the original. Never modify the fuse or fuse holder to accept fuses of a different type or size.

Where the current rating of the machine exceeds 13 A at 230 V, or if the machine is designated for use on a 400 V 3 phase supply a connector conforming to BS4343 (CEE17 / IEC60309) will be used.

230 V machines will be fitted with a blue 3 pin connector. The wiring for this type of this connector will be the same as shown above.

400 V, 3 phase machines will be fitted with a red 4 or 5 pin connector. The wiring for this type of connector is as shown below:

400 V (3 phase)

Brown: Live (L1)
Black: Live (L2)
Grey: Live (L 3)
Blue: Neutral (N)
Green and Yellow: Earth (E)

The wire coloured brown must always be connected to the terminal marked 'L1'.

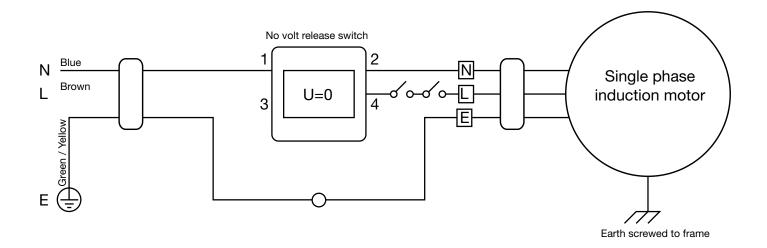
The wire coloured black must always be fitted to the terminal marked 'L2'.

The wire coloured grey must always be connected to the terminal marked 'L3'.

The wire coloured blue must always be connected to the terminal marked 'N' or coloured black.

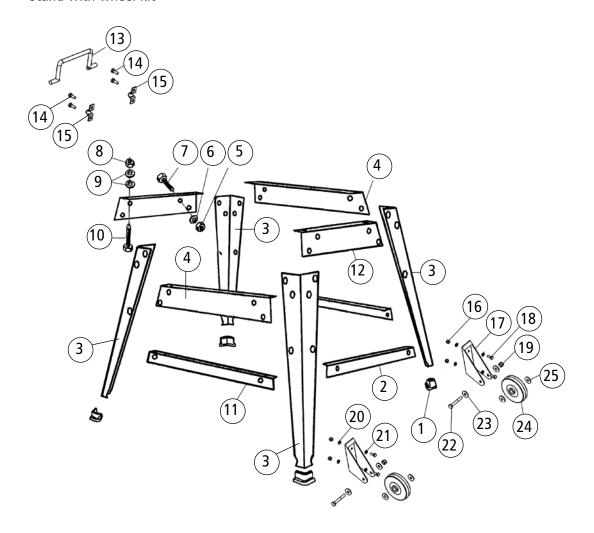
The wire coloured green and yellow must always be connected to the terminal marked 'E' or with the earth symbol

If in doubt about the connection of the electrical supply, always consult a qualified electrician.



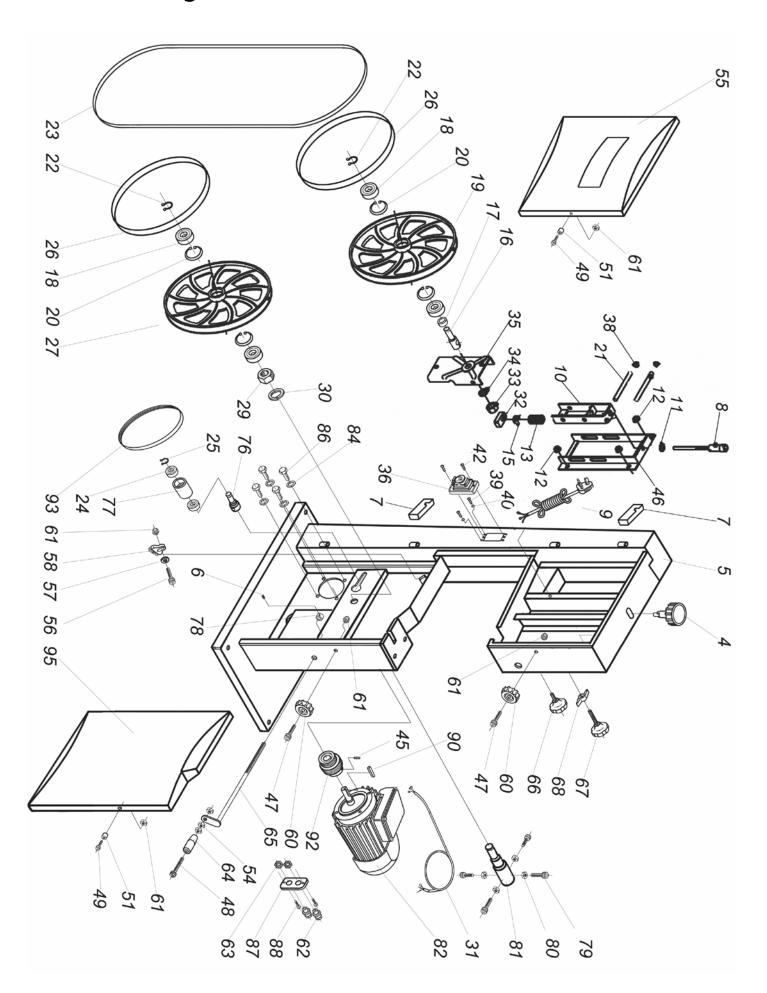
13. Parts Diagrams

Stand with wheel kit

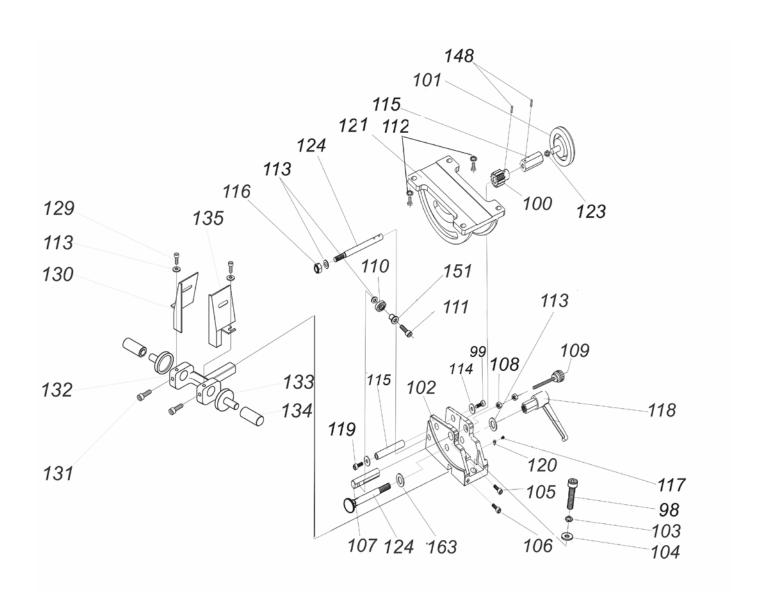


Ref No.	Description	Ref No.	Description
1	Rubber shoe	15	2 x D-handle clamps
2	Short mid brace support	16	Hex nut
3	Leg	17	Wheel bracket
4	Long top brace support	18	Hex bolt
5	Hex nut	19	Hex nut
6	Washer	20	Flat washer
7	Hex bolt	21	Washer
8	Hex nut	22	Carriage bolt
9	Washer	23	Flat washer
10	Hex bolt	24	Wheel
11		25	Washer
	Long mid brace support		
12	Short top brace support		
13	D-handle		
14	4 x pan head screws		

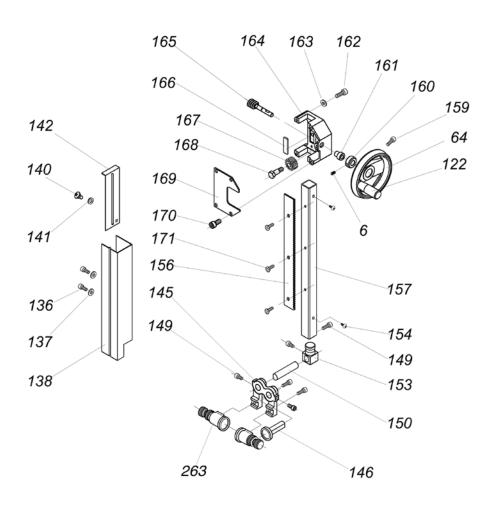
13. Parts Diagrams - cont.

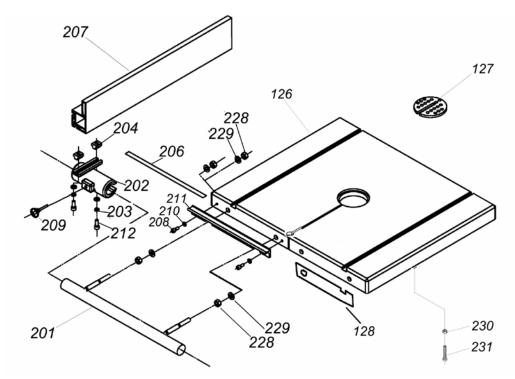


13. Parts Diagrams - cont.



13. Parts Diagrams - cont.





14. Parts List

Ref No.	Description	Ref No.	Description
4	Blade tension knob	64	Crank handle
5	Frame	65	Crank
6	Set screw M5 0.8 x 10	66	Guide post lock knob
7	Safety switch	67	Blade tracking knob
8	Blade tensioner	68	Wing nut M8
9	Washer	75	Hex nut
10	Hex nut M8 1.25	76	Sliding shaft
11	Blade tensioner	77	Tension wheel
12	Flange nut	78	Set collar 10mm
13	Spring	79	Hex screw
15	Blade tension indicator	80	Hex nut
16	Upper wheel shaft	81	Lower wheel shaft
17	Bushing	81	Motor
18	Wheel Bearing	84	Lock washer M8
19	Upper wheel	86	Hex screw
20	Int retaining ring M40	87	Strain relief plate
21	Mount shaft	88	Pan head screw
22	Circlip ring	90	Key 5 x 5 x 35
23	Saw blade	92	Motor pulley
24	Grooved ball bearing 80101	93	V-belt
25	Circlip ring 12 x 1	95	Lower wheel cover
26	Band wheel tyre	96	Bushing
27	Lower wheel	98	Hex socket screw M8 1.25 x 25
29	Hex nut M27 x 2	99	Hex socket screw
30	Lock washer 27	100	Small gear
31	Motor cord	101	Table tilt knob
32	Adjust screw	102	Trunnion support bracket
33	Hex nut	103	Lock washer M8
34	Spring washer	104	Flat washer M8
35	Wheel carrier bracket	105	Hex socket screw M6 1.0 x 20
36	Switch	106	Hex socket screw M6 1.0 x 50
38	Star lock	107	Hollow block
39	Pan head screw	108	Hex nut M6 1.0
40	Star washer M5	109	Adjustment bolt M6 1.0
42	Pan head screw Hex bolt M8 1.25 x 16	110	Bearing 6201 Hex socket screw M8 1.25 x 25
44 45	Set screw	111 112	Flat washer M8
45 46	Tension bracket	113	Flat washer M6
40 47	Hex bolt M6 1.0 x 25	114	Flat washer
48	Cap screw M6 x 55	115	Guide shaft
48 49	Hex socket screw M6 1.0 x 20	116	Nylon nut
51	Bushing	117	Pan head screw
54	Hex nut	117	Tall fiedd Sciew
55	Upper wheel cover		
56	Hex bolt M6 1.0 x 25		
57	Flat washer M6		
58	Brush		
60	Star knob		
61	Nylon nut M6 1.0		
62	Strain relief		
63	Strain relief nut		
-			

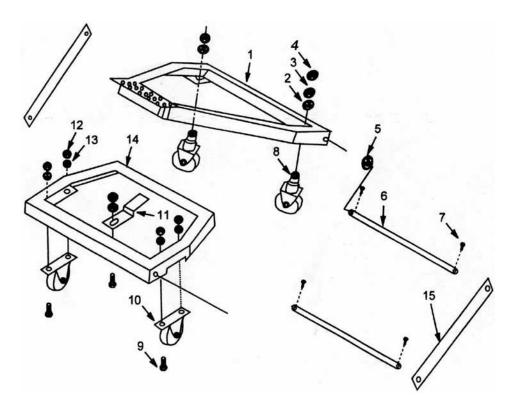
14. Parts List - cont.

Ref No.	Description
118	Lock handle
119	Hex socket screw
120	Pointer
121	Trunnion plate
122	Guide post handwheel handle
123	Hex bolt M8 1.25 x 16
124	Carriage bolt M6 1.0 x 65
126	Table
127	Table insert
128	Keep plate
129	Hex socket screw
130	Left cover
131	Hex socket screw
132	Lower blade guide support
133	Lock washer
134	Shaft
135	Right cover
136	Hex bolt
137	Flat washer
138	Protective cover
140	Step screw
141	Flat washer
142	Sliding plate
145	Upper blade guide bracket
146	Blade support shaft
148	Pin roll
149	Hex socket screw
150	Adjust bar
151	263
153	Upper guide support block
154	Pan head screw
156	Rack
157	Upper guide hose
159	Hex socket screw
160	Bushing
161	Bushing
162	Cap screw M6 1.0 x 16
163	Spring washer 6
164	Guide bracket
165	Worm cylinder
166	Fixed plate
167	Gear
168	Fixed bolt
169	Cover
170	Hex bolt M8 1.25 x 16
171	Pan head screw
201	Fence rail
202	Fence seat
203	Washer
204	T-nut
206	Fence scale

Ref No.	Description
207	Rip fence
208	Hex socket screw
209	Lock knob
210	Scale seat
211	Washer
212	Hex socket screw
216	Bush
217	Lower bracket
223	Wing nut
224	Cap screw
228	Hex nut M8
229	Washer
230	Hex nut M8
231	Hex bolt M8 1.25 x 30

15. Assembly of the Optional BS300A Pedal Wheel Kit

Fig.15.1



1	Pedal	1
2	Flat washer	2
3	Hex nut	2
4	Spring washer	7
5	Washer	4
6	Axle	2
7	Split pin	4
8	Rotating casters	2
9	Hex bolt	5
10	Casters	2
11	Release catch	1
12	Hex nut	5
13	Flat washer	5 5
14	Operating frame	1
15	Brace support har	7



When fitting the optional pedal wheel kit during initial assembly of the bandsaw, please do so before attaching the bandsaw to the leg stand to ensure greater safety and ease of fitment.

When fitting the optional pedal wheelkit, the short mid brace support (Fig. 3.7) at the front of the bandsaw should be removed.

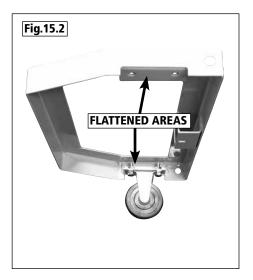
Assembly

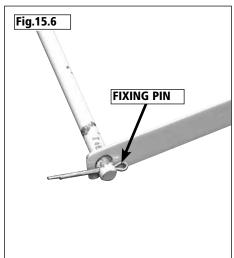
- 1. Mount the two casters to the flattened areas on the underside of the operating frame, **Fig. 15.2**. Secure in place using the nuts bolts, washers and spring washers provided, ensuring the spring washers are placed next to the nuts.
- 2. Fit the release catch to the operating frame with the nuts and bolts provided, **Fig. 15.3**.
- 3. Fit the two rotating casters to the pedal as shown in **Fig. 15.4**. Secure in place using the nuts bolts, washers and spring washers provided, ensuring the spring washers are placed next to the nuts.
- 4. Feed one of the axles through the hole on one of the brace support bars, **Fig. 15.5**, and secure using one of the pins and washers provided, **Fig. 15.6**.
- 5. Feed the axle through the fixing holes on both of the rear legs of the stand and pedal, **Fig. 15.7**. The rear side of the machine is that which is closest to the spine, see **Fig. 15.8**.
- 6. Repeat this process at the opposite side ensuring that both sides of the axle have been secured with the fixing pins and washers and that both sides of the pedal are fixed. It should now be secure between the legs.

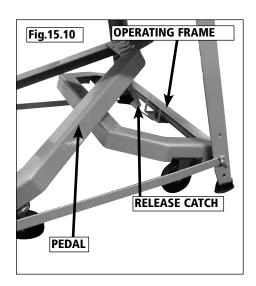
- 7. Feed the second axle through the holes in the brace support bars, front legs of the stand and operating frame. Secure using fixing pins and washers, **Fig. 15.9**.
- 8. Repeat this process at the opposite side ensuring that both sides of the axle have been secured with the fixing pins and washers and that both sides of the operating frame are fixed. It should now be secure between the legs.
- 9. At this point it is important to ensure that the operating frame sits below the pedal and that the release catch hooks under the pedal as in **Fig. 15.10**. If necessary, adjust the operating frame to enable the release catch to hook onto the pedal.

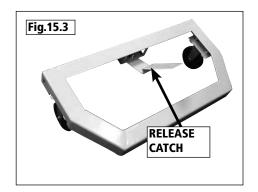
Operation

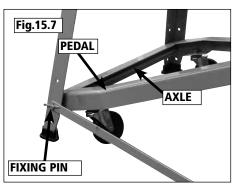
To operate the wheel kit press down on the pedal, **Fig. 15.11**. This motion raises the bandsaw and stand. The release catch hooks onto the pedal allowing the machine to be wheeled freely around the workshop. To set the machine in position, press down on the release catch. This motion releases the wheels and lowers the leg stand to the floor.







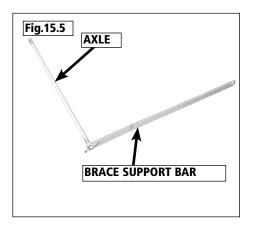


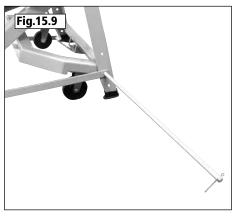












EU Declaration of Conformity

Cert No: EU / BS300E / 1

			ITED.

Centenary House, 11 Midland Way, Barlborough Links, Chesterfield, Derbyshire S43 4XA declares that the machinery described:-

1.	Type: Bandsaw	
2.	Model No: BS300E	
3.	Serial No	
Conforms	s with the following directives:-	
	ERY DIRECTIVE g / replacing Directives	2006/42/EC

LOW VOLTAGE DIRECTIVE and its subsequent amendment

2006/95/EC

ELECTROMAGNETIC

COMPATIBILITY DIRECTIVE and its subsequent amendments

2004/108/EC

EN 55014-1:2006, EN 61000-3-2:2006, EN 61000-3-3:1995+A1+A2, EN 55014-2:1997+A1

and conforms to the machinery example for which the EC Type-Examination Certificate No BM50169546, AN50169545, AE 50172130 has been issued by **TÜV Rheinland Product Safety GmbH**, at: Am Grauen Stein, D-51105. Cologne, Germany

and complies with the relevant essential health and safety requirements.

Auto (1/01/2013

Andrew Greensted Managing Director



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