

BS300

Mid Sized Bandsaw

Instruction Manual

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 Description	Part Number
Blades	
1/4" x 6TPI Bandsaw Blade	BB1421406
3/8" x 6TPI Bandsaw Blade	BB1423806
1/2" x 6TPI Bandsaw Blade	BB1421206
3/4" x 3TPI Bandsaw Blade	BB1423403
1" x 3TPI Bandsaw Blade	BB142103
Table Insert	127
Bandwheels	
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Health & Safety Guidance

READ ALL THE INSTRUCTIONS IN THIS MANUAL CAREFULLY BEFORE ASSEMBLY, INSTALLATION AND USE OF THIS PRODUCT.

KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE.

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

SAFE OPERATION

1. Eye Protection

The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Always wear safety glasses or other suitable eye protection. Wear safety glasses at all times. Everyday glasses only have impact resistant lenses. They are not safety glasses which give additional lateral protection.

2. Keep work area clear.

Cluttered areas and benches invite accidents and injuries.

3. Consider work area environment.

Do not expose the machine to rain or damp conditions.

- Keep the work area well lit.
- Do not use the machine in the presence of flammable liquids or gases.

4. Guard against electric shock.

Avoid body contact with earthed or grounded surfaces.

5. Keep other persons away (and pets).

Do not let persons, especially children, not involved in the work, touch the machine, or extension cord (if used) and keep visitors away from the work area.

6. Store idle tools.

When not in use, tools should be stored in a dry, locked- up place, out of reach of children.

7. Do not force the machine.

It will do the job better and work more safely if operated at the speed at which it was intended.

8. Use the right tool.

- Do not force small tools to do the job of a heavy-duty tool.
- Do not use tools for purposes other than those for which they were intended.

9. Dress properly.

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

10. Use protective equipment

- Use safety glasses. (See note 1. above)
- Use face or dust shield if cutting operation creates dust.
- Use ear plugs or ear defenders when the machine is in use

11. Connect dust extraction equipment.

(See section 1 L)

12. Do not abuse the cord.

Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.

13. Do not overreach.

Keep proper footing and balance at all times.

14. Secure work.

Ensure that your work piece is properly held before starting to cut.

15. Maintain tools with care.

- Follow instructions for lubrication and changing accessories.
- Inspect electric cords periodically and, if damaged, have them repaired by an authorized service facility or qualified electrician.
- Inspect extension cords (if used) periodically and replace if damaged. Always use properly rated extension cord.

16. Disconnect Machine.

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

17. Never leave machine running unattended.

Turn power off, do not leave machine until it comes to a complete stop.

18. Remove adjusting keys and wrenches.

ENSURE that all adjusting wrenches and keys are removed before switching the machine 'ON'.

19. Avoid unintentional starting.

Ensure the switch is in the "STOP" position before turning on the power from the main electricity supply. Your Record Bandsaw already incorporates low voltage protection. This means the machine will not automatically start up after say a power cut, unless you first reset the start switch.

20. Out-door Extension Leads.

Your machine should not be used outdoors.

21. Stay alert.

Watch what you are doing, use common sense and do not use the machine when you are tired.

22. Check for damaged parts.

- Before 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 of parts, mounting and any other conditions that may affect its operation.
- 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. Have defective switches replaced by a qualified person.
- Do not use the machine if the switch does not turn on and off.

23. 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.

24. Have your machine repaired by a qualified person.

• This electric machine complies with the relevant safety rules. Only qualified persons using original spare parts should carry out repairs. Failure to do this may result in considerable danger to the user.

25. This machine is designed for cutting wood.

- It can safely cut some plastics and acrylics but should never be used to cut metal.

Maintenance and Servicing

This machine requires very little maintenance. This handbook gives clear instructions on installation, set up and operation. Read these instructions carefully. Remember always to switch off and unplug from the main electricity supply before carrying out any setting up or maintenance operations.

Should you need advice on the repair or maintenance of this product, our Customer Service Department can be contacted on 0870 770 1777 and will be happy to assist you.

Additional Safety Instructions For Bandsaws

SAFETY IS A COMBINATION OF OPERATOR COMMON SENSE AND ALERTNESS AT ALL TIMES WHEN THE BANDSAW IS BEING USED.

WARNING: FOR YOUR OWN SAFETY, DO NOT ATTEMPT TO OPERATE YOUR BANDSAW UNTIL IT IS COMPLETELY ASSEMBLED AND INSTALLED ACCORDING TO THE INSTRUCTIONS.

SAFE OPERATION

1. The bandsaw should be bolted to the floor where possible.
2. If you are not thoroughly familiar with the operation of bandsaws, 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.
3. Never turn the machine 'ON' before clearing the table of all objects (tools, scrap pieces etc.)
4. Ensure that:
 - (i) the voltage of the machine corresponds to the mains voltage.
 - (ii) To use an earthed power source (wall socket).
 - (iii) The cord and plug are in good condition, i.e. not frayed or damaged.
 - (iv) No saw teeth are missing and the blade is not cracked or split. Otherwise replace blade.
 - (v) The blade is properly tensioned and aligned.
5. Never start the machine with the saw blade pressed against the workpiece.
6. Never apply sideways pressure on the blade as this may cause the blade to break.
7. 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.
8. Never leave the machine running unattended.
9. Ensure the teeth of the blade are pointing downwards.
10. Do not use saw blades which are damaged or deformed.
11. Replace the table insert when it is worn.
12. When cutting round timber use a suitable device to prevent twisting of the workpiece. **See section 9 Fig. 9.4.**

13. DO NOT operate the machine when the door or the blade guard is not closed.

14. Adjust the guard as close as possible to the workpiece being cut.

15. Ensure the selection of the saw blade and speed are suitable for the material to be cut. For most wood cutting applications the fastest of the two speeds should be used. **See section 9.**

16. If the mains lead is damaged, it must only be replaced by a qualified electrician.

17. Never use a long extension cable.

18. **WARNING LABELS** – It is important that labels bearing Health & Safety Warnings are not removed or painted over. New labels are available from Customer Services.

19. **MECHANICAL SAFETY** – The security of all clamps and work holding devices should be checked before switching on.

20. **WOOD DUST** – The fine particles of dust produced in cutting operations are a potential health risk. Some imported hardwoods do give off highly irritant dust which causes a burning sensation. We strongly recommend the use of a dust collector and dust mask/visor. Our Customer Services Department will be happy to advise you on the correct unit for your needs.

21. This machine falls under the scope of the 'Health & Safety at Work etc. Act 1974', and the 'Provision & Use of Work Equipment Regulations 1998'. We recommend that you study and follow these regulations. Further guidance can be found in the Safe Use of Narrow Bandsaws and the Safe Use of Woodworking Machinery code of practice booklet (L114) published by Health & Safety Executive and available by visiting <http://www.hse.gov.uk/pubns/wis31.htm>.

For further help on any of the above matters please contact our Customer Services Department at :-

Tel: 0870 770 1777 Fax: 0870 770 1888

WARNING: Do not allow familiarity (gained from frequent use of your machine) to cause complacency. Always remember that a careless fraction of a second is sufficient to inflict severe injury.

Record Power Guarantee

1. INTRODUCTION

1.1 We supply machinery through a network of dealers and authorised distributors and you should be aware that your contract of sale is with the retailer from whom you purchased this product.

1.2 If you are not satisfied with this product you should in the first instance approach the retailer from whom you purchased it.

1.3 Customers have statutory rights to protect them and information on this can be found at the Citizens Advice Bureau or on such web-sites as that operated by the DTI (<http://www.dti.gov.uk>)

1.4 Returning your guarantee card will speed up the claims procedure and can be very helpful as a proof of purchase should the initial receipt be mislaid or damaged. We recommend that this is returned as close to your original purchase date as possible.

1.5 Correct installation, set-up, adjustment and routine maintenance of the machine are the responsibility of the end-user and problems arising from incorrect set-up, adjustment or maintenance are not covered by the terms of this guarantee. However support is available in the first instance from the retailer who supplied you and free technical support is available from Record Power on 0870 7701777 during office hours and from an extensive knowledge base on our website www.recordpower.co.uk. We also recommend that those users who have not had suitable training in the safe use of machinery should seek such training locally before using or attempting to set up and adjust any machinery (please contact your retailer for recommendations in your local area).

2. GUARANTEE

2.1 In addition to the above Record Power guarantees that for a period of 5 years from the date of purchase the components of this product will be free from defects caused by faulty construction or manufacture.

2.2 During this period Record Power will repair or replace free of charge any parts which are proved to be faulty in accordance with paragraph 2.1 above provided that:

2.2.1 You follow the claims procedure set out below;

2.2.2 We are given a reasonable opportunity after receiving notice of the claim to examine the product.

2.2.3 If asked to do so by us, you return the product to Record Power's premises or other approved premises such as those of the supplying dealer, for the examination to take place.

2.2.4 The fault in question is not caused by continuous industrial use, accidental damage, fair wear and tear, wilful damage, negligence on your part, incorrect electrical connection, unapproved modification, abnormal working conditions, failure to follow our instructions, misuse, or alteration or repair of the product without our approval.

2.2.5 This product has been purchased by you and not used for hire purposes;

2.2.6 This Guarantee extends to the cost of carriage incurred by you returning the product to Record Power as long as it is demonstrated that the defect falls within the terms of this Guarantee and you follow the claims procedure as outlined below;

3. CLAIMS PROCEDURE

3.1 In the first instance please contact the retailer 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 dealer should be able to resolve the majority of these issues much more quickly than processing a claim under the guarantee.

3.2 If the 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 at the address set out at the foot of this Guarantee. 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. If you include a phone number or email address this will help to speed up your claim.

3.3 PLEASE NOTE that it is essential that the letter of claim reaches the address below on the last day of this Guarantee at the latest. Late claims will not be considered.

3.4 We will contact you once we have received your initial written claim. If it is necessary to return the item, in most cases but subject always to clause 2.2.5, we will arrange for collection or will provide freepost information to enable return depending on the weight and size of the product concerned. If the product is to be returned to us, we will agree with you in advance a Returns Number, to speed tracking of the claim and ensure the most appropriate method of return to you is used.

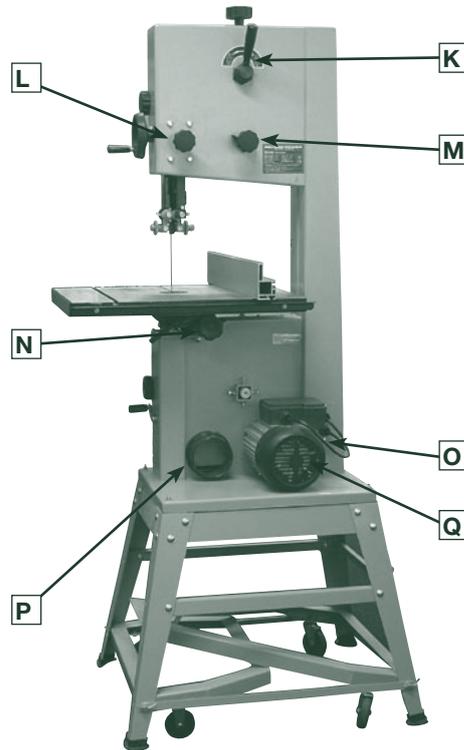
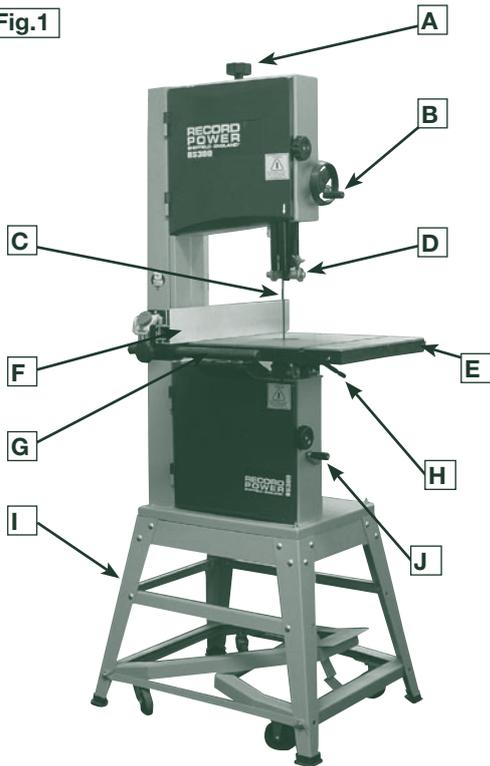
4. NOTICE

This Guarantee applies to all goods purchased from an authorised retailer of Record Power within the United Kingdom of Great Britain and Northern Ireland. 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. Additional written copies of this Guarantee can be obtained by writing to the address below. Please include a stamped and self addressed envelope for each copy of the Guarantee requested.

Record Power Ltd.
Unit B, Adelphi Way
Ireland Industrial Estate
Staveley, Chesterfield
S43 3LS

1. Getting To Know Your Bandsaw

Fig.1



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

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

2. Machine Specification

BS300 SPECIFICATION	
Blade length:	2370mm (93")
Blade width:	6mm - 19mm (1/4" - 3/4")
Max depth of cut:	190mm
Throat depth:	305mm
Table size:	545 x 400mm
Max width blade to rip fence:	270mm
Table height (from floor):	990mm
Extraction port:	100mm
Motor power (output):	1hp
Weight:	86kg
Footprint:	700 x 540mm
Dimensions:	1670mm (height) x 680mm (width) x 690mm (depth)

3. Initial Assembly

3.1 Unpacking and components included

The machine is supplied partly assembled. Prior to use, the following items have to be fitted: bandsaw table, rip fence guide, crank handle and guide post handwheel and the wheel kit.

When unpacking the machine the following components are included for the initial assembly **Fig.3.1**:

- 1. 2 x Nuts and 1 x small crank handle
- 2. 1 x Table stop safety bolt
- 3. 1 x Rise & fall hand wheel
- 4. 1 x Blade tensioning knob

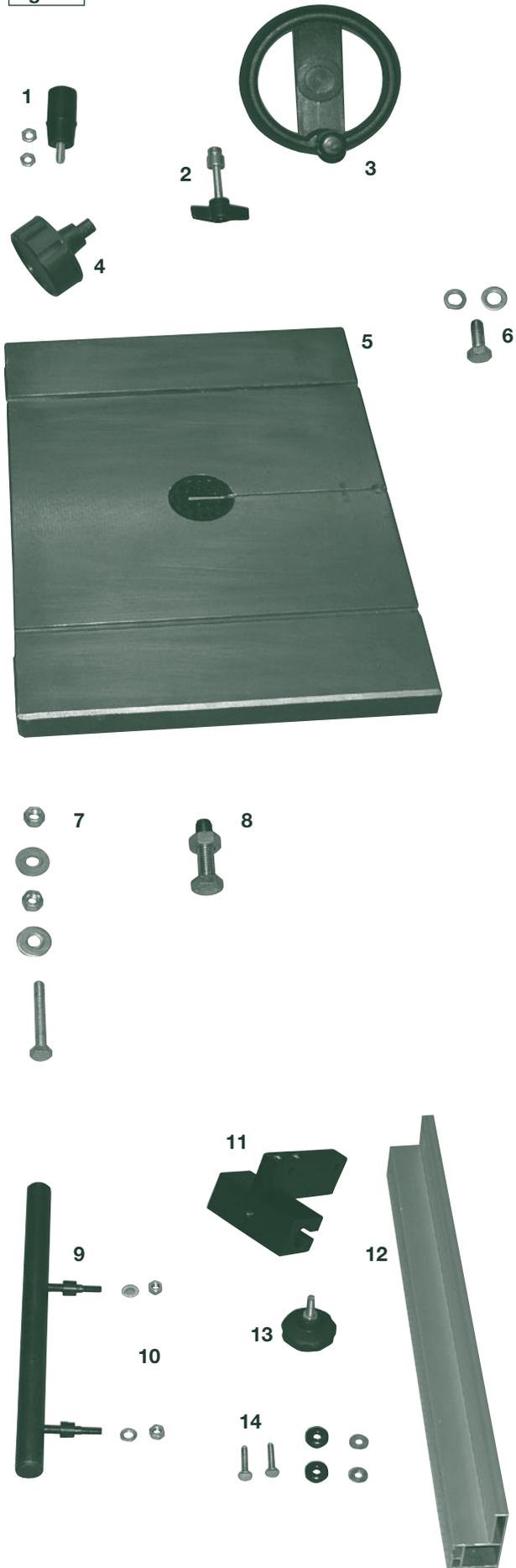
Table Assembly

- 5. 1 x Table
- 6. 4 x Table fixing bolts and washers (each)
- 7. 4 x Long fixing bolts, nuts and washers (each)
- 8. 1 x Nut and bolt

Fence Assembly

- 9. 1 x Fence bar
- 10. 2 x Fence fixing bar nuts and washers (as pictured)
- 11. 1 x Fence carrier
- 12. 1 x Fence
- 13. 1 x Fence lock knob
- 14. 2 x Nuts, bolts and washers (as pictured)

Fig.3.1



3. Initial Assembly - cont.

3.2 Rise & fall hand wheel

Attach large crank handle to rise and fall mechanism with 14mm spanner (not supplied) (See Fig.3.2).

3.3 Belt tension handle

Attach small crank handle to belt tension and speed mechanism with 10mm spanner (not supplied) (See Fig.3.3).

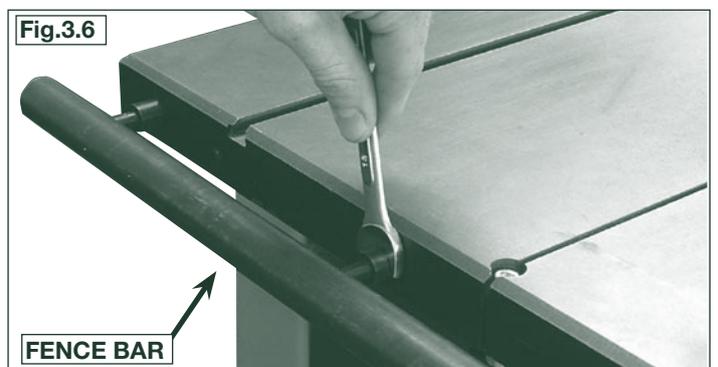
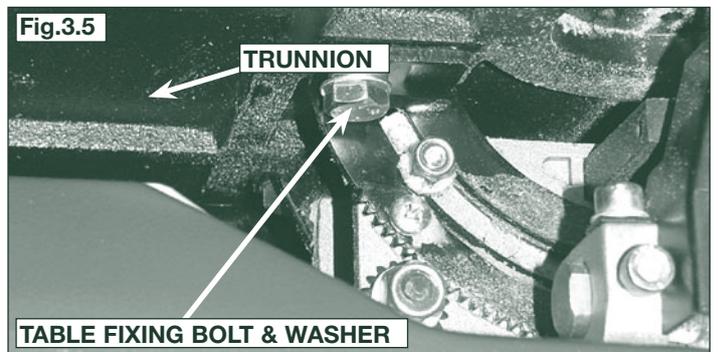
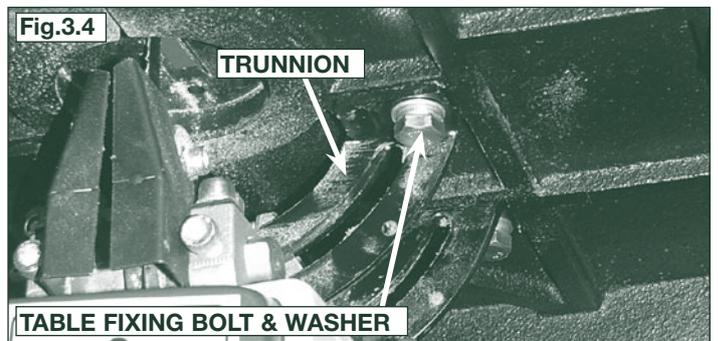
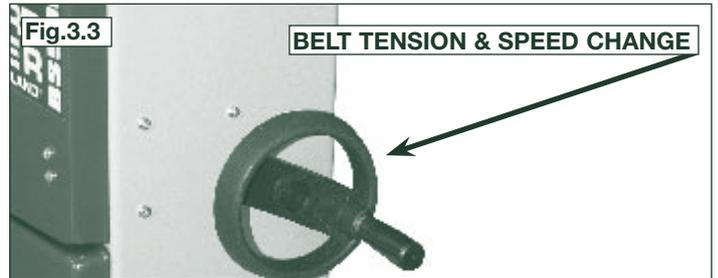
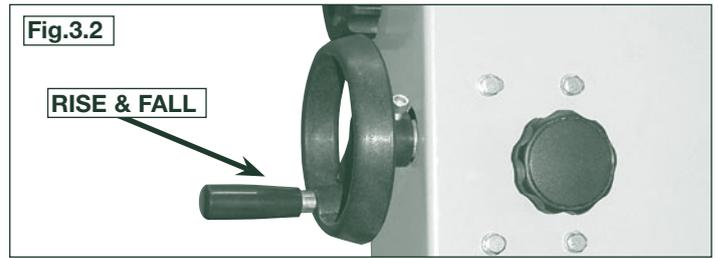
3.4 Fitting the table

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.3.4 front view & 3.5 rear view).

3.5 Fitting the fence bar

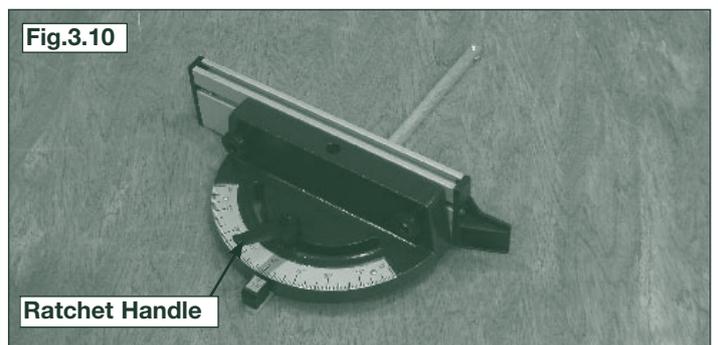
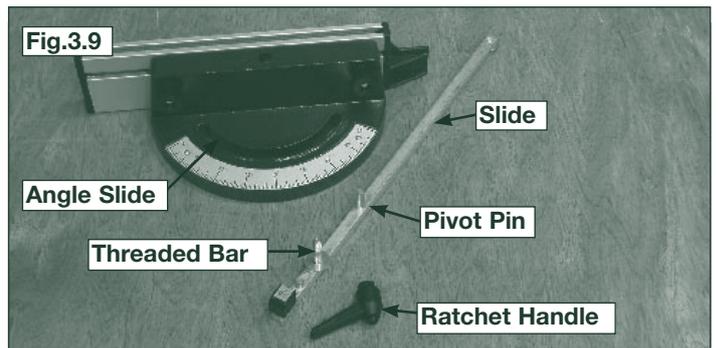
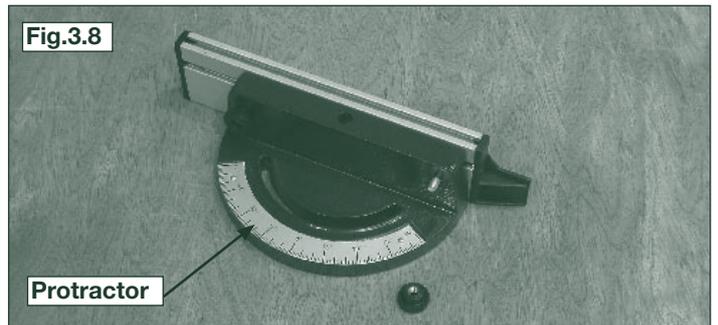
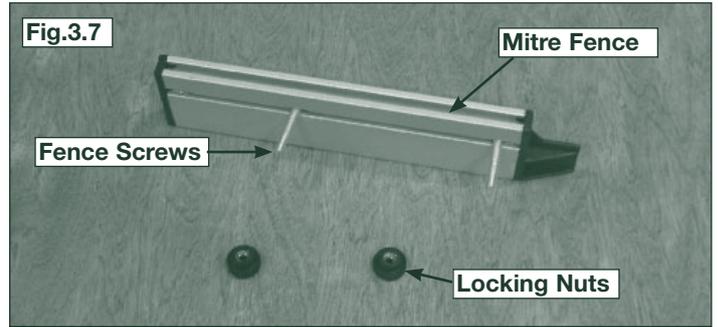
Locate fence bar onto the table fixing with the two fence fixing bar nuts (See Fig.3.6). Do not fully tighten yet as they may need to be adjusted later in the setup process.



3. Initial Assembly - cont.

3.6 Assembling the mitre fence

1. Unscrew the locking nuts from the mitre fence **Fig 3.7**.
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 3.8**.
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 3.9** and **Fig 3.10**.
6. Tighten the ratchet handle onto the threaded bar **Fig 3.10**.



3. Initial Assembly

3.7 Fitting the fence assembly

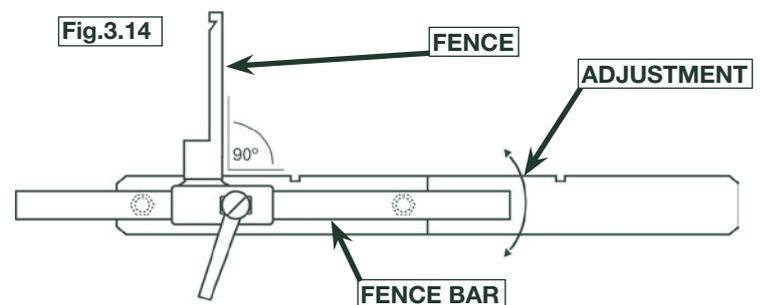
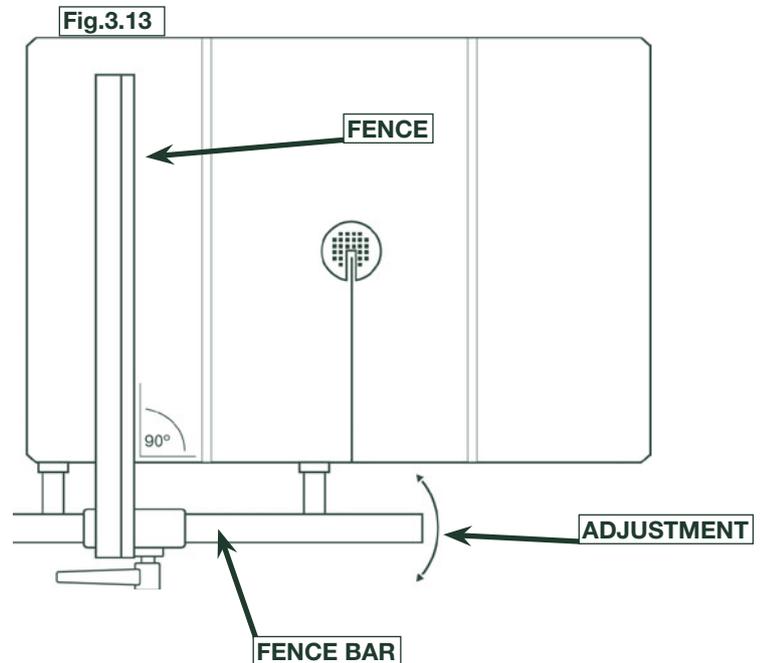
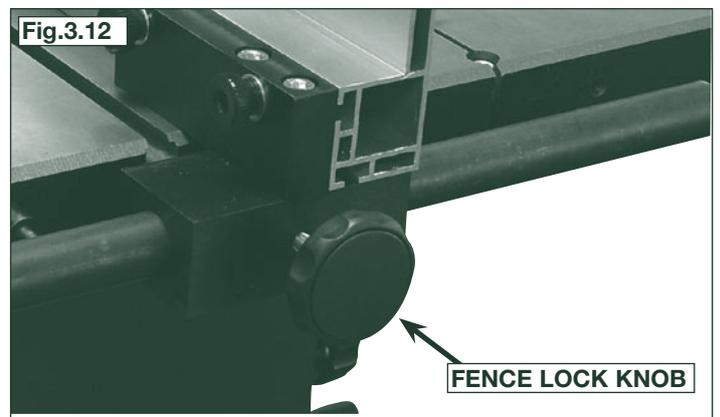
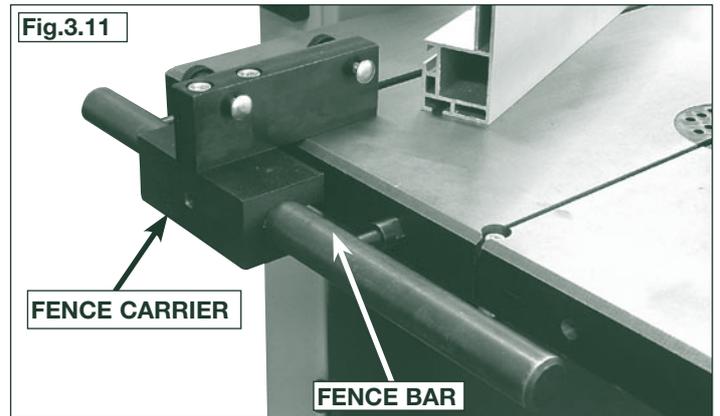
Locate fence assembly onto the fence bar. Position the fence on to the table and lock off by screwing on and tightening the fence lock knob. (See Fig.3.12).

3.8 Fence alignment 1

Align the fence assembly in or out until parallel with the side of the blade (See Fig.3.13) by adjusting the fence bar nuts accordingly.

3.9 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, (See Fig.3.14). Once set at 90° fully tighten the fence bar nuts.



4. Stand & Wheel Kit Assembly

4.1 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.4.1**.

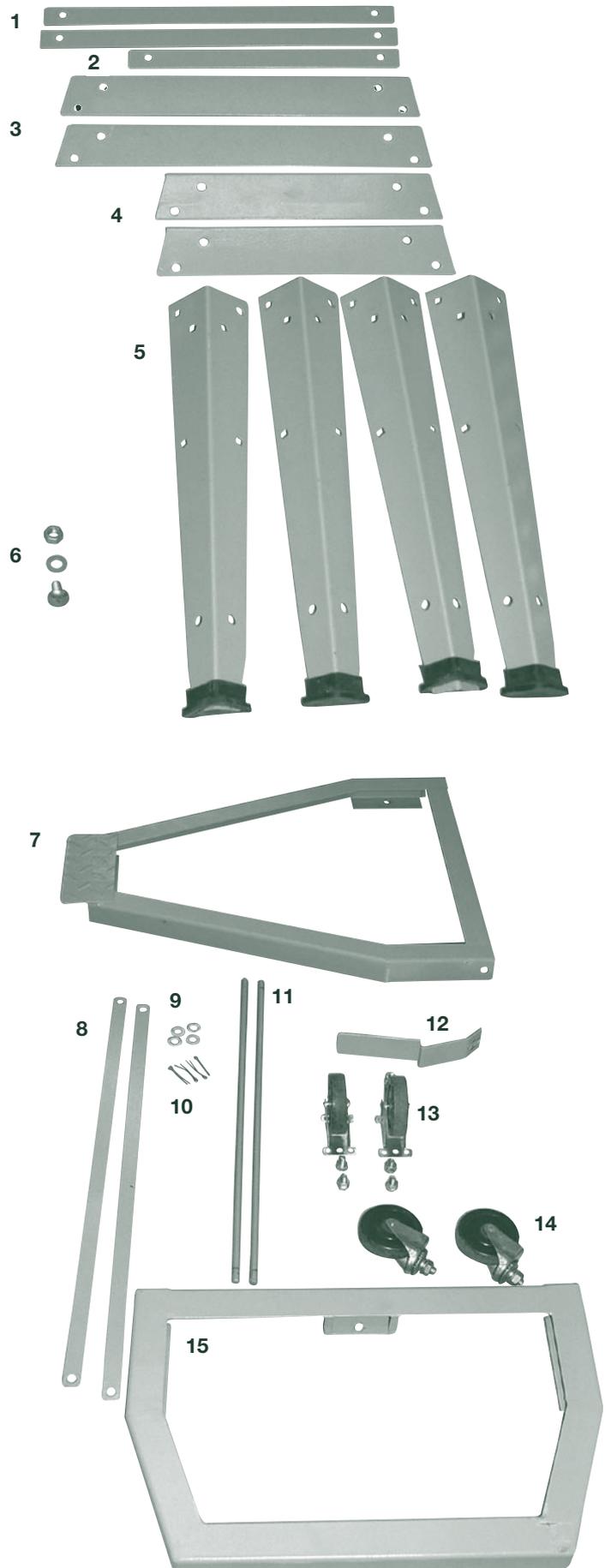
Stand

1. 2 x Long mid brace supports
2. 1 x Short mid brace support
3. 2 x Long top brace supports
4. 2 x Short top brace supports
5. 4 x Legs
6. 22 x Stand fixing nuts bolts and washers (each)

Wheel Kit

7. 1 x Operating frame pedal
8. 2 x Brace support bars
9. 4 x Washers
10. 4 x Fixing pins
11. 2 x Axles
12. 1 x Release pedal
13. 2 x Back wheels
14. 2 x Front wheels
15. 1 x Operating frame

Fig.4.1



4. Stand & Wheel Kit Assembly - cont.

4.2 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.4.2** and **Fig.4.2B**.

2. In the same way, attach the second leg to the brace support **Fig.4.3**.

3. Locate the short top brace supports and fix them to the legs as shown **Fig.4.4**.

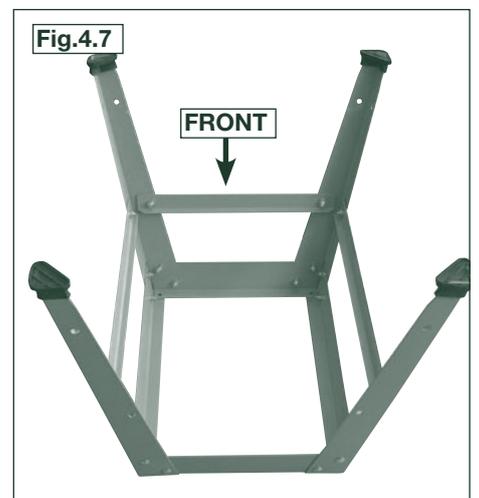
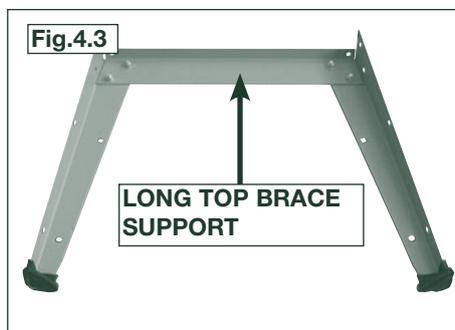
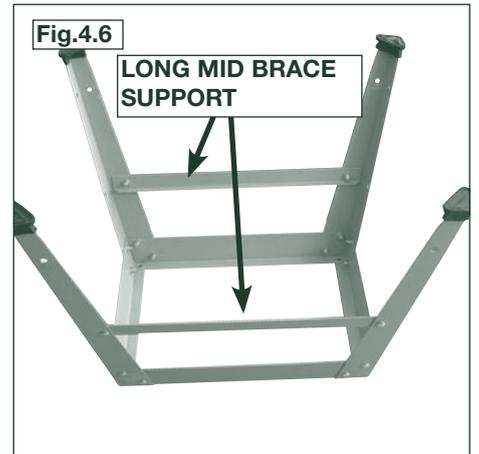
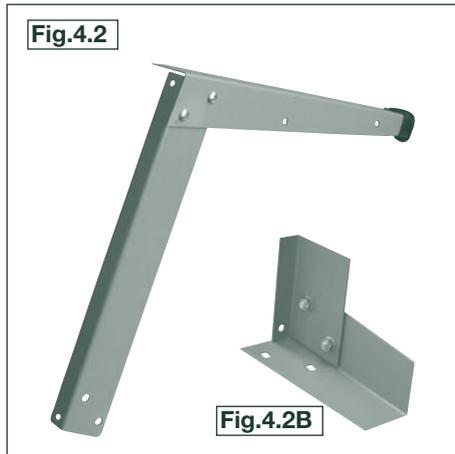
4. Continue in this way until all of the legs and top brace supports have been fitted **Fig.4.5**.

5. 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.4.6**.

6. Finally, fit the short mid brace support to one of the shorter sides **Fig.4.7**.

Note

The side with the short mid brace support fitted will be referred to as the front of the stand. This leaves the back area free for wheel kit operation.



4. Stand & Wheel Kit Assembly - cont.

4.3 Wheel Kit Assembly

1. On the underside of the operating frame, find the two raised areas on either side. Mount the two back wheels and secure in place using the nuts and bolts provided **Fig.4.8**.

2. Take the two front wheels and mount and secure them to the operating frame pedal **Fig.4.9**.

3. Fix the operating frame pedal to the stand ensuring that the front wheels are towards the front of the stand **Fig.4.10**.

4. With the operating frame in hand, locate the release pedal and fix it to the operating frame **Fig.4.11**.

5. Return to the stand and partially fitted wheel kit. Feed the axle through the holes in the brace support bars and legs at the back of the stand **Fig.4.12**.

6. Fit the axle and brace support bar by feeding a washer onto the axle and securing it by passing a pin (as supplied) through the hole in the end of the axle **Fig.4.13**.

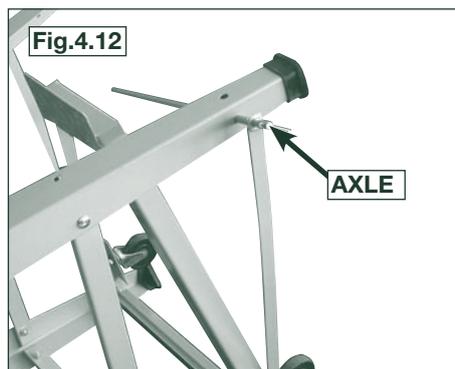
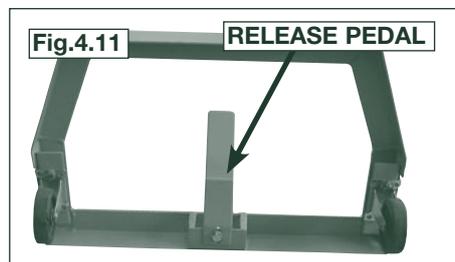
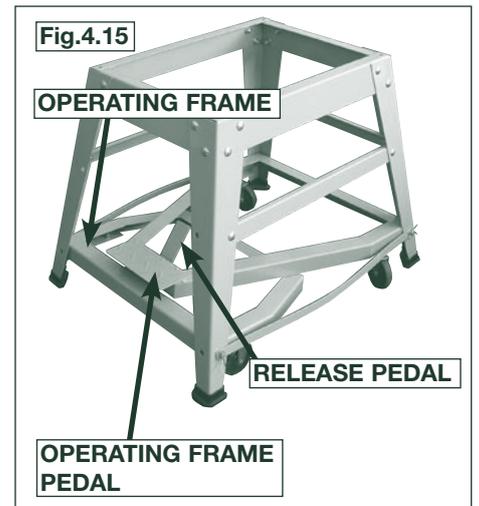
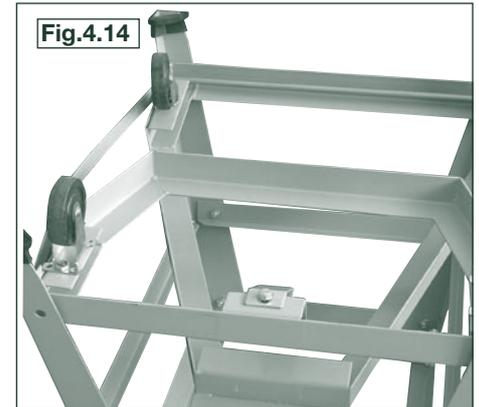
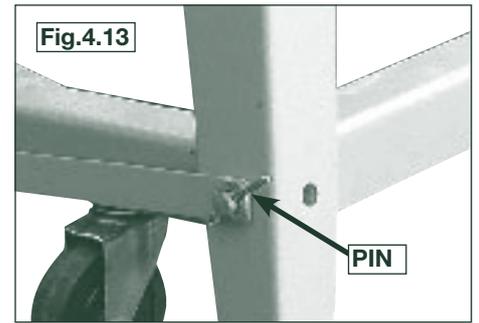
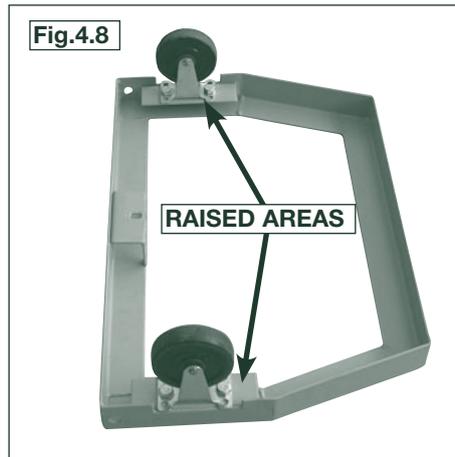
Repeat steps 5 and 6 to fit the axle to the front of the stand.

7. Place the operating frame over the axle at the back of the stand ensuring that it lies underneath the operating frame pedal **Fig.4.14** and **Fig.4.15**. Secure the operating frame to the stand using the nuts, bolts and washers provided.

Wheel Kit Operation

To operate the wheel kit press down on the operating frame pedal **Fig.4.16**. This motion raises the bandsaw and stand. The release pedal catches onto the operating frame pedal allowing the bandsaw to be wheeled freely around the workshop.

To set the bandsaw in position, press down on the release pedal. This motion releases the catch and lowers the bandsaw allowing the stand to make contact with the floor.

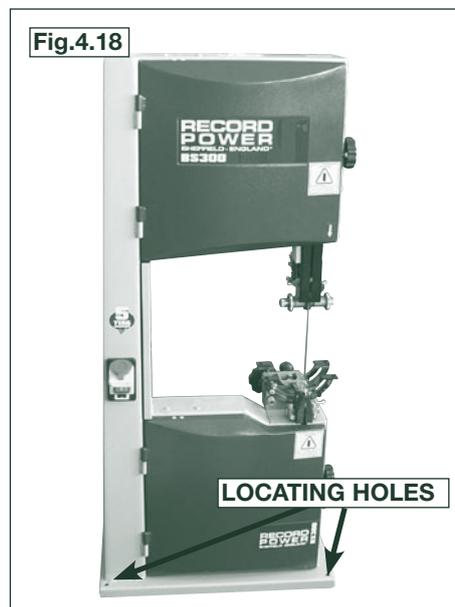
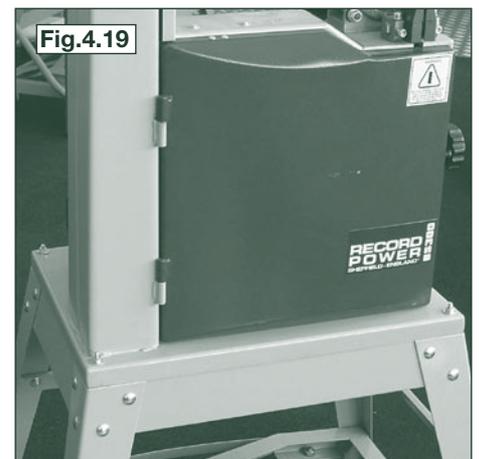
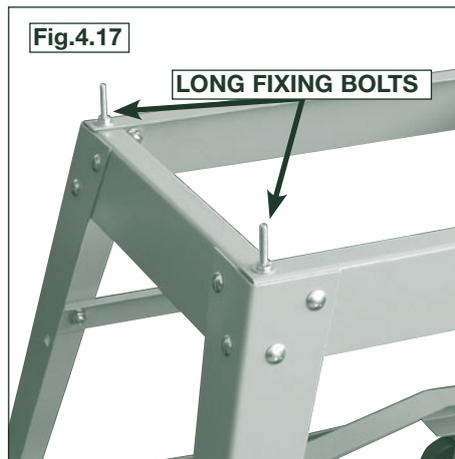


4. Stand & Wheel Kit Assembly - cont.

4.4 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. Feed the long fixing bolts up through the stand and secure the four corners using the washers and bolts provided **Fig.4.17**.
2. Lift the bandsaw over the stand. Locate the long fixing bolts over the four holes in the bandsaw base **Fig.4.18** and lower the bandsaw onto the mounted long fixing bolts **Fig.4.19**.
3. Secure the bandsaw to the stand with the remaining washers and nuts **Fig.4.19**.



5. Setting Table Square To Sawblade

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 sawblade

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.

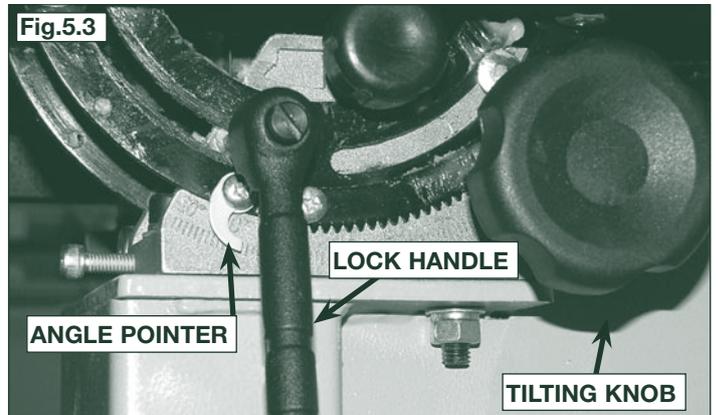
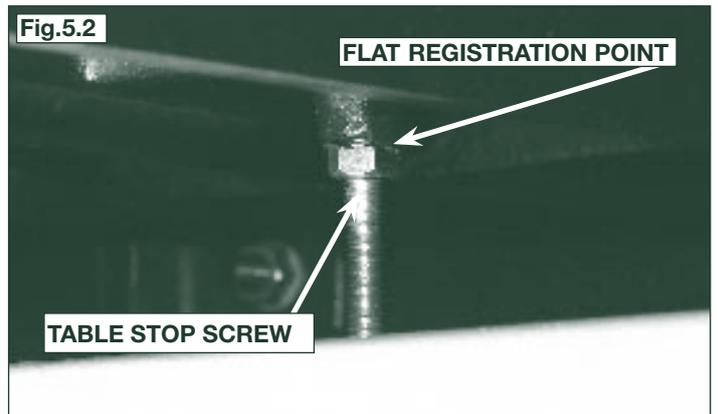
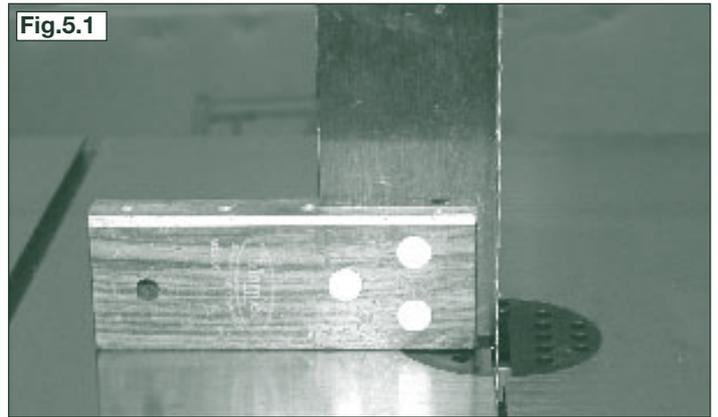
- First offer the square up to the blade to give an indication of adjustment required.
- If the table is not at 90° to the blade use table tilting mechanism (See Fig.5.3) to adjust the table until it is 90° to the blade. If the table stop screw position is too high it may be necessary to wind this down 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 to meet the flat registration point on the underside of the table (now set at 90°) to ensure that the table always returns to square after tilting. The table stop screw is located above the bandwheel on the lower bandwheel housing. By first slackening the locking nut and then adjusting the hex screw the table stop screw can be set correctly. Re-tighten the locking nut making sure that the setting is maintained.

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

The tilt mechanism will be used when squaring the table to the blade. Tilt the table as follows: 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

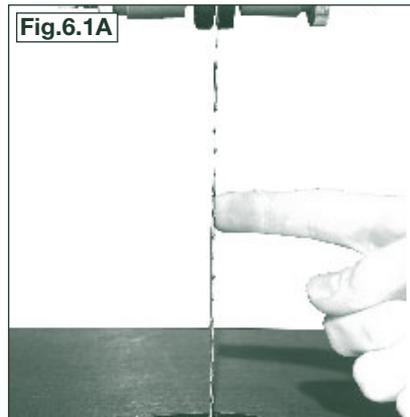
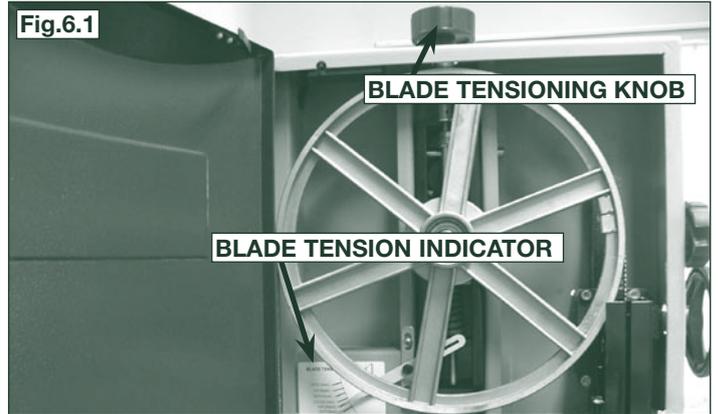
The blade tensioning knob should be used to increase or decrease tension (See Fig. 6.1). The only accurate way to check a blade is with a tension meter. These are very expensive so most users may need another method. The blade tension indicator which is located inside the main top housing of the bandsaw. This 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 index finger. When pushing with the index finger a correctly tensioned blade should not move more than a 1/4" sideways (See Fig. 6.1A).

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. On the BS300 the simplest way to release and re-tension the blade is to use the cam handle located on the back on the machine.

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 bandwheel by hand and adjusting the tracking knob (See Fig.6.2). By turning the tracking knob clockwise the blade will move towards the back of the bandwheel, by turning the tracking knob anti-clockwise the blade will move to the front of the bandwheel. The blade should run as close to the centre of the bandwheel as possible, as shown (See Fig.6.3). On 1/4", 3/8" and 1/2" blades it may be necessary to run the blade to rear of the bandwheel. After the blade is tracked in the desired position on the bandwheel, rotate the 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.6.2).



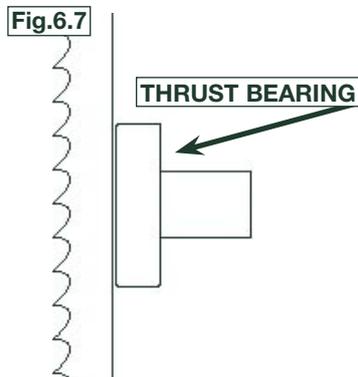
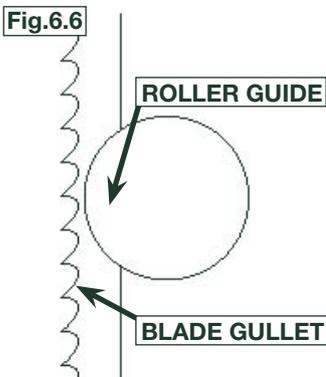
6. Bandsaw Blade Set Up - cont.

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

To adjust the upper blade guides, first position the guide assembly relative to the blade, by slacking off the hex screw (Fig.6.4A) and moving the guide carrier until the roller guides are just behind the gullets of the blade (See Fig.6.4). Next set the roller guides as near as possible to the blade without actually touching. This is done by unlocking and locking the nut on each side of the guide adjustment (See Fig.6.4). Do not let the roller guides actually touch the blade as this will adversely affect the life of the blade. Finally adjust the thrust bearing to be just clear of the back of the blade (See Fig.6.7). Do this by unlocking the hex socket screw (Fig.6.5B). When the correct adjustment is reached, lock the thrust bearing in position with hex socket screw (Fig.6.5B).

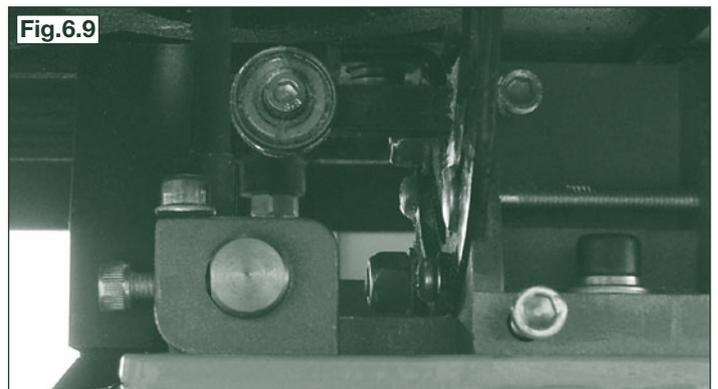
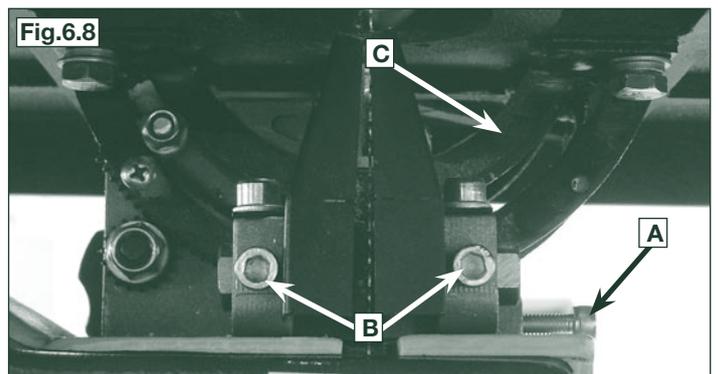
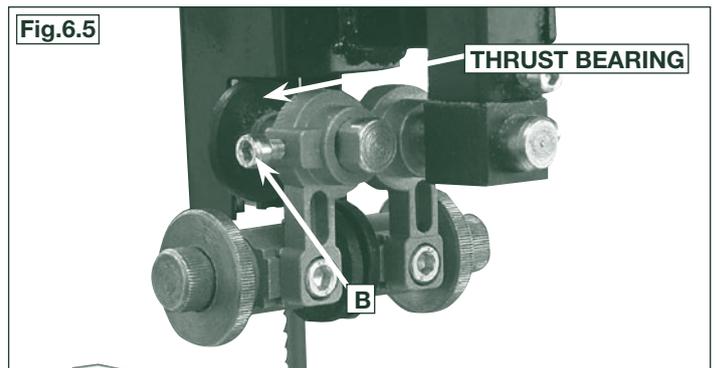
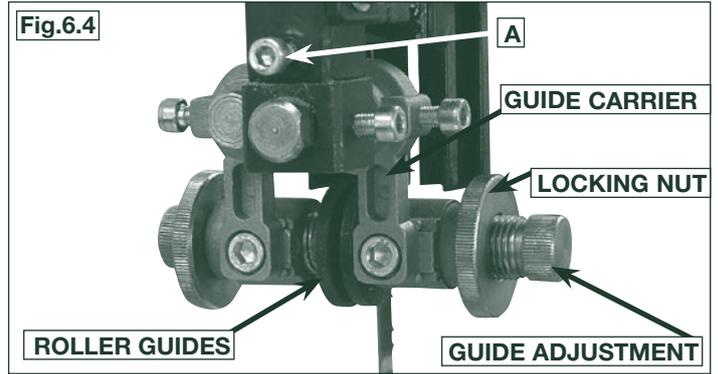
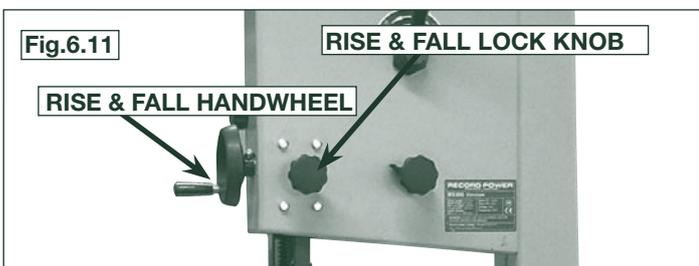


6.4 Adjusting Lower Guides

To adjust the lower blade guides, first slacken off the hex socket screw (See Fig.6.8A), 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.6.8B) on each side of the blade. Finally adjust the thrust bearing to be just clear of the back of the blade (See Fig.6.9). To do this first unlock the Hex socket screw (See Fig.6.8C) 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. Also so 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.6.11. Note: The upper blade guide should provide approximately 5mm clearance above the workpiece. After the desired position has been set tighten the rise and fall lock knob.



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 then the drive belt is tensioned correctly.

7.2 Changing the Blade Speed

The BS300 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 bandwheel has two, integral, multi vee form pulleys and the motor shaft has a twin multi vee form pulley.

The vee belt passes around the bandwheel 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

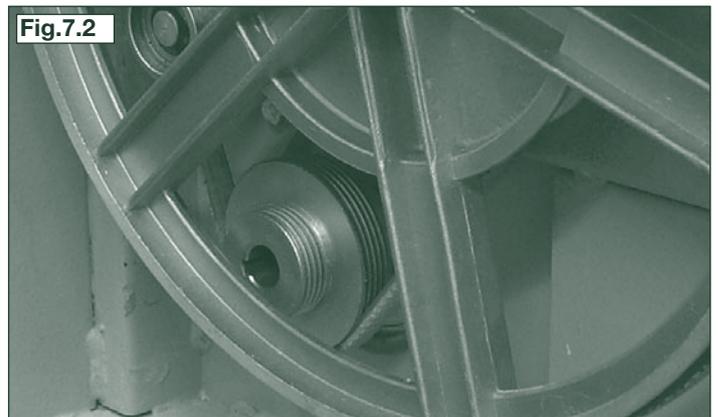
Before changing the speed always make sure the machine has been isolated from the mains supply.

For the high speed the belt should be fitted to the rear pulley on both the motor and bandwheel. (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 bandwheel (See Fig.7.3).



8. Connection Of The Electricity Supply

Once the machine has been correctly assembled and set up the electricity supply can be connected.

The machine can only be connected to a single phase supply. Before connecting the electrical supply ensure that it is the correct voltage, phase and frequency, and that it has sufficient capacity for the machine. The relevant information can be found on the rating plate located on the rear of the machine (**See Fig. 1**).

Machines supplied for use in the UK are fitted with a BS1363 plug fitted with a 13 amp fuse. Ensure that you use the appropriate plug for use in other countries. If the plug fitted to the machine is changed for any reason, the wires in the mains lead are coloured in accordance with the following code:

Green and yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals on your plug, proceed as follows:

The wire coloured green and yellow must be connected to the terminal marked 'E' or by the earth symbol ~ or coloured green; or green and yellow.

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

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

IT IS IMPORTANT THAT THE MACHINE IS EFFECTIVELY EARTHED.

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

RCD (Residual Current Device)

For your additional safety we always recommend the use of an RCD (sometimes called Residual Current Circuit Breaker or Earth Leakage Circuit Breaker).

Switch the machine on by pressing the green button in the switch unit. See section 1. Fig.1.D.

Switch the machine off by pressing either the outer red button or inner red button on the switch unit. See section 1. Fig.1.D.

9. Operation & Bandsawing Practice

9.1 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.
- 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 right blade for the job, depending on the thickness of the wood and the cut to be made. See **TABLE 1**.
- 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 into the blade.**

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 materials.

9.2 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.

9.3 Reversing the blade out of a cut

If at all possible we advise that reversing out of a cut is avoided. But in situations such as cutting scrolls it may not be possible to complete a cut. This requires the blade to be reversed out of the cut. Care is necessary to minimise damage to the work and blade. When removing large pieces of material it is advisable to make the shorter cut last to avoid having to reverse out of the longer cut. When reversing out of a cut it is advisable to leave the blade running, but take extreme care not to pull the blade off the band wheel.

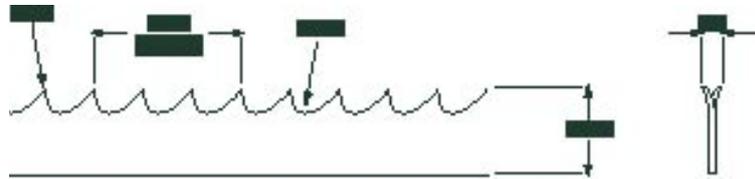
9.4 Blade stall

In circumstances such as cutting deep or wet timber, the work piece may close up behind the blade causing it to stall. In this instance the machine should be switched off and isolated and the material wedged open so the blade can be carefully reversed out.

9.5 Blade selection (TPI)

The selection of the best blade configuration (**See Fig 9.1**) is necessary for optimum cutting performance.

Fig.9.1
TPI = Teeth Per Inch



- 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.

The accompanying blade selection chart (**TABLE 1**) gives guidance on the TPI that should give the best results when cutting a variety of material types and thickness. **TABLE 1** 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 on 0870 770 1777** for assistance.

TABLE 1

Material	Material Thickness			
	<6mm	6-12mm	12-25mm	>25mm
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

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 on 0870 770 1777** and we can advise you accordingly on your specific needs.

9. Operation & Bandsawing Practice - cont.

9.5 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.

9.5 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. **Fig.9.2** provides guidance on the minimum radius to be cut with the most commonly used blade widths.

9.6 Blade selection summary

To see how TPI and width of the blade come together, see **Fig.9.3**.

- 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.

Please note as well as the blades list we can also supply bandsaw blades to almost any specification please call Record Power Customer Services on 0870 770 1777 for further details.

Fig 9.2
To scale

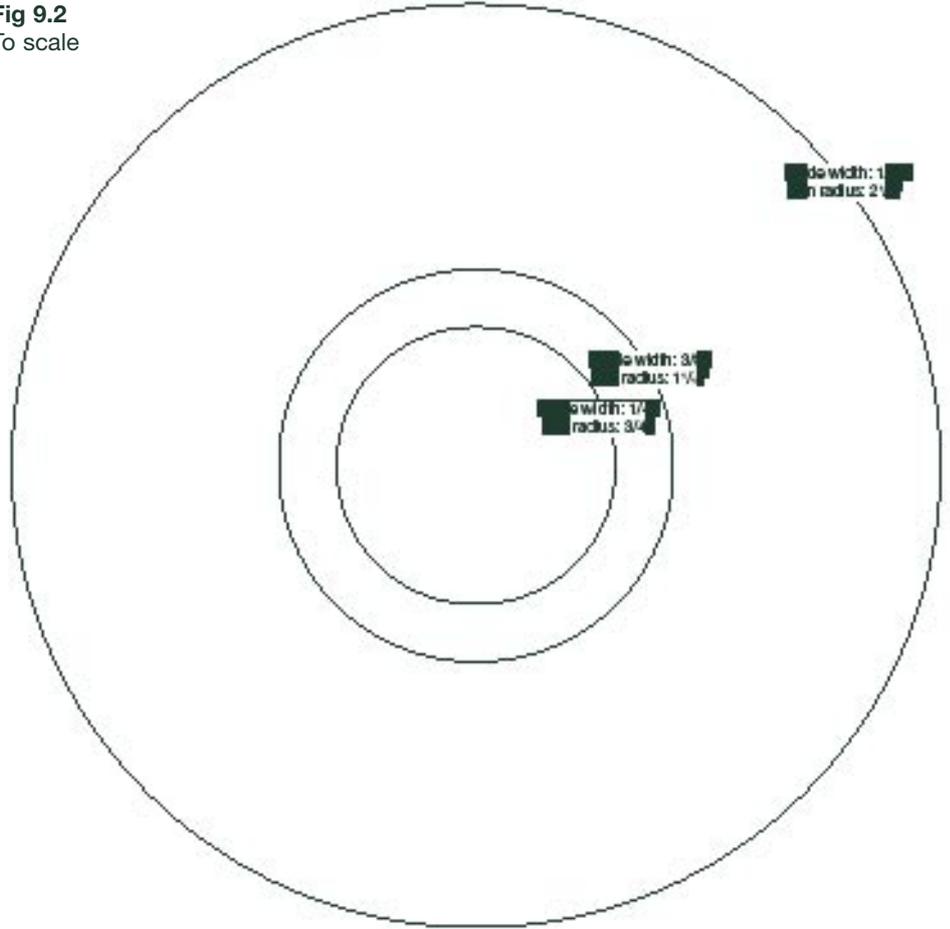


Fig 9.3

	Application TIGHT CONTOUR	Application MEDIUM CONTOUR	Application STRAIGHT CUT / LARGE CONTOUR	Application STRAIGHT CUT
Material Thick / Soft Timber	Blade Spec width 1/4" teeth 4 TPI	Blade Spec width 3/8" - 1/2" teeth 4 TPI	Blade Spec width 1/2" - 3/4" teeth 3 - 4 TPI	Blade Spec width 1" teeth 3 TPI
Material General Timber	Blade Spec width 1/4" teeth 4 - 6 TPI	Blade Spec width 3/8" - 1/2" teeth 4 - 6 TPI	Blade Spec width 1/2" - 3/4" teeth 3 - 6 TPI	Blade Spec width 1" teeth 3 - 6 TPI
Material Thin / Hard Timber	Blade Spec width 1/4" teeth 6 TPI	Blade Spec width 3/8" - 1/2" teeth 6 TPI	Blade Spec width 1/2" - 3/4" teeth 6 TPI	Blade Spec width 1" teeth 6 TPI

9. Operation & Bandsawing Practice - cont.

9.7 Record Power BS300 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 BS300.

To order any of these blades please contact our **Customer Services Department on 0870 770 1777** who will advise you of your nearest retailer or alternatively a mail order supplier.

BB1421406

1/4" x 6 TPI Bandsaw Blade

BB1423806

3/8" x 6 TPI Bandsaw Blade

BB1421206

1/2" x 6 TPI Bandsaw Blade

BB1423403

3/4" x 3 TPI Bandsaw Blade

BB142103

1" x 3 TPI Bandsaw Blade

BB142CUS

Custom width & tooth pitch

Please note as well as the blades listed above we can supply bandsaw blades to almost any specification, please call **0870 770 1777** for further details.

9. Operation & Bandsawing Practice - cont.

9.8 Custom Jigs & Work Support

A bandsaw is one of the most versatile machines in the workshop and with careful lateral thinking many problems encountered on a job can be overcome. By making and using custom jigs repetitive and accurate work can easily be achieved, **Fig 9.4 - Fig 9.10** are some examples of typical jigs and supports used on a bandsaw.

Fig.9.4
Supporting large workpieces with roller stands or take off tables

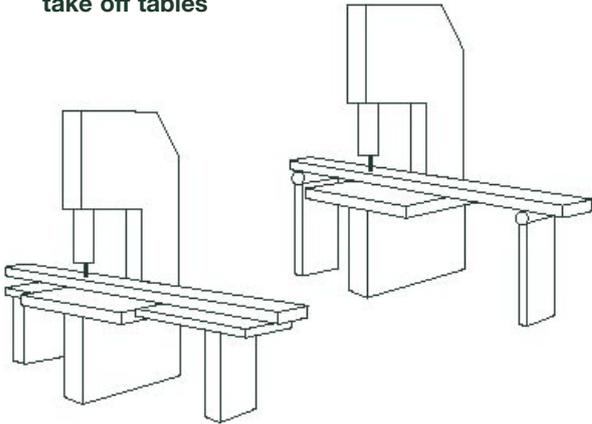


Fig.9.5
Always support round pieces with a wedge

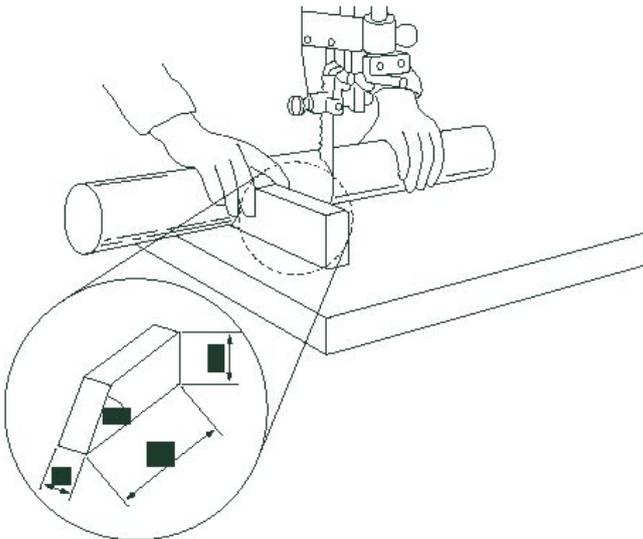


Fig.9.6
Use a side pressure pad for accurate cutting of taller material

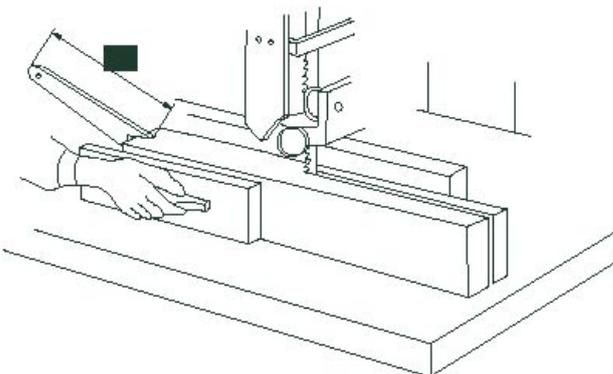


Fig.9.7
Chamfered pieces can be cut squarely using an additional support jig on the opposite side of the work piece to the fence.

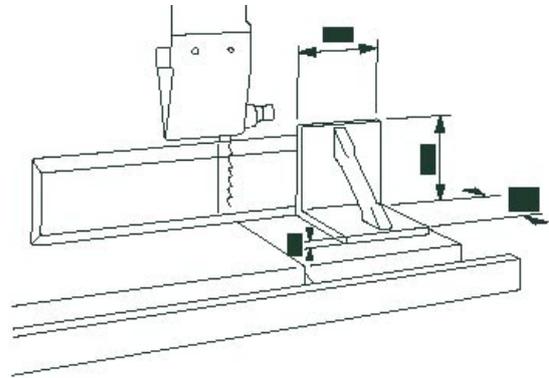


Fig.9.8
Jig for accurate repetitive wedges

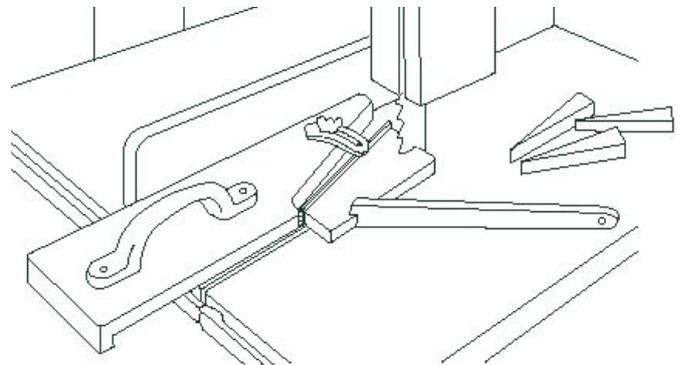


Fig.9.9
By mounting a registration pin on a slide repetitive circles can easily be achieved

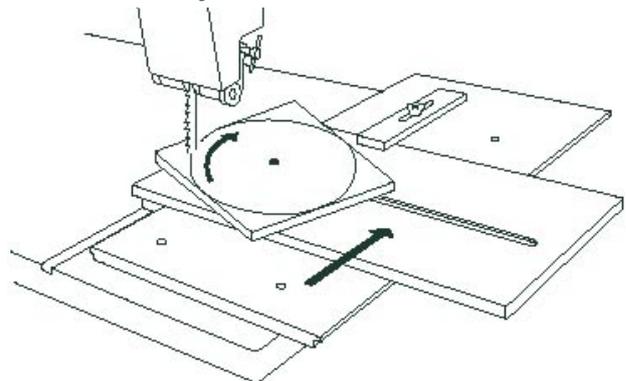
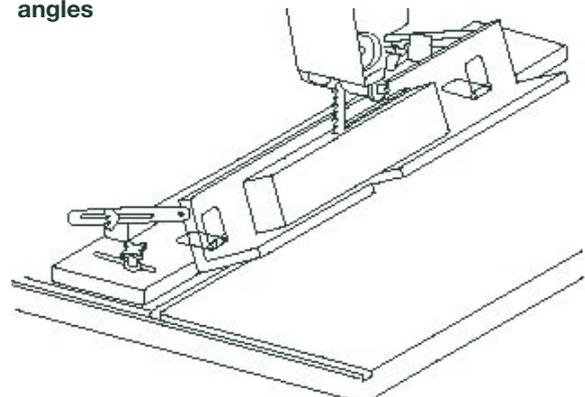


Fig.9.10
Angle cutting jig for accurate repetitive compound angles



10. Dust Extraction

10.1 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. It is paramount that the extraction port is kept free of waste so mounds of sawdust do not build up around the lower band wheel and blade guides. It is advisable before starting the machine to inspect the internals of the machine and ensure there isn't excessive dust build up. By keeping the machine free of large amounts of waste the performance will be enhanced. Even with adequate extraction there will be partial build up of dust inside the machine, this should be cleaned out as part of the regular maintenance schedule.

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 a particle mask is worn as minimum protection.

10.2 Record Power Extractors

Record Power offer a range of high quality dust extractors, starting at the single motor 45 litre RSDE1 right up to the 200 litre twin motor DX5000. We offer both drum and bag type extractors and all models provide high filtration down 0.5 micron providing protection from harmful fine dusts such as MDF.

RSDE1 High Filtration Dust Extractor

Drum type extractor, 45 litre capacity, single 1kw motor, suitable for intermittent use i.e must be switched off for 20 minutes per hour.

RSDE2 High Filtration Dust Extractor

Drum type extractor, 50 litre capacity, single 1kw motor, suitable for intermittent use i.e must be switched off for 20 minutes per hour.

RSDE3 High Filtration Dust Extractor

Bag type extractor, 80 litre capacity, single 1kw motor, suitable for intermittent use i.e must be switched off for 20 minutes per hour.

DX4000 High Filtration Dust Extractor

Drum type extractor, 80 litre capacity, Twin 1kw motor, suitable for heavy usage i.e 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.

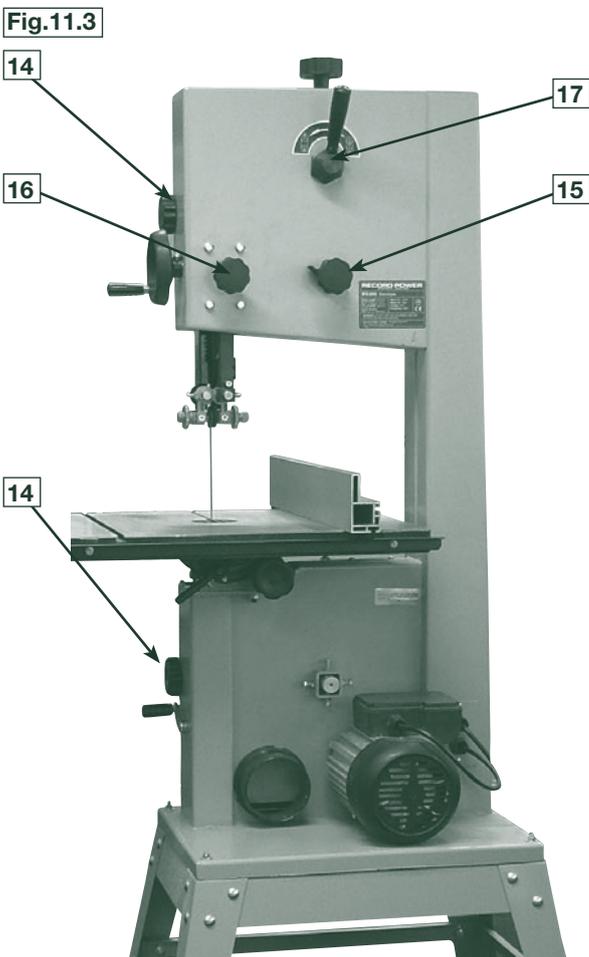
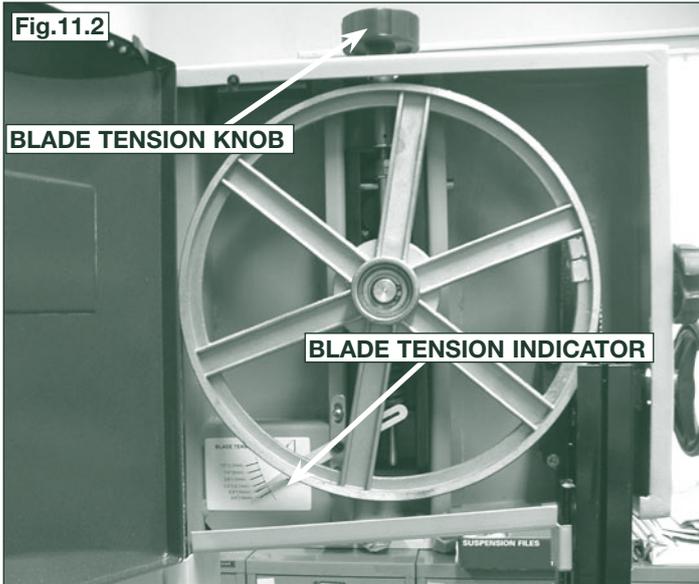
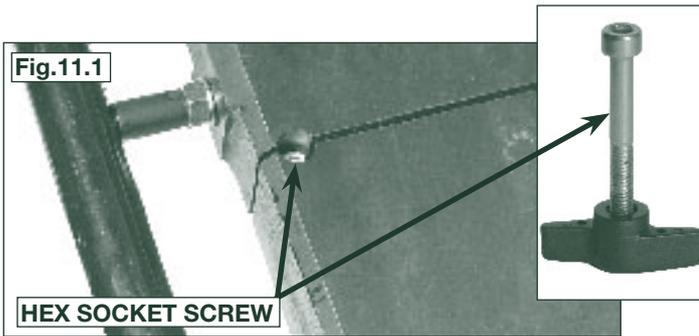
DX5000 High Filtration Dust Extractor

Bag type extractor, 200 litre capacity, Twin 1kw motor, suitable for heavy usage i.e 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.

	RSDE1	RSDE2	RSDE3	DX4000	DX5000
Bandsaws Circular saws Sanders Intermittent usage	✓ Recommended	✓ Recommended	✓ Recommended	✓ Recommended	✓ Recommended
Bandsaws Circular saws Sanders Heavy usage				✓ Recommended	✓ Recommended
Planer Thicknessers Spindle Moulders Universals Intermittent usage			✓ Can be used	✓ Can be used	✓ Recommended
Planer Thicknessers Spindle Moulders Universals Heavy usage				✓ Can be used	✓ Recommended
Dust Extraction System Intermittent usage				✓ Can be used	✓ Recommended

11. Maintenance



CAUTION!

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

11.1 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 bandwheel doors by turning the star handle **Fig 11.3 (14)**.
4. Remove the Hex socket screw, bushing and wing nut fitted to the front of the table **Fig 11.1**.
5. Move the lever clockwise to release the blade tension. **Fig 11.3 (17)**.
6. Remove the bandsaw blade by feeding it through the slot in the table, upper blade guides & guard and slot in the spine of the machine taking care not to cut yourself, wear gloves if necessary.

7a. If the new blade being fitted is a different width to the one being removed, before the new blade is placed around the bandwheels:

- Re-apply the cam handle moving the bandwheel upwards. Now adjust the tension wheel to suit the new blade size.
- Once the tension indicator is showing the correct reading for the new blade release the cam handle and place the new blade on the bandwheels.
- When fitting the new blade ensure 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 bandwheel, re-apply tension using the cam handle.
- Fine adjust the blade tension further if required using the blade tension wheel.

7b. If the new blade width is the same as the blade being removed:

- 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 bandwheel. Simply re-apply tension using the cam handle lever.
- Fine adjust the blade tension further if required using the blade tension wheel.

8. 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 bandwheel as possible. On 1/4", 3/8" and 1/2" blades it may be necessary to run the blade to rear of the bandwheel (**see section 6.2**).
9. If required adjust the tracking using tracking knob **(15)** and lock knob to the rear of the upper bandwheel housing. When the tracking is correct lock the setting (**see section 6.2**).

10. Re-set the blade guides (**see sections 6.3 & 6.4**)

11. Close and lock both the bandwheel 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 6.1**.

11. Maintenance - cont.

CAUTION!

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

11.2 Replacing the drive belt

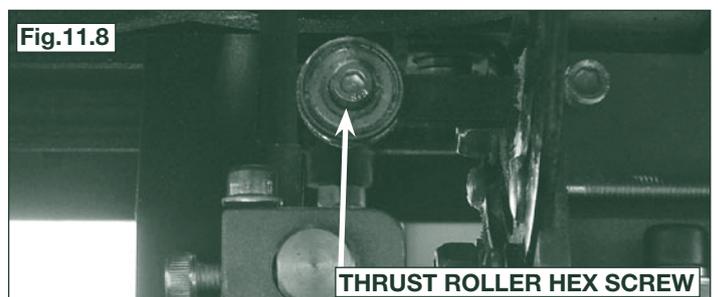
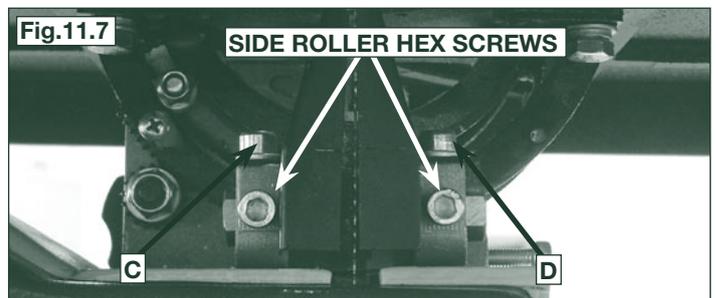
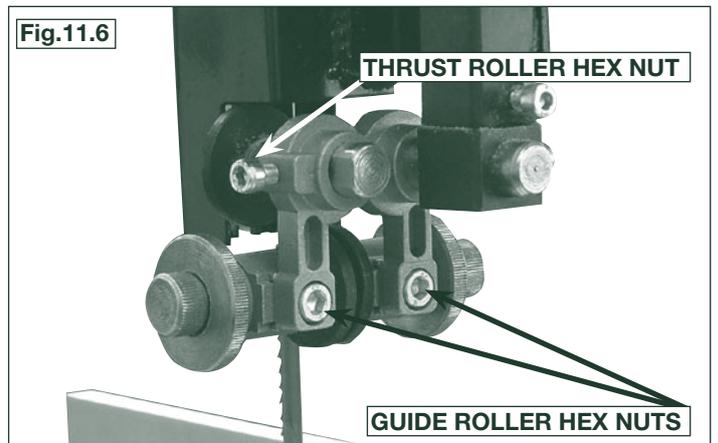
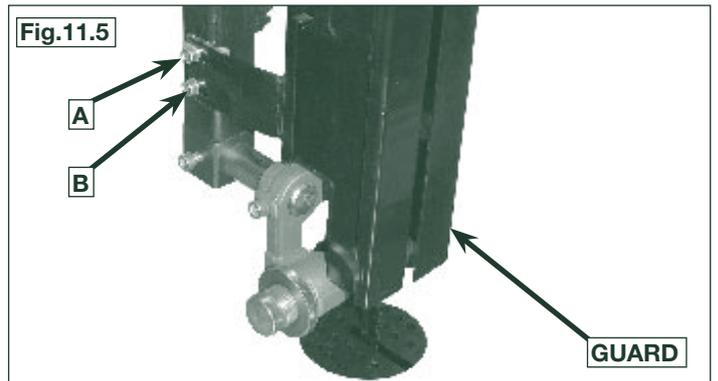
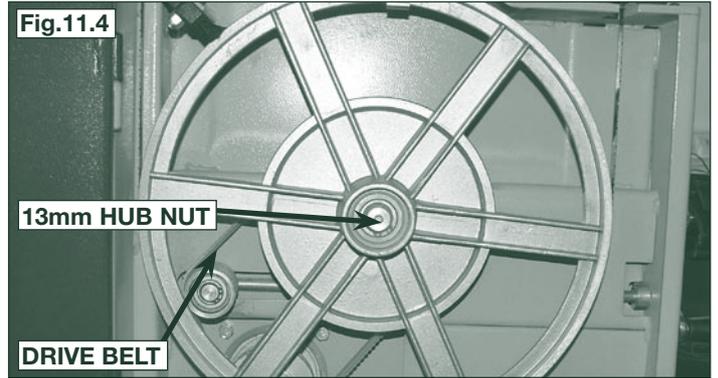
To replace the drive belt first remove the lower bandwheel by undoing the 13mm nut on the hub. Then simply loosen the tension on the belt using the tension handwheel, remove the old belt and fit the new one **Fig.11.4**. Once the drive belt is in place re-fit the lower bandwheel and tighten the nut. Now tension the drive belt using the tension handwheel. For further information on tensioning the drive belt please see **section 7.1**.

11.3 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 need replacing.

When replacing components on the upper guide assembly first ensure that the blade is removed. Undo hex nuts **A & B** then remove the guard. **Fig.11.5**. Once the guard is removed then the various components can be accessed and replaced. Undo the relevant hex nuts for either the guide rollers or rear thrust pad **Fig.11.6**. and fit the new parts. Once the new components are fitted. The blade should be re-fitted **Section 11.1** and the guides adjusted as shown in **Section 6.3**.

When replacing components on the lower guide assembly first ensure that the blade is removed. Undo hex nuts **C & D** and remove the guards. **Fig.11.7**. Once the guard is removed then the various components can be accessed and replaced. It is necessary to only replace the roller bearings on either side **Fig.11.7**. or the thrust roller bearing at the rear **Fig.11.8**. This is done by simply undoing the relevant hex head screw and replacing the part. Once the new components are fitted. The blade should be re-fitted **Section 11.1** and the guides adjusted as shown in **Section 6.3**.



11. Maintenance - cont.

11.4 The table insert

The table insert on a bandsaw is a consumable item **Fig.11.9** 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.

11.5 The bandwheel tyres

The bandwheels on this machine have rubber tyres fitted to the outer rim of the wheel **Fig.11.10** 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 bandwheel. Gently ease the existing tyre from the rim taking care not to damage the bandwheel. 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 bandwheel. The tyres before stretching are much smaller than the bandwheel 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.

11.6 The bandwheel bearings

The bandwheel 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. Now remove the hex head bolt from the hub and remove the bandwheel, 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.11.11.**

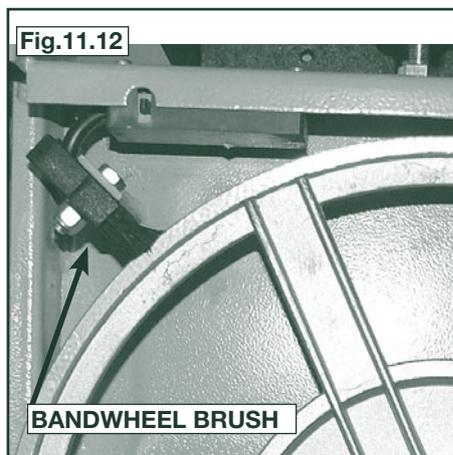
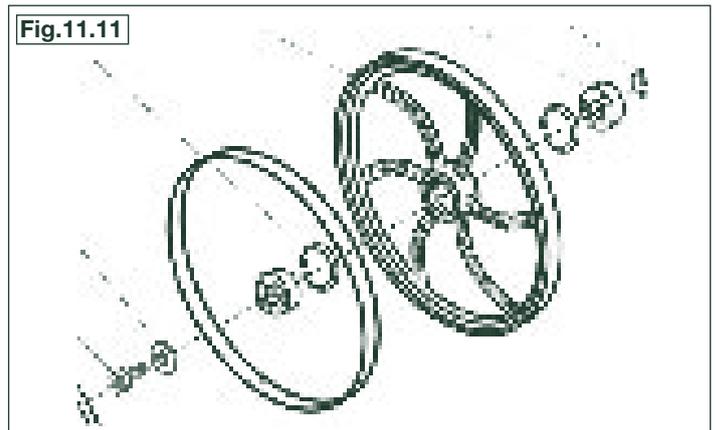
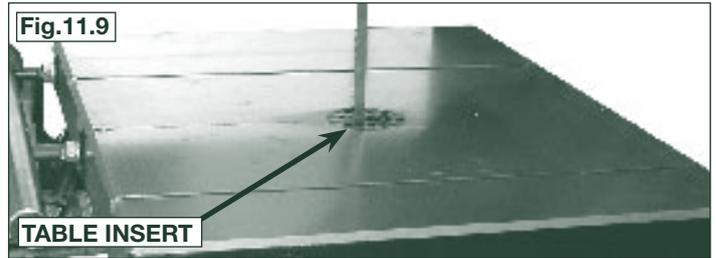
11.7 Cleaning the table

The table is ground from cast iron and if cared for properly will provide smooth accurate performance. Obviously 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 dispersed and 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 and accurately across the table.

11.8 The bandwheel brush

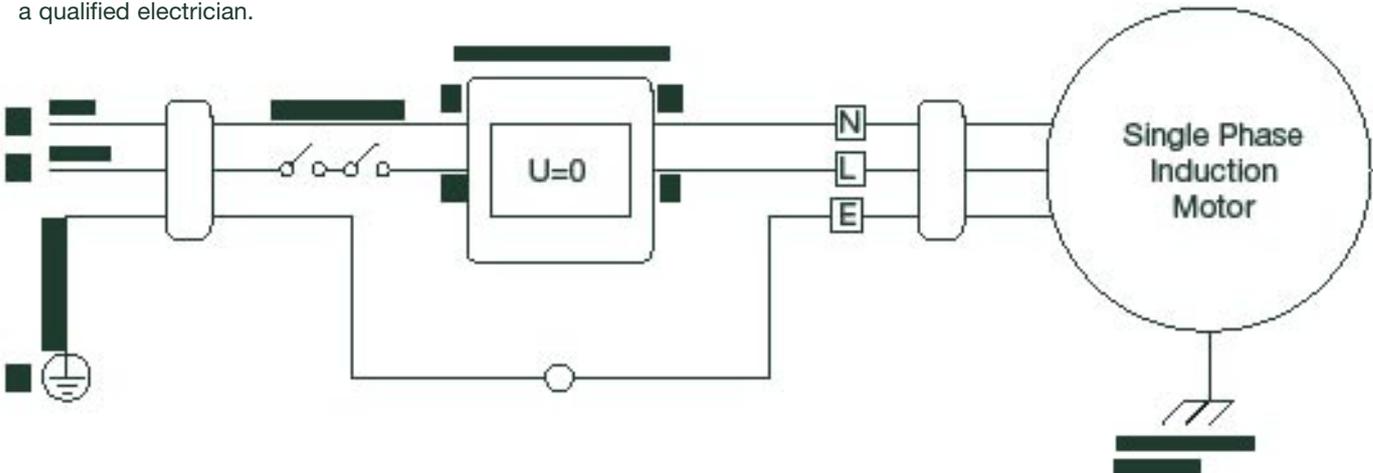
The purpose of this brush is to remove any excess sawdust and resin from the bandwheel and tyre **Fig.11.12**. This brush will need adjusting periodically depending on usage. Before each use inspect the brush and make sure it is making sufficient contact with the bandwheel to remove sawdust from the 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.



11.9 Wiring Information

Replacing Power Supply Cable

Replacement of the power supply cable should only be done by a qualified electrician.



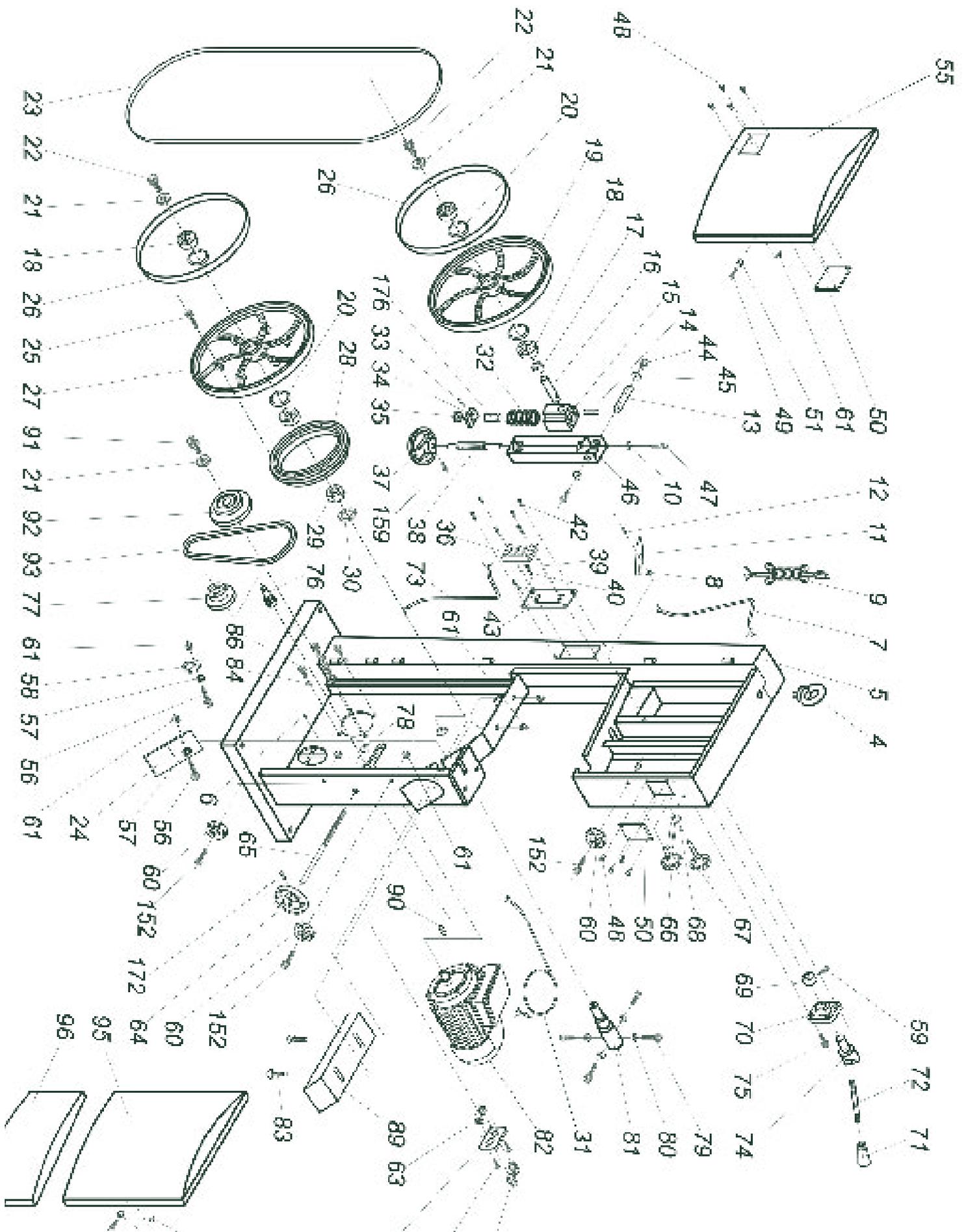
WARNING

To avoid electrocution or fire, any maintenance or repair to electrical system should be done only by qualified electricians using genuine replacement parts.

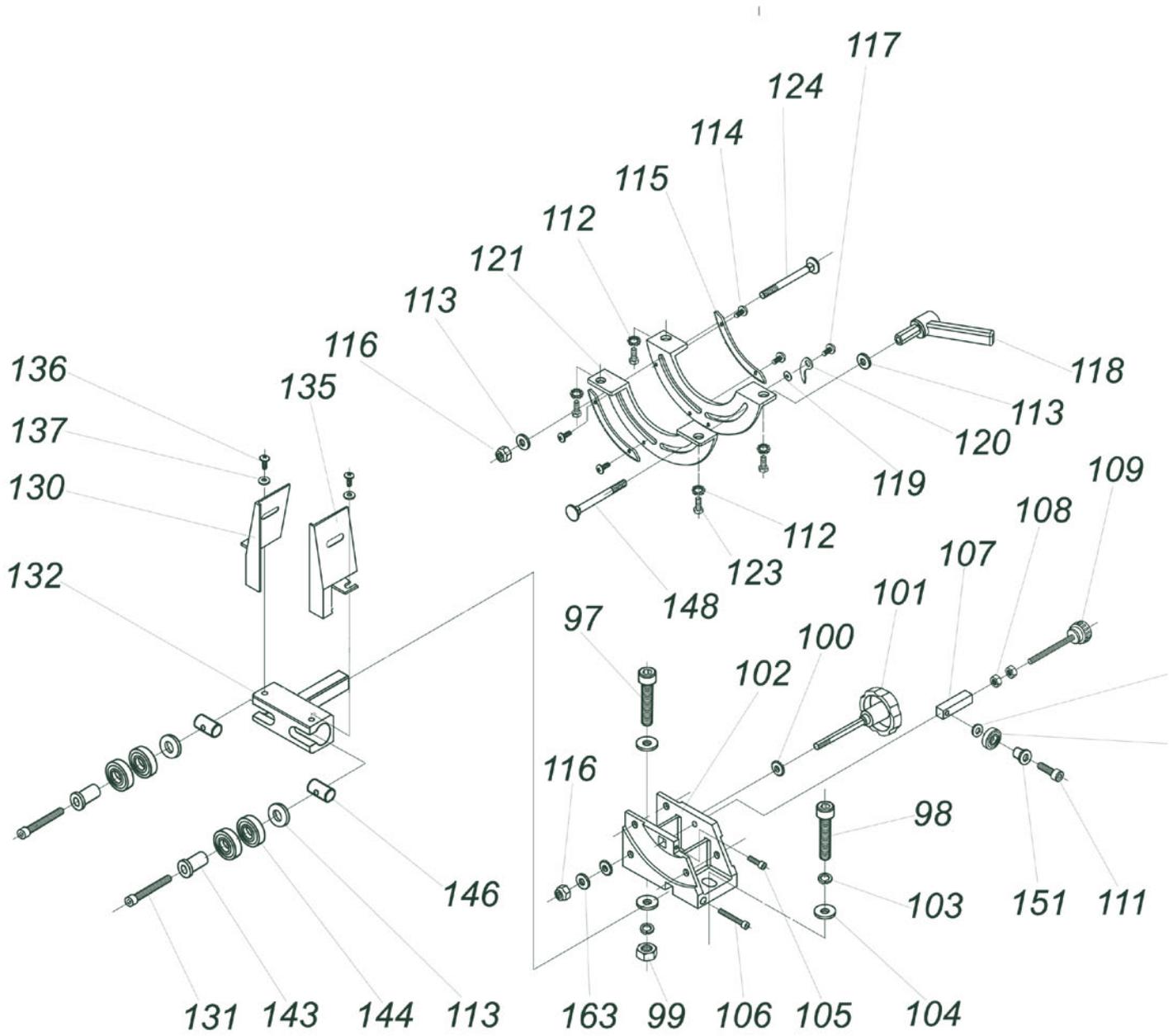
11.10 Consumable spare parts quick find list

Part Description	Part Number
Blades	
1/4" x 6TPI Bandsaw Blade	BB1421406
3/8" x 6TPI Bandsaw Blade	BB1423806
1/2" x 6TPI Bandsaw Blade	BB1421206
3/4" x 3TPI Bandsaw Blade	BB1423403
1" x 3TPI Bandsaw Blade	BB142103
Table Insert	127
Bandwheels	
Drive belt	93
Bandwheel tyre	26
Wheel Bearing	18
Brush	58
Upper Blade Guides	
Hex Bolt M6-1.0x15	149
Upper Guide Support Block	153
Adjust Bar	261
Upper Blade Guide Support	262
Rear Blade Guide Assembly	263
Rear Blade Guide Assembly	264
Hex Socket Screw M6 x 12	265
Hex Socket Screw M8 x 10	266
Lower Blade Guides	
Washer	113
Left Cover	130
Allen Bolt	131
Lower Blade Guide Support	132
Right Cover	135
Hex bolt M5-0.8 x 10	136
Flat washer M5	137
Insert	143
Bearing 6021	144
Tapped Bar	146

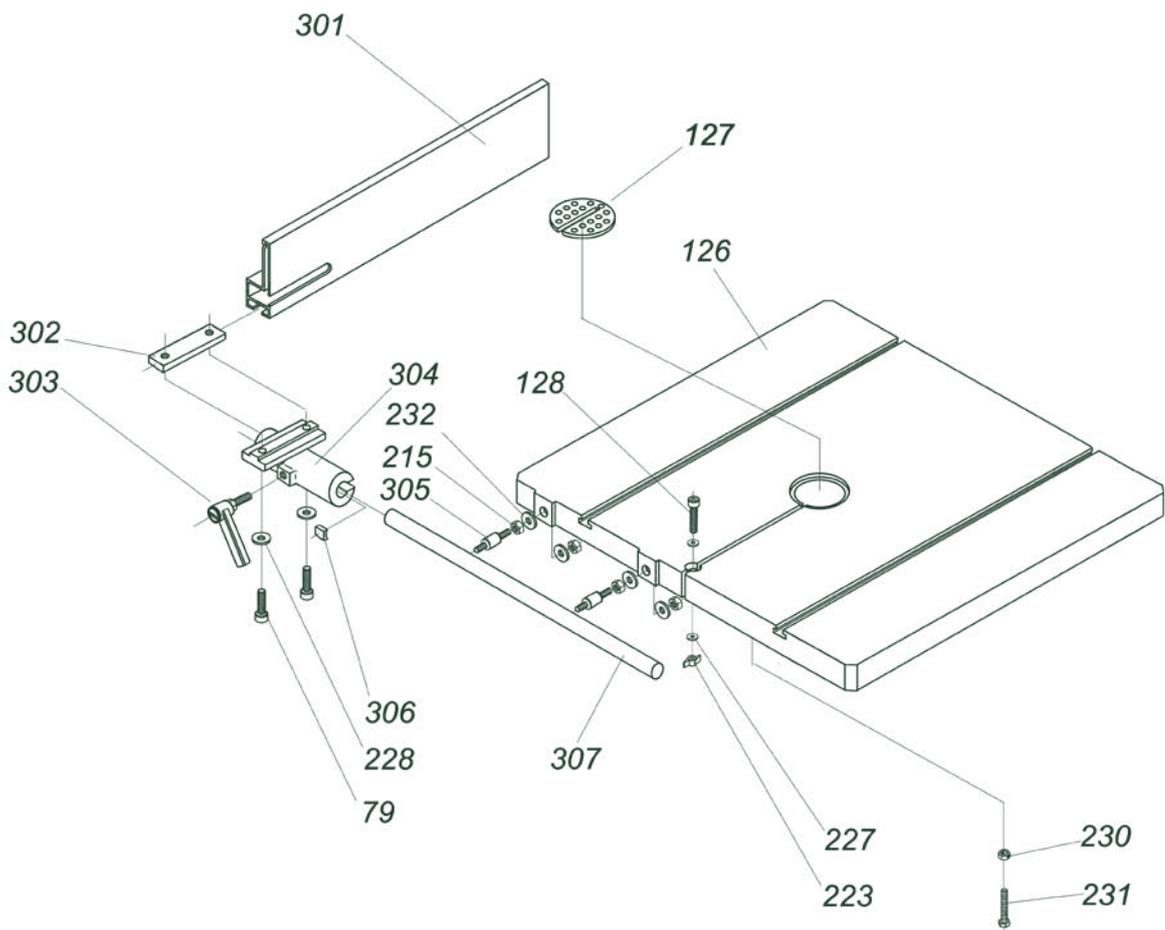
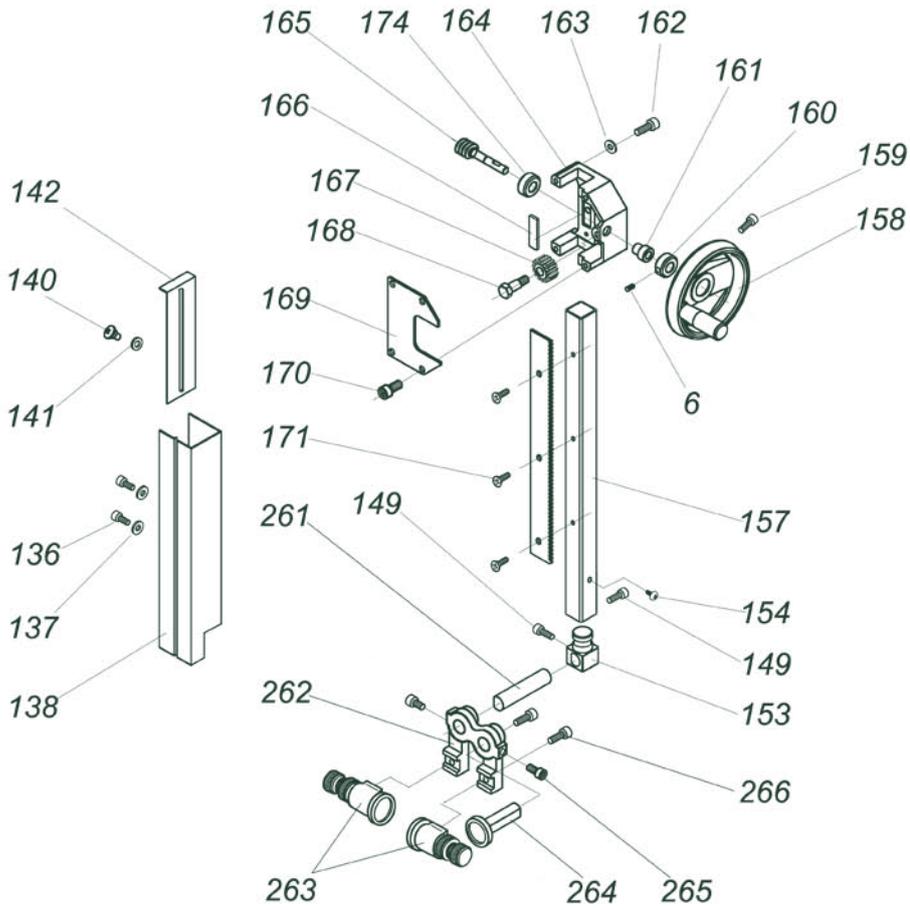
12. Parts Diagrams



12. Parts Diagrams - cont.



12. Parts Diagrams - cont.



13. Parts List

Ref No.	Description	Ref No.	Description
1	Pan Head Bolt M4-0.7x35	48	Rivet
2	Flat Washer M4	49	Hex Bolt M6-1.0x20
3	Safety Switch Seat	50	Clear Window
4	Ring	51	Bushing
5	Frame	52	Safety Switch
6	Set Screw M6-1.0x10	54	Nut M4
7	Switch Cord	55	Upper Wheel Cover
8	Flat Washer M5	56	Hex Bolt M6-1.0x25
9	Power Cord	57	Flat Washer M6
10	Hex Nut M6-1.0	58	Brush
11	Pointer	59	Hex Bolt M6-1.0x25
12	Step Screw	60	Star Handle
13	Upper Shaft	61	Nylon Nut M6-1.0
14	Roll Pin 5x36	62	Strain Relief
15	Upper Wheel Shaft Hinge	63	Strain Relief Nut
16	Upper Wheel Shaft	64	Small Handwheel
17	Bushing	65	Thread Rod
18	Bearing 6204	66	Knob Bolt M10-1.5x20
19	Upper Wheel	67	Knob Bolt M10-1.5x53
20	Int Retaining Ring M47	68	Threaded Handle M10-1.5
21	Flat Washer M8	69	Cam
22	Hex Bolt M8-1.25x30	70	Pillow Block
23	Saw Blade	71	Shaft End
24	Board	72	Rod
25	Hex Bolt M6-1.0x30	73	Safety Switch Cord
26	Tyre	74	Shaft
27	Lower Wheel	75	Cap Screw M8-1.25x20
28	Idle Pulley	76	Shaft-V Belt Pulley
29	Hex Nut M27x2	77	V Belt Pulley
30	Lock Washer 27	78	Circlip Ring
31	Motor Cord	79	Set Screw M8-1.25x20
32	Spring	80	Hex Nut M8-1.25
33	Roll Pin 3x16	81	Lower Wheel Shaft
34	Block	82	Motor
35	Bearing 51201	83	Hex Bolt M6-1.0x25
36	Switch	84	Lock Washer M8
37	Big Handwheel	85	Tongue
38	Adjusting Rod	86	Cap Screw M8-1.25x20
39	Phlp HD SCR w/Flange M5-0.8x10	87	Strain Relief Plate
40	Star Washer M5	88	Phlp HD SCR w/Flange
41	Plug-Safety Switch	89	Sliding Cover
42	Phlp HD SCR w/Flange M5x12	90	Key 5x5x35
43	Switch Plate	91	Hex Bolt M8-1.0x20LH
44	Hex Bolt M8-1.25x16	92	Motor Pulley
45	Flat Washer M8	93	V-Belt
46	Upper Wheel Sliding Bracket	94	Hex Bolt M6-1.0x30
47	Hex Bolt M6-1.0x25	95	Lower Wheel Cover

13. Parts List - cont.

Ref No.	Description	Ref No.	Description
96	Small Wheel Cover	158	Big Crank Handle
97	Bolt M12-1.75x40	159	Hex Bolt M6-1.0x20
98	Hex Bolt M12x35	160	Bushing
99	Hex Nut M12-1.75	161	Bushing
100	Small Gear	162	Cap Screw M8-1.25x20
101	Table Tilting Knob	163	Spring Washer 8
102	Trunnion Support Bracket	164	Guide Bracket
103	Lock Washer 12	165	Worm Cylinder
104	Flat Washer M10	166	Fixed Plate
105	Hex Bolt M6-1.0x20	167	Gear
106	Hex Bolt M6-1.0x50	168	Fixed Bolt
107	Hollow Block	169	Cover
108	Hex Nut M6-1.0	170	Hex Bolt M8-1.25x16
109	Adjustment Bolt M6-1.0	176	Bushing
110	Bearing 6201	210	End Cap
111	Cap Screw M8-1.25x25	213	Lock Mechanism
112	Flat Washer M8	214	Rear Fence Rail
113	Flat Washer M8	215	Hex Nut M8-1.25
114	Phlp HD SCR M5-0.8x6	216	Bushing
115	Gear Plate	221	Scale
116	Nylon Nut M8-1.25	222	Hex Nut M6-1.0
117	Phlp HD SCR M5-0.8x6	223	Wing Nut
118	Lock Handle	224	Cap Screw M6-1.0x16
119	Flat Washer M5	225	Hex Bolt M6-1.0x20
120	Pointer	227	Flat Washer M6
121	Trunnion Plate	230	Nut M8
122	Small Crank Handle	231	Hex Bolt M8-1.25x55
123	Hex Bolt M8-1.25x16	261	Adjust Bar
124	Carriage Bolt M8-1.25x80	262	Upper blade guide support
126	Table	263	Blade guide assembly
127	Table Insert	264	Rear blade guide assembly
128	Hex Socket Screw M6-1.0x50	265	Hex socket screw M6x12
130	Left Cover	266	Hex socket screw M8x10
132	Lower Blade Guide Support	301	Support Tube
135	Right Cover	302	Bracket
136	Hex Bolt M5-0.8x10	303	Lock handle
137	Flat Washer M5	304	Fence bracket
138	Protective Cover	305	Guide rail support
140	Step Screw	306	Lock shoe
141	Flat Washer	307	Guide rail
142	Sliding Plate		
144	Bearing 6201		
148	Carriage Bolt M8-1.25x85		
149	Hex Bolt M6-1.0x15		
152	Hex Bolt M6-1.0x25		
153	Upper Guide Support Block		
154	Phlp HD SCR M5-0.8x10		
156	Rack		
157	Upper Guide Hose		

EU Declaration of Conformity

Cert No: EU / BS300 / 1

RECORD POWER LIMITED,

Unit B, Ireland Industrial Est.

Adelphi Way, Staveley, Chesterfield S43 3LS

declares that the machinery described:-

1. Type: **Bandsaw**
2. Model No: **BS300**
3. Serial No

Conforms with the following directives:-

MACHINERY DIRECTIVE	98/37/EC
(repealing / replacing Directives	89/392/EEC
	91/368/EEC
	93/44/EEC
	93/68/EEC
LOW VOLTAGE DIRECTIVE	73/23/EEC
and its subsequent amendment	93/68/EEC
ELECTROMAGNETIC	89/336EEC
COMPATIBILITY DIRECTIVE	92/31EEC
and its subsequent amendments	93/68EEC

and conforms to the machinery example for which the EC Type-Examination Certificate No. **BM2010044-01/ E9931773E-01** ; **AN 9933942-01/ E9931773E-01** ; **CC9859786/ P9832796Z-02** has been issued by **TUV Rheinland Product Safety GmbH**, at: Am Grauen Stein, D-51105. Cologne, Germany

and complies with the relevant essential health and safety requirements.

Signed..........Dated: **12/01/04**

Andrew Greensted
Managing Director



Woodworking Machines & Accessories

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