

RECORD POWER

ESTABLISHED 1909®

Original Instruction Manual

TS250RS

Sliding Beam Table Saw

IMPORTANT

For your safety read instructions carefully before assembling or using this product. Save this manual for future reference.



Version 2.0
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Woodworking Machines & Accessories

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HEALTH AND SAFETY GUIDELINES

Always follow the instructions provided with the manual. Always wear safety glasses when using woodworking equipment. Always disconnect the power before adjusting any equipment. Failure to observe proper safety procedures and guidelines can result in serious injury.

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



Always wear safety glasses when using woodworking equipment.



Always read the instructions provided before using woodworking equipment.

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1. 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. It is also important to wear ear protectors when operating the table saw.

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.

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 Table saw 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.

- Do not use for cutting any material other than wood.

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 01246 561 520 and will be happy to assist you.

2. Additional Safety Instructions for Table Saws

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

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

SAFE OPERATION

1. The table saw should be bolted to the floor where possible.
2. If you are not thoroughly familiar with the operation of table saws, 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 aligned.
5. Never start the machine with the saw blade pressed against the workpiece.
6. Never apply sideways pressure on the blade.
7. Care must be taken when cutting wood with knots, nails or cracks in it and / or dirt on it.
8. Never leave the machine running unattended.
9. Do not use saw blades which are damaged or deformed.
10. Ensure the selection of the saw blade is suitable for the material to be cut.
11. If the electrics are damaged, parts must only be replaced by a qualified electrician.
12. Never use a long extension cable.

13. Always use a push stick and keep hands clear of the blade.

14. Never remove the crown guard or riving knife. These are there to protect the user.

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

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

17. **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 also be happy to advise you on the correct unit for your needs.

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

Tel: 01246 561 520 Fax: 01246 561 537

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.

3. 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 01246 561 520 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

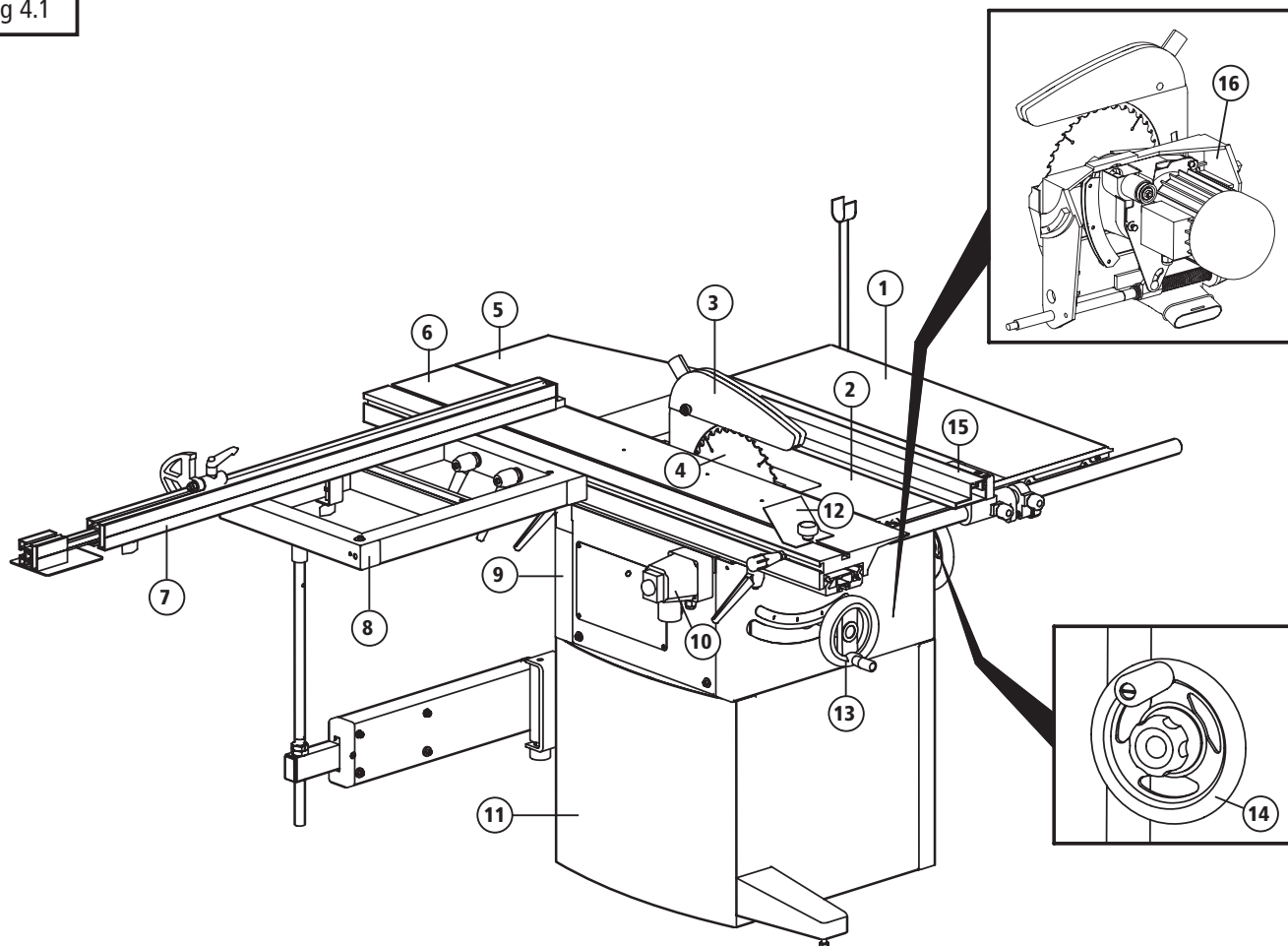
This Guarantee applies to all goods purchased from an authorised retailer of Record Power within the United Kingdom of Great Britain and Northern Ireland. This Guarantee does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. 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

4. Getting to Know your Table Saw

4.1 TS250RS Features

Fig 4.1



- | | |
|------------------------------|---------------------------|
| 1 Right hand table extension | 9 Upper cabinet assembly |
| 2 Main table | 10 Switch |
| 3 Blade guard assembly | 11 Lower cabinet assembly |
| 4 Blade | 12 Plate pusher |
| 5 Rear extension table | 13 Lifting handwheel |
| 6 Sliding table | 14 Tilting handwheel |
| 7 Telescopic fence | 15 Rip fence assembly |
| 8 Squaring frame | 16 Trunnion |

4.2 Machine Specification

Main Blade Diameter:	254mm
Main Blade Speed:	4060rpm
Blade Tilt:	0-45°
Max Depth of Cut at 45°:	54mm
Max Depth of Cut at 90°:	80mm
Max Rip Capacity (Standard Configuration):	610mm
Max Rip Capacity (Extension Configuration):	930mm
Sliding Table Size:	1320mm x 238mm
Sliding Table Stroke:	1250mm
Dust Extraction Outlet:	100 x 30mm
Weight (Standard Configuration):	162kg
Weight (Extension Configuration):	170kg
Table Size (Standard Configuration):	800 x 620mm
Table Size (Extension Configuration):	800 x 950mm

4.3 Noise Levels

The measurements of noise, in the working position and during operation, were carried out under the standard ISO 7960 annex "J":
Instantaneous acoustic pressure:

Sound power level(no load) <90dB(A)

Sound power level(load) <100dB(A)

Sound Pressure level(no load) <80dB(A)

Sound Pressure level(load) <90dB(A)

The figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the workforce include the characteristics of the work room and the other sources of noise etc. i.e. the number of machines and other adjacent processes. Also the permissible exposure level can vary from country to country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

4.4 Dust Collection

Proper dust extraction eliminates the risks of dust inhalation and aids better functioning of the machine.

The table lists the minimum air flow and speed values referenced to each single extraction operation.

Saw	
Upper hood	Lower hood
Air flow 140 cu.m/h	690 cu.m/h
Maximum air speed 20m/s	

Ensure that the extraction system to be used guarantees these values at the connection point. Fig 4.2

Suction mouth diameter (Fig 4.2):

A - Crown (blade) guard ø 30 mm

B - Lower Extraction Port ø 100 mm

Connection to the extraction system should be made with flexible hoses of adequate diameter and secured with hose clips.

The extraction hose must be positioned in such a way so as not to obstruct the operator during machining.

NOTE: Always work with the extraction system connected and switched on. Always start the extraction system at the same time as the circular saw. It is advisable to leave the extraction system running for a few seconds longer than the circular saw in order to fully clear any residual waste remaining in the extraction hose.

4.5 Safety and Protection Devices

This machine strictly complies with prEN1870-1(2006) standard for design and manufacture. In order to fully comply with the CE safety requirements for this machine, the blade guard and any other guards or covers should always be securely in place before starting and whilst using the machine.

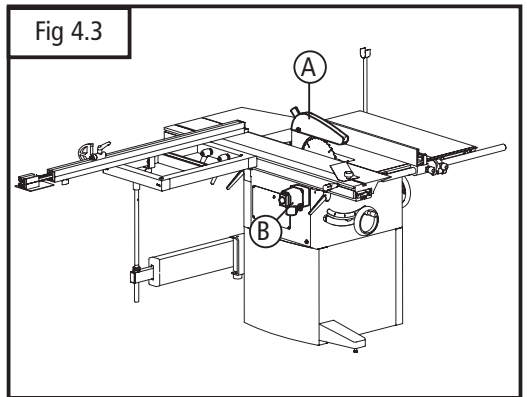
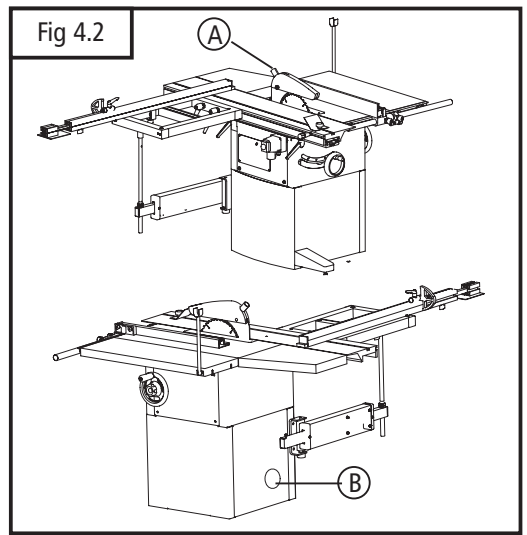
The machine is equipped with the following safety devices Fig 4.3 :

A - Crown (blade) guard

B - Stop button.

When the button is pressed, the power is immediately cut. In case of emergency the red button / yellow flap on the front of the switch unit should be pressed. To re-start the machine, lift the yellow switch flap and press the green start button.

NOTE: This machine is fitted with a No Volt Release (NVR) switch to prevent the machine from automatically re-starting. If the NVR function is activated, the machine should be re-started by pressing the green start button as described above.



5. Assembly



CAUTION

Assembly needs to be carried out by an experienced and trained person.

Contents of Package

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.

If any parts are missing, do not attempt to assemble the machine; plug in the power cord, or turn the switch on until the missing parts are obtained and properly installed.

Carton 1

- 4 Stand rear panel
- 5 Stand arc panel
- 6 Stand front panel
- 7 Stand right panel
- 10 Rip fence mounted bracket
- 11 Rip fence
- 13 Hose support rod
- 14 Upper cabinet assembly
- 15 Blade guard assembly

Carton 2

- 1 Telescopic fence assembly
- 3 Sliding table

Carton 3

- 8 Scale bracket
- 9 Guide rail
- 12 Right extension table
- 16 Rear extension table

Carton 4

- 2 Squaring frame

Fig 5.1

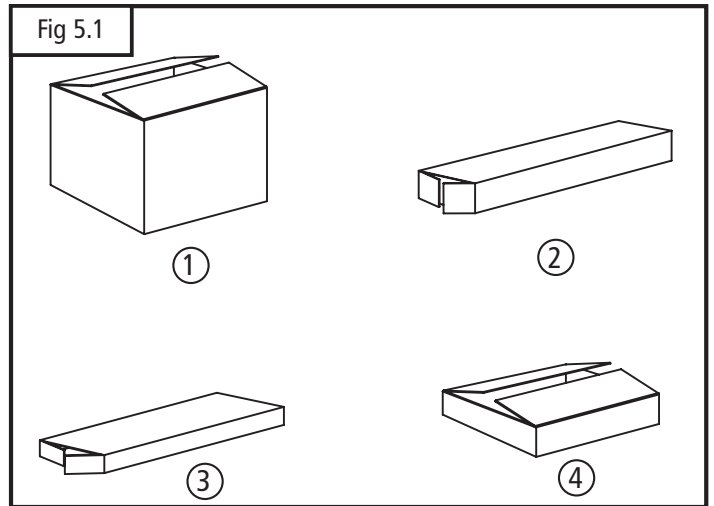
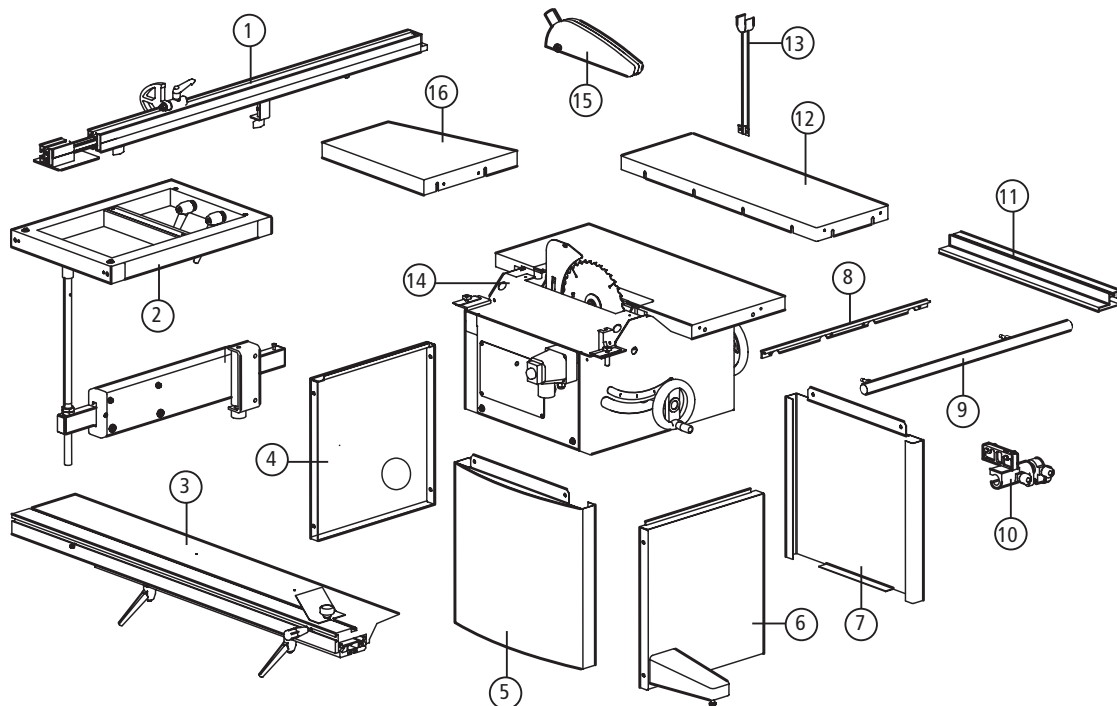


Fig 5.2



Carton 1

- 4 Back Panel
- 5 Curved Pane
- 6 Front Panel
- 7 Right panel
- 10 Rip Fence Seat
- 11 Rip Fence
- 13 Extraction Hose Support
- 14 Main Saw Unit
- 15 Blade Guard

Carton 2

- 1 Cross cut fence (*)
- 3 Squaring table (*)

Carton 3

- 8 Scale
- 9 Front rail
- 12 Extension Table (610mm rip)
- 16 Rear extension Table

Carton 4

- 2 Sliding carriage

*Optional accessory not supplied as standard with the machine.

Space Requirement

It is prohibited to install the machine in explosive environments. The installation area must be selected evaluating the work space required depending on the dimension of the work pieces to be machined, and taking into account that a free space of at least 800 mm must be left around the machine. It is also necessary to check the floor capacity and its surface, so that the machine base is evenly resting on its four supports. A power outlet and a dust extraction system connection should be close to the selected machine location and adequate lighting must be provided (luminous intensity: 500 LUX).

Cabinet Stand Assembly (Fig 5.3)

Tools needed: 10mm & 13mm Spanner.

Assemble the four panels A,B,C & D as shown using M6 x 15mm bolts, M6 washers & M6 nuts.

Ensure that the curved panel (A) and rear panel (B) are correctly Identified and positioned.

Attach the base stabiliser (E) to the front panel of the stand using the M10 x 45mm bolt and M10 washer provided.

Attach the rubber feet (F) to each corner of the stand.

If the optional swinging arm (G) is being fitted, it should be secured to the base using M8 x 45mm Bolts, M8 washers and M8 nuts.

NOTE: Ensure that all fixings are fully tightened. Failure to do so may cause vibration and reduce the stability of the machine.

Main Saw Unit Assembly (Fig 5.4)

Tools needed, 5mm Allen key & cross head screw driver.

NOTE: The main saw unit is very heavy. Seek assistance before attempting to lift the saw on to the cabinet base. Failure to do so may result in injury.

Place the main saw unit on to the previously assembled base and secure using M8 socket head screws and M8 washers.

Locate the two hand wheels (E & F) and secure using M6 x 16mm socket head screws. Ensure that the end of the securing screw locates on the machined flat on the side of each of the operating shafts for blade tilt and rise & fall.

The switch unit is located behind the access panel on the side of the main saw unit to protect it during transit. To release the switch, remove the access panel (B – Fig 7) by removing the four cross head screws. Pass the switch out through the access panel and ensure that the cable is correctly routed through the cable gland fitted to the side panel of the machine. Re-fit the access panel and secure with four cross head screws. The switch unit (C-Fig 7) should now be fixed to the body of the main saw unit using four M4 x 60mm screws.

Blade Guard and Extraction Port

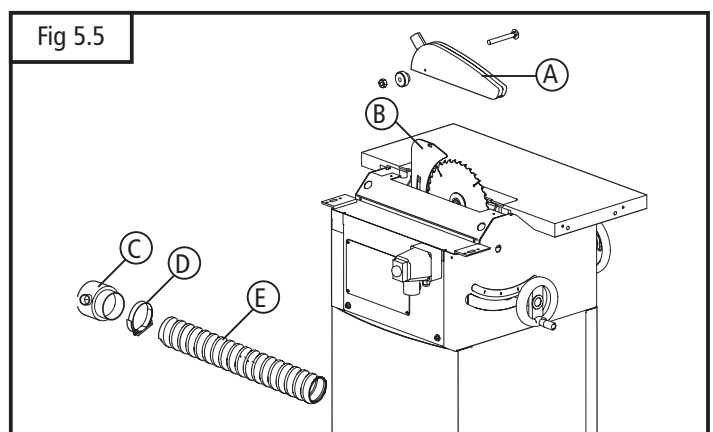
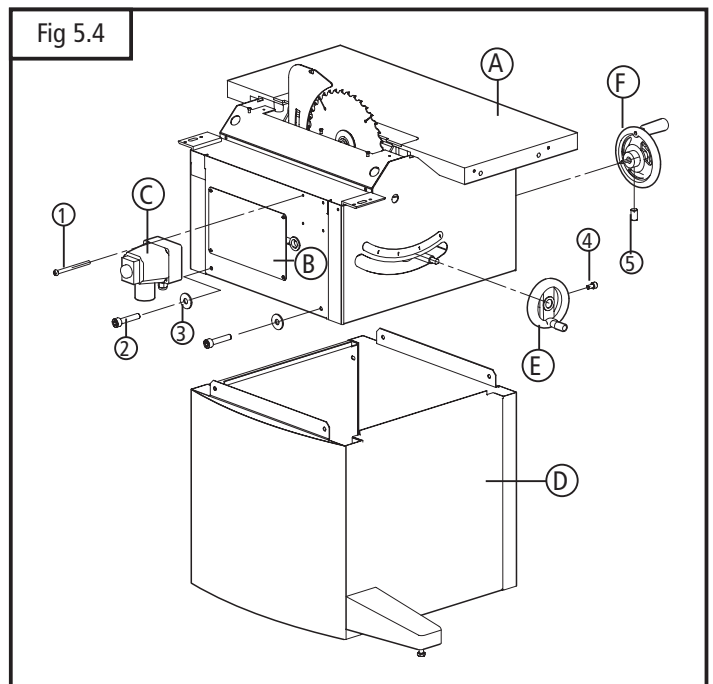
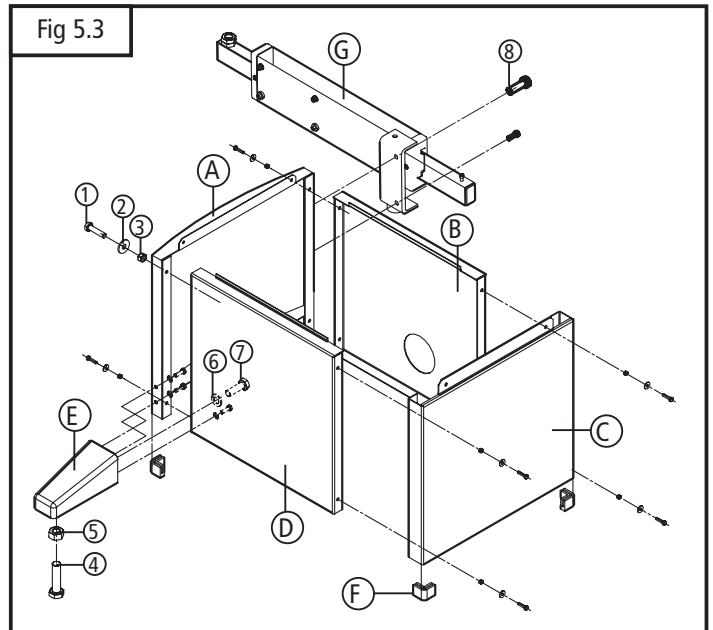
Tools needed: flat screw driver.

Locate the blade guard (A – Fig 5.5) and secure it to the top of the riving knife (B – Fig 5.5) using the M6 x 40mm carriage bolt and M6 knurled knob.

NOTE: Ensure that the blade guard is correctly secured by pushing it down on the riving knife and backwards towards the rear of the machine so that it is fully engaged in the slot, before tightening the knurled knob.

Locate the extraction hose (E – Fig 5.5) and pass it out through the aperture in the rear of the cabinet base. Attach the T-coupling (C – Fig 5.5) using the hose clip (D – Fig 5.5).

NOTE: Always ensure that the hose clip is fully tight. Failure to do so may affect the performance and efficiency of the dust extraction system.



Sliding Table And Stop Block

Tool needed: 13mm Spanner.

Place the two locating plates (7 – Fig 5.6) on to the body of the saw taking care to ensure that the holes in the centre of the plate are in alignment with the corresponding holes in the body of the saw.

Slide the two sliding blocks (6 – Fig 5.6) in to the t-slot on the underside of the sliding table (B – Fig 5.6) so that they are approximately the same distance apart as the locating plates.

Place the sliding table on to the body of the machine and secure using two M8 x 20mm ratchet locking handles and M8 washer (8 - Fig 5.6). Pass the handles up through the holes in the body of the saw, through the locating plates and in to the sliding blocks previously positioned in the underside of the sliding table.

Attach the operating handle (C- Fig 5.6) to the side of the sliding table using the M8 square nut and M8 nut (4 & 5 – Fig 5.6).

Attach the stop block (A – Fig 5.6) and secure to the t-slot on the surface of the sliding table using the M8 square nut, M8 washer and M8 locking knob (1,2,&3 – Fig 5.6).

Squaring Table And Swinging Arm (Optional Accessory)

Tools needed: 6mm allen key and 13mm spanner.

The swinging arm unit (E – Fig 5.7) should be attached to the cabinet base secured to the base using M8 x 45mm Bolts, M8 washers and M8 nuts.

Insert the locking plate (2 – Fig 5.7) in to the t-slot in the side of the sliding table. Locate the squaring frame (B – Fig 5.7) on to the threaded studs of the locking plate and secure with two M8 ratchet locking handles and M8 washers (1 – Fig 5.7).

Thread the top of the support arm (C – Fig 5.7) in to the bush on the underside of the squaring table and fully tighten. Thread one of the M20 nuts on to the lower end of the support and adjust it so that it is approximately level with the top surface of the swinging arm. Pass the lower end of the support arm through the hole in the end of the swinging arm and fit the second M20 nut. Fine adjustment of the M20 nuts should be made to ensure that the squaring table is level with the sliding carriage and main table.

Cross Cut Fence

To set the cross cut fence at 90° to the blade:

The locating stud (C – Fig 5.8) should be inserted in to one of the holes in either of the front corners of the squaring table.

To set the fence at 90° to the blade, the rear of the fence should be offered against the adjustable cam stop (D – Fig 5.8).

To adjust the cam stop, release the grub screw located at the outer end of the squaring table. The cam assembly can now be rotated in either direction until the correct setting is achieved.

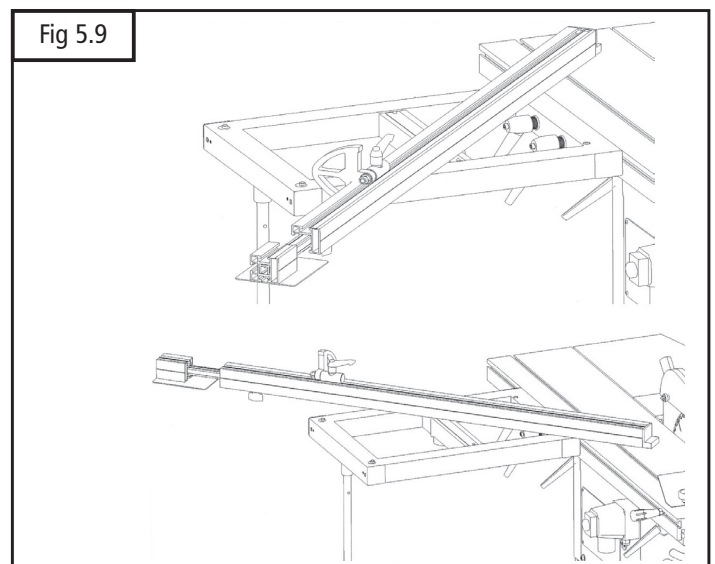
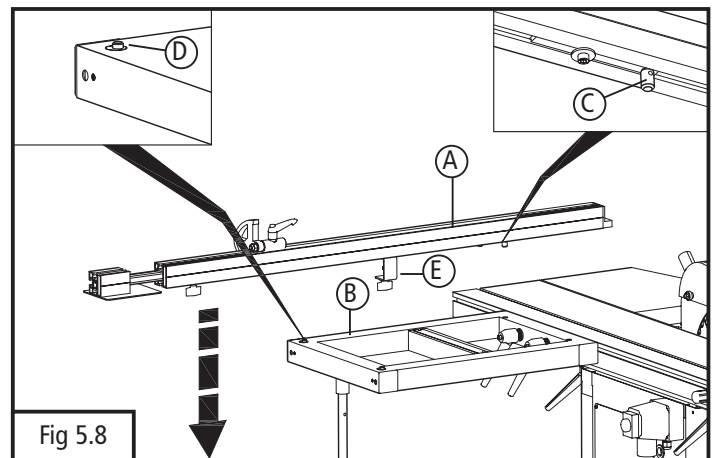
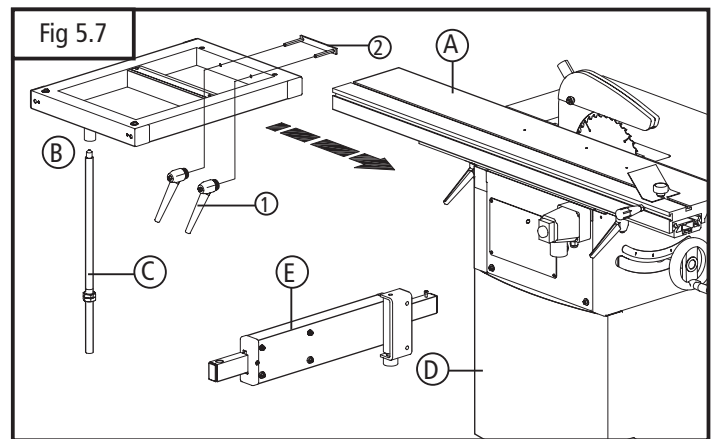
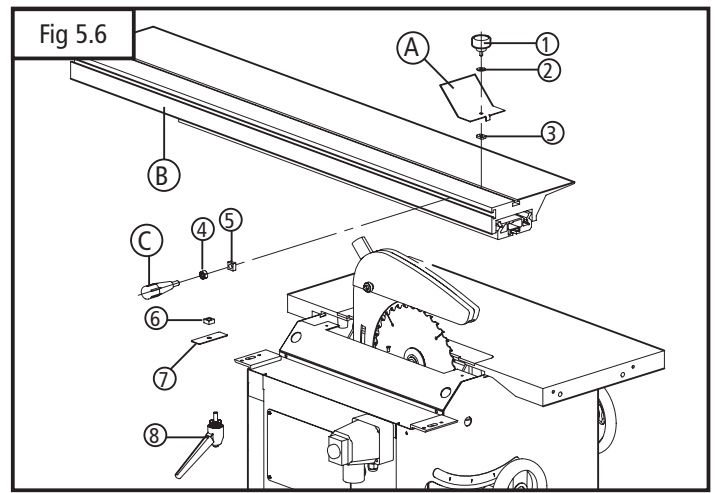
Once correctly adjusted, the locking grub screw should be fully tightened.

Secure the fence by tightening the C-clamp (E – Fig 5.8) so that it engages on the underside of the squaring frame.

To Set The Cross Cut Fence At 45° to The Blade

The assembly method is the same as described above, but the cam stop is not used. The cam stop can be lowered clear of the fence by pushing it from above so that it is flush with the table surface. To re-engage the cam stop, push from the underside of the squaring table to raise it above the table surface.

Use the C-clamp to lock the fence at the desired angle. (Fig. 5.9).



Extension Tables

Tools needed - 13mm spanner, 3mm Allen key.

Attach the rear table extension (A – Fig 5.10) to the main table and secure using two M8 x 20mm bolts and M8 washers.

Ensure that the rear table extension is level with the main table. Fine adjustment can be made by using the two M6 grub screws located in the end of the table extension. Once the table is correctly adjusted, the bolts can be fully tightened.

The side extension table (B – Fig 5.11) is attached in the same way, using four M8 x 20mm bolts. Fine adjustment is also carried out as described above prior to fully tightening the securing bolts.

Extraction Hose Support and Scale Seat

Tools needed - 5mm Allen Key and cross head screw driver.

Attach the extraction hose support (A – Fig 5.11) using the retaining clamp (1 – Fig 5.11) and two M6 x 16mm cap head screws (2 – Fig 5.11).

Attach the scale seat (C – Fig 5.11) to the front of the table by using four M6 x 16mm cross head screws (3 – Fig 5.11). Do not fully tighten at this stage as further fine adjustment may be required.

Rip Fence Rail

Tools needed - 13mm spanner

Thread the support studs (3 – Fig 5.12) in to the tapped holes in the rip fence rail so that they are fully seated.

Thread an M8 nut on to each of the support studs and add an M8 washer. Offer the assembled rip fence rail to the front of the main saw table and pass the four threaded ends of the support studs through the corresponding holes in the front of the table. Secure to the table by using a further M8 washer and M8 nut on each of the support studs. Do not fully tighten at this stage as further fine adjustment may be required.

Rip Fence Carrier

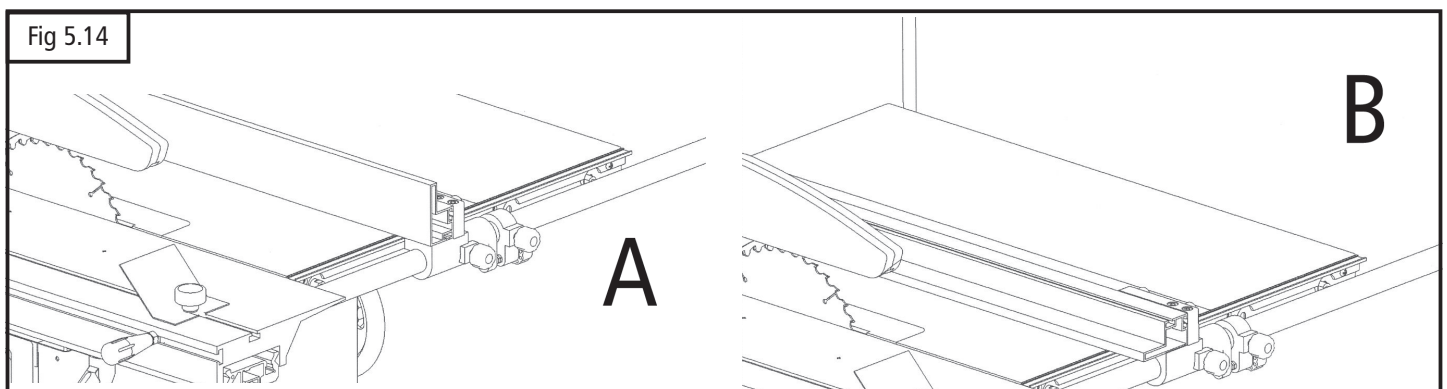
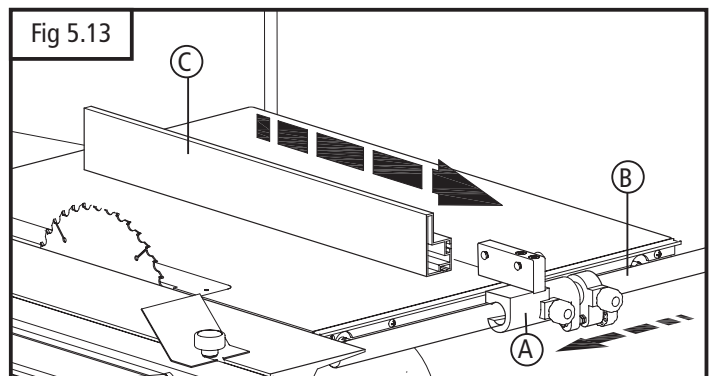
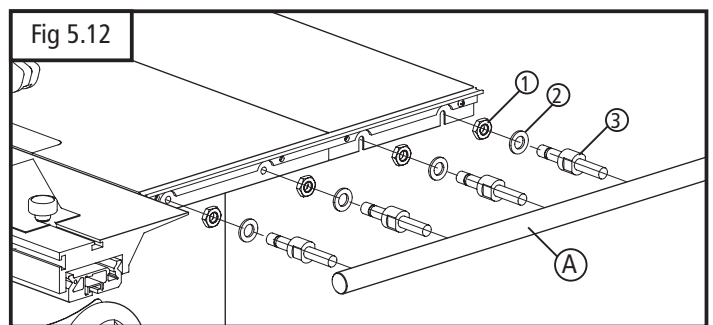
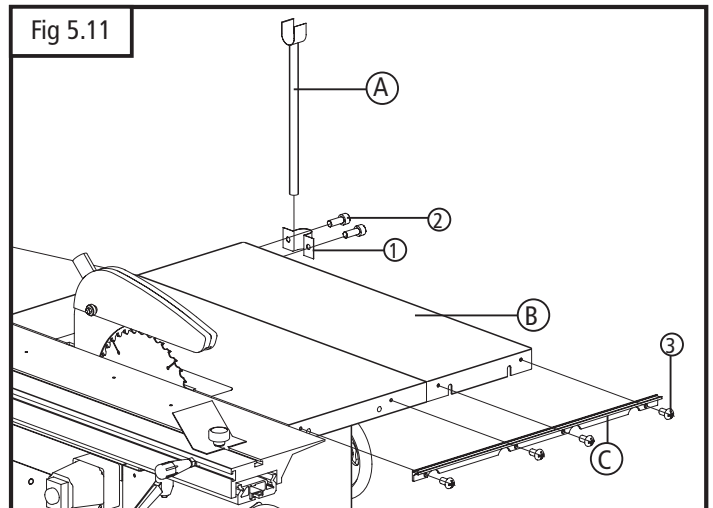
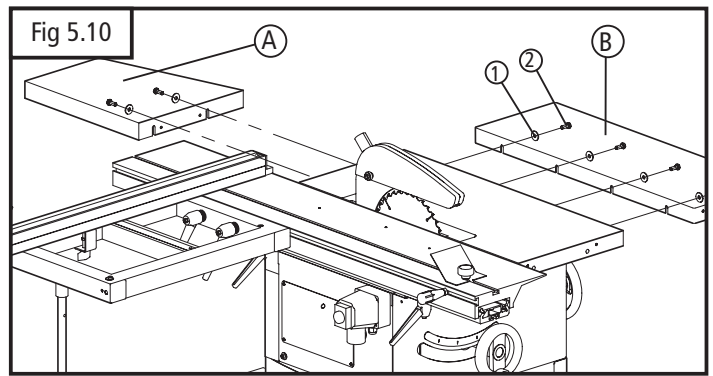
Locate the fence carrier on to the fence rail (Fig 5.13) and secure Using the rip fence locking knob.

Rip Fence

The rip fence can be fitted in two different methods but the basic principles of assembly are the same.

The standard configuration is as shown (A – Fig 5.14). The optional configuration is as shown (B – Fig 5.14). Method B is used when working with small off-cuts or when the blade is set to 45°.

To attach the fence extrusion to the rip fence carrier, simply locate two M6 x 35mm carriage bolts in to one of the t-slots in the fence extrusion and pass the carriage bolts through the corresponding holes in the rip fence carrier. Secure with two M6 knurled knobs and M6 washers.



6. Adjustment

Sliding Table Adjustment

Tools needed: Straight edge, feeler gauge and 3mm Allen Key.

Place the straight (A – Fig 6.1) edge across the main table (B – Fig 6.1) and sliding carriage (C – Fig 6.1). Use the feeler gauge to check that the sliding table is level when compared to the main table.

If adjustment is required, slacken the two locking handles (D – Fig 6.1) and use the 3mm allen key to adjust the jacking grub screws located in the machine body at each side of the locking handles. Turn the grub screws clock wise to raise the carriage and counter-clockwise to lower the carriage.

When the sliding table is level, tighten the locking handles to fully secure.

NOTE: Failure to correctly adjust the sliding table will affect the smooth Operation of the machine and may result in a poor quality of finish to the work piece.

Fence Adjustment

Tools needed: Square and 13mm spanner.

Align the fence assembly in or out until parallel with the side of the blade by turning the adjustment nuts (B – Fig 6.2) and the fence studs accordingly. If the fixing nuts have been tightened, these will need slackening off before this adjustment can be made.

Check that the fence is at 90° to the table using a suitable square (A – Fig 6.2).

If no adjustment is needed fully tighten the fence rail 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.

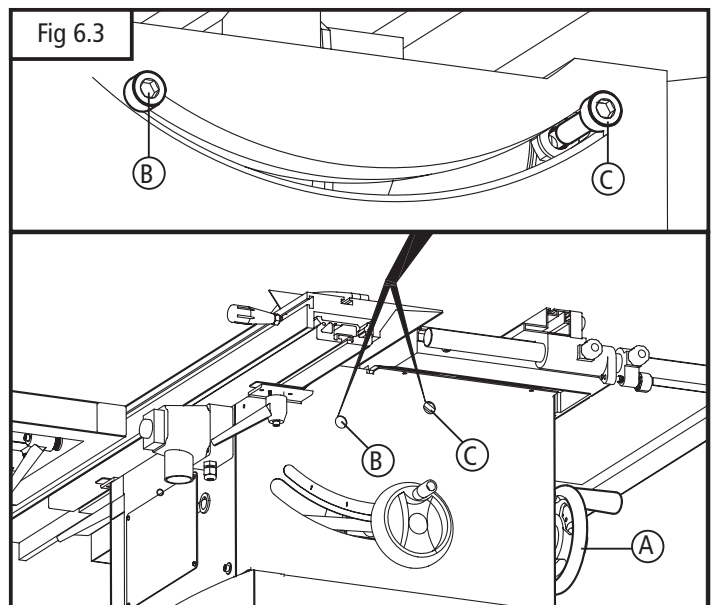
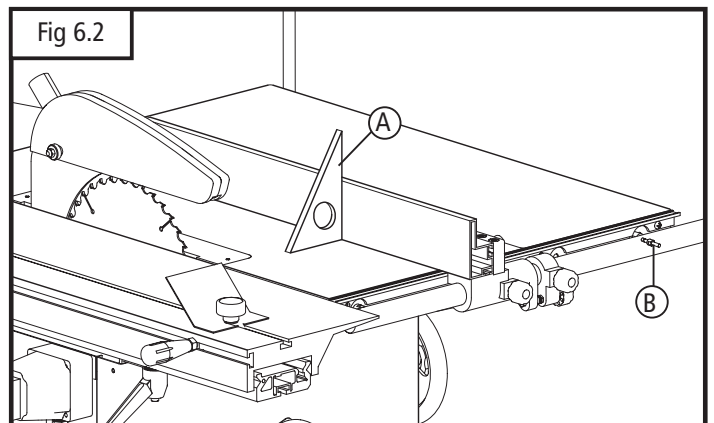
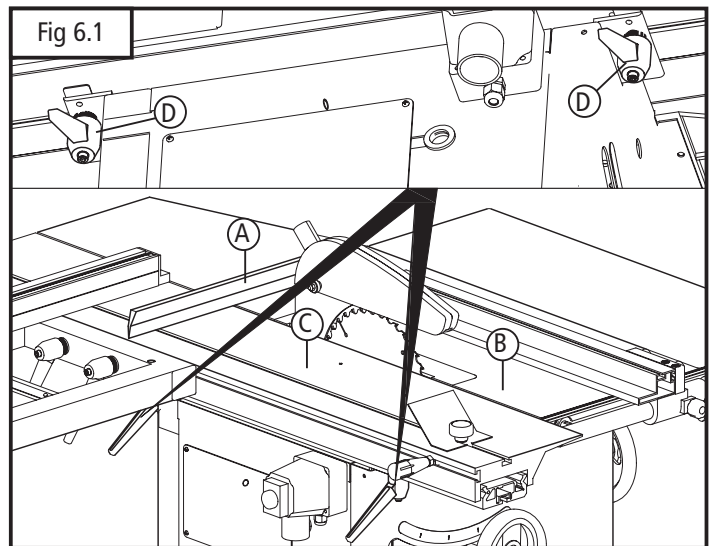
Once set at 90° fully tighten all fixings.

Blade Adjustment

Tools need - Tri-Square, 6mm Allen key

With the blade set at 90° to the table, check the angle by placing a square at the left hand side of the blade. If adjustment is required, loosen screw C (Fig 6.3) and turn the hand wheel until the blade is in line with the square. Tighten Screw C to set the angle.

With the blade at 45° , carry out the same test. If the blade requires any adjustment, loosen screw B (Fig 6.3), adjust the hand wheel until the blade is in line with the tri-square, and then tighten screw B to set the angle.



7. Connection of the Electricity Supply & Wiring Diagram

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

Connect the two pin plug socket on the end of the flex to the switch **Fig.7.1.**

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.

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.

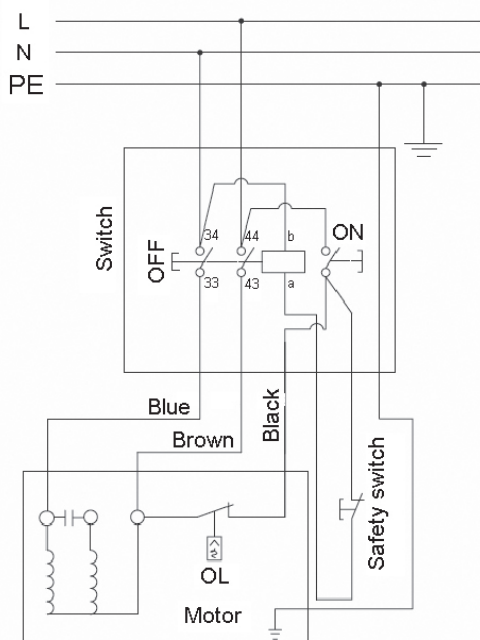
IT IS IMPORTANT THAT THE MACHINE IS EFFECTIVELY EARTHED.

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).

Fig 7.1 Wiring Diagram



8. Operation

Switch

The control switch is located on the side of the main saw body (A - Fig 8.1). To start the machine, lift the yellow flap and press the green start Button.

To stop the machine, or in case of emergency, press the red Stop button located on the front of the yellow flap.

If the yellow switch is pressed it will lock in position. To release, slide the red button in an upwards direction.

Machine Usage

Working Position

The machine has been designed for use by only one person. Please take note of the correct working position for different cutting operations (Fig 8.2)

A – Parallel cut using the rip fence

B – Cross cutting or panel cutting using the sliding table.

Operating Hand Wheels

The machine is equipped with two operating handles for different functions (Fig 8.3)

A – located at the front of the machine – this hand wheel operates the rise and fall function of the blade.

B – located at the right hand side of the machine – this hand wheel operates the tilting (bevel) function of the blade.

Cutting

The choice of the method to use to make a cut with the circular saw depends on the dimensions of the wood to be machined and the type of machining to be carried out.

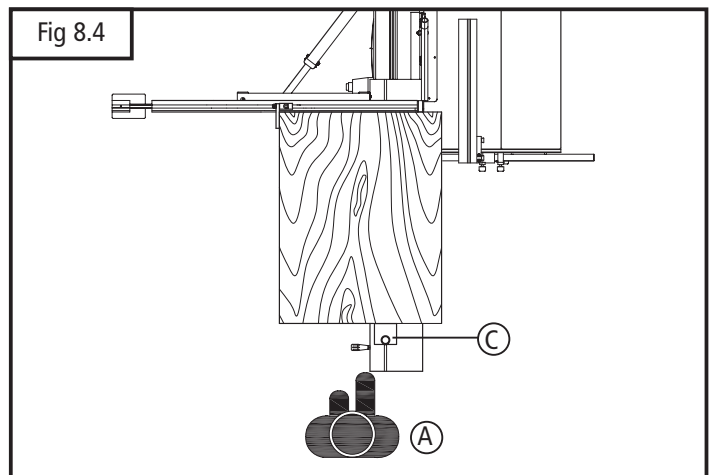
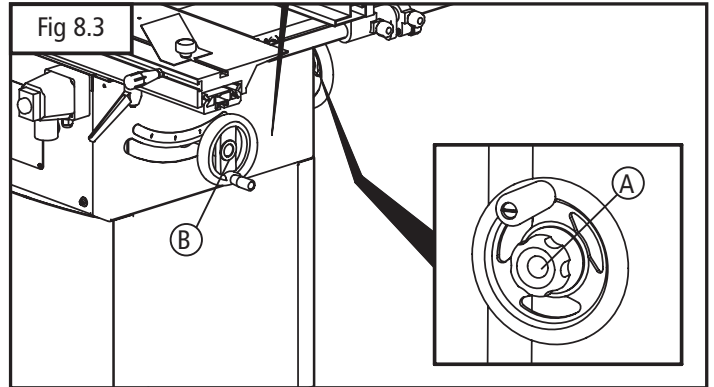
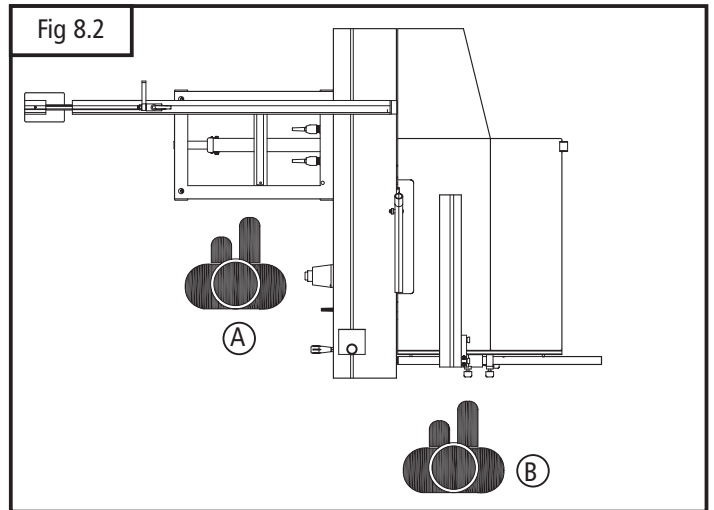
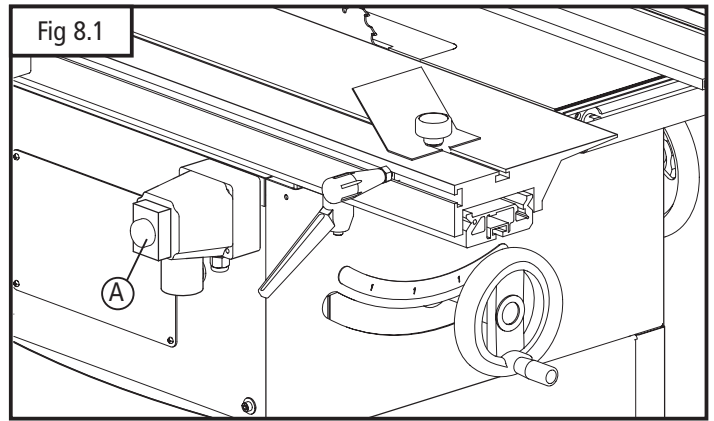
Cutting With the Sliding Table

When machining large panels, position the telescopic fence and the squaring frame for as shown in Fig 8.4; in this position the maximum cutting length is obtained.

- 1) The first cut - slide the sliding beam completely to the right. Place the panel against the cross cut fence and adjust the Stop block proceed with cutting, moving the sliding beam forward against the saw blade.
- 2) Second Cut - Turn the panel by 90°, place the side previously trimmed against the guide and repeat the operations as in point 1.
- 3) Third Cut - Position the stop according to the cutting width to be executed. Turn the panel 90°.

Place the trimmed side against the cross cut fence and against the stop. Proceed with cutting.

- 4) Fourth Cut
Repeat the operations as step 3.



Working With The Parallel Rip Fence

Lock the sliding table, keep work piece close up to the rip fence and push work piece forward to cut.

Always use a plastic push stick (Fig 8.5) when feeding the work piece in to the blade or when clearing off cuts from the work area.

Correct Use for Circular Saw

First make sure that the machine does not vibrate. Do not try to take off the material when the cut has already started; proceed with a continuous and uniform speed. The feed rate of the work piece towards the blade (especially where there are knots) should not be too fast. Feeding speed should be in accordance with work piece thickness. Do not let work pieces stop between the saw fence and the blade.

Avoid contact of the teeth of the blade against metallic objects. When necessary sharpen the saw blade.

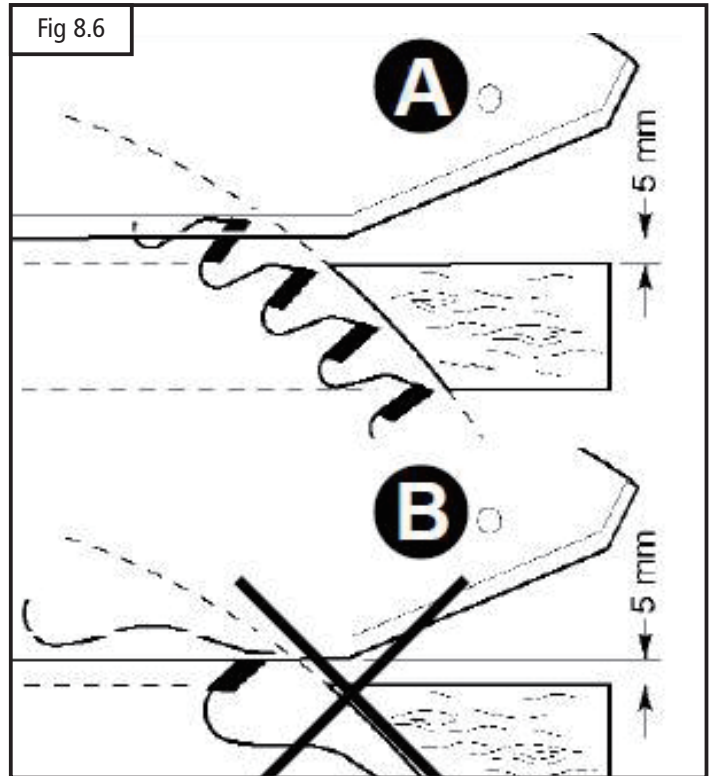
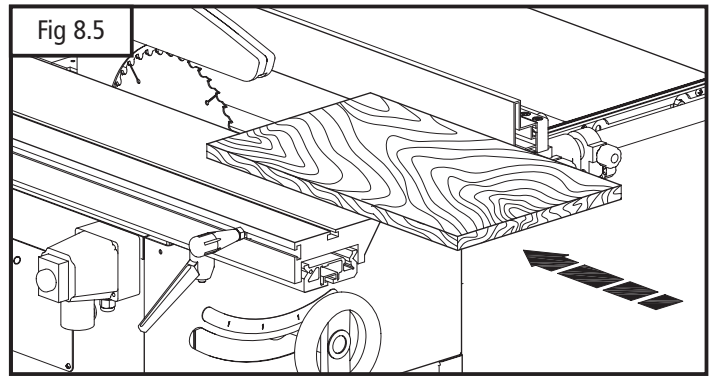
Regularly clean the steel body and the teeth of the blade with proper white spirit in order to remove any build up of resin.

Soak the saw blade in the cleaning spirit, then clean it with Brush to remove any stubborn deposits: do not use metallic brushes.

The correct blade should be used for the type and thickness of material being cut. As a general rule, 2 to 3 teeth should cut at the same time (A – Fig 8.6). Where only 1 tooth cuts the work piece at a time (B – Fig 8.6) the quality of finish will be adversely affected.

The height of the blade should be adjusted so that the top of the blade protrudes through the top of the work piece and the lower edge of the guard is no more than 5mm above the upper surface of the work piece.

Warning: Before touching the blade or any moving parts, ensure that the machine is switch off and isolated from the power supply.



9. Maintenance

Should it become necessary to replace any parts of the machine, only genuine Record Power spare parts should be used. Failure to do so may result in the guarantee being void and inferior parts may adversely affect the performance of the machine.

The replaced parts must be disposed of in compliance with the laws in force in the country of use. The replacement of certain parts requires specific training and technical skills; for this reason, any work should be carried out by qualified personnel to prevent damage to the machine and risks to the safety of the user.

Replacing the Blade

Raise the saw blade to its highest point using the operating hand wheel. Slide the sliding table as far to the right as possible to reveal the blade. Remove the blade guard (A – Fig 9.1) and throat plate (B - Fig 9.1).

Insert the tommy bar (C - Fig 9.1) into the hole in the table and Ensure that it locates fully in to the recess in the saw blade shaft.

It may be necessary to rotate the saw blade slowly by hand until you feel the tommy bar engage in the recess.

Whilst holding the tommy bar, use a 16mm spanner to remove the locking bolt from the blade.

NOTE: the locking bolt has a left hand thread – turn the bolt counter-clockwise to loosen and clockwise to tighten!

Remove the locking bolt and outer blade flange and remove the blade.

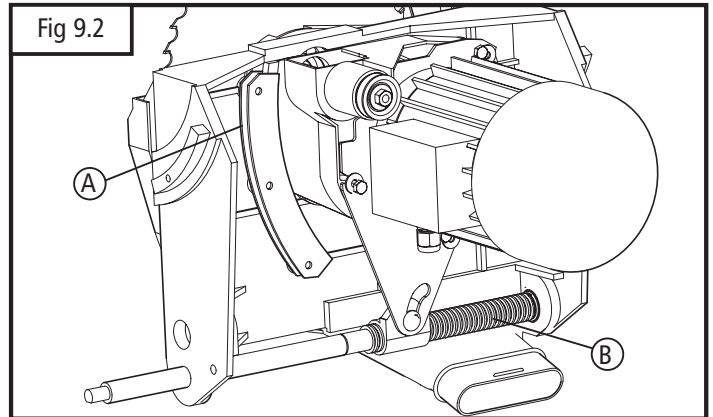
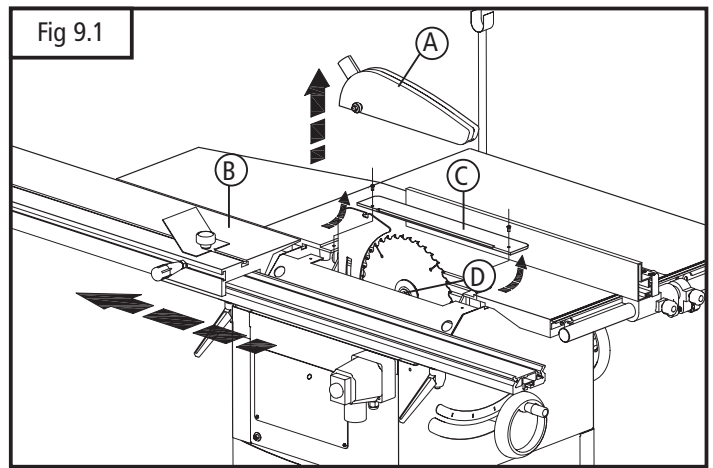
To re-fit the blade, simply reverse the procedure above.

Machine Lubrication

Most of the working components of the machine (bearings etc) are sealed for life and require no maintenance.

Periodically, the trunnion of the machine (Fig 9.2) should be cleaned and lubricated. Remove any excess waste material with a brush and apply a light coating of grease to maintain a smooth rise & fall action (A & B, Fig 9.2).

The table surfaces should be cleaned regularly with white spirit to remove any deposits of resin. They should then be treated with a coat of silicone lubricant (such as Record Power CWA195) to protect the surfaces of the tables and reduce friction of the work piece when feeding.



10. Trouble Shooting



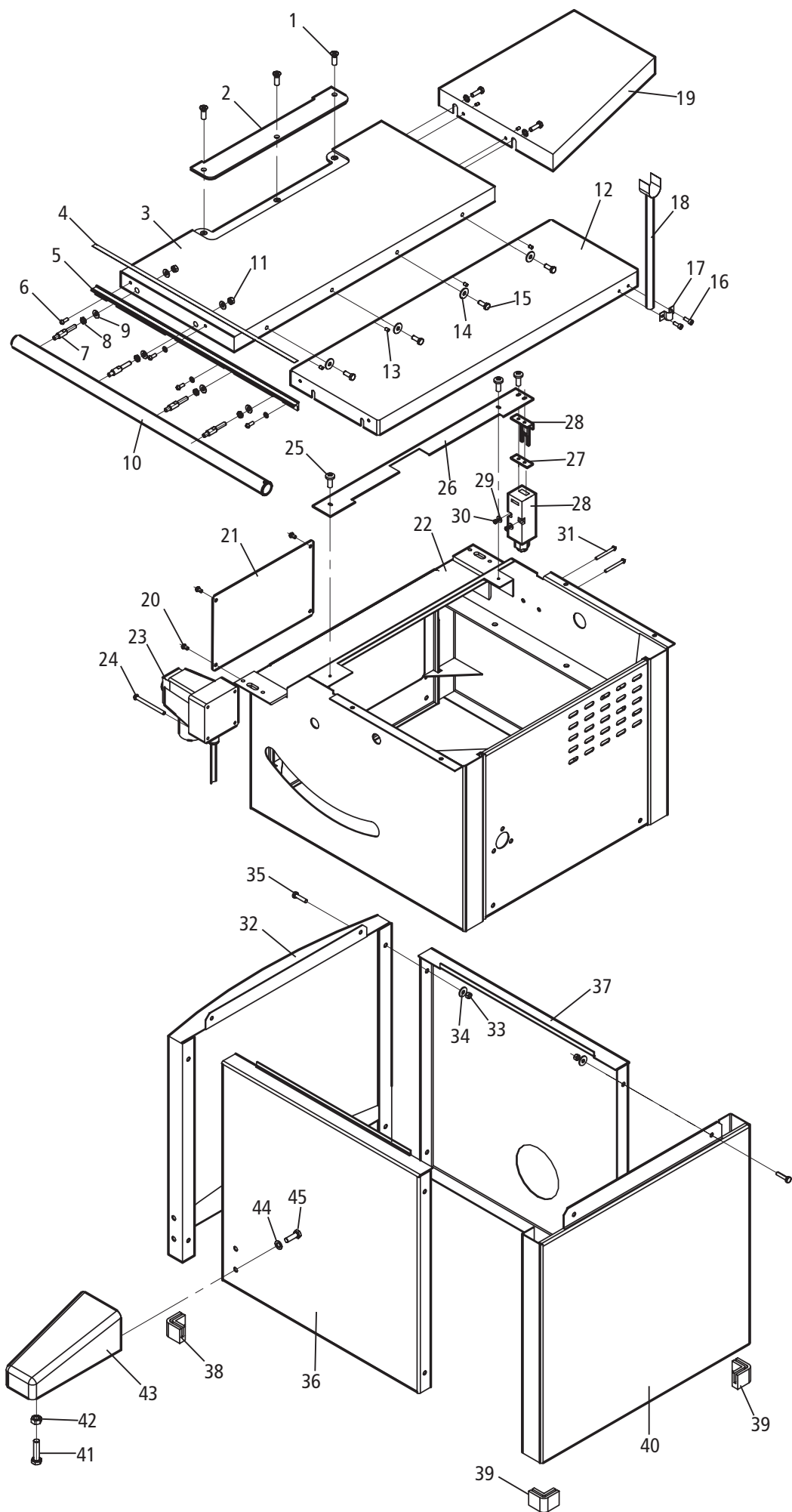
WARNING

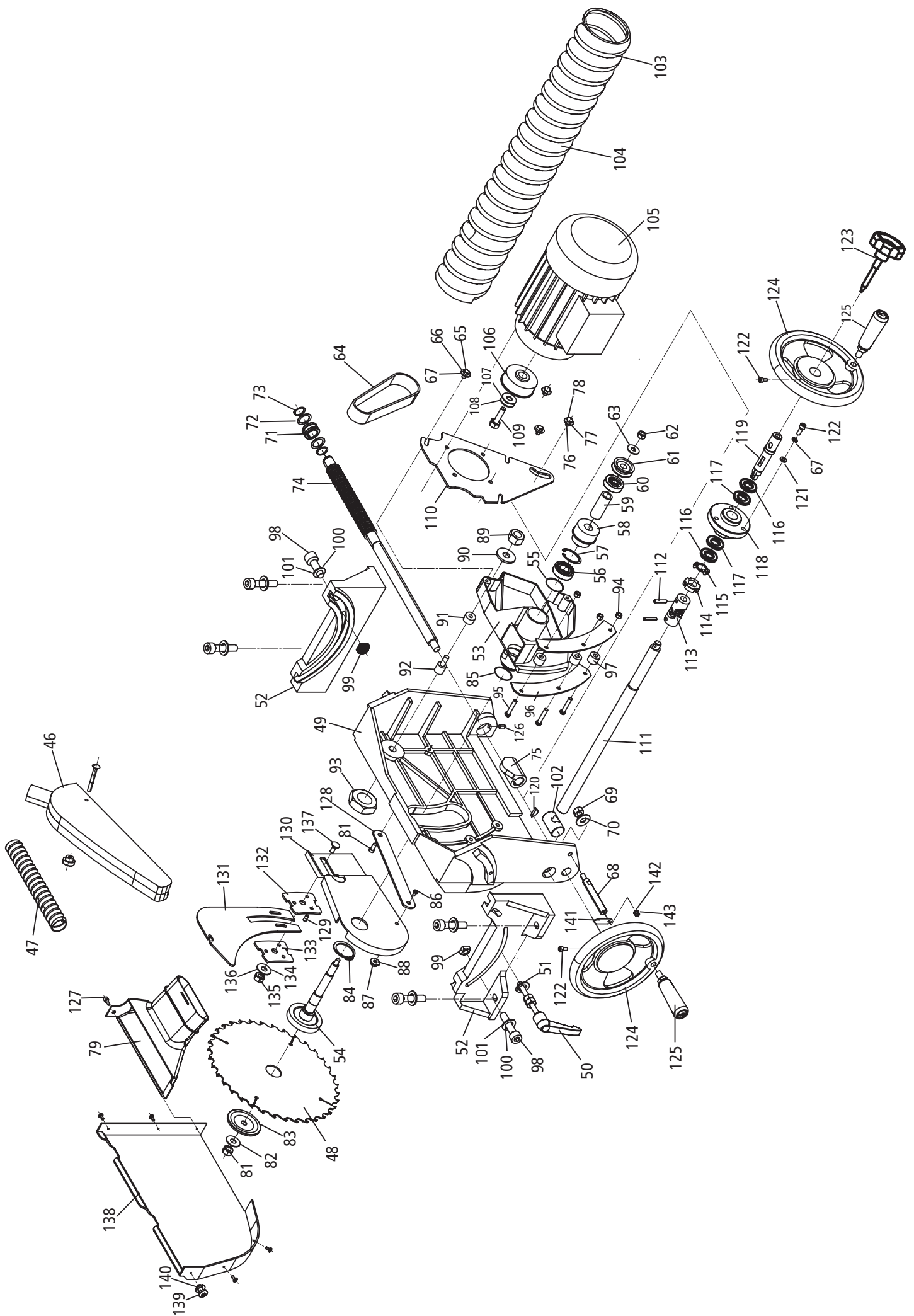
For any information or problem contact your area dealer or our technical service centre. The necessary interventions must be carried out by specialised technical personnel.

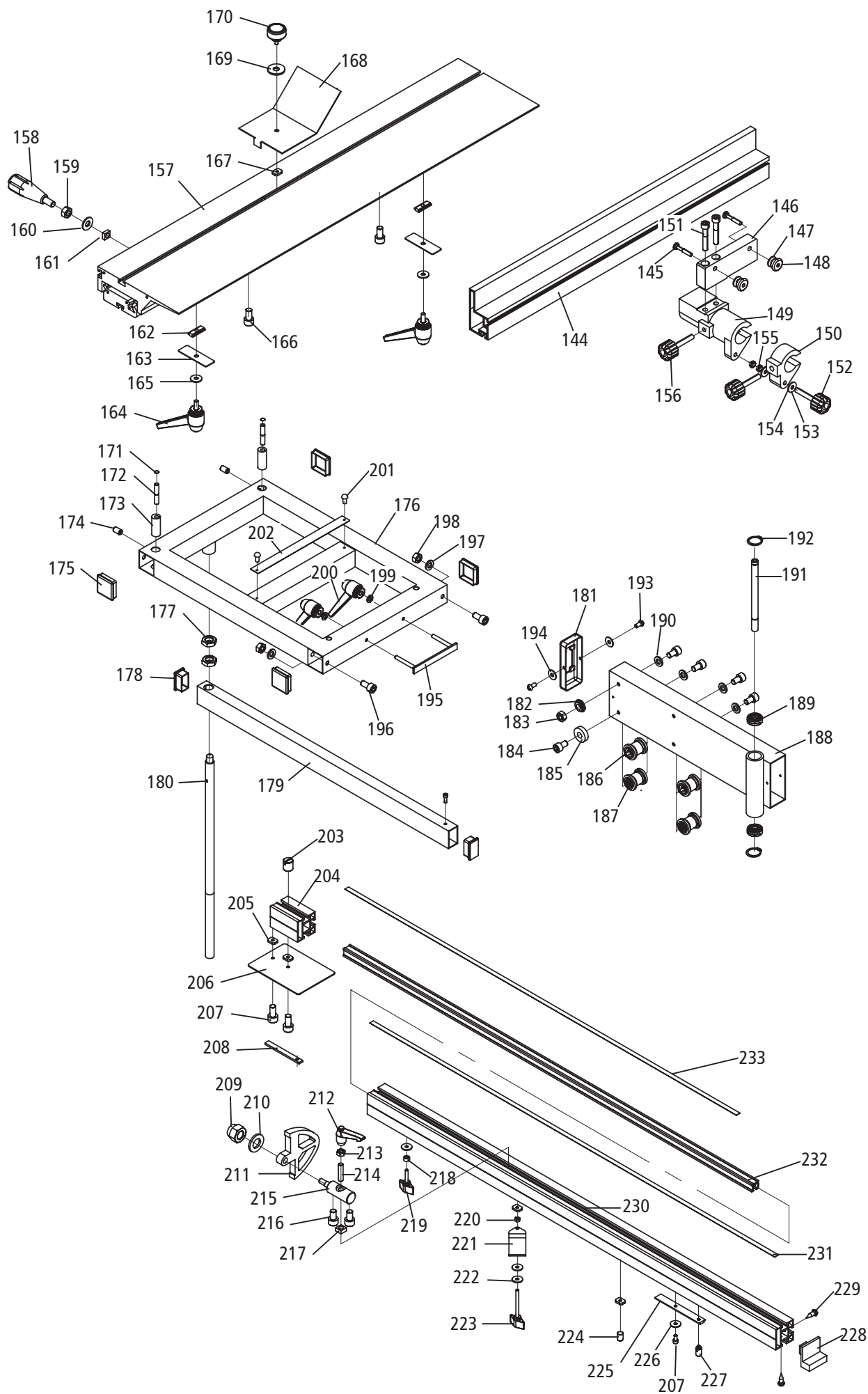
Before carrying out any fault service or maintenance work, please always TURN OFF THE SWITCH, UNPLUG POWER CABLE AND WAIT FOR THE SAW BLADE TO COME TO A STANDSTILL.

Trouble	Possible Cause	Solution
Saw stops or will not start	1. Overload tripped on motor 2. Saw unplugged from wall or motor 3. Fuse blown or circuit breaker tripped 4. Cord damaged	1. Allow motor to cool and reset overload switch on motor 2. Check all plug connections 3. Replace fuse or reset circuit breaker 4. Replace cord
Does not make accurate 45° or 90° cuts	1. Stops not adjusted correctly 2. Angle pointer not set accurately	1. Check blade with square and adjust stops 2. Check blade with square and adjust pointer
Material binds blade when ripping	1. Fence not aligned with blade 2. Warped wood 3. Excessive feed rate 4. Splitter not aligned with blade	1. Check and adjust fence 2. Select another piece of wood 3. Reduce feed rate 4. Align splitter with blade
Saw makes unsatisfactory cuts	1. Dull blade 2. Blade mounted backwards 3. Gum or pitch on blade 4. Incorrect blade for cut 5. Gum or pitch on table	1. Sharpen or replace blade 2. Turn blade around 3. Remove blade and clean 4. Change blade to correct type 5. Clean table
Blade does not come up to speed	1. Extension cord too light or too long 2. Low shop voltage 3. Motor not wired for correct voltage	1. Replace with adequate size cord 2. Contact your local electrical company 3. Refer to motor junction box
Saw vibrates excessively	1. Stood on uneven floor 2. Damaged saw blade 3. Worn V-belts 4. Bent pulley 5. Improper motor mounting 6. Excessive play in raising mechanism 7. Loose hardware	1. Reposition on flat, level surface 2. Replace saw blade 3. Replace V-belts 4. Replace pulley 5. Check and adjust motor 6. Adjust worm and arbor bracket 7. Tighten hardware
Rip fence binds on guide rails	1. Guide rails or extension wing not installed correctly 2. Guide of rip fence not adjusted properly	1. Reassemble guide rails, refer to fence manual 2. Adjust guides, refer to fence manual
Rip fence binds on guide rails	1. Rip fence out of alignment 2. Splitter not aligned with blade 3. Feeding stock without rip fence 4. Splitter not in place 5. Dull blade 6. Letting go of material before it is past blade 7. Anti-kick back plates dull	1. Align rip fence with mitre slot 2. Align splitter with blade 3. Install and use rip fence 4. Install and use splitter (with guard) 5. Replace blade 6. Push material all the way past blade before releasing work 7. Replace or sharpen anti-kick back plates
Blade does not raise or tilt freely	1. Too much tension in raising mechanism 2. Sawdust and debris in raising and tilting mechanisms	1. Adjust raising worm and arbor bracket 2. Clean and regrease

11. Parts Diagrams







12. Parts List

No.	Description	Part No.	No.	Description	Part No.
1	Screw	M5X8GB819B	61	Adjusting wheel	1-JL82041006
2	Table insert	JL82410003A	62	Nut	1-M8GB6182Z
3	Main table	JMTS1004030001-001G	63	Washer	1-WSH8GB97D1Z
4	Scale	JL82450008B	64	Belt	1-JL82041008
5	Scale base	JL82450009A	65	Bolt	1-M6X30GB5781Z
6	Pan head screw	M6X16GB823Z	66	Washer	1-WSH6GB96Z
7	Support shaft	JL82450010	67	Washer	1-WSH6GB93Z
8	Nut	M8GB6172Z	68	Angle indicator	1-JL82440004
9	Washer	WSH8GB97D1Z	69	Nut	1-M8GB6170Z
10	Front guide rail	JL82450005A	70	Washer	1-WSH8GB95Z
11	Nut	M8GB6170Z	71	Tube	1-JL82441002
12	Extension table	JMTS1004030002-001U	72	Washer	1-JL50000005
13	Screw	M6X10GB77B	73	Retaining ring	1-SLP18GB894B
14	Bolt	M8X20GB5783Z	74	Threaded shaft	1-JL82441001
15	Washer	WSH8GB96Z	75	Threaded tube	1-JL82043002
16	Set screw	M6X16GB70Z	76	Tube	1-JL82043003
17	Clamp	JL82120001A	77	Position screw	1-JL82043004
18	Bracket	JL82121000-001Y	78	Washer	1-WSH8GB5287Z
19	Rear extension table	JMTS1004030003-0001U	79	Dust port	1-JL82040004-001S
20	Screw	M4X8GB818Z	80	Carriage bolt	1-JL82060007
21	Protection plate	JL82020005-105U	81	Nut	1-JL82040015
22	Upper cabinet asm	JMTS1004010000-105U	82	Washer	1-WSH10GB97Z
23	Switch	KOA2MN-10ZFD	83	Plate	1-JL82040007
24	Screw	M4X60GB818Z	84	Retaining ring	1-ST32GB894D1B
25	Screw	M4X10GB818Z	85	Washer	1-JL82040008
26	Protection plate	JL82460007-105U	86	Screw	1-M6X20GBGB819D1Z
27	Screw	M4X10GB818Z	87	Nut	1-M6GB889Z
28	Safety switch	QKS8	88	Washer	1-WSH6GB96Z
29	Nut	M4GB6170Z	89	Nut	1-M8GB889D1Z
30	Washer	WSH4GB97D1Z	90	Washer	1-WSH8GB96B
31	Pan head screw	M4X30GB818Z	91	Tube	1-JL82040012
32	Arc panel	JMTS1004070001-001U	92	Position screw	1-JL82040013
33	Nut	M6GB6170Z	93	Nut	1-M6GB6173Z
34	Washer	WSH6GB96Z	94	Nut	1-M6GB889D1Z
35	Bolt	M6X15GB5781Z	95	Screw	1-M6X35GB819Z
36	Front panel	JMTS1004070003-001U	96	Plate	1-JL82040009
37	Side panel	JMTS1004070002-001U	97	Tube	1-JL82040010
38	Bracket	JL82070005	98	Screw	1-M8X20GB70Z
39	Bracket	JL82070004	99	Square head nut	1-JL82440005
40	Bottom panel	JL82430001-001U	100	Washer	1-WSH8GB95B
41	Bolt	M10X40GB5783Z	101	Teeth washer	1-WSH8GB861B
42	Nut	M10GB6170Z	102	Shaft	1-JL82440005
43	Foot bracket	JMTS1004070004-001U	103	Clamp	1-JL82040018
44	Bolt	M8X16GB70Z	104	Dust hose	1-JL82040019
45	Washer	WSH8GB97D1Z	105	Motor	1-KH8242582-01
46	Blade guard	1-JL82045000	106	Motor pulley	1-JL82080002
47	Dust hose	1-JL81100001	107	Washer	1-JL82080004
48	Blade	1-JL82040001	108	Washer	1-M8GB96Z
49	Bracket	1-JL82440001	109	Bolt	1-JL82080003
50	Lock handle	1-JL82443000	110	Motor plate	1-JL82080001
51	Big washer	1-WSH8GB5287Z	111	Threaded shaft	1-JMTS1002026005
52	Support bracket	1-JL82440002	112	Roll pin	1-PIN5X24GB879D1B
53	Shaft bracket	1-JL82041001	113	Gimbal	1-JMTS1001023100
54	Spindle	1-JL82444001	114	Nut	1-M16GB812Z
55	Adjusting plate	1-JL82041003	115	Washer	1-WSH16GB858Z
56	Bearing	1-BRG80103CGB278	116	Washer	1-JXPS1201026002
57	Retaining ring	1-SLP35GB893D1Z	117	Retaining bracket	1-BRG1730AXKASGB4605
58	Pulley	1-JL82041004	118	Position flange	1-JMTS1002026003
59	Tube	1-JL82041005	119	Tilt handwheel shaft	1-JMTS1002026002
60	Bearing	1-BRG80301CGB278	120	Key	1-PLN5X19GB1099

No.	Description	Part No.	No.	Description	Part No.
121	Washer	1-WSH6GB97D1Z	181	End cap	1-JL82236002
122	Screw	1-M6X16GB70Z	182	Plate	1-JL82236012
123	Locking handle	1-JMTS1002026001	183	Nut	1-M6GB6170Z
124	Handwheel	1-JMTS1002023101	184	Screw	1-M6X10GB70Z
125	Handle	1-JL84032000(2)	185	Bracket	1-JL82463005
126	Screw	1-M6X10GB77B	186	Upper wheel asm.	1-JL82053000
127	Screw	1-JL82040016	187	Lower wheel asm.	1-JL82052000
128	Bracket	1-JL82040017	188	Support bracket	1-JL822360003A-001U
129	Set screw	1-M6X10GB77Z	189	Bearing	1-BRG6202-2ZV2GB276
130	Split bracket	1-JL82445100	190	Washer	1-WSH6GBGB95Z
131	Splitter	1-JL82445001	191	Shaft	1-JMTS1001052002
132	Guide washer	1-JL82445002	192	Retaining ring	1-CLP15GB894D1B
133	Plate	1-JL82445003	193	Screw	1-M4X8GB818Z
134	Washer	1-WSH10GBGB97D1Z	194	Washer	1-WSH4GB96Z
135	Nut	1-M10GB6170Z	195	Lock plate	1-JMTS1001051002
136	Spring washer	1-WSH10GB93Z	196	Screw	1-M6X12GB70Z
137	Bolt	1-M10X25GB794Z	197	Washer	1-WSH6GB95Z
138	Blade guard	1-JL82040003	198	Nut	1-M6GB6170Z
139	Screw	1-M4X10GB818Z	199	Lock handle	1-JL50041000-001S
140	Washer	1-WSH5GB5287Z	200	Washer	1-WSH8GB5287Z
141	Indicator	1-JL82440006	201	Angle scale	1-JL82214004
142	Washer	1-WSH4GB95Z	202	Rivet	1-RVT3X7GB12618A
143	Screw	1-M4X8GB818Z	203	Screw	1-M5X6GB73B
144	Rip fence	1-JL82450004	204	Bracket	1-JL82213001
145	Carriage bolt	1-M6X35GB12Z	205	Nut	1-JL82030006A
146	Support bracket	1-JL82450003	206	Position plate	1-JL82213013
147	Washer	1-WSH6GB96Z	207	Screw	1-M6X12GB70Z
148	Nut	1-JL20061003-001S	208	Key	1-JL82213019
149	Fence bracket	1-JL82450001-001G	209	Lock nut	1-M10GB889Z
150	Bracket	1-JL82450002-001G	210	Washer	1-WSH10GB97D1Z
151	Set screw	1-M8X45GB70D1Z	211	Bracket	JXSM0401061003
152	Micro-adjust knob	1-JL82450007	212	Lock handle	1-JL50041000-001S
153	Washer	1-WSH6GB95Z	213	Nut	1-M8GB6170Z
154	Wave washer	1-WSH6GB955B	214	Set screw	1-M8X50GB77B
155	Nut	1-M6GB6172Z	215	Shaft	JXSM0401061004
156	Lock handle	1-JL82450006-001S	216	Set screw	1-M6X10GB70Z
157	Sliding table	1-JMTS1004041000	217	Nut	JL82240007
158	Lock handle	1-JL26060012-001S	218	Tube	1-JL82213017
159	Nut	1-M10GB6170Z	219	Knob	1-JL82213018-001S
160	Washer	1-WSH10GB97D1Z	220	Nut	1-M6GB6170Z
161	Square head nut	1-M10GB39B	221	Plate	1-JL82213004
162	Sliding bracket	1-JXPS1201053005	222	Big washer	1-WSH6GB5287Z
163	Plate	1-JL82240010	223	Knob	1-JL82213016-001S
164	Lock handle	1-JXCM2501012100-001S	224	Set screw	1-M6X10GB77B
165	Washer	1-WSH8GB96Z	225	Key	1-JL82213015
166	Set screw	1-M6X10GB70Z	226	Big washer	1-WSH6GB96Z
167	Square head nut	1-JL82030006	227	Shaft	1-JL82464003
168	Plate	1-JL84060003-001Y	228	End cap	1-JL82213007-001S
169	Washer	1-WSH6GB97D1Z	229	Tapping screw	1-ST3D5X13GB845Z
170	Fence knob	1-JL20061100-001S	230	Fence	1-JL82213003
171	Retaining ring	1-CLP10GB895D2B	231	Scale	1-JMTS1001053001
172	Roll pin	JMTS1001051004	232	Bracket	1-JL82213002
173	Position tube	JMTS1001051003	233	Scale	1-JL82464001
174	Set screw	1-M6X10GB80B			
175	End cap	1-JL82233004-001S			
176	Square sliding table	1-JMTS1001051001-001U			
177	Nut	1-M20GB6173			
178	End cap	1-JL82212006-001S			
179	Extension bracket	1-JL84070002			
180	Support bracket	1-JL82463004			

13. EU Declaration of Conformity

Cert No: EU / TS250RS / 1

RECORD POWER LIMITED,
Unit B, Ireland Industrial Est.
Adelphi Way, Staveley, Chesterfield S43 3LS
declares that the machinery described:-

- 1. Type: **Table Saw**
- 2. Model No: **TS250RS**
- 3. Serial No

Conforms with the following directives:-

MACHINERY DIRECTIVE	2006/42/EC
LOW VOLTAGE DIRECTIVE	2006/95/EC
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE	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. **BM50170597, AN50170595, AE50103166**
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: **01/04/2010**

Andrew Greensted
Managing Director

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