

RECORD POWER

ESTABLISHED 1909®

Original Instruction Manual

TS315

Cast Iron Table Saw with Scoring

IMPORTANT

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



Version 2.1

February 2010

Woodworking Machines & Accessories

Record Power Ltd
Unit B, Adelphi Way
Staveley S43 3LS

Telephone: 01246 561 520
Fax: 01246 561 537

Email: sales@recordpower.co.uk
www.recordpower.co.uk

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.

Contents

Page		
3	Health & Safety Guidance	
4	Record Power Guarantee	
5	Additional Safety Instructions for Table Saws	
	1 General Information	
	1.1	Foreword
	2 Machine Description	
6	2.1	Machine identification
6	2.2	Getting to know your machine
7	2.3	Technical specification
7	2.4	Recommended protective clothing
7	2.5	Noise emission
7	2.6	Prescribed use of the machine
7	2.7	Hazards
8	2.8	Additional safety instructions for table saw
	3 Installation	
9	3.1	Lifting and unloading
9	3.2	Position of the machine
10	3.3	Identifying shipping boxes
11	3.4	Installations of loose parts
11	3.4.1	Saw protection - Installation
11	3.4.2	Fitting the sliding beam
12	3.4.3	Squaring frame Installation
12	3.4.4	Telescopic ruler Installation
13	3.4.5	Rear extension table installation
13	3.4.6	Right extension table Installation
14	3.4.7	Fence Installation
14	3.5	Connecting the dust extraction system
15	3.6	Electrical connection
	4 Installation and Adjustment	
16	4.1	Main blade installation and adjustment
17	4.2	Scoring blade installation and adjustment
18	4.3	Saw blade tilting and lifting
18	4.4	Rip fence adjustment
	5 Operating Procedures	
20	5.1	Control panel
20	5.1.1	Control functions
20	5.1.2	Machine start
20	5.1.3	Machine stop
20	5.2	Working with table saw
20	5.2.1	Cutting with the sliding beam
21	5.2.2	Cutting with rip fence
	6 Maintenance	
23	6.1	V-belt replacement and tightening
23	6.1.1	Saw driving belt
23	6.1.2	Engraver driving belt
23	6.2	Overall cleaning
23	6.3	General lubrication
23	6.4	Replacement and disposal
24	7 Diagrams & Components	

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.

(See section 9, page 22)

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.

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

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.

1. General Information

1.1 FOREWORD

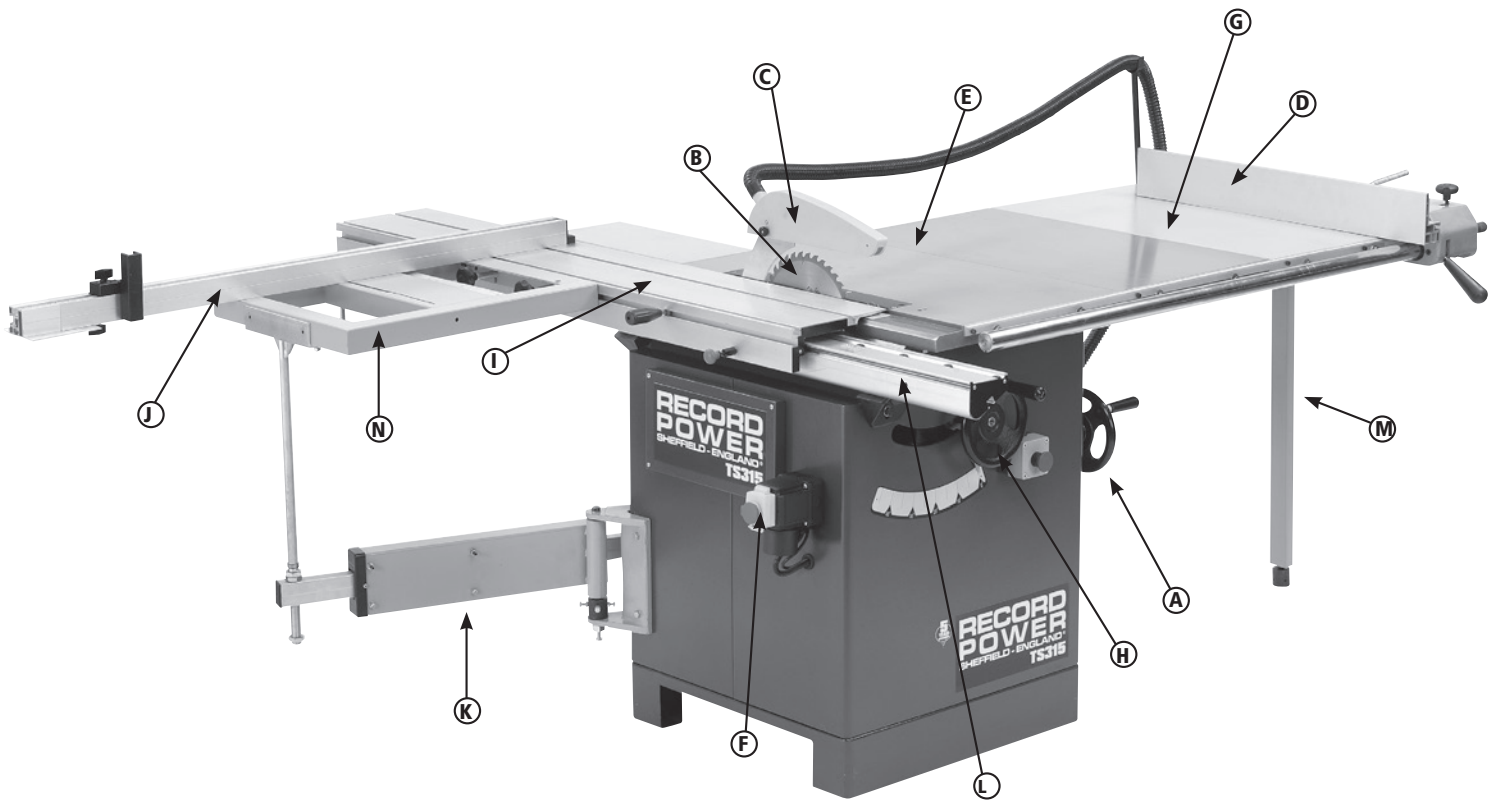
This manual must be read and understood before operating the machine. This will provide a better working knowledge of the machine, for increased safety and to obtain the best results.

2. Machine Description

2.1 MACHINE IDENTIFICATION

There is a metallic identification plate fixed to the machine, containing the manufacturer's data, year of construction, serial number and blade data.

2.2 GETTING TO KNOW YOUR MACHINE



- A Blade Tilt Handwheel
- B Blade
- C Crown Guard
- D Rip Fence
- E Main Table
- F Switch Unit
- G Extension Table (optional)

- H Blade Rise & Fall Handwheels
- I Sliding Table
- J Cross Cut Fence (optional)
- K Support Arm (optional)
- L Sliding Carriage Rail
- M Extension Table Support Leg (optional)
- N Squaring Table (optional)

SPECIFICATION	TS315	
Main blade size:	254mm	
With optional table insert and scoring blade removed:	315mm	
Scoring blade size:	80mm	
Main blade bore:	30mm	
Scrolling blade bore:	20mm	
Blade speed:	4000rpm	
Max width of cut with fence:	1250mm	
Sliding carriage stroke:	1250mm	
Max depth of cut using 254mm blade:	77mm at 90° / 54mm at 45°	
Max depth of cut using 315mm blade:	108mm at 90° / 76mm at 45°	Extraction
ports	30 / 100mm	
Motor power (output)	2.2kW	
Nett Weight	315kg	

2.4 Recommended Protective Clothing

- 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.

2.5 Noise Emission

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 i.e. the number of machines in operation 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.

2.6 Prescribed Use Of The Machine

This machine has been designed to cut and square heartwood, fibreboard, chipboard panels, plywood and laminated board both coated and uncoated. Materials different from those quoted above, since dissimilar to wood, are thus prohibited: the user is solely responsible for any damage caused by machining such materials. Always connect the machine to a sufficient dust extraction system. Failure to do so may invalidate the warranty.

2.7 Hazards

ATTENTION: Table saws still present risks that cannot be eliminated by the manufacturer. Therefore the user must be aware that wood working machines are dangerous if not used with care and all safety precautions adhered to.

2.8 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.

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. Installation

3.1. Lifting And Unloading

CAUTION

Some of the lathe components are stored inside the cabinet for ease of shipment. We recommend assistance is sought to take them out.

CAUTION

Lifting and handling should only be carried out by skilled personnel specially trained to execute this kind of operation. During loading and unloading, avoid knocks to prevent damage to people or objects. Make sure no one is standing under the overhung load and/or within the bridge crane working range during machine lifting and handling.

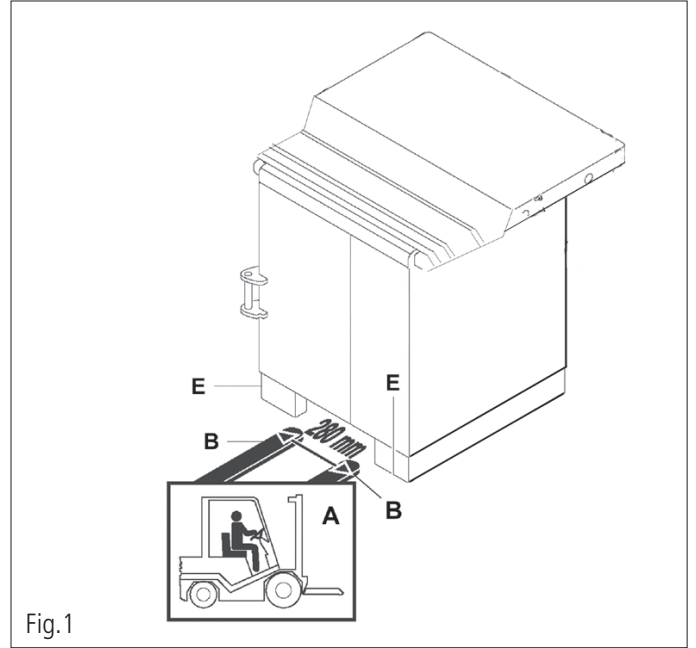
Lifting should be carried out by lift truck or hand truck (Fig. 1) Before starting the manoeuvres, free the machine of all the parts used for transport or packaging that have remained on the machine.

CAUTION - VERY HEAVY

Where specialist equipment is not available seek assistance and proceed only after carefully considering the safest method, which may include breaking down in to more manageable parts.

Check that the capacity of the lifting equipment is adequate for the gross weight of the machine indicated.

- Provide a fork lift truck (A) having suitable carrying capacity;
- Insert the forks (B) as per Fig. 1 (keeping them alongside the two feet (E)) and check that these protrude at least 15 cm from the rear part of the base.
- Remove the protective coating from all tables and unpainted surfaces, using white spirit. Do not use any solvent, petrol or gas oil, which might dull the paint or oxidate machine parts.



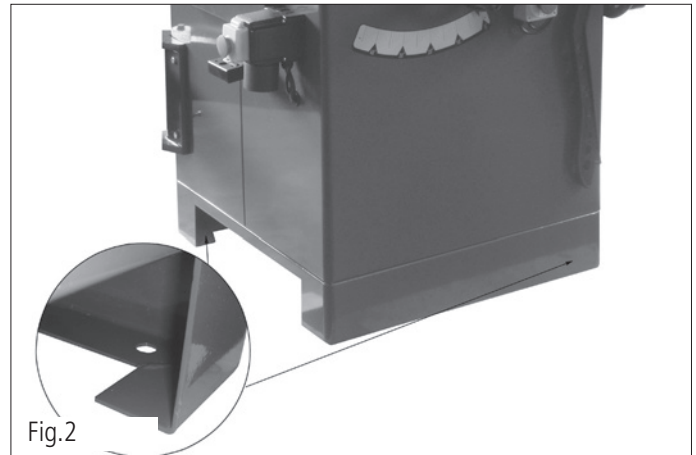
3.2 Position Of The Machine

CAUTION

The machine must not be operated in explosive environments.

The machine must be fixed to the floor. (Fig. 2)

Fix the machine feet and fix on ground by means of expansion bolts (not supplied).



3.3 Identifying Shipping Boxes

BEFORE ASSEMBLY

It is advisable that before unpacking to have plenty of paper towels or cloths available to clean off the rust preservative.

Contents of the shipment:

1. Main Table Saw - two cartons (Fig. 3)

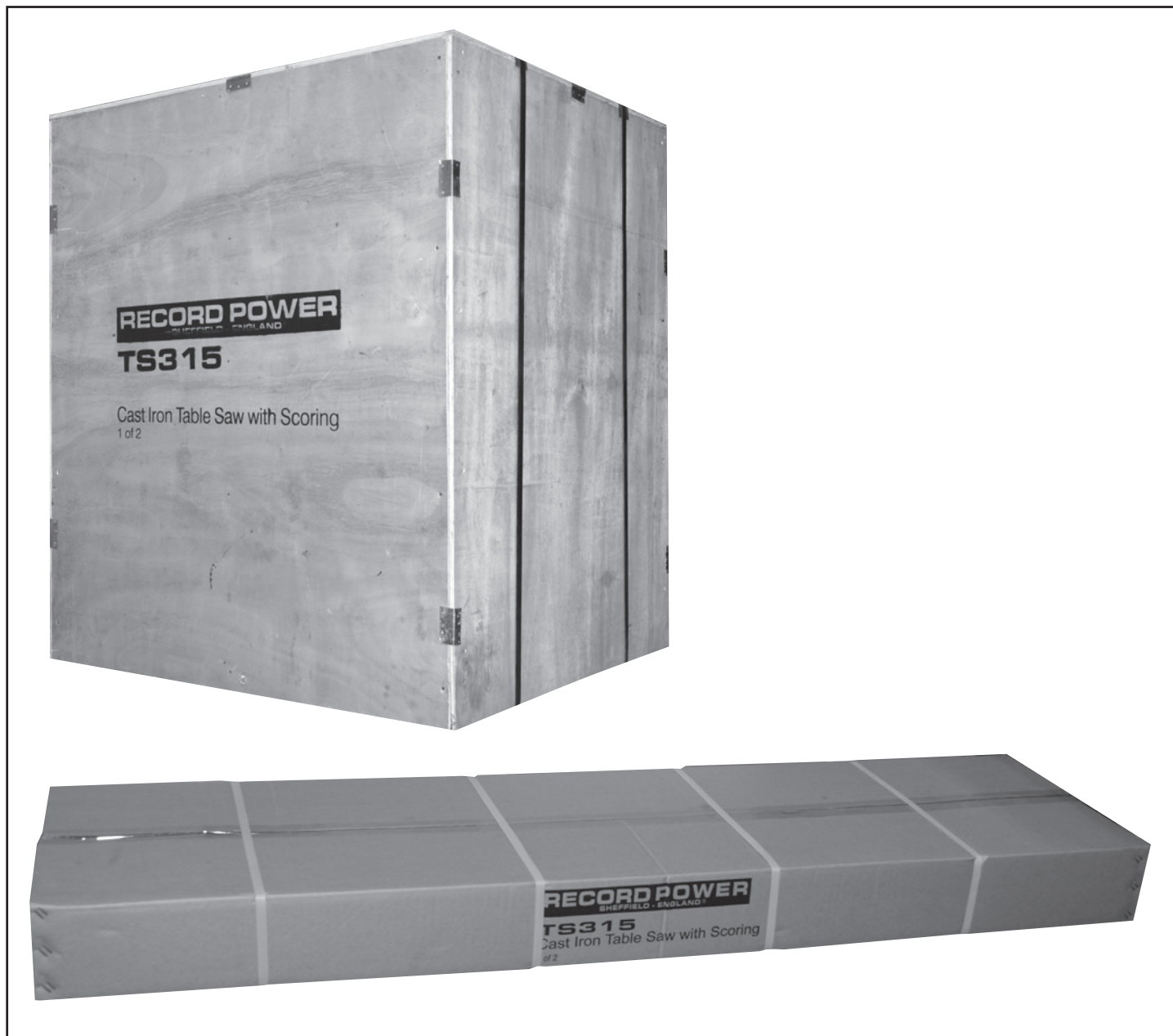


Fig.3

3.4. Installation of Loose Parts

3.4.1 Blade Guard - Installation

CAUTION

The guard must always be used and must be positioned in such a way as to completely cover the blade.

- Lift the saw assembly by means of the lever A after loosening handle B.
- Fit protection C and tighten the handle E

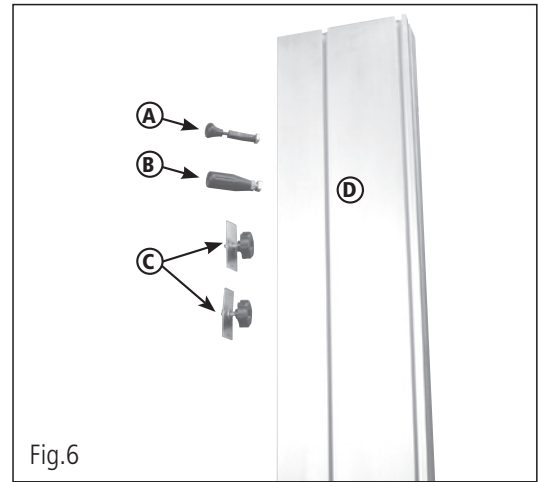
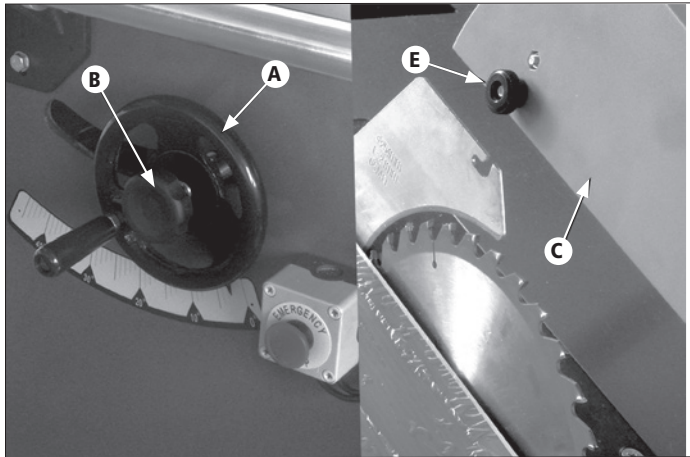


Fig.6

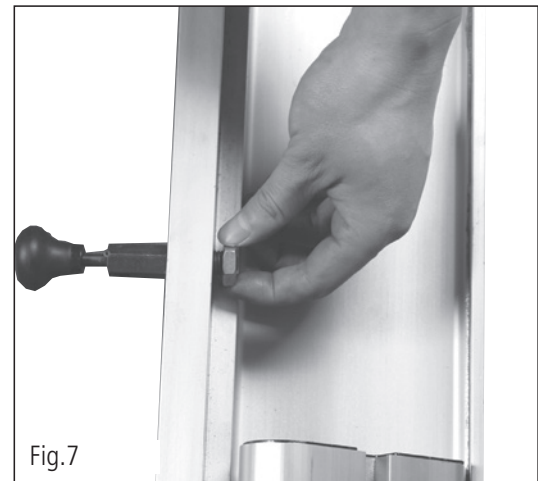


Fig.7

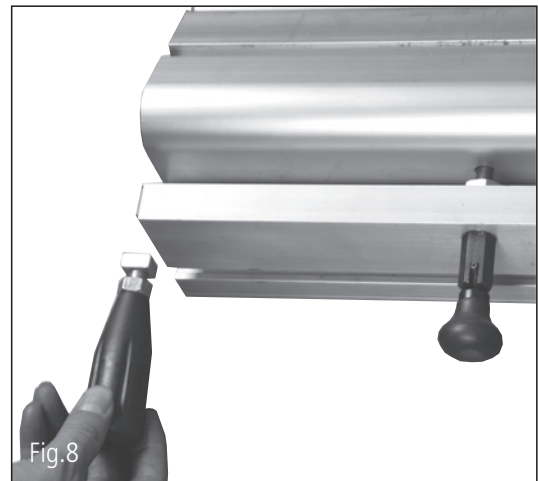


Fig.8

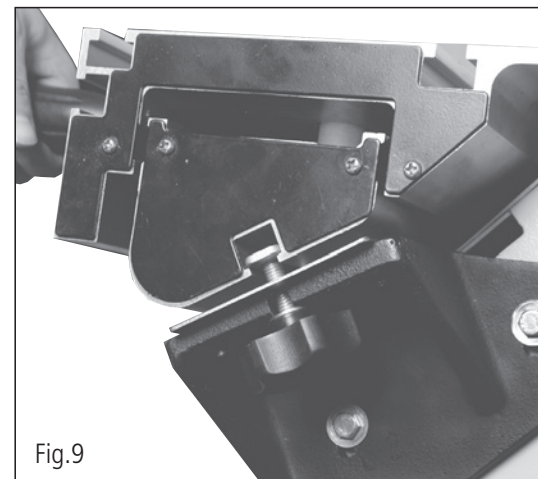


Fig.9

3.4.2 FITTING THE SLIDING BEAM

CAUTION

The sliding beam extrusion is heavy. To avoid injury and possible damage to the beam, please seek assistance from another person.

1. Familiarise yourself with the components of the sliding beam Fig.6
 - A. Plunger lock assembly
 - B. Operating knob
 - C. Fixings to secure sliding beam to brackets
 - D. Sliding beam
2. Attach the plunger lock assembly to the sliding beam by inserting it through the locating hole in the side of the sliding beam extrusion and secure with the nut provided (Fig 7).
3. Assemble the operating knob and thread the square nut onto the start of the thread of the knob. Slide the square nut into the corresponding recess on the side of the sliding beam extrusion and locate towards the front of beam. Fully tighten the knob by rotating in a clockwise direction (Fig 8).
4. Attach the sliding beam to the mounting brackets using the fixings supplied (the mounting brackets are already fitted to the saw body during the production process) (Fig 9).

3.4.3 Squaring Frame Installation (Optional)

Mount the squaring frame support bracket (A, Fig.10) onto the cabinet. Insert the slider (B, Fig.10) into the swing arm and make sure the thrust bearing is in place (C, Fig.10). Insert the support (D, Fig. 11) in the groove of the sliding beam (E, Fig.11).

Position the swinging support (B, Fig.12) as shown in the figure; rest the frame (G, Fig.12) on the support bracket (H, Fig.12).

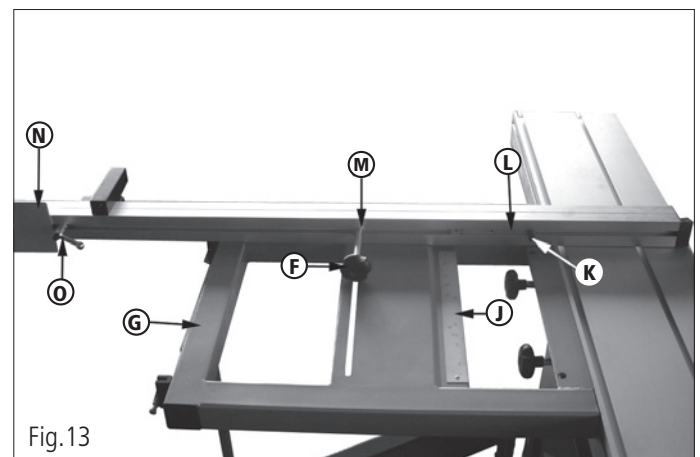
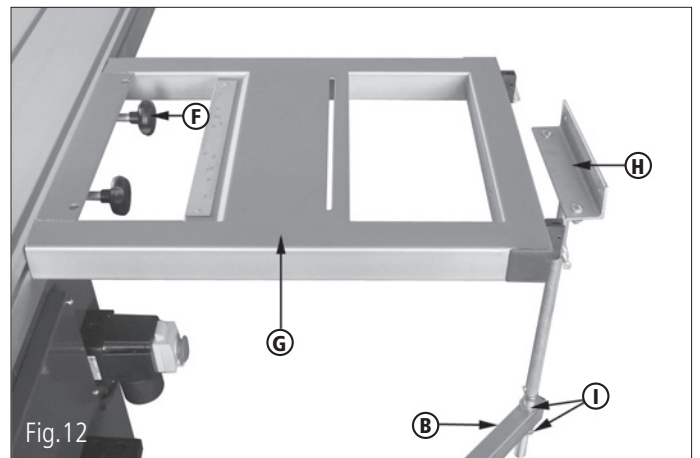
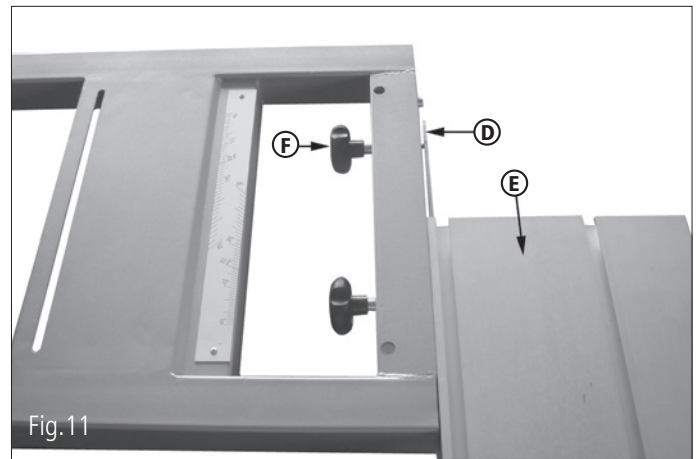
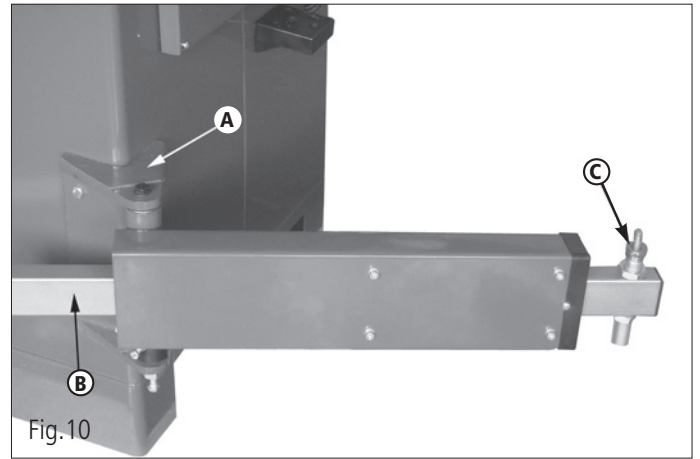
CAUTION

The screws on support bracket (H, Fig.12) must sit perfectly in the special hole underneath the frame (G, Fig.12).

Level the table (G, Fig.12), if necessary, turning the nuts (I, Fig.12).

Tighten the knobs (F, Fig.12).

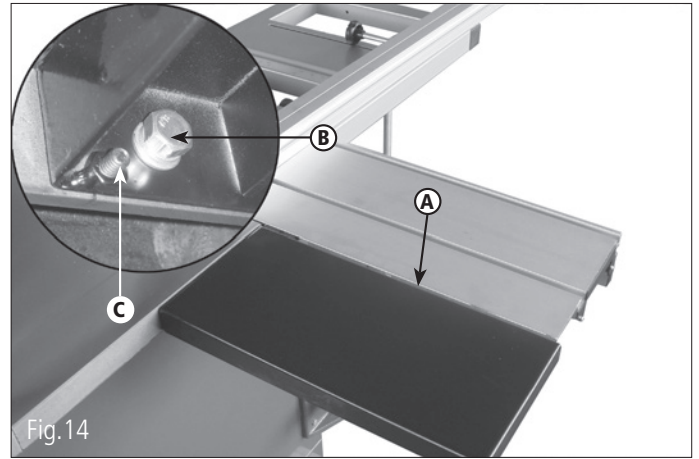
Insert the square nut with the presser in the groove of the sliding beam E and lock it onto the beam. When the sliding beam E is not used, lock it with the locking knob.



3.4.5 Rear Extension Table Installation

Installation:

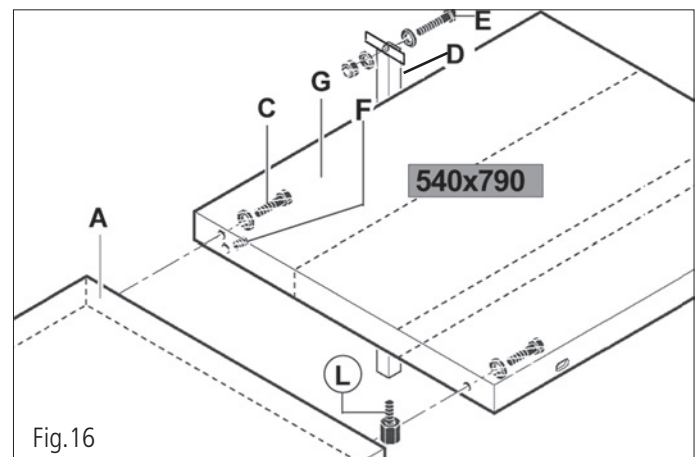
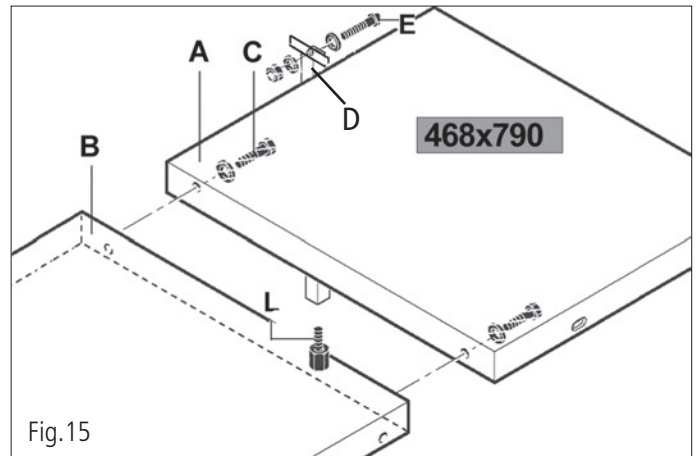
Mount the table (A, Fig.14) using the screws (B, Fig.14).
Carefully level the table by adjusting the grub screw (C, Fig.14).



3.4.6 Right Extension Table Installation

NOTICE

When installing the extension table with 468x790 dimensions, it is advisable to seek assistance before attempting to install.
Fasten the extension table (A, Fig.15) to the working table (B, Fig.15) tightening the screws (C, Fig.15).
Fit the leg (D, Fig.15) to supplementary table (A, Fig.15) and tighten screw (E, Fig.15).
Adjust the levelling feet (L, Fig.15).
Fasten the 2nd extension table (C, Fig.16) to the extension table (A, Fig.16) tightening the screws (C, Fig.16).
Adjust the extension table, operating dowel (F, Fig.16).
Fit the leg (D, Fig.16) to supplementary table (A, Fig.16) and adjust the levelling feet (L, Fig.16) and tighten screw (E, Fig.16).



3.4.7 Fence Installation

Fit the fence rest (H, Fig.17) to the work table (B, Fig.17) and place the spacers in between.

Tighten the nuts (Q, Fig.17) with flat & spring washers inbetween.

Manually tighten nuts (S, Fig.17) against the supplementary table (A, Fig.17) and finally tighten nuts (Q, Fig.17).

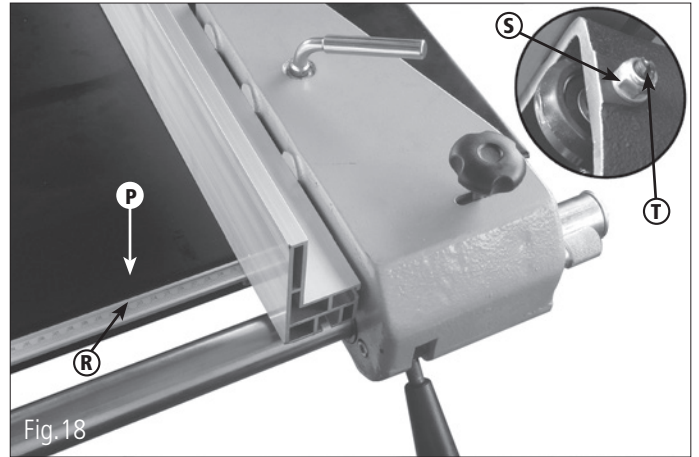
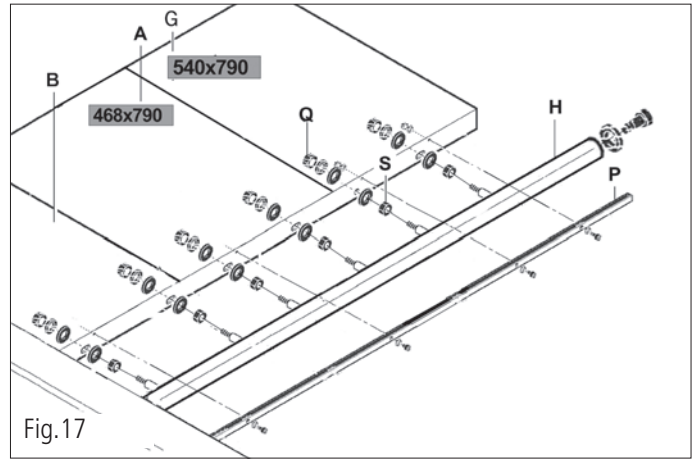
Check linearity of the guide (H, Fig.17) and adjust, if necessary, by acting on the nuts (S, Fig.17) (See section 4.4 rip fence adjustment) (See page 16).

Saw guide assembly with micrometric adjustment:

Fit the tubular section (P, Fig.18) and perform a test cut to check that the panel width corresponds to the reading on the plate (R, Fig.18). If necessary, adjust the position by loosening the fastening screws and repositioning the tubular section (P, Fig.18).

Parallel adjustment of aluminum fence:

Loosen the Nylon nut (S, Fig. 18) and turn the set screw (T, Fig. 18) to adjust the aluminium fence parallel with the table surface.



3.5. Dust Extraction

CAUTION

Always work with the dust extraction system on. Always start the extraction system and the motor at the same time.

Suitable extraction eliminates the risks of dust inhalation and aids better functioning of the machine. Make sure the extraction system air flow rate is at least 900 cu.m/hour at a speed of 25÷30 m/s.

- Connect a hose, \varnothing 100 mm, to coupling (A, Fig.19) and a hose \varnothing 30 mm to coupling (B, Fig.19), as shown in the figure 20 and tighten through a clamp.

CAUTION

The extraction pipe fitting should not hinder the operator during use of the machine.



3.6 Electrical Connection

Electrical installation should be carried out by competent, qualified personnel.

The mains connection should be made using the terminal box.

Ensure that the mains supply corresponds with that of the machine, use cables of a section suitable for the power of the motor. For a supply tension of 400 V the minimum section recommended is 2.5 mm², including the earth wire.

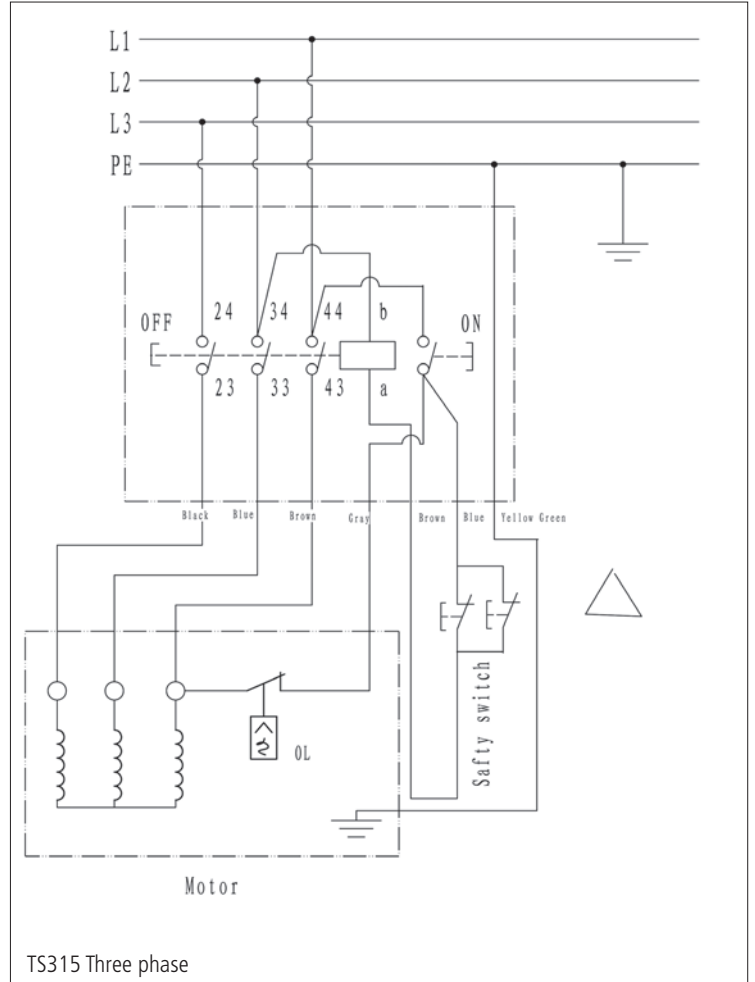
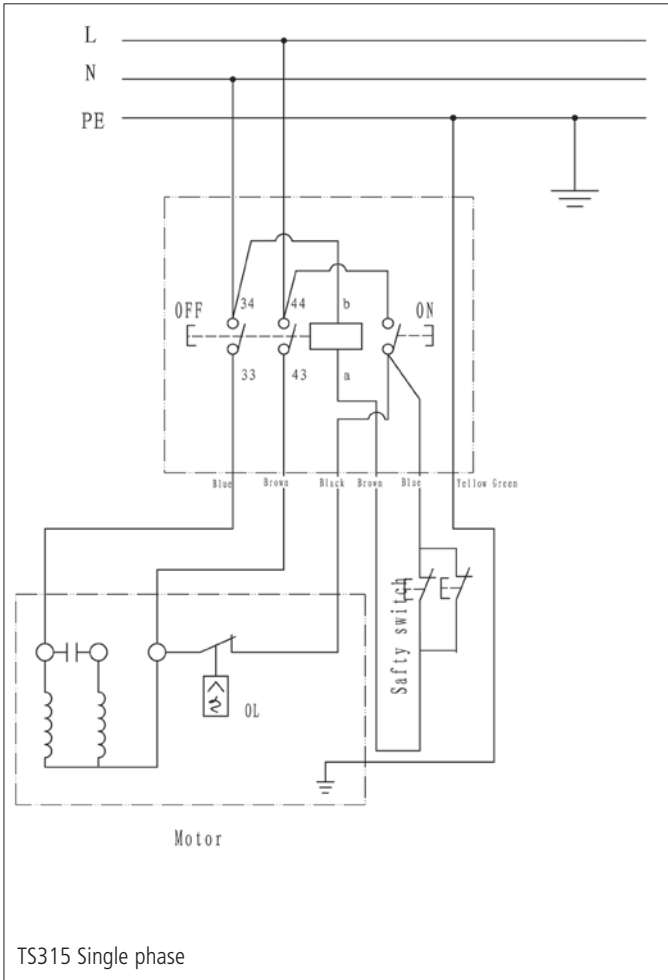
For a mains supply of 230 V or a power rating greater than 15 A it will be necessary to increase the section of the connecting cables .

For Three Phase Models:

Connect the phase wires to the terminals R- S - T (L1 - L2 - L3) and the earth wire to the earth terminal.

On initial start-up check the direction of rotation, if it is incorrect then invert the two phase wires (for machines with 3 phase supply). Direction of rotation of machines with single-phase supply is pre-determined during production .

On completion of the installation check that the terminal box is closed correctly and that the plug points are locked.



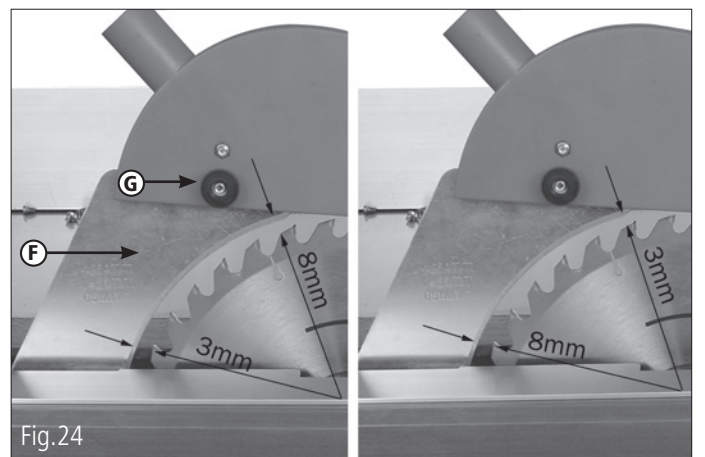
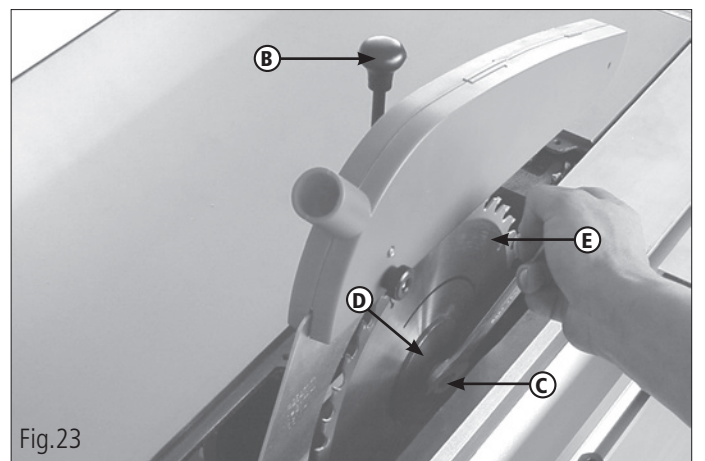
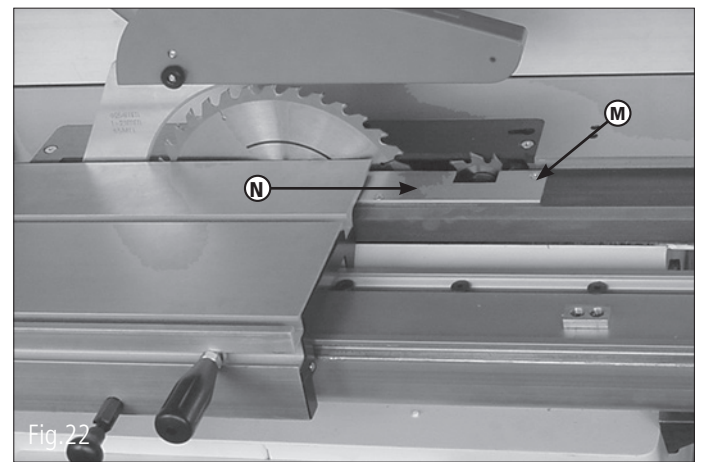
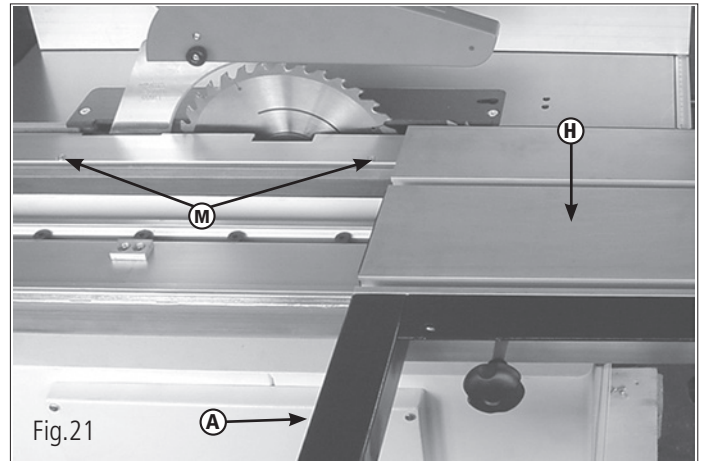
4. Installation And Adjustment

4.1. MAIN BLADE INSTALLATION AND ADJUSTMENT

CAUTION: Handle the tools with protective gloves.
Disconnect input power.
Position the saw assembly at 90° and raise it as high as possible.
Position the squaring frame (A, Fig.21) as shown in the figure and move the sliding beam (H, Fig.21) completely to the right and loosen the screws (M, Fig.21).
Move the sliding beam H completely to the left and loosen the rest of the screws (M, Fig.22) and open the guard (N, Fig.22); opening activates a microswitch which prevents the motor from starting.
Fit pin (B, Fig.23) into the saw shaft pulley hole.

NOTICE: The locking nut (C, Fig.23) of the saw blade is counter-clockwise; to unscrew it turn it clockwise.
Loosen the lock nut (C, Fig.23) using a 18 mm hex wrench and remove flange (D, Fig.23).
In sequence mount the blade (E, Fig.23) the flange (D, Fig.23) and the nut (C, Fig.23) to prevent any vibration, thoroughly clean the flanges before mounting the saw blade.
Tighten the nut using the 18 mm wrench and the pin (B, Fig.23).
Adjust riving knife (F, Fig.24) height by loosening the nut (G, Fig.24).

CAUTION: Adjust the position of the riving knife so that its distance from the saw blade is between 3 and 8 mm. The riving knife is in the right position when the saw guard covers a part of the cutting edge of the saw blade.



4.2 Scoring Blade Installation And Adjustment

To assemble the scoring blade:

Insert wrench (A, Fig.25) in the blade-holding flange hole.

Loosen lock nut (C, Fig.25) using a hex wrench (B, Fig.25) and remove flange (D, Fig.25).

Assemble, by following this sequence, these parts: blade (E, Fig.25) with the teeth opposed to the ones of the saw, flange D and nut C.

Tighten the nut using the wrench A & B

NOTICE

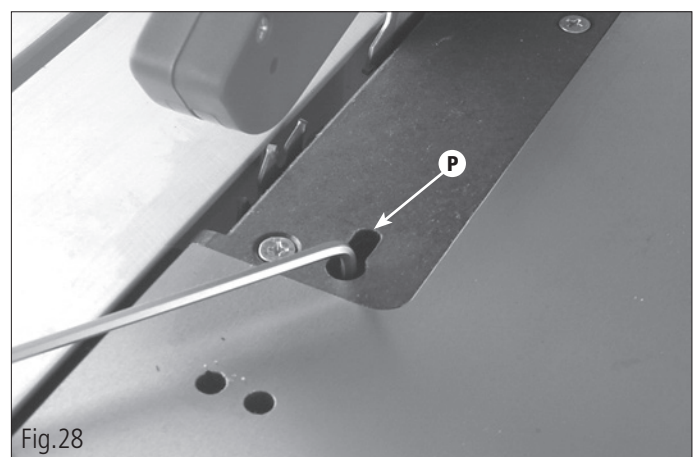
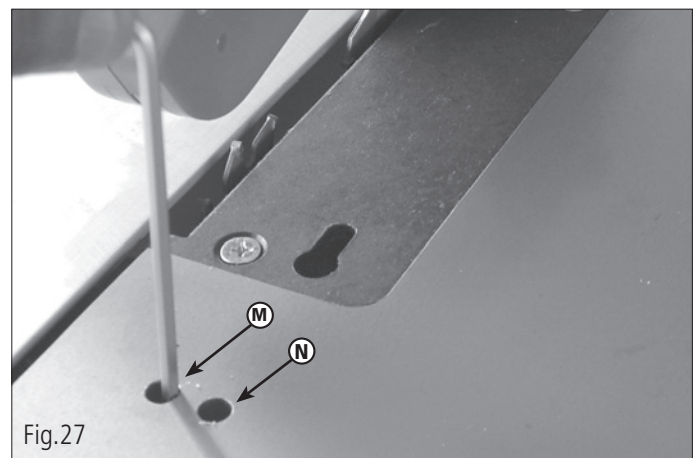
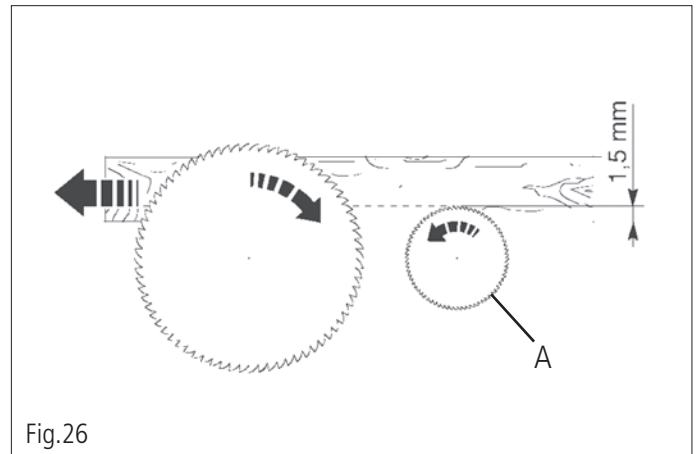
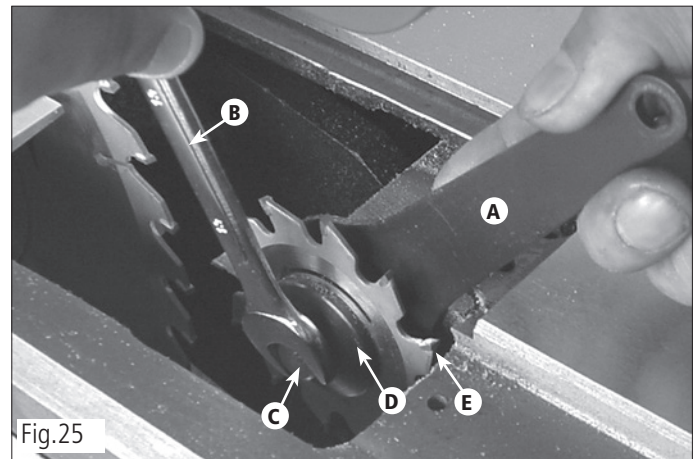
For cutting panels coated with finishing material you should use the scoring blade (A, Fig.26) ; position the scoring blade so as to score 1-1,5 mm.(Fig.26)

Proceed as follows if it is necessary to adjust scoring blade positioning with respect to the saw:

Loosen the fastening pin by introducing the hex wrench into hole (M, Fig.27);

Regulate the alignment of the scoring unit with the saw by turning the setting eccentrically through hole (N, Fig.27);

Adjust the height of the scoring blade using L wrench through hole (P, Fig.28).

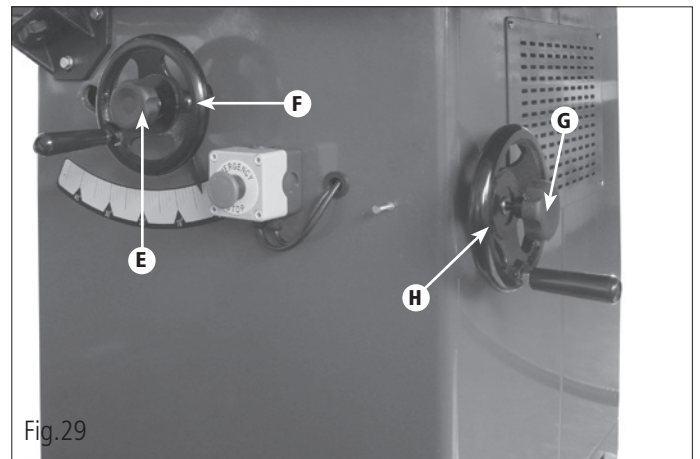


4.3. Saw Blade Tilting And Lifting

Release knob (E, Fig.29) and adjust handwheel (F, Fig.29) to adjust the saw blade height.

Loosen the knob (G, Fig.29) and act on the knob (H, Fig.29) to adjust the tilting of the saw blade.

Read the tilting value of the saw blade on the index.



4.4. Rip Fence Adjustment

The rip fence can be fitted in two positions :

1 - for cutting large pieces (Fig.30)

2 - to cut low and narrow pieces Loosen the handles C in order to place the fence in the positions shown in Fig. 31.

To increase or decrease the distance between the fence and the saw blade operate as indicated below:

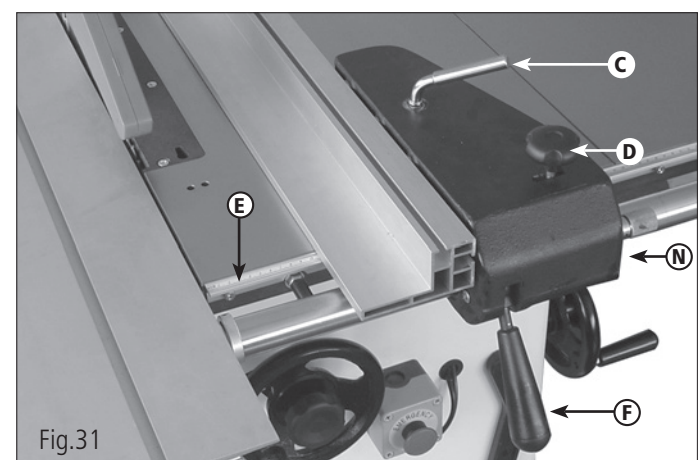
Release the lever (F, Fig.31) and the knob (D, Fig.31);

Manually slide the fence unit (N, Fig.31) with reference to the metric ruler (E, Fig.31). Carry out the micrometric adjustment as follows:

Lock the knob (D, Fig.31);

Operate the knob (G, Fig.31) to adjust the fence micrometrically;

Tighten the lever (F, Fig.31) when the adjustment has been made.



Fence Alignment 1 (Fig.32)

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

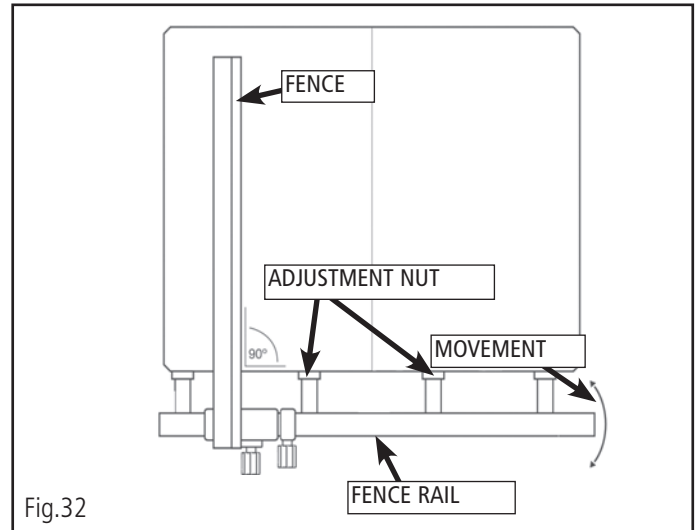


Fig.32

Fence Alignment 2 (Fig.33)

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

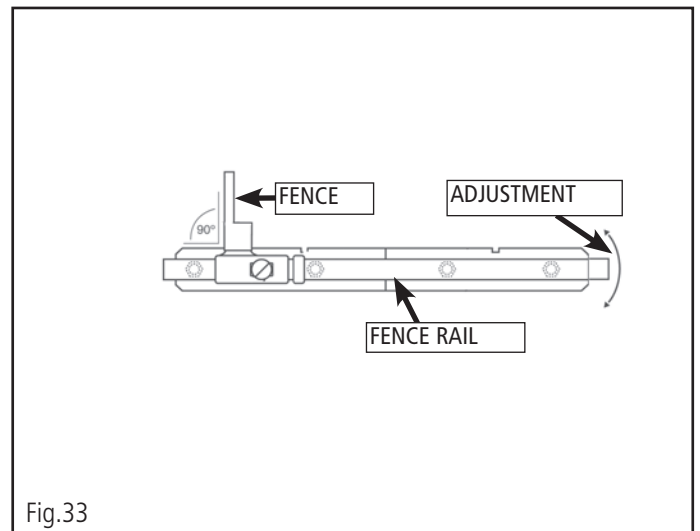


Fig.33

5. Operating Procedures

5.1. Control Panel

The electric board consist of the following devices:

5.1.1 Control Functions

A - ON/OFF switch - connects and disconnects input power.

O - the machine is not powered;

I - the machine is powered.

B - Stop button.

When the button is pressed, the power is immediatly cut. It is a mechanically-operated push-button. Reset this button by turning it clockwise.

5.1.2 Machine Start

Push the green button (A, Fig.34) to position I.

5.1.3 Machine Stop

Press the (B, Fig.34) button.

Push the red button (O) (A, Fig.34), or emergency stop (B, Fig.34).

5.2. Working With the Table Saw

For cutting veneered wood, use of the scoring blade is indispensable to prevent chipping. When the scoring blade is not needed, lower it completely underneath the table. Adjust the scoring blade as described in section 4.

5.2.1 Cutting With The Sliding Beam

When machining large panels, position the telescopic ruler and the squaring frame as per Fig. 35; with this position maximum cutting length is obtained.

1) The first cut - slide the sliding beam completely to the right; Place the panel (C, Fig.35) against the aluminium ruler (E, Fig.35); proceed with cutting, moving the sliding beam forward against the saw blade.

CAUTION: When loading the piece onto the sliding beam, take care not to knock the saw blade.

2) Second Cut

Turn the panel by 90°, place the side previously trimmed against the guide (E, Fig.36) and repeat the operations as in point 1.

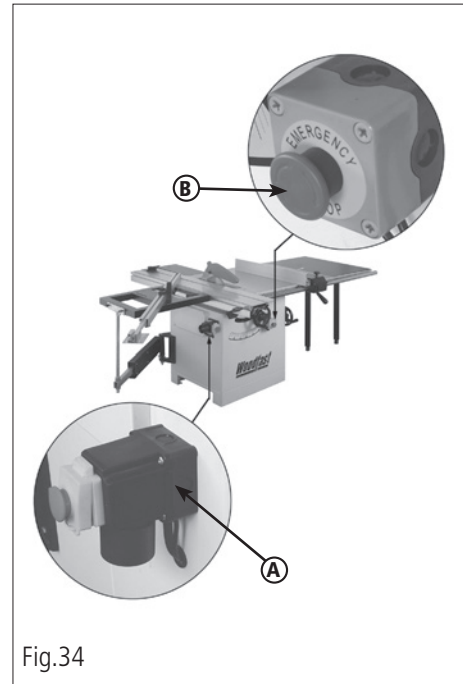


Fig.34

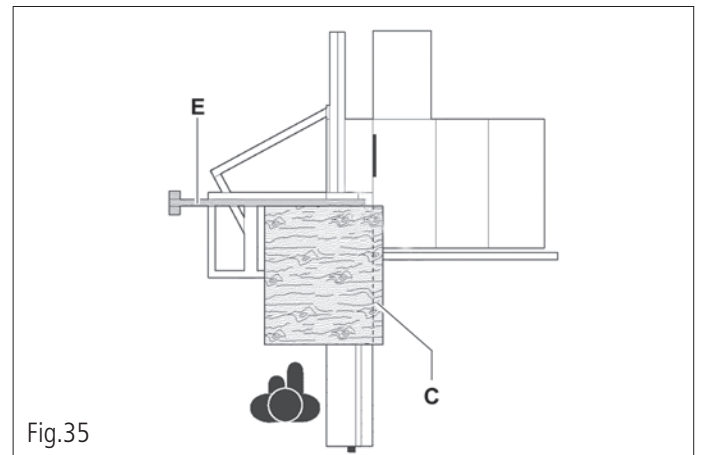


Fig.35

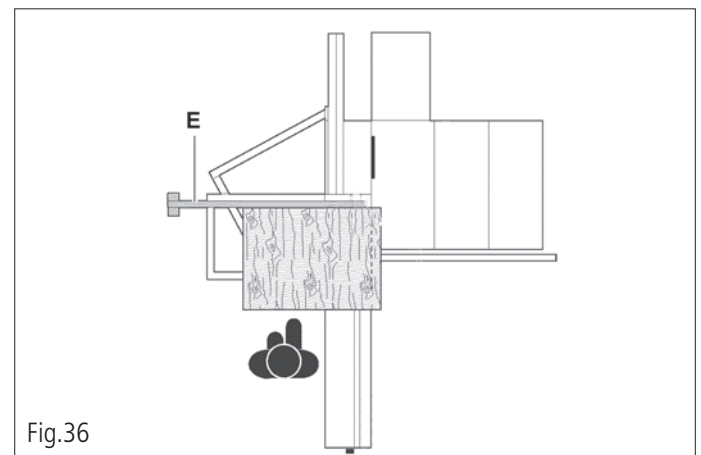


Fig.36

3) Third Cut

Position the stop (F, Fig.37) according to the cutting width to be executed;
Turn the panel 90°
Place the trimmed side against the aluminium ruler (E, Fig.37) and against the stop (F, Fig.37)
Proceed with cutting.

4) Fourth Cut

Repeat the operations as step 3.

CAUTION: Always secure the workpiece by means of the hold down when a sliding beam is used. Always use supports when machining large panels. Working against the fence, with the scorer on, should be carried out with the utmost care because scorer rotation is executed at the same time as workpiece feeding which causes it to be carried along.

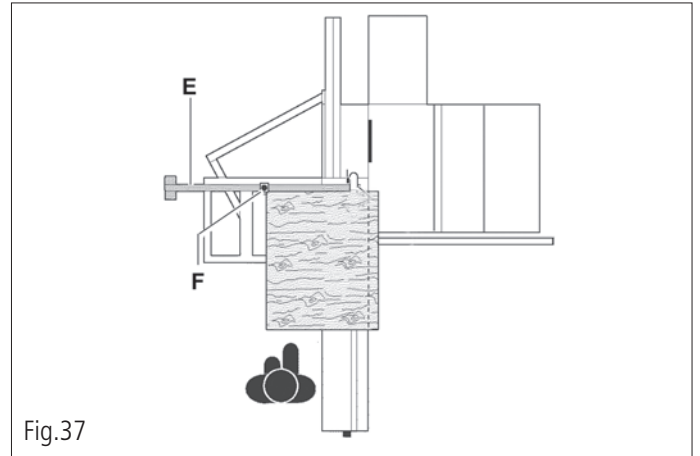


Fig.37

5.2.2 Cutting With Rip Fence

To perform parallel cuts use fence (A, Fig.38). To position and adjust, follow the instructions in section.4. Position the sliding beam as shown and lock it with the knob (B, Fig.38). For positioning the workpiece against fence (A, Fig.38) refer to scale (C, Fig.38).

CAUTION: The end of fence (A, Fig.39) must be positioned lengthwise along an imaginary line (B) which starts half way down the blade and slips forward by 45°. This is to prevent the workpiece kicking back towards the operator. Never put hands near the scoring blade and always use a push stick. The machine is supplied with a push stick.

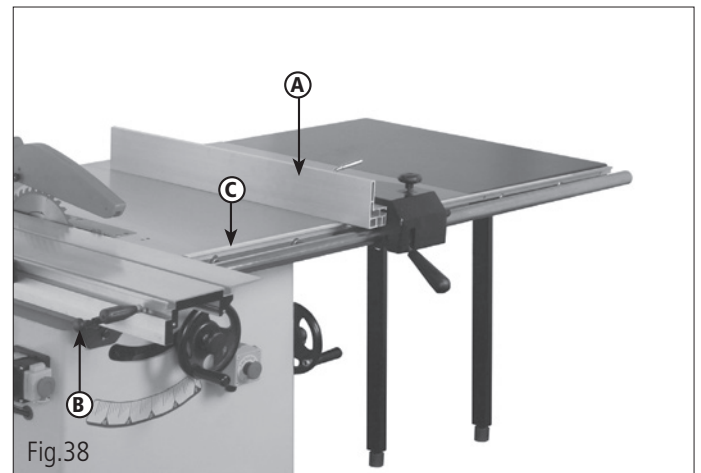


Fig.38

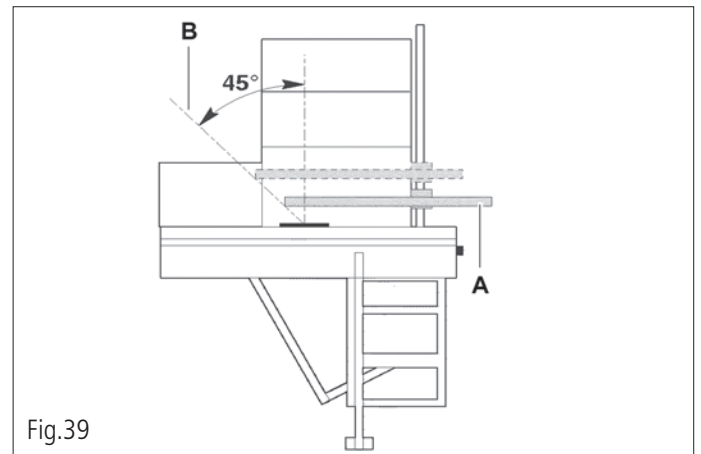


Fig.39

6. Maintenance

6.1. V-belt Replacement And Tightening

Check the belt tension after the first 10 hours of machine operation. It is recommended that at least every 6 months a periodical check on the belt is carried out. Do not overstretch the belts or you may overload the bearings. Overstretching may overheat and destroy the belts. At least once a month check the stopping time of the saw blade. If the stopping time exceeds 10 seconds, tighten or replace the belt as described below. When the adjustment has been carried out, again check the stopping time. Remove the motor panel (A, Fig.40) & (B, Fig.41) to access the belts and proceed as described below:

6.1.1 Saw Driving Belt (Fig. 2)

REPLACEMENT

Completely lower the saw assembly and tilt it by 45° ;
Push the belt tightener (E, Fig.42) to the left and taking off the scoring drive belt

Loosen the hex nut (A, Fig.42) ;

Loosen the bolt B and nuts (C, Fig.42);

Position the saw assembly at 90°;

Disengage the belt (D, Fig.42) from the motor pulley;

Lift the saw assembly;

Extract the belt from the shaving conveyor side and replace it;

Completely lower the saw assembly;

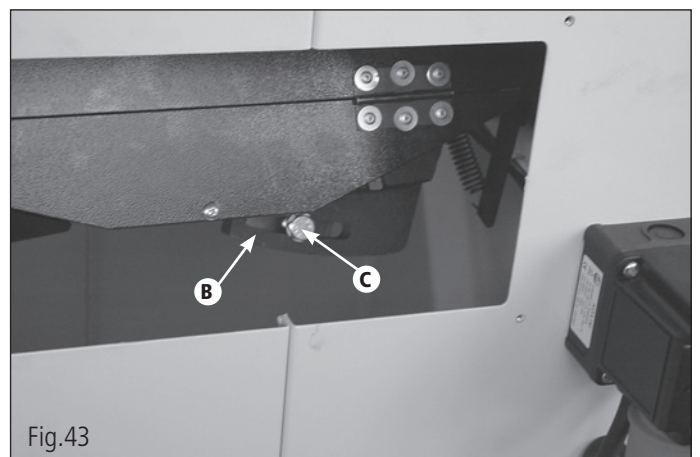
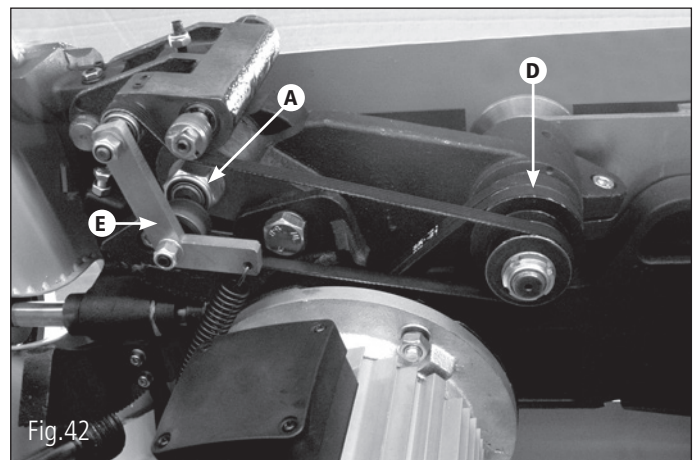
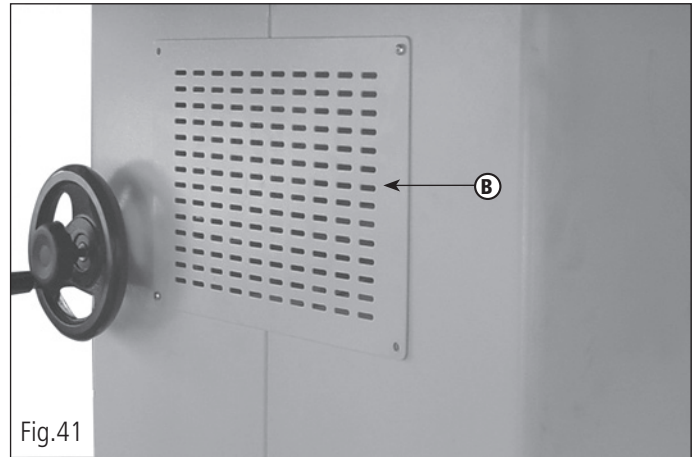
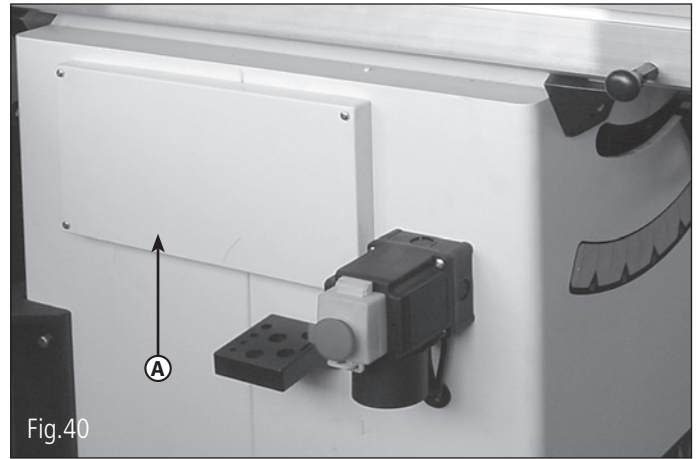
Fit the belt to the pulley and tighten it as described in points 1-2-3 of the following paragraph.

TENSIONING

1) Position the saw assembly at 90°;

2) Tighten the belt by pushing the motor and tighten the nut (A, Fig.42);

3) Incline the saw assembly by 45° and tighten the bolt (B, Fig.43) and nut (C, Fig.43)

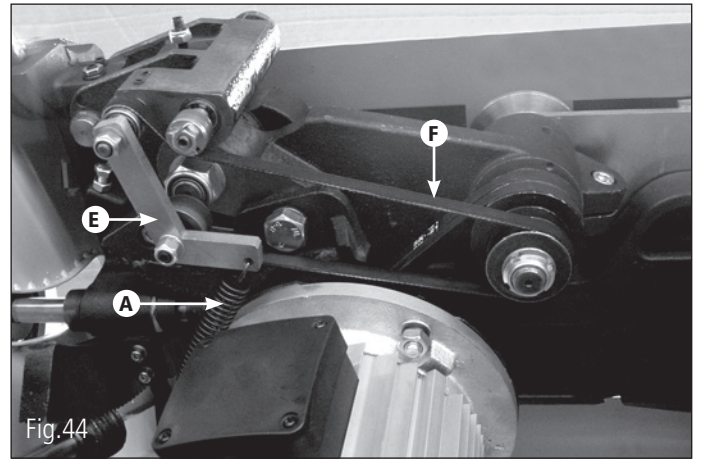


6.1.2 Scoring Belt

Completely lower the saw assembly;

Push the belt tightener (E, Fig.44) to the left and taking off the belt (F, Fig.44);

Taking off the spring (A, Fig.44) from the tightener (E, Fig.44) and replace the belt.



6.2. General Cleaning

After each working cycle, thoroughly clean the machine and all of its parts, vacuum the shavings and dust and remove any resin residues. Use compressed air only when strictly necessary, using protective glasses and a mask. In particular, clean the following parts:

- 1) the beam sliding rail (A, Fig. 44);
- 2) the sliding beam grooves (B, Fig.45);

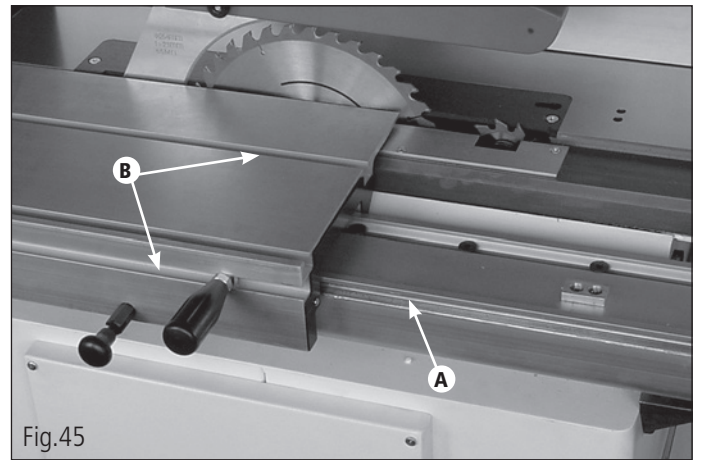
6.3. General Lubrication

Weekly clean and lubricate all the mobile couplings of the machine with a thin film of oil and grease. Protect all belts and pulleys to avoid contamination with oil.

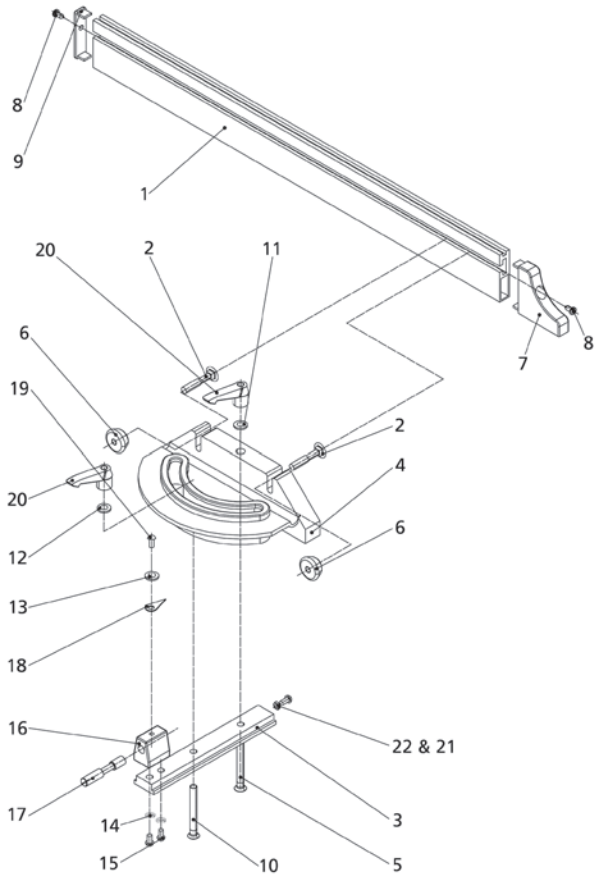
6.4. Replacement And Disposal

Should replacement become necessary, the machine parts must be replaced with original components in order to guarantee their efficiency.

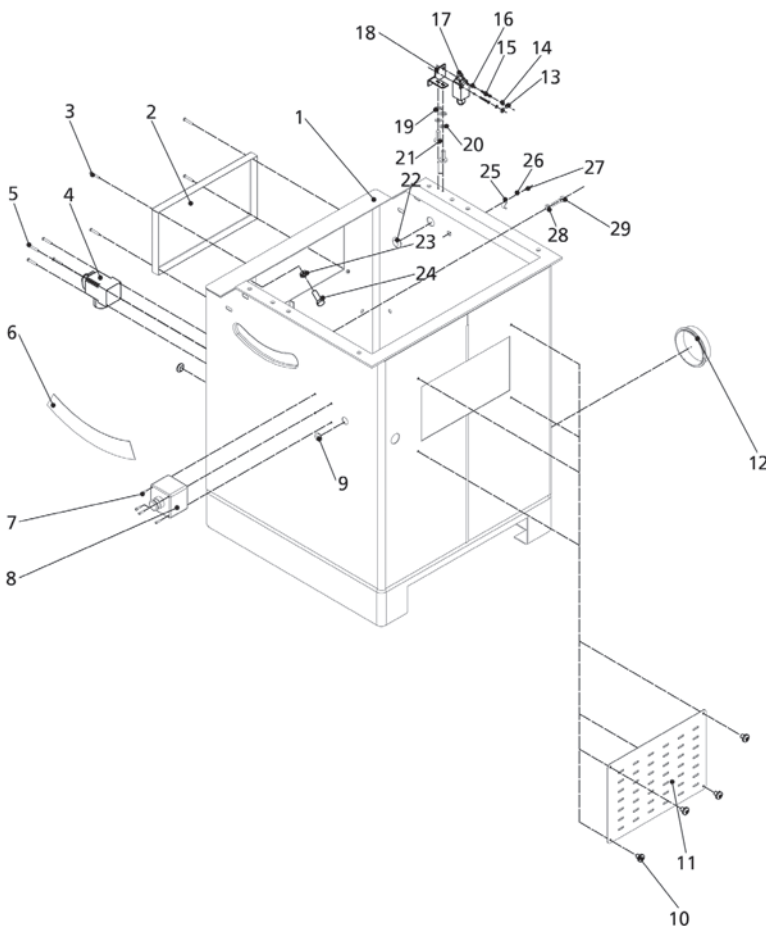
The replaced parts must be disposed of in compliance with the laws in force in the country of use. Repairs should be carried out by an experienced and qualified person to reduce the risk of damage to the machine and eliminate any risks to the user.



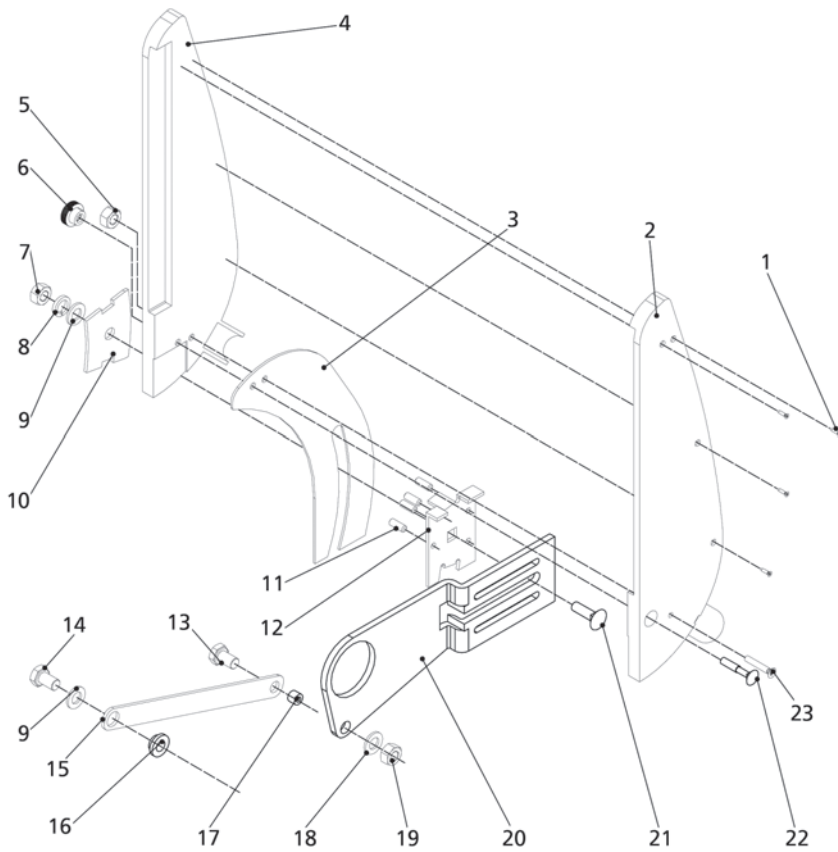
7. Diagrams & Components



Ref No.	Description
1	Fence
2	Carriage bolt M6X30
3	T bracket
4	Mitre gauge
5	Screw M6X70
6	Plastic nut
7	Right end cap
8	Tapping screw ST4.2X9.5
9	Left end cap
10	Screw M6X50
11	Washer 6
12	Washer 6
13	Washer 4
14	Screw M4X12
15	Indicator base
16	Roll pin
17	Indicator
18	Screw M4X8
19	Adjusting handle
20	Hex. Nut M4
21	Screw M4X16



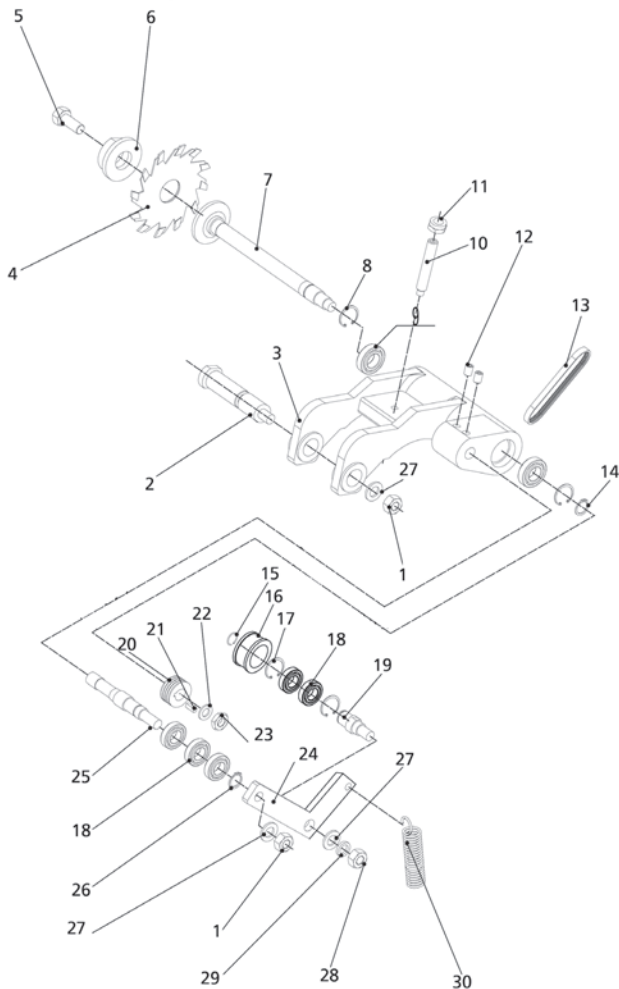
Ref No.	Description
1	Cabinet assembly
2	Front panel
3	Pan head screw M5X35
4	Switch
5	Pan head screw M4X50
6	Angle scale
7	Pan head screw M4X16
8	Urgency switch
9	Rubber tube
10	Pan head screw M5X12
11	Rear panel
12	Dust port
13	Spring washer 4
14	Flat washer 4
15	Pan head screw M4X35
16	Hex. Nut M4
17	Safety switch
18	Plate
19	Spring washer 5
20	Flat washer
21	Pan head screw M5X16
22	Cable Tube
23	Hex. Nut M8
24	Hex. Bolt M8X35
28	Hex. Nut M10
29	Hex. Bolt M10X40



Ref No.

Description

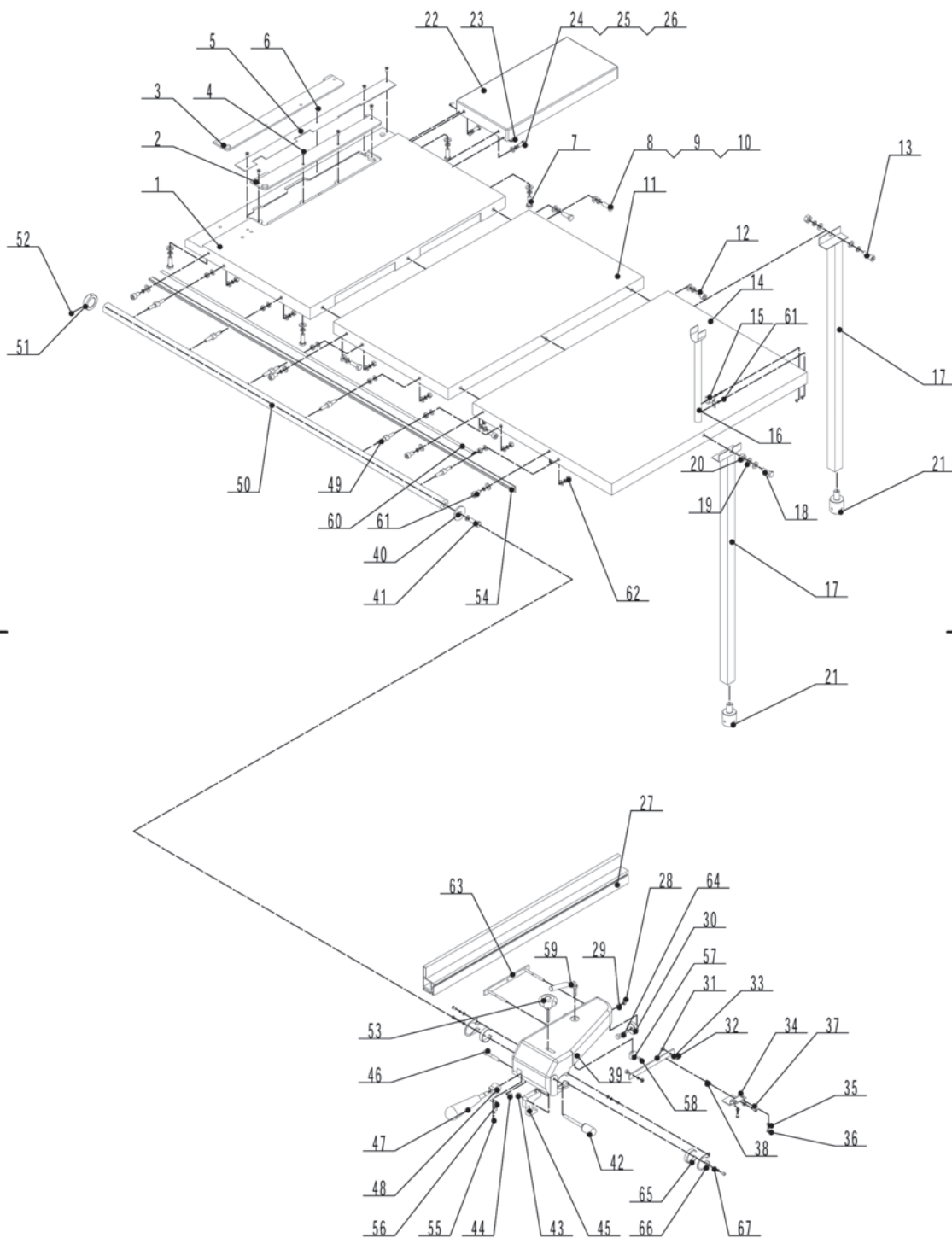
- 1 Tapping screw ST3.5X25
- 2 Blade guard 1
- 3 Guide plate
- 4 Blade guard 2
- 5 Hex. Locknut M5
- 6 Plastic nut
- 7 Hex. Nut M10
- 8 Spring washer 10
- 9 Flat washer 10
- 10 Pressure plate
- 11 Screw M6X16
- 12 Guide bracket
- 13 Hex. Bolt M8X20
- 14 Hex. Bolt M10X25
- 15 Pull bracket
- 16 Collar bracket
- 17 Tube
- 18 Flat washer 8
- 19 Hex. Locknut M8
- 20 Bracket seat
- 21 Carriage bolt M10X30
- 22 Carriage bolt M6X40
- 23 Screw M5X30



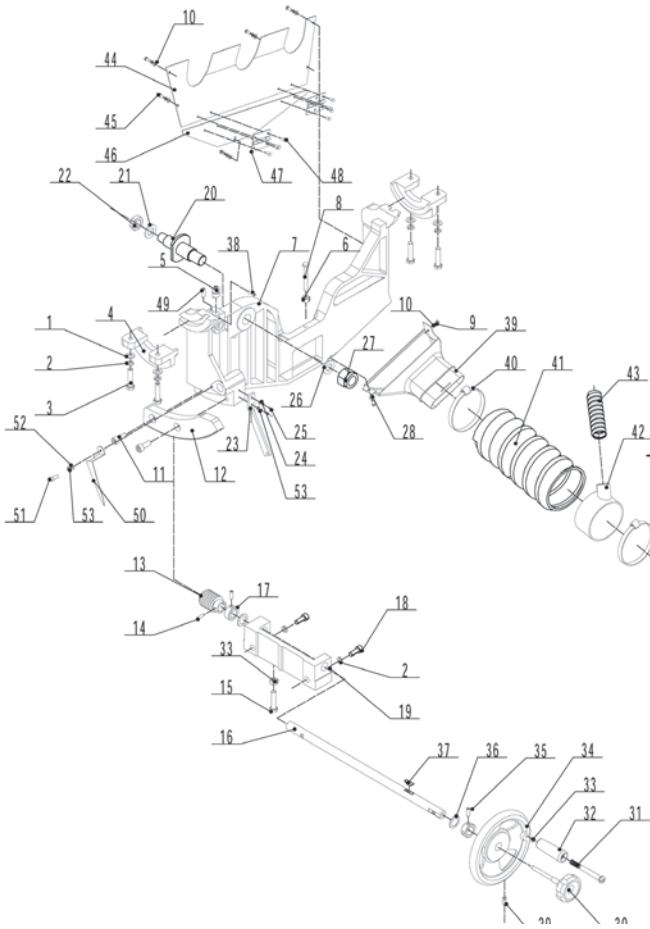
Ref No.

Description

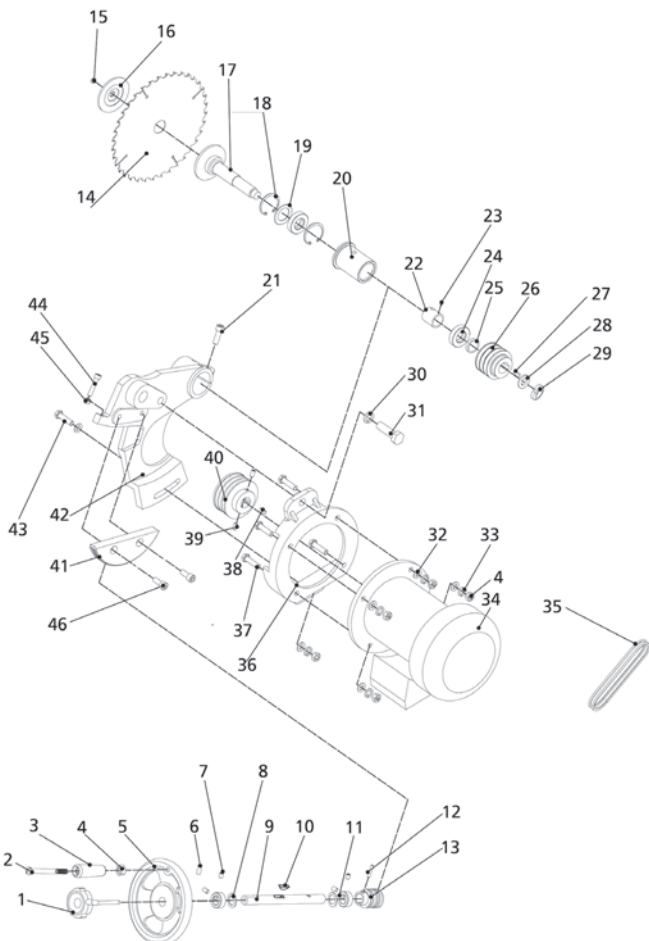
- 1 Hex. Locknut M8
- 2 Adjusting shaft
- 3 Rotating base
- 4 Blade
- 5 Hex. Bolt M8X30
- 6 Blade tube
- 7 Shaft
- 8 Circlip 240
- 9 Bearing
- 10 Set screw M8X50
- 11 Hex. Locknut M8
- 12 Set screw M6X8
- 13 Multi-belt
- 14 Circlip 12
- 15 Circlip 10
- 16 Bearing tube
- 17 Circlip 22
- 18 Bearing
- 19 Shaft
- 20 Pulley
- 21 Key 3x8
- 22 Washer 8
- 23 Hex. Nut M8
- 24 Bracket
- 25 Short shaft
- 26 Circlip 10
- 27 Flat washer 8
- 28 Hex nut
- 29 Spring washer
- 30 Spring



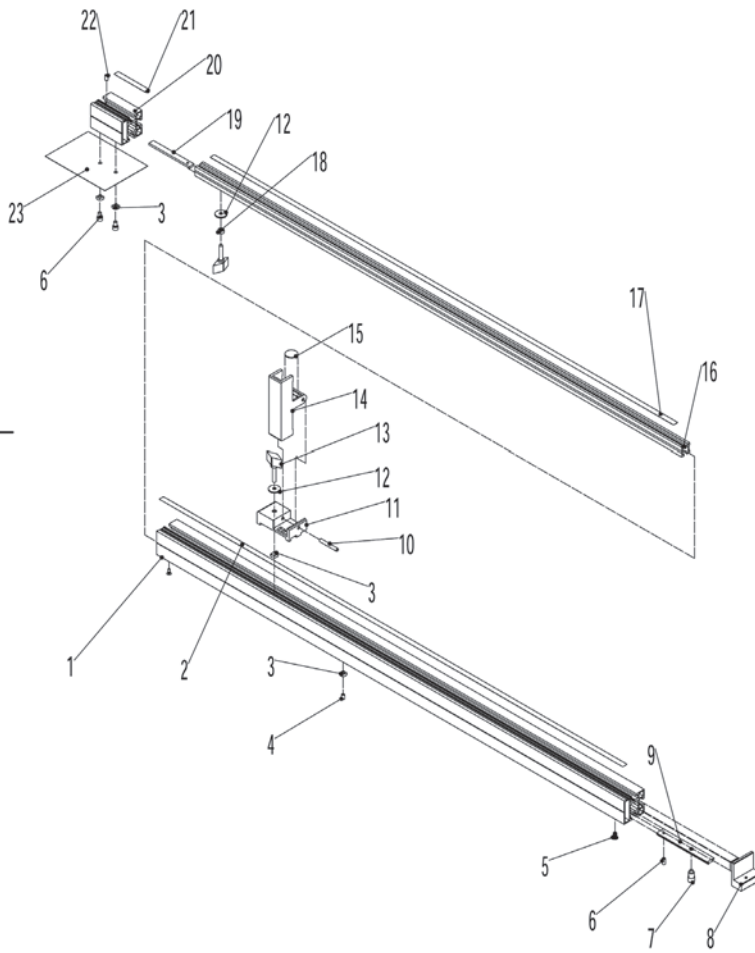
Ref No.	Description	Ref No.	Description	Ref No.	Description
1	Main table	23	Set screw M6x12	46	Hex. Socket screw M8x60
2	Table insert 1	24	Hex. Bolt M8x12	47	Locking handle
3	Table insert 2	25	Flat washer 8	48	Cam locking wheel
4	Screw M6x10	26	Spring washer 8	49	Fence rail mounting screw
5	Shield bracket	27	Fence	50	Front rail
6	Screw M5X10	28	Hex. Nut M6	51	Stop ring
7	Hex. Bolt M10X20	29	Flat washer 6	52	Set screw M6x6
8	Hex. Bolt M10X30	30	Bearing seat	53	Locking knob
9	Flat washer 10	31	Clamp bracket	54	Scale seat
10	Spring washer 10	32	Hex. Nut M6	55	Pan head screw M6x12
11	Cast iron extension table	33	Spring washer 6	56	Spring bracket
12	Hex. Bolt M10X45	34	Support bracket	57	Cam locking wheel
13	Hex. Bolt M10x25	35	Spring washer 5	58	Set screw M6x10
14	Steel extension table	36	Pan head screw M5x10	59	Fence locking level
15	Semicircular bracket	37	Hex. Socket screw M6x16	60	Scale
16	Support bracket	38	Spring	61	Hex. Socket screw M6x16
17	Extension table support leg	39	Fence seat	62	Hex. Nut M10
18	Hex. Bolt M8x25	40	Washer 12	63	Clamp bracket II
19	Washer	41	Hex. Socket screw M12x20	64	Bearing shaft
20	Hex. Nut M8	42	Micro-adjust knob	65	Bearing
21	Adusting feet	43	Nylon nut M8	66	Bearing cover
22	Rear extension table	44	Hex. Nut M8	67	Flat washer 5
		45	Locking bracket for micro-adjust		



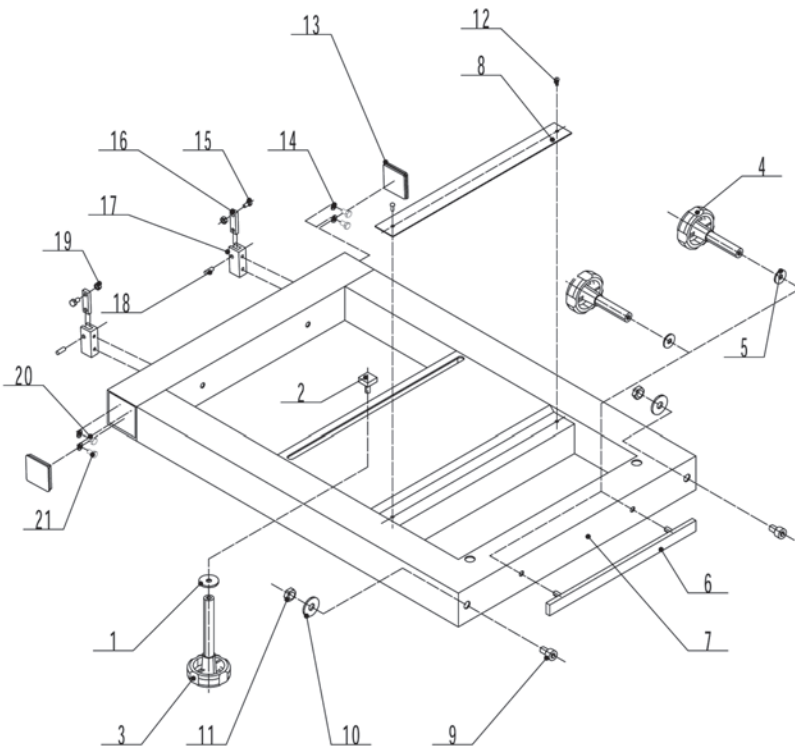
Ref No.	Description	Ref No.	Description
1	Flat washer	27	Locknut M24
2	Spring washer	28	Flat washer
3	Hex. Bolt M10X25	29	Screw M8X16
4	Trunnion bracket	30	Lock knob
5	Adjusting knob Asm.	31	Handle bolt
6	Hex. Nut M8	32	Wheel handle
7	Channel base	33	Hex. Nut M10
8	Hex. Bolt M8X60	34	Handwheel
9	Pan head screw M5X12	35	Set screw M8X8
10	Flat washer 5	36	Washer
11	Hex. Socket head screw M10X20	37	Semicircular key 5x19
12	Segment turbine	38	Set screw M5X6
13	Worm	39	Dust collector
14	Roll pin	40	Hose clamp
15	Hex. Bolt M10X30	41	Dust collecting tube
16	Worm shaft	42	Dust port
17	Position collar	43	Dust collecting tube
18	Hex. Bolt M10X30	44	Dust upper plate
19	Support bracket	45	Pan head screw M5X12
20	Shaft	46	Dust lower plate
21	Flat washer	47	Hinge
22	Hex. Nut M20	48	Rivet
23	Screw M5X30	49	Set screw M8X25
24	Flat washer	50	Pointer
25	Screw M6X14	51	Pan head screw M6X16
26	Flat washer	52	Flat washer
		53	Spring washer



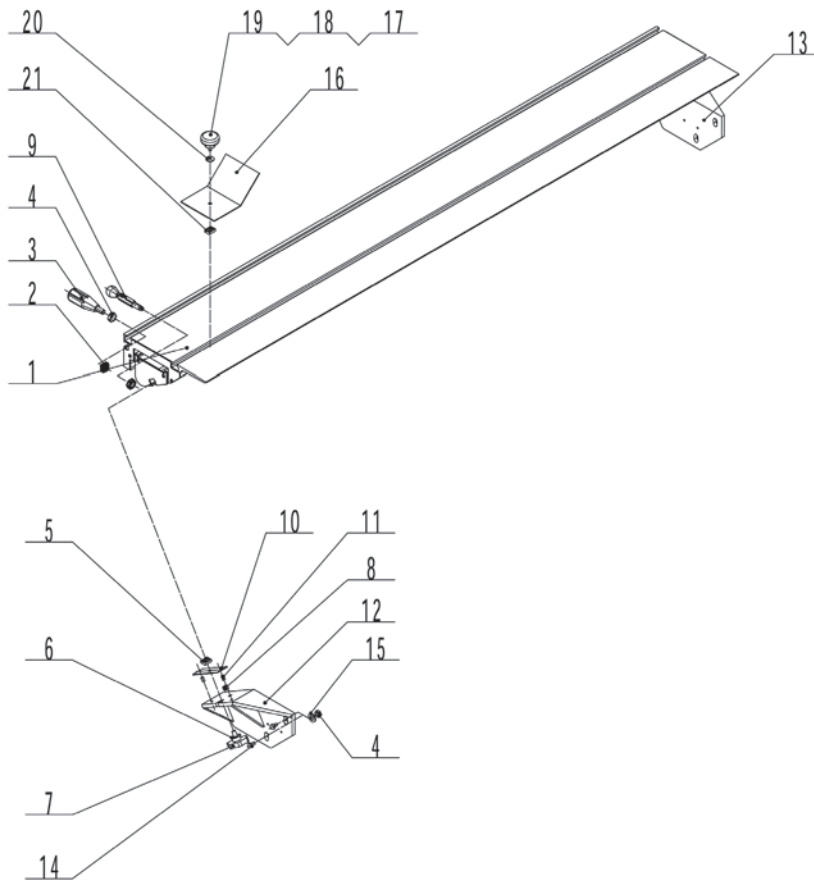
Ref No.	Description	Ref No.	Description
1	Locking knob	24	Ball bearing 61905
2	Hex. Bolt	25	Spindle tube short
3	Crank handle	26	Spindle pulley
4	Hex. Nut M10	27	Key
5	Handwheel	28	Flat washer
6	Hex. Socket screw M8x16	29	Lock nut
7	Set screw M8x6	30	Spring washer 16
8	Washer	31	Hex bolt M16x55
9	Crank handwheel shaft	32	Key
10	Key	33	Spring washer 10
11	Tube	34	Motor
12	Pin Roll 5x28	35	V-belt
13	Elevation Worm	36	Motor bracket
14	Saw blade	37	Hex bolt M10x40
15	Left hand nut	38	Key
16	Flange	39	Set screw M8x16
17	Spindle	40	Motor Pulley
18	C-Ring	41	Helical gear
19	Wave washer	42	Crank
20	Spindle tube long	43	Hex. Bolt M10x50
21	Hex socket screw M10x25	44	Hex. Bolt M8x45
22	Spacer	45	Hex. Nut M8
23	Pan head screw M3x4	46	Hex. Socket screw M10x20



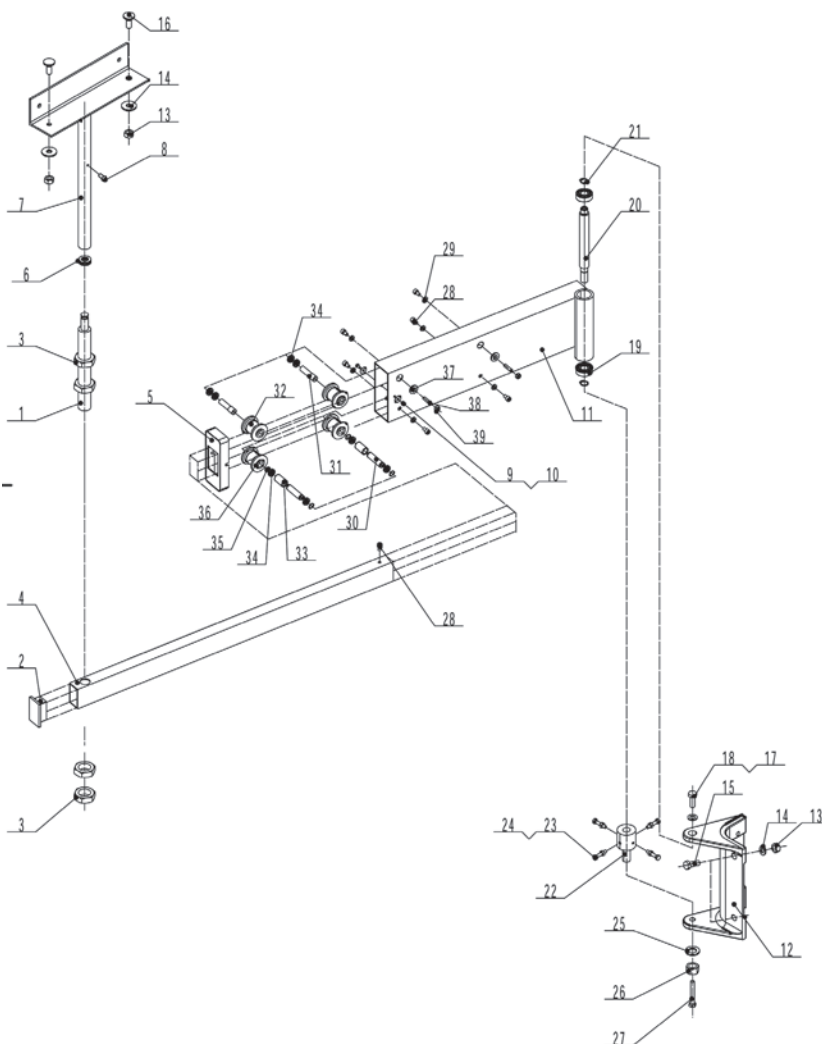
Ref No.	Description
1	Square fence
2	Scale
3	Square nut
4	Set screw M6X10
5	Tapping screw ST3.6X9.5
6	Hex. Socket head screw M6X12
7	Shaft
8	Fence end cap
9	Roll pin 6x45
10	Key
11	Sliding bracket
12	Washer 6
13	Knob
14	Flip stop
15	Magnifier
16	Extended fence
17	Scale
18	Tube
19	Bracket
20	Extended fence bracket
21	Scale
22	Set screw M5X6
23	Locate plate



Ref No.	Description
1	Flat washer 6
2	Lock block
3	Lock handle
4	Lock handle-A
5	Flat washer 6
6	Lock plate
7	Sliding table fram
8	Angle scale
9	Position screw
10	Flat washer 8
11	Hex. Nut M8
12	Rivet
13	End cap
14	Flat washer 6
15	Hex. Bolt M6X25
16	Position block
17	Mounting bracket
18	Roll pin 6x16
19	Hex. Nut M6
20	Hex. Bolt M6X8
21	Hex. Bolt M6X10



Ref No.	Description
1	Sliding table
2	Square nut
3	Handle
4	Hex. Nut
5	Square nut
6	Washer 8
7	Lock handle
8	Position screw
9	Position handle
10	Plate
11	Screw M6X12
12	Support plate, front
13	Support plate, rear
14	Hex. Bolt M10X25
15	Washer 10
16	Pressure plate
17	Knob cover
18	Knob body
19	Hex. Bolt M6X16
20	Flat washer 6
21	Square nut



Ref No.	Description
1	Support pole
2	End cap
3	Hex. Nut M20
4	Sliding tube
5	End cap
6	Bearing
7	Support bracket
8	Pan head screw M5X6
9	Screw M4X8
10	Flat washer 5
11	Swing arm
12	Mounting base
13	Hex. Nut M8
14	Flat washer 8
15	Hex. Bolt M8X25
16	Hex. Bolt M8X20
17	Hex. Bolt M10X25
18	Flat washer 10
19	Bearing
20	Shaft
21	Circlip 15
22	Adjusting base
23	Hex. Bolt M6X30
24	Hex. Nut M6
25	Washer 16
26	Nut M16
27	Hex. Bolt M8X60
28	Screw M6X10
29	Washer 6
30	Shaft
31	Eccentric shaft
32	Upper wheel
33	Tube
34	Bearing
35	Circlip 12
36	Lower wheel
37	Retaining ring
38	Set screw M6X25
39	Hex. Nut 6

EU Declaration Of Conformity

Cert No: EU / TS315 / 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: **TS315**
- 3. Serial No

Conforms with the following directives:-

MACHINERY DIRECTIVE	2006/42/EC
LOW VOLTAGE DIRECTIVE and its subsequent amendment	2006/95/EC
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE and its subsequent amendments	2004/108/EC EN 55014-1:2006 EN 61000-3-2:2006 EN 61000-3-3:1995+A1+A2 EN 55014-2:1997+A1



and conforms to the machinery example for which the
EC Type-Examination Certificate No. for Single Phase Machine: BM50166699, AN50166697, AE50109752
EC Type-Examination Certificate No. for Three Phase Machine: BM50166699, AN50166697, AE50109754
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: 01/02/2010

Andrew Greensted
Managing Director

Visit
www.recordpower.co.uk
for the full range of
Record Power products.



Woodworking Machinery



Blades



Craft Accessories



Finishes and Waxes



DVDs



Accessories



RECORD POWER
ESTABLISHED 1909®

Woodworking Machines & Accessories

Record Power Limited
Unit B, Adelphi Way
Ireland Industrial Est.
Staveley S43 3LS

Telephone: 01246 561 520
Facsimile: 01246 561 537

Email: sales@recordpower.co.uk
www.recordpower.co.uk