

# carbatec



**1 YR**  
WARRANTY

## OWNERS MANUAL

10" – 250mm ENCLOSED CABINET TABLE SAW

TS-C250H



## **WARNING!**

**Under no circumstances should CHILDREN be allowed in work areas**



**IT IS RECOMMENDED THAT YOU WEAR EAR PROTECTION WHEN USING THIS MACHINE**



## **WARNING!**

**The symbols below advise that you follow the correct safety procedures when using this machine.**



**Fully read manual  
and safety instructions  
before use**



**Ear protection  
should be worn**



**Eye protection  
should be worn**



**Dust mask  
should be worn**



**Foot protection  
should be worn**



**Two man  
assembly**



**Keep hands away  
from moving parts  
and cutting area**

# Parts Index

**Model Number:**

**MJ2325D/MJ2330D**

1 off: Saw Table on upper chassis (with motor, table insert, saw blade & NVR Switch fitted)	<b>1</b>
2 off: Side Panels and Front & Back Panels	<b>2</b>
4 off: Lower Leg Columns	<b>3</b>
1 off: Side Table Extension	<b>3A</b>
1 off: Dust Extraction Moulding 100mm	<b>4</b>
1 off: Dust Extraction Hose 100mm	<b>4A</b>
<b>Bag Containing:</b>	
8 off: M8 x 25mm Square bolts, washer and nuts	<b>4B</b>
4 off: M8 x 20mm Bolts, washers (for the connection of worktable & extension table)	
4 off: M6 x 16mm Phillips screws, washers/nuts	<b>5</b>
4 off: M8 x 16mm Bolts, washers and nuts	<b>5A</b>
16 off: M8 x 16mm Bolts, washers and nuts	<b>5B</b>
1 off Rear Extention Table	<b>6</b>
2 off: Extention Table Support Brackets	<b>7</b>
2 off: Clamping Plates with pre-drilled holes	<b>8</b>
<b>Bag Containing:</b>	
4 off: M8 x 20mm Caphead Bolts and washers	<b>9</b>
2 off Hand Wheels and locating keys	<b>10</b>
1 off: Mitre Fence and Mitre Fence Extension with clamping screw knobs	<b>11</b>
1 off: Mitre Fence Steel Plate with pre-drilled holes	<b>12</b>
1 off: Saw Guard with Phillips screw/nut and coach bolt/knob	<b>13</b>
1 off: Riving knife	<b>14</b>
1 off: M6 x 40mm Coach bolt and knob	<b>15</b>
2 off: 125mm and 50mm Hose Clips	<b>16</b>
1 off: 30mm hose	<b>17</b>
<b>Bag Containing:</b>	
1 off: Tommy Bar	<b>18</b>
1 off: Spanner for (Changing the Blade)	<b>18A</b>
1 off: Push stick	<b>18B</b>
<b>Bag Containing:</b>	
2 off: 13/17mm Spanners	<b>19</b>
Hex Keys: 3,4,5,6 and 8mm	<b>19A</b>
1 off: Instruction Manual	

1 off: Rip Fence Assembly (partially assembled)	<b>20</b>
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1 off: Short Rip Fence (front rail)	<b>22</b>
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1 off: Short Rip Fence (back rail)	<b>23</b>
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**Bag Containing:**

2 off: 'T' bolts M6 x 70mm and M6 knobs	<b>24</b>
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2 off: Plastic Capping Plates (for ends of the rip fence mounting bracket)	<b>24A</b>
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2 off: Plastic Capping Plates (for ends of front rip fence rail)	<b>24B</b>
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8 off: 4mm Round head self tapping screws	<b>24C</b>
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1 off: Micro Adjuster Assembly	<b>25</b>
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## General Instructions for 230V Machines

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### Good Working Practices/Safety

The following suggestions will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.



### **WARNING!**

**KEEP TOOLS AND EQUIPMENT OUT OF THE REACH OF YOUNG CHILDREN**

### Primary Precautions

The machines are supplied with a moulded 16 Amp plug (AW10BSB2) and 16 Amp plug (AW12BSB2) with a 3 core power cable. Before using the machine inspect the cable and the plug to make sure that neither are damaged. If any damage is visible, have the damaged item inspected/repaired by a suitably qualified person. If it is necessary to replace the plug, it is preferable to

use an 'unbreakable' type that will resist damage on site. Only use a 16 Amp plug, (AW10BSB2) and 16 Amp plug (AW12BSB2) and make sure the cable clamp is tightened securely. Fuse as required. If extension leads are to be used, carry out the same safety checks on them, and ensure that they are correctly rated to safely supply the current that is required for your machine.

### Primary Precautions

The machine is not designed for sub-aqua operation, do not use when or where it is liable to get wet. If the machine is to be used outside and it starts to rain, stop work and move it inside. If machine has got wet; dry it off as soon as possible, with a cloth or paper towel.

**DO NOT** use 230V ac powered machines anywhere within a site area that is flooded or puddled, and do not trail extension cables across wet areas.

**KEEP** the machine clean; it will enable you to more easily see any damage that may have occurred.

**CLEAN** the machine with a damp soapy cloth if needs be, do not use any solvents or cleaners, as these may cause damage to any plastic parts or to the electrical components.

**KEEP** the work area as uncluttered as is practical, this includes personnel as well as material.



### UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS

It is good practice to leave the machine unplugged until work is about to commence, also make sure to unplug the machine when it is not in use, or unattended. Always disconnect by pulling on the plug body and not the cable. Once you are ready to commence work, remove any tools used in the setting operations and place safely out of the way. Re-connect the machine. It is also recommended that you use switched supply outlets.

Carry out a final check e.g. check the cutting tool, drill bit, saw blade etc., is securely tightened in the machine, check you have the correct speed and function set, check that the cutting path of the timber is unobstructed, etc.

Most machines these days are fitted with NVR contact switches so that machines cannot remain inadvertently switched 'ON'. However, it is a good habit to train yourself to check that the machine is not 'switched on' prior to connecting the mains supply, in case you happen to be using one of the older machines.

Make sure you are comfortable before you start work, balanced, not reaching etc.,

If the work you are carrying out is liable to generate flying grit, dust or chips, wear the appropriate safety clothing, goggles, gloves, masks etc., If the work operation appears to be excessively noisy, wear ear-defenders. If you wear your hair in a long style, wearing a cap, safety helmet, hairnet, even a sweatband, will minimise the possibility of your hair

being caught up in the rotating parts of the machine, likewise, consideration should be given to the removal of rings and wristwatches, if these are liable to be a 'snag' hazard. Consideration should also be given to non-slip footwear, etc.

**DO NOT** work with cutting or boring machines of any description if you are tired, your attention is wandering or you are being subjected to distraction. A deep cut, a lost fingertip or worse; is not worth it!

**DO NOT** use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases. There are very expensive, very specialised machines for working in these areas, **THIS IS NOT ONE OF THEM.**

**CHECK** that cutters, drills, blades etc., are the correct type and size, are undamaged and are kept clean and sharp, this will maintain their operating performance and lessen the loading on the machine.

If possible always fit dust extraction to machines that are producing high rates of sawdust, shavings, chips etc. Above all, **OBSERVE....** make sure you know what is happening around you, and **USE YOUR COMMON SENSE.**

**REMEMBER, YOU ARE ULTIMATELY RESPONSIBLE FOR YOUR OWN SAFETY THIS MACHINE IS DESIGNED TO CUT TIMBER AND TIMBER DERIVATIVE PRODUCTS. DO NOT USE FOR ANY OTHER MATERIALS.**

## Specification

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Model	TS-C250H
Power	2.2kW 230V 1ph
Blade Dia/Bore	254 x 5/8"
Blade Tilt	0-45°
Max Depth of Cut @ 45°	60mm
Max Depth of Cut @ 90°	75mm
Max Width of Cut with Fence (with optional table extensions)	840mm
Max Ripping Width (with optional table extensions)	990mm
Table Size (incl side table)	800 x 830mm
Table Height	865mm
Table Size With Extensions	800 x 1,170mm
Dust Extraction Outlet	100mm
Min Extraction Airflow Required	1,000 m <sup>3</sup> /hr
Overall L x W x H	1,170 x 800 x 865mm
Weight	184kg

## Initial Assembly

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Please read through the Section entitled **Parts identification and Description**, this will enable you to more readily identify those parts of the saw to which we will be referring.



**Please note.** Some of this assembly procedure is best accomplished by two persons. Although the tasks are not impossible, some of the items are heavy and awkward, and a mishandling error could cause injury. Please think about what you are doing, your capabilities and your personal safety. We have added the 'two person symbol' to any operation that we recommend should be a two person task.

**You will require:** A pozi screwdriver in addition to the tools supplied.

Unpack all the boxes and check all the components against the **"Part's Index"**. If any parts or components are missing, please contact our customer services department using the procedures and telephone numbers listed in our catalogue, and you will be dealt with quickly and efficiently.

**Please note:** that, on occasion, the packing list is not strictly adhered to, please check all the boxes, packets etc, to make sure that all the parts have been accounted.

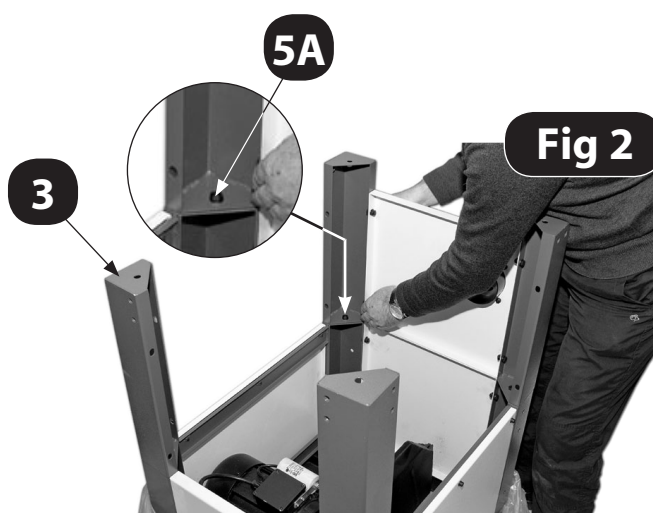
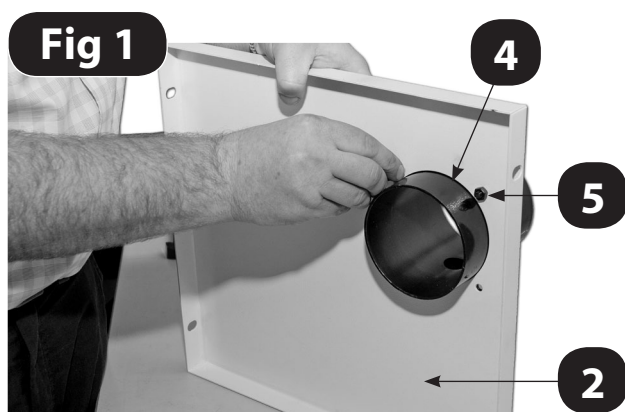


**PLEASE RECYCLE ANY UNWANTED PACKAGING RESPONSIBLY**

### Saw Body Assembly

Having unpacked the boxes, put the parts and components where they are readily to hand. Break down the main box by knocking the sides away (**be careful of exposed nails etc.**), but leave the machine sitting on its pallet. Identify the short rear panel with the dust extraction cutout (**2**), locate the dust extraction moulding (**4**) and fit to the panel using the nuts and bolts (**5**) provided. (See fig 1) (The orientation of the moulding should leave the 30mm outlet pointing upwards i.e. pointing up the long length of the panel). Put the panel aside, and locate the lower leg columns (**3**) and 4 No. M8 x 20 (**5A**) bolts, nuts and double washers. Fix the lower legs to the upper legs using a washered bolt through the legs and secure

with washer and nut, only turn the nuts up finger tight at this time. (See fig 2)



## Initial Assembly

Locate the remaining three panels (**2**) and 20 No. M8x16mm (**5B**) bolts, nuts and double washers. Take up the rear panel with the dust extraction moulding fitted and fit between the rear legs, using washered bolt through the leg and panel and securing with washer and nut. Again, secure the nuts finger tight only. (See fig 7)

**Fig 7**

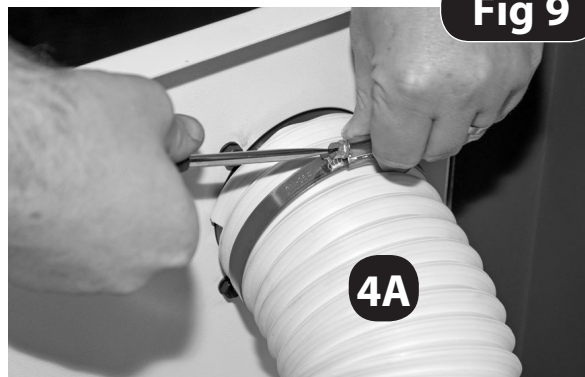


**Fig 8**



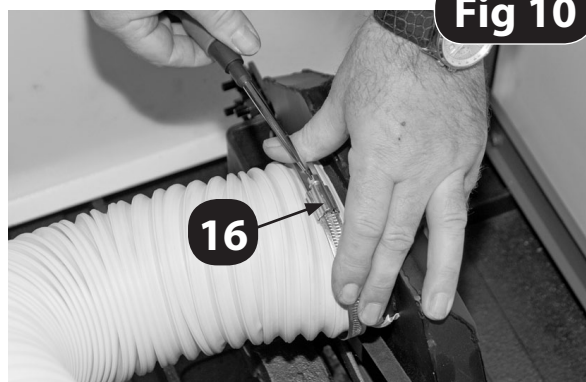
With easy open access, now is a good time to fit the dust extraction hose. Locate the hose (**4A**) and the two 125mm hose clips (**16**). Stretch the hose out to its full length. Slip the hose clips over the ends of the hose, fit the hose to the outlet on the saw box and the dust extraction moulding and tighten the hose clips to clamp them in place. (See figs 8-9-10)

**Fig 9**



Fit the hose over the dust extraction moulding and clamp in place

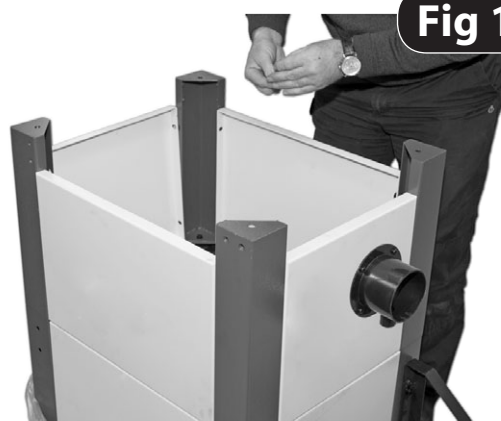
**Fig 10**



Fit the hose over to the saw box outlet and clamp in place

Fit the remaining panels to the legs, using the same securing sequence. Wriggle, push, pull, press, lever etc., the legs and the panels into the best alignment with the upper chassis and tighten the nuts and bolts using the spanners provided. (See figs 11-12)

**Fig 11**



When everything is tightened up, the machine can now be tipped over, towards its blind face until it is resting on the pallet with its legs on the floor. Lift the machine upright. (See figs 13-14)





# Initial Assembly

## Fitting Hand Wheels

Locate the two hand wheels (10). Remove the Hex screw and washer from both drive shafts and place aside. Insert a square key into each machined slot on the drive shafts and slide the hand wheels onto the shafts. Replace the Hex screws and washers and tighten securely , (See figs 17-18-19-20)

**NOTE:** Line up the key slot in the hand wheel with the square key and slide the wheel onto the shaft, tighten securely.

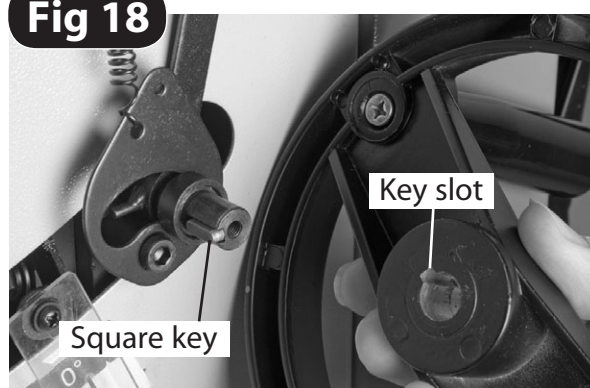
**NOTE.** Please ensure that the rise and fall **LOCK** is unlocked before operating the mechanism.

Fig 17



Drive shaft for the tilt mechanism

Fig 18



Insert the hand wheel over the shaft for the tilt mechanism

Fig 19



Fig 20



Secure the hand wheel in place using a Hex screw and washer then tighten using the supplied Hex key

## Saw Guard Assembly

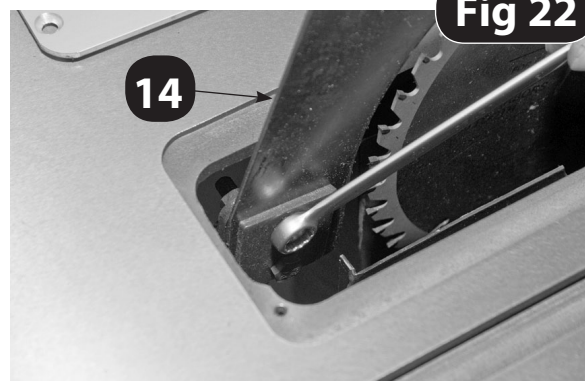
Locate the Riving Knife (14), remove the 5 screws that secure the saw gullet, place both carefully aside. (See figs 21 22) Raise the saw blade up to its highest point.

**NOTE:** The mounting plate for the riving knife has been factory set to ensure that the riving knife is aligned with the blade. **DO NOT** alter the setting bolts.

Fig 21

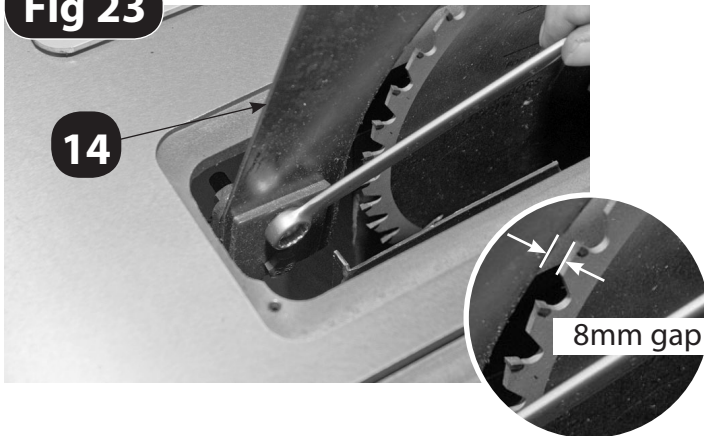


Fig 22



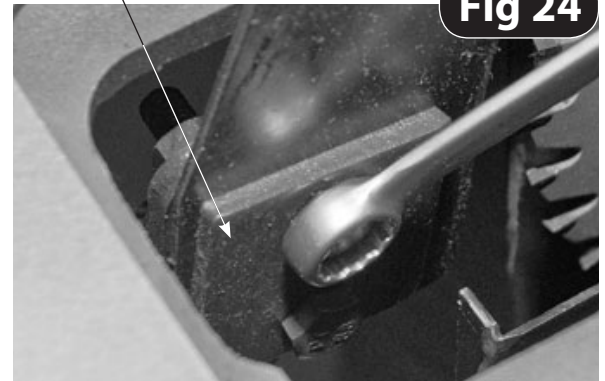
Introduce the slot in the riving knife **(14)** over the two centre line bolts, behind the washers and nip the bolts to just hold the riving knife against the mounting plate. Set the riving knife so its close to the blade, (gap with in 8mm). Tighten the clamping bolts securely. (See figs 23-24) Replace the saw gullet.

**Fig 23**



Mounting plate

**Fig 24**



Locate the saw hood guard **(13)**, the 30mm extraction hose **(17)** and the 50mm hose clips **(16)**. Introduce the pin bolt through the pre-drilled hole in the guard **(13)** and lightly screw on the clamping knob. Lower the guard so the pin bolt fits into the curved slot in the riving knife then tighten the clamping knob to pinch the guard to the riving knife. (See fig 26-27)

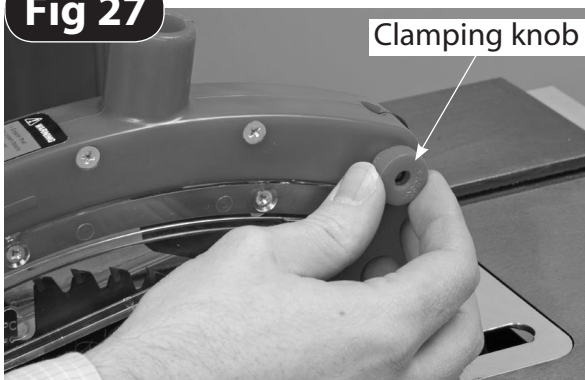
**Fig 25**



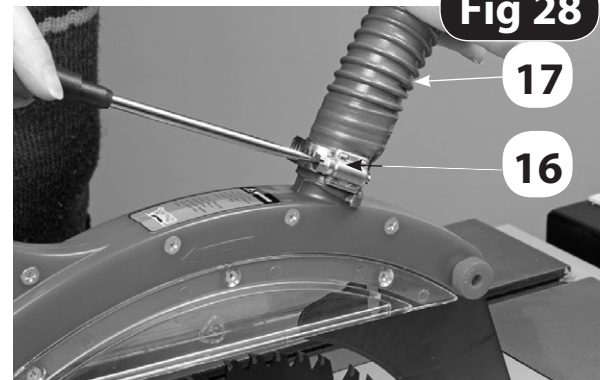
**Fig 26**



**Fig 27**



**Fig 28**



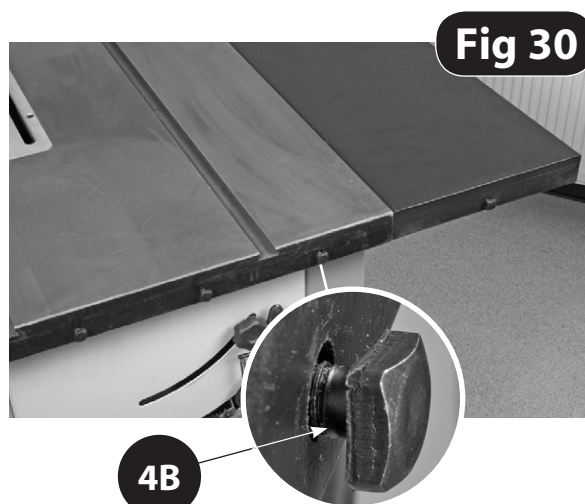
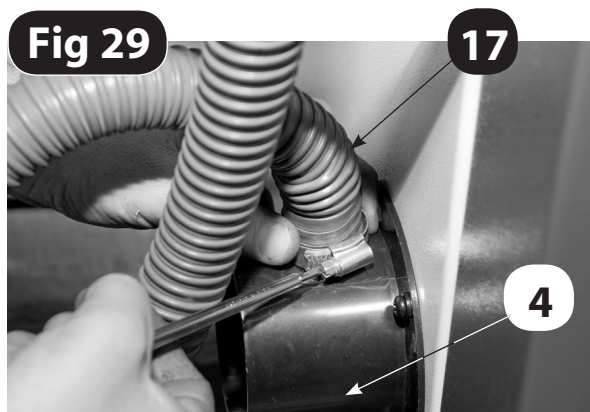
Push the hose clips **(16)** over the ends of the hose **(17)**, push the hose onto the dust extraction outlet on the guard **(13)** and the main dust extraction moulding **(4)** and tighten the hose clips to hold it in place. (See figs 28-29)



## Initial Assembly

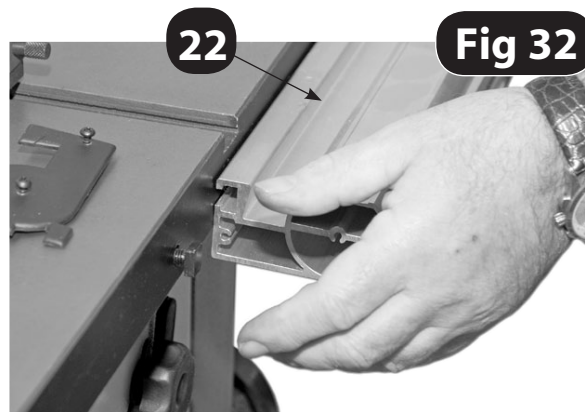
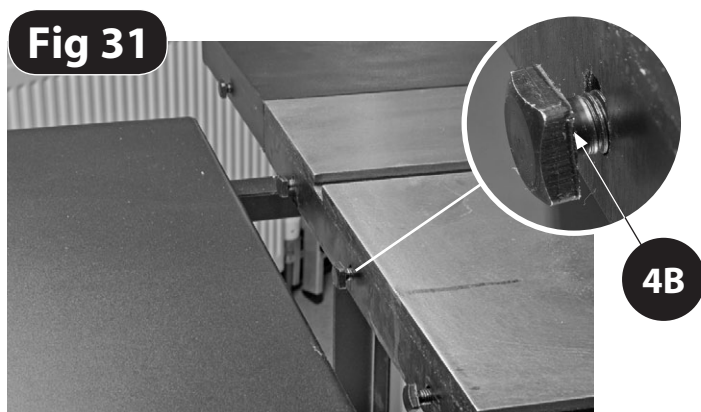
There is no requirement to remove the guard. The profile of the riving knife precludes the use of the saw for slotting or grooving, and the maximum depth of cut can be achieved with the guard in place.

**NOTE:** The positioning of the extraction hose could be a nuisance if you are cutting big boards, in such a case it is better to remove the hosing from the guard, then there is less risk getting the workpiece snagged and perhaps 'slewing' on the saw.



### Rip Fence Assembly

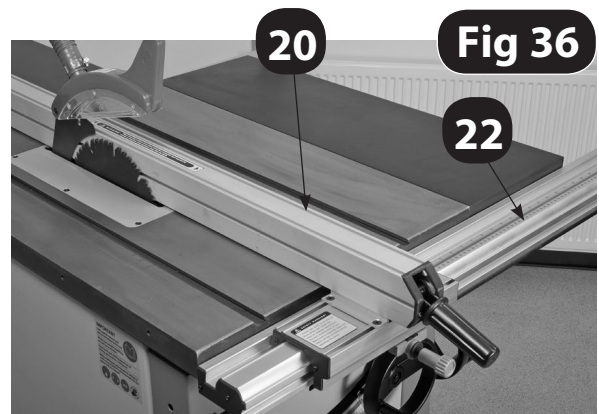
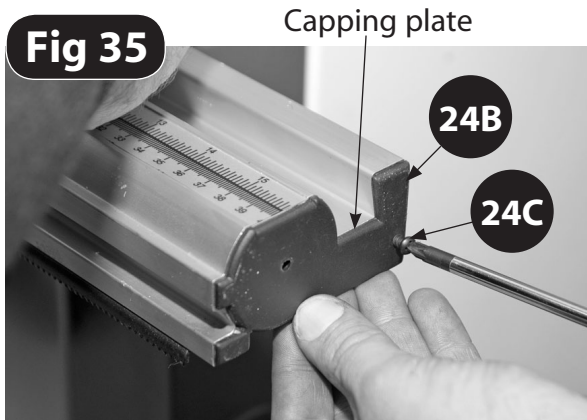
Locate the M8 x 25mm **SQUARE** head bolts washers and nuts (**4B**). The best way to fit the rails is to introduce the bolts through the holes in the front and rear edges of the tables, hold in position by adding the washer and fitting the nut a couple of turns onto the bolt. (See figs 30-31)



Select the front short rip fence guide rail (**22**), introduce the square head of the furthest right hand bolt into the channel in the extrusion; slide the rail along the front of the machine picking up all the bolt heads as you go along. (See fig 32) Reach under the table edge and lightly tighten all the nuts. (See fig 33) Repeat the process for the back rail (**23**). (See fig 34)



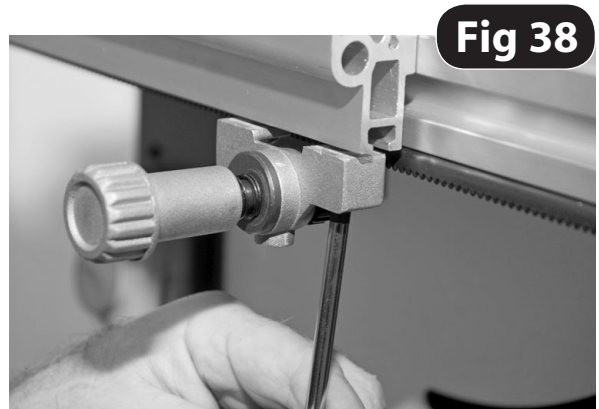
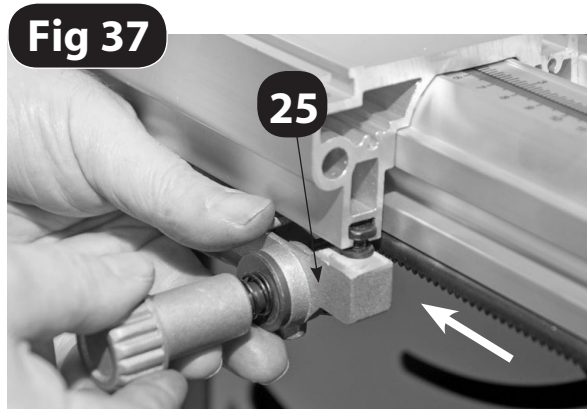
Locate the capping plates for the front rail (**24B**) and using the self tapping screws (**24C**), secure in place. (See fig 35) Set the front rail in position, remembering that it must be slightly inside the front left hand edge of the main saw table, so that the sliding table does not collide with it. Tighten **ONLY** the 3 bolts in the main saw table. Repeat the process for the back rail.



Locate the Rip Fence assembly (**20**), fit the rip fence assembly to the saw by ensuring the clamping lug at the rear of the fence is hooked over the back rail (**23**), lower the fence and manoeuvre the bracket over the front guide rail (**22**). (See fig 36)

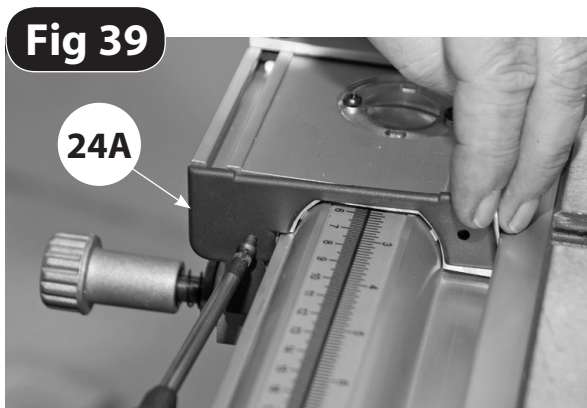
### Micro-Adjuster Assembly

Locate the Micro-Adjuster (**25**) there are two Phillips screws through the adjustor mounting bracket with square nuts on them. Ensure the nuts are undone sufficiently to allow them to slide into the channel in the Rip Fence mounting bracket, position as required, normally slightly to the right of the rip fence, (See figs 37-38) and tighten the screws securely.



Tighten the Phillips screws securely

Locate the capping plates for the Rip Fence Mounting Bracket (**24A**) and fit carefully using the self tapping screws. (See figs 39-40)



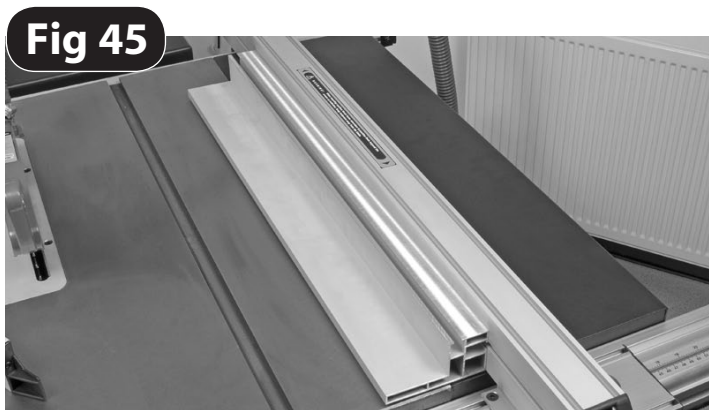
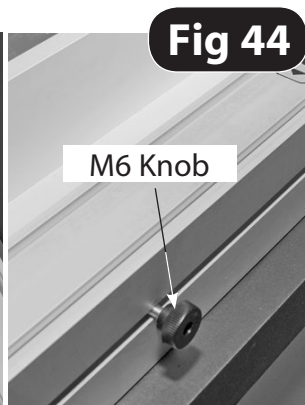
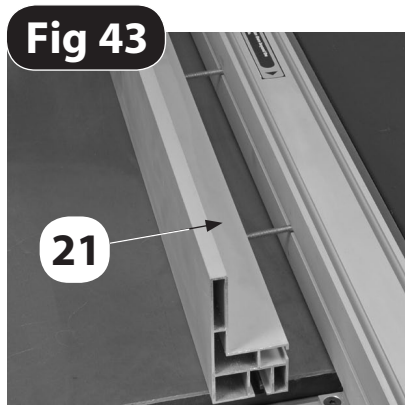
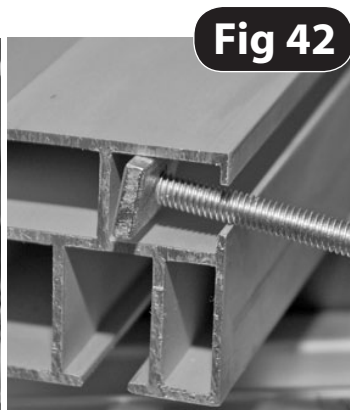
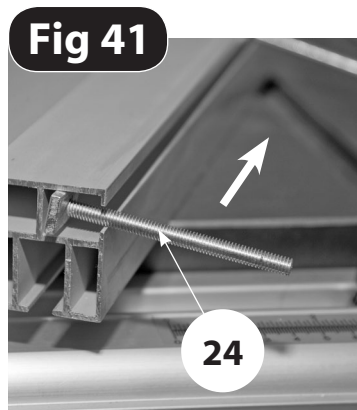


# Initial Assembly

## Rip Fence Extension

Locate the Rip Fence Extension (21), the two M6 x 70mm 'T' bolts and M6 knobs (24). Slot the two 'T' bolts into the fence extension recess, see figs 41 and 42. Slot the bolts into the pre-drilled holes in the fence extension and secure in place with the M6 knobs. (See fig 43-44)

**NOTE:** The rip fence extension (21) can be repositioned to the opposite direction for guiding thin timber pieces through. (See fig 45)



## Mitre Fence

Locate the Mitre Fence and Extension (11), loosen the clamping screw knobs on the extension and slot each into the slot recesses on the mitre fence,

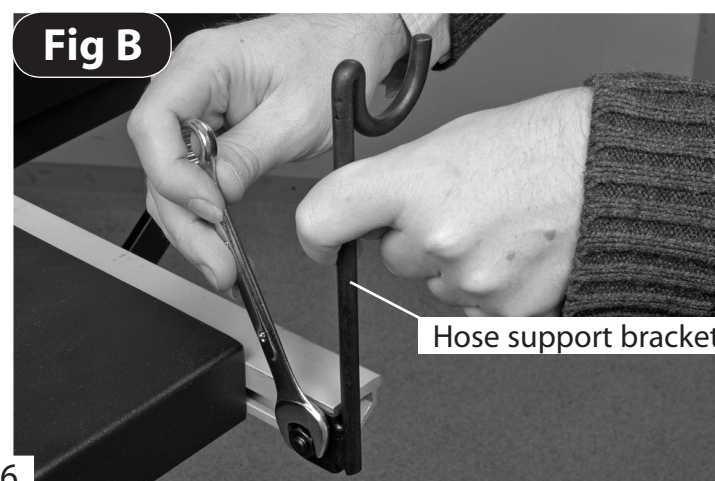
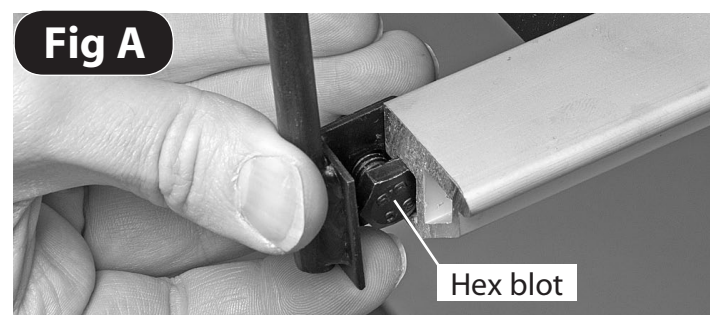
tighten to clamp the extension in place. (See fig 46) Introduce the nose of the bar (12) into the required 'T' slot in the main table. (See fig 47)

**Note:** With the rear extension table fitted it is not possible to push the small mitre fence completely through. However, the travel is such that the fence is able to travel well past the cutting edge of the saw.



## Hose Support Bracket

Locate the hose support bracket and the Hex bolt/nut. Insert the bolt through the pre-drilled hole in the bracket and loosely screw on the nut. Insert the bolt into the end of the rear guide rails 'T' slot, see fig A until the bracket support is up against the guide rail. Tighten the nut to secure the assembly in position. (See fig B)





**WARNING!! THE EXTENSION TABLES ARE VERY HEAVY YOU WILL REQUIRE A SECOND PERSON TO HELP!**

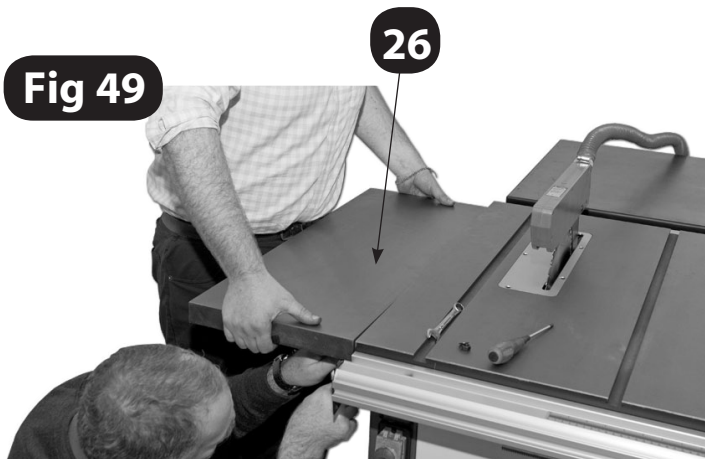
## Mounting Extension Wings

Select one of the extension tables **(26)**, locate four M8 x 30mm hexhead bolts and washers **(30)**. Ensure the table is correctly orientated (the front edge of the table is bevelled). Stand the back end of the table on the floor, close to the front and edge of the main saw table **(1)**, with the underside of the table facing the front of the saw. Lift the table up and introduce a washered bolt through the first hole in the table and screw it into the first threaded hole along the main table edge.

**Fig 48**



**Fig 49**



Screw the bolt in until it is almost home. You can now relax the lifting effort. The extension will hang pivoted on the bolt. Carefully lift the bottom end of the extension up until the edges are level and introduce a bolt and washer through the rear hole and the last threaded hole in the table edge, screw

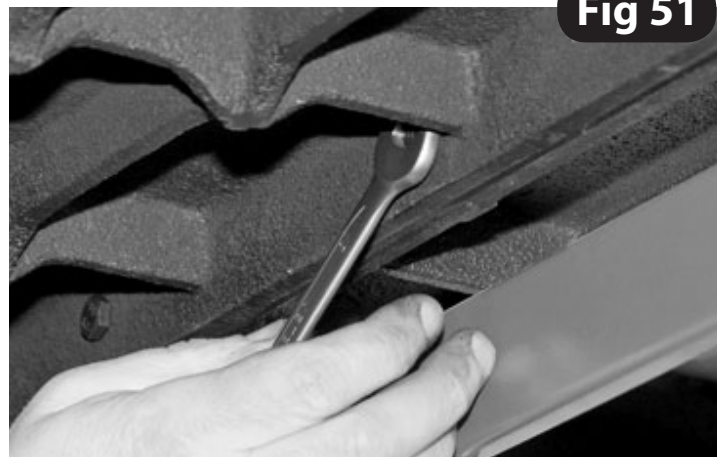
it almost home. The extension should be hanging approximately in its correct position held by the two bolts. Introduce and almost screw home the other two bolts and washers. Using a level, align the top and front edges at the front of the saw, nip the front bolt to hold the extension in place; carefully manoeuvre the rear of the extension to align the two top edges and 'nip' the rear bolt.

Check this movement has not disturbed the alignment at the front of the table, if it has, repeat the procedure until the front and top edges are aligned. Tightened all the bolts securely. (See figs 48-49-50 and 51) Repeat using the other extension table **(26)** for the opposite side of the saw bench **(1)**.

**Fig 50**



**Fig 51**



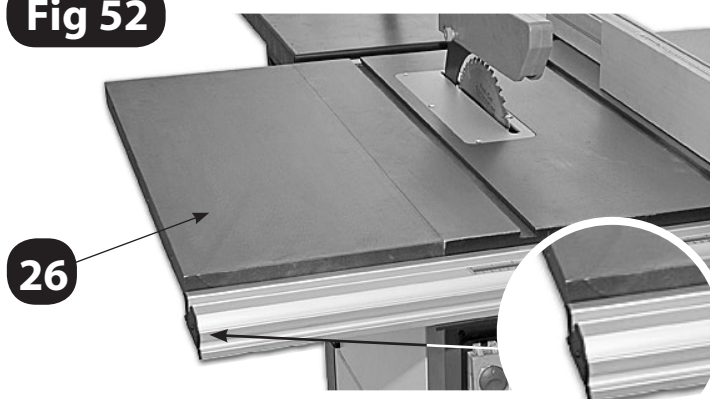


# Initial Assembly

Locate the long Rip Fence (front rail) (32) and (back rail) (33), remove the short rip fence front and back rails (22-23) from the saw bench (1), (follow the instruction on pages 14 and 15, "Rip Fence Assembly" to assemble the long rip fence rails.

**NOTE:** Make sure the both rip fence rails are parallel to the far left of the left extension table (26), (See fig 52). Replace the rip fence assembly (20) on the saw bench (1), as described on page 15.

**Fig 52**



The left extension table, with both fence rails parallel to the edge.

**Fig 53**



**NOTE:**  
Rear Extension  
not available

Table Extension Kit, (Setup 1) assembled

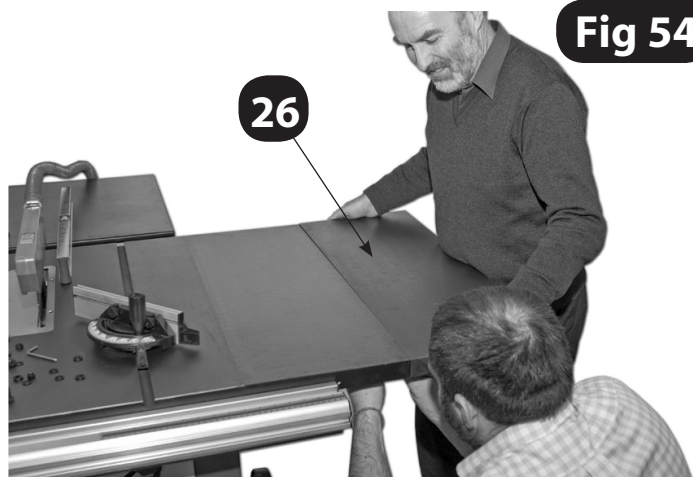
## Setup 2



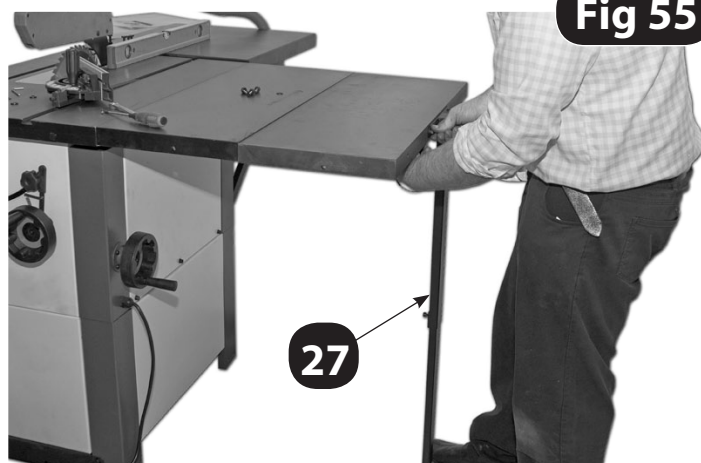
The Left extension table (26) can be repositioned to the end of the right extension table to create a large surface area, in doing so it also free's up the space to attach the sliding table assembly

First remove the rip fence assembly (20) and place safely aside, loosen both rip fence rails (32-33) and slide them to the right. Undo the four M8 x 30mm hex bolts and remove the left table. Attach the left table to the right table using the four M8 x 30mm bolts, washers and nuts as before, (**WARNING: YOU MUST ENSURE THAT THE NUTS IS FULLY ENGAGED ON THE BOLTS BY SEVERAL TURNS, BEFORE RELAXING THE LIFTING EFFORT**). Tighten all the bolts securely. (See fig 54)

**Fig 54**

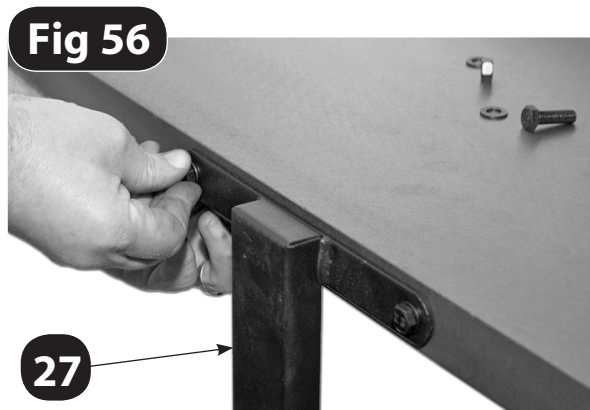


**Fig 55**

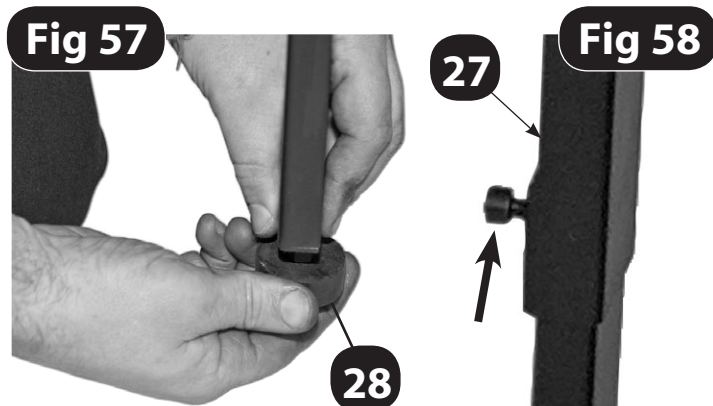


Locate the table support leg (27), the threaded rubber foot (28) and two M8 x 20mm hex bolts, washers and nuts (31).

Line up the two middle holes to outside edge of the table with the pre-drilled holes in the support leg bracket (27) and fasten securely using the M8 bolts, washers and nuts. (See figs 55-56)



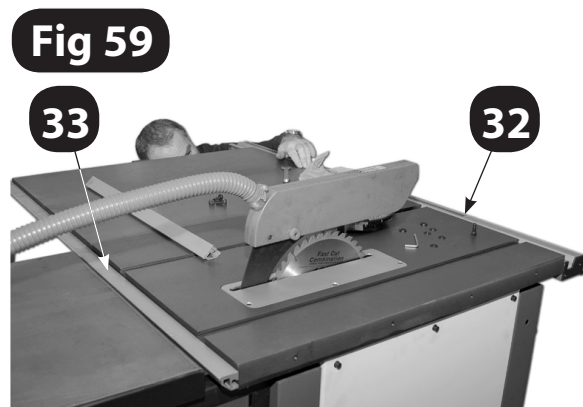
Screw the threaded rubber foot (28) on to the end of the support leg (27), until it's tight. (See fig 57) Unlock the caphead clamping bolt of the support leg and allow the inner section to slide through until the foot is resting on the floor. **DO NOT put the leg under tension at this time.** 'Nip' up the clamp bolt (See fig 58)



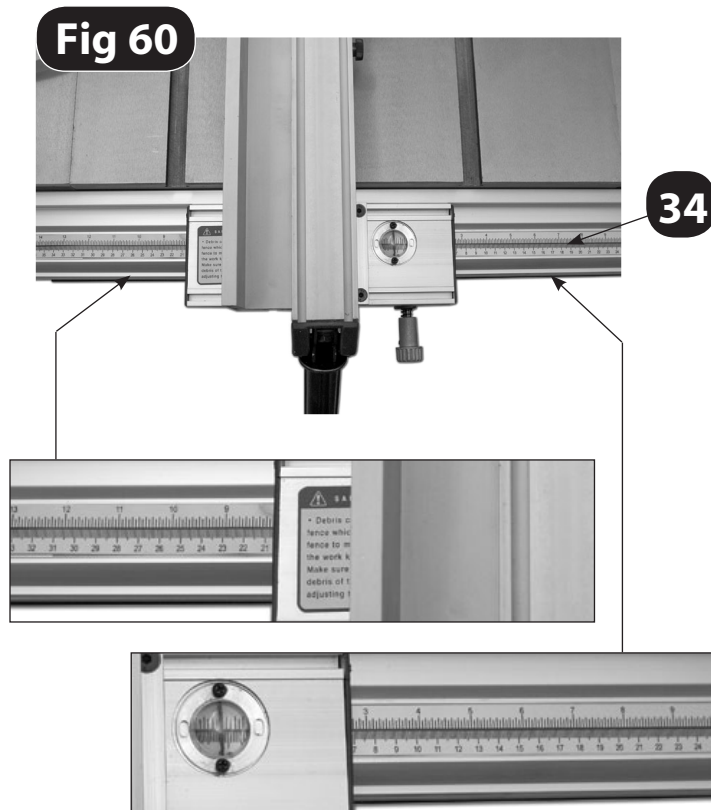
Support leg foot and caphead clamping bolt

Replace both long rip fence rails (32-33) as described on the previous page and replace the rip fence assembly (20) on the saw bench (1), as described on pages 15 and 18.

The Measuring Scale extension label (34) can be used for the different setup configurations. (See fig 60)



Replacing both rip fence rails

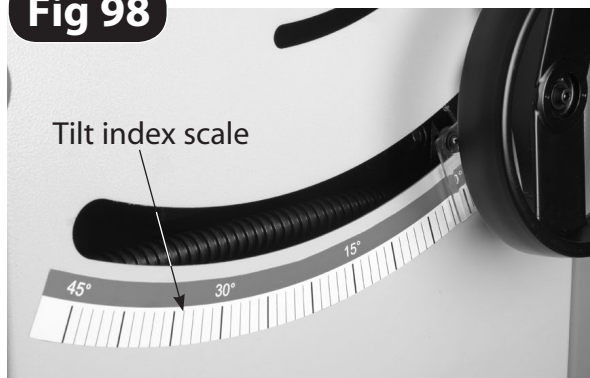


Measuring Scale Extension label

## Setting the Machine

Tilt the blade fully over. Using a mitre square, set the angle of the saw to 45°. Check that the index mark gives a corresponding reading against the scale. Adjust the pointer if necessary. Reset the blade upright, check that the angle scale reading is correct. (See figs 98-99)

**Fig 98**



Check that the index mark gives a corresponding reading against the scale.

**Fig 99**



45° Scale pointer

Set the rip fence a predetermined distance from the saw blade and lock in position. Check that the rip fence is held securely when it is locked in position. If the locking appears a little 'slack' adjust the position of the clamping lug at the rear of the rip fence by tightening the nut. **(A)** Check that the preset distance corresponds to the measurement on the scale against the index mark in the magnifying lens. If not, adjust the position of the rip fence on its mounting bracket.

**Fig 100**



**Fig 101**

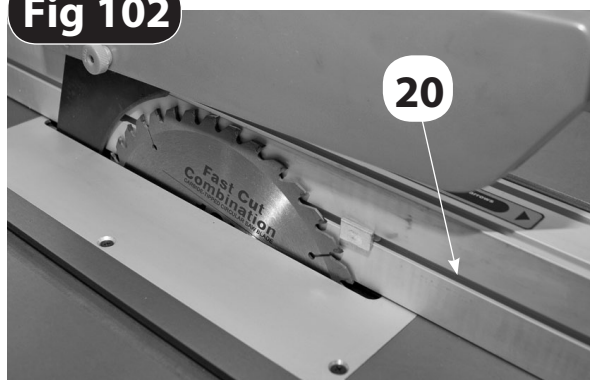


Index mark

### Setting the Rip Fence (See figs 102-103)

Check that the fence **(20)** is parallel to the saw blade by sliding the fence up against it, press the clamping lever down to lock the fence in position. If you find the fence is not perpendicular to the blade loosen the three clamping bolts beneath the front rail, see fig 33 and maneuver the front rail until correct. Re-tighten the three clamping bolts. **NOTE:** Lubricate the fence rails and the underside of the rip fence clamp assembly **(20)** with a ptfе dry lubricant, so the fence assembly runs smoothly back and forth.

**Fig 102**



**Fig 103**





## Setting the Mitre Fence

Fit the small mitre fence **(11)** to the machine. Loosen the clamping handle **(A)**.

**NOTE:** There are 3 preset positions available with the small mitre fence. **+45°**, **0°**, and **-45°**, these are achieved using lugs in the casting and a push/pull pin against which the lugs are stopped. The pin has to be fully withdrawn to allow the fence to pivot from one side to the other.

Set the face to zero angle using the preset position.

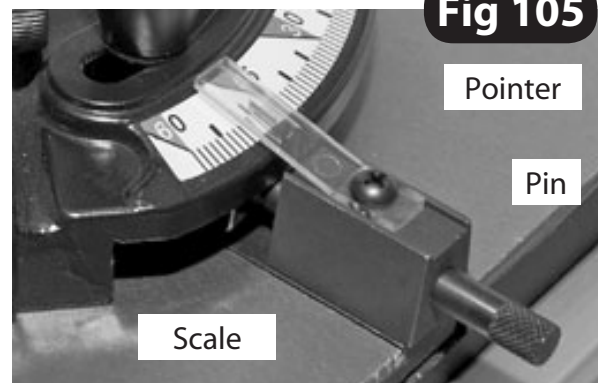
Check that the angle is correct (and the lug is on the correct side of the pin). Check that the indexing pointer gives the correct reading against the scale. Adjust the pointer if necessary. Check left and right positions. Check the pointer is still correct. If the preset positioning is wrong, set the fence with a square/mitre gauge, set the pointer accurately against the scale and clamp the fence in position without recourse to the presets. Remove the small mitre fence from the table and stow carefully aside. (See figs 104-105)

**Fig 104**



Fit the small mitre fence **(11)** into the machines 'T' slot. Loosen the clamping handle **(A)**.

**Fig 105**



Check that the indexing pointer gives the correct reading against the scale.

## Checking the Belt Tension

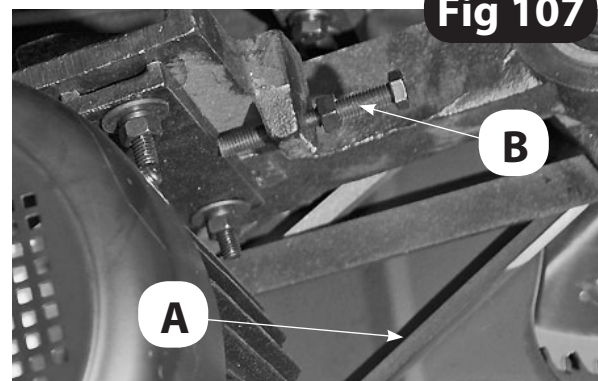
Check the belt tension, see figs 106-107, the belt should be tight, but not unduly so. Remove all tools and stow away. Check that the machine tables are clear. Lower the saw to leave about 25mm protruding, set the saw upright.

**Fig 106**



Motor assembly

**Fig 107**



Belt **(A)** and Belt tensioner bolt **(B)**



**CHECK that everything that should be tight, is tight; saw blade guard, rise and fall lock mechanism, fence clamps etc.**



## Setting the Machine

---

**Connect the machine to the mains supply, lift the switch shroud and give the machine a quick burst. i.e. On/Off. Check that everything is sound and feels O.K. (No knocking, scraping, belt squeal, rubbing etc.,)**

**Give the machine a longer run, and 'SLAP' the Emergency switch shroud down. Check that this gives a fast and easy method of switching the machine off, without searching for the stop switch button.**

When you are happy that everything seems O.K. switch the machine off, disconnect from the mains supply. Locate the two upper side panels and their fixing bolts and secure them in place.

## Specific Instructions/Precautions for the Saw Bench

---

**Make** sure the saw blade is the correct type for the job in hand.

**Do not** force the saw, if the saw begins to stall you are forcing the cut or over working the saw.

**Ensure** that the saw blade is clean and sharp. Resin build up on the blades will increase the friction of the saw passing through the timber, and cause over heating of the blade, blunt teeth will work harder tearing the fibre of the timber as opposed to shearing it, also with subsequent overheating. Both faults unnecessarily load the machine beyond normal usage, and shorten its longevity.

**Do not** use blades that are deformed in any way.

**Do not** remove the blade guard. The design of the riving knife on the machine will not allow for slotting or blind grooving, so there is no reason to remove the guard. There is adequate clearance under the guard for the capacity of the machine (75mm).

**Do not** remove the riving knife. **Do not** use any blades that cut a smaller kerf than the riving knife thickness.

**Make sure** the riving knife is correctly adjusted to the blade and is securely fastened.

If the table insert becomes damaged or broken, and will not support the timber 'up close' to the blade, replace it.

**Do not** start the saw with the workpiece touching the blade.

**Do not** commence sawing until the blade has run up to full speed.

After switching off, **never** try to slow the saw down more quickly by applying side pressure to the blade. **Apply** the old joiner's adage of never getting hands within one handbreadth of the blade. **Leave** the machine disconnected from the mains supply until you are about to commence work. Always disconnect the machine if you are leaving it unattended.

**Never** leave the vicinity of the machine unless the blade has come to a complete stop.

**Do not** attempt to carry out any maintenance, corrective work, setting up etc., unless the machine is disconnected from the mains supply.

If any tools have been used during setting up procedures, make sure they are removed from the machine and stowed safely away.

**Do not** attempt to carry out cross cutting operations freehand, always use the mitre fence for small stuff and the sliding carriage for larger work pieces.

Unless you are an experienced machine operator, do not attempt to rip freehand, always use the guiding facility of the rip fence. It is perfectly acceptable to support guide and feed the timber with your hands whilst ripping stuff of some length, however, as you approach

## Specific Instructions/Precautions for the Saw Bench

the blade ensure that the push stick is to hand, and you use it.

**Remember** the emphasis of the push should be between the blade and the fence and close to the fence. Use your free hand to support and guide the material on the offside of the saw blade and at least 100mm away from it. If the timber does not extend to at least 100mm to the offside of the saw blade, the material possibly? does not need guiding or supporting.

**Check** (especially on site), that there are no

foreign objects e.g. old nails, screws, small stones etc embedded in the material you are about to cut. If necessary take a wire brush to the timber before working.

If you are being assisted whilst using the saw (by a take off or support number, remember there is only one sawyer at a machine, and they stand in front of it. The assistant does not push, pull, guide etc., unless specifically asked or instructed to do so by the sawyer.

## Operating Instructions



**NOTE:** Before using your table saw, go round and make sure everything is secure, down, that all tool, are cleared away from the work area.



**CHECK** the blade for sharpness, missing teeth, resin buildup, etc., clean if necessary **CHECK** the blade is securely clamped in place. (i.e. not loose).



### WARNING!

**UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN THE WORK AREA AND KEEP TOOLS AND EQUIPMENT OUT OF REACH OF YOUNG CHILDREN**

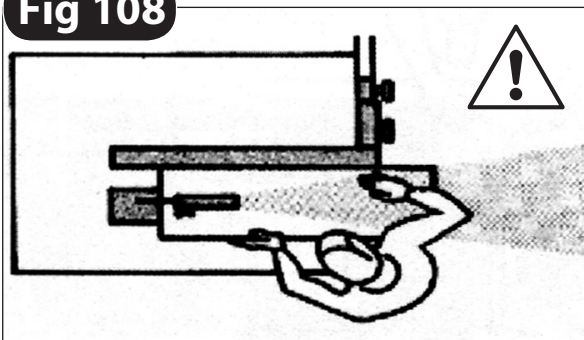
#### Feeding Work by Hand



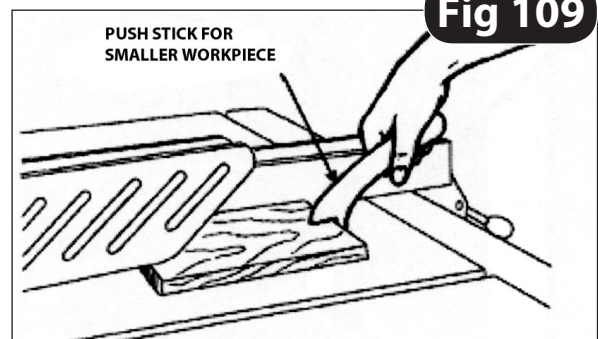
### CONNECT A DUST EXTRACTION MACHINE TO THE SAW

Start up the saw, wait until it has reached full speed and slowly feed the timber through using both handles, (**making sure to keep your hands well clear of the blade and using a push stick for small pieces**), until the timber is behind the riving knife. Switch off the saw, wait until the blade has come to a complete stop and remove the timber. (See figs 108-109).

**Fig 108**

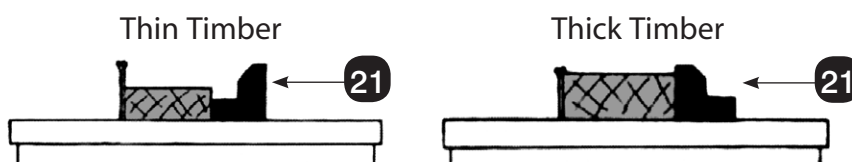


**Fig 109**



**NOTE:** Secure larger pieces of timber to the table by using the clamp assembly (37), see page 23.

Use the small flat surface of the fence (21) to cut thin timber narrower than 120mm. (**Use a push stick**).



## Changing the Saw Blade



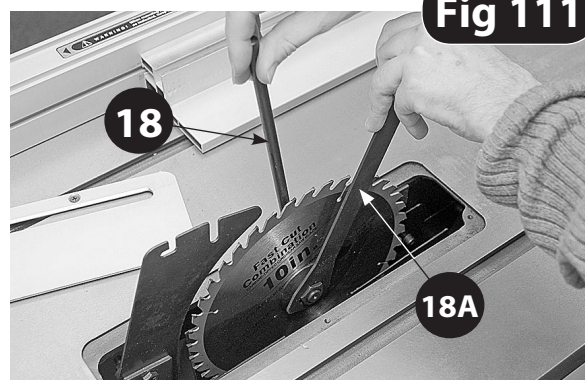
**WARNING! DISCONNECT THE MACHINE FROM THE MAINS!**

Raise the saw blade to its highest point. Remove the saw blade guard. Remove the 5 screws that secure the table insert, place carefully aside and remove the table insert. **(A)** Using the spanner and the tommy bar provided, put the spanner onto the flats on the nut. Turn the saw until the tommy bar hole **(B)** is visible. Insert the tommy bar **(18)** and turn the saw to allow it to rest against the front edge of the saw slot. The tommy bar hole is in the inside platewasher component. (See figs 110-111-112)

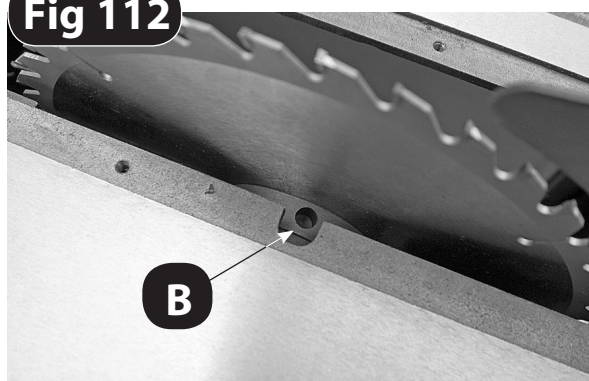
**Fig 110**



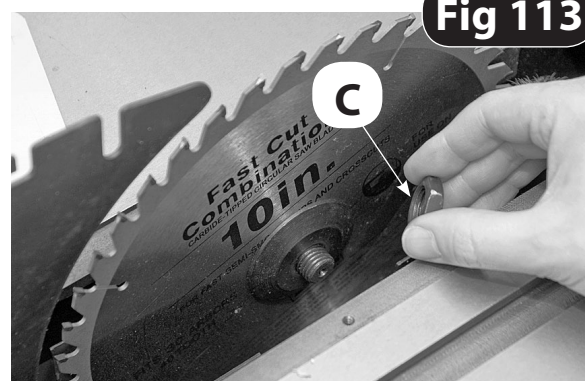
**Fig 111**



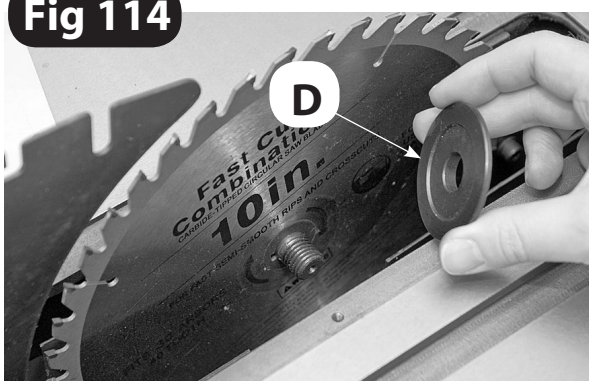
**Fig 112**



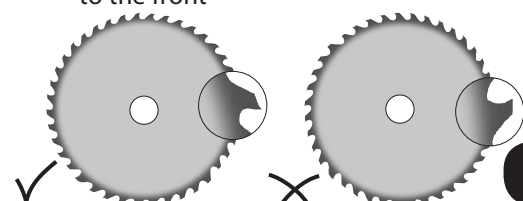
**Fig 113**



**Fig 114**



Teeth pointing  
to the front



**Fig 115**

Slacken off the saw nut (remember left hand thread). Remove the saw nut **(C)**, then remove the sawplate washer **(D)** and the saw blade. Now is a good time to give the interior of the machine, the dust extraction channels, etc. a thorough clean. (See figs 113-114)

Check the new blade for damage, missing teeth, sharpness etc. Fit the new blade, ensure that the teeth are pointing towards the front of the machine. (See fig 115) Put the sawplate washer onto the shaft and twist on the saw nut. Spin the nut up finger tight and check the saw is correctly seated.



## Changing the Saw Blade

Tighten up the saw nut, using the tommy bar to hold the shaft steady. Check the riving knife is aligned with the saw blade, and correctly positioned. Replace the table insert and secure with the 5 screws. Replace the saw blade guard. When everything is satisfactory, turn the saw blade once by hand to check it doesn't foul anywhere. Reconnect the machine to the mains supply.

Give the machine a 'quick' burst check ( i.e. quick ON-OFF) to ensure everything is O.K. If everything is satisfactory, continue to use the machine. Check the old blade for sharpness, missing teeth, resin buildup, etc., clean if necessary and send for refurbishment/resharpening if required. If the blade is not to be re-sharpened, clean and pack away in its stowage case.

## Maintenance

Keep the saw as clean and free from saw dust build up as is practical. Periodically, remove the saw gullet and vacuum out and clean out the saw box and the extraction housing. Remove any resin build up in the saw box, using a proprietary resin cleaner.

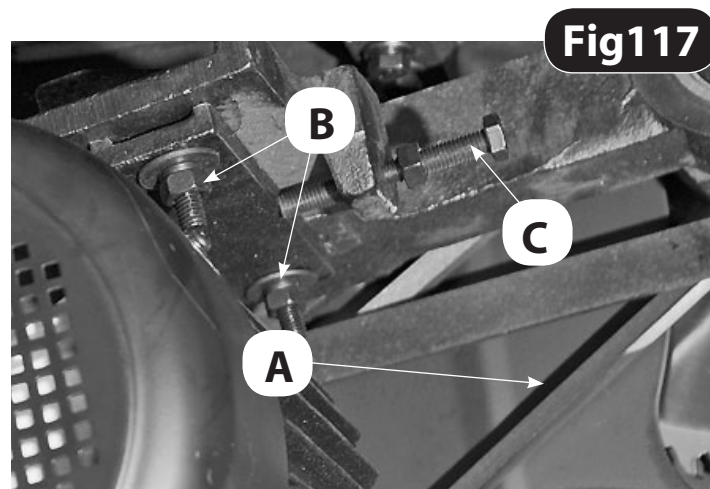
Remove the upper side panels and clean the threaded drive shafts of the rise and fall and tilt mechanisms. At the same time check the belt drive, i.e. the belt is not 'glazing' with resin build up, likewise with the pulley wheels. Check the belt tension. If the belt **(A)** is becoming slack, loosen the motor hold down bolts **(B)** and drive the motor

backward with its adjusting bolt **(C)**. (See figs 116-117) Check the saw blade regularly for chipped, missing, damaged teeth etc. and remove any resin build up from the blade, riving knife etc.

If you have finished using the saw bench, clean above and below the work table and using a damp cloth wipe the saw bench over. If the saw bench is not going to be used for a period of time, use a rustproofing spray (see our catalogue), spray a light coat over the work table and place a dust sheet over the saw bench.



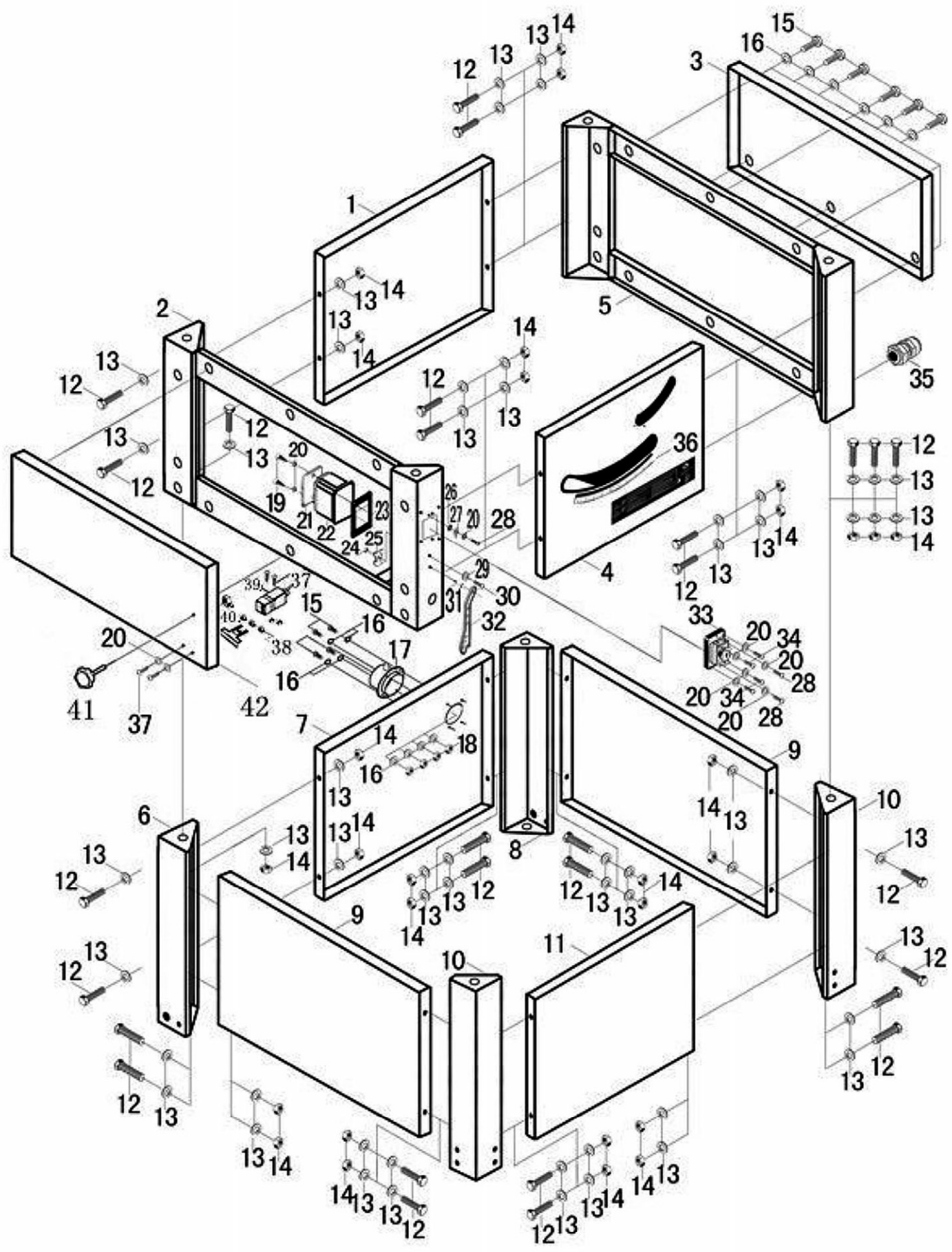
Motor assembly



Belt **(A)**, Motor hold down bolts **(B)** and Belt tensioner bolt **(C)**

# Parts Breakdown/List

DIAGRAM A

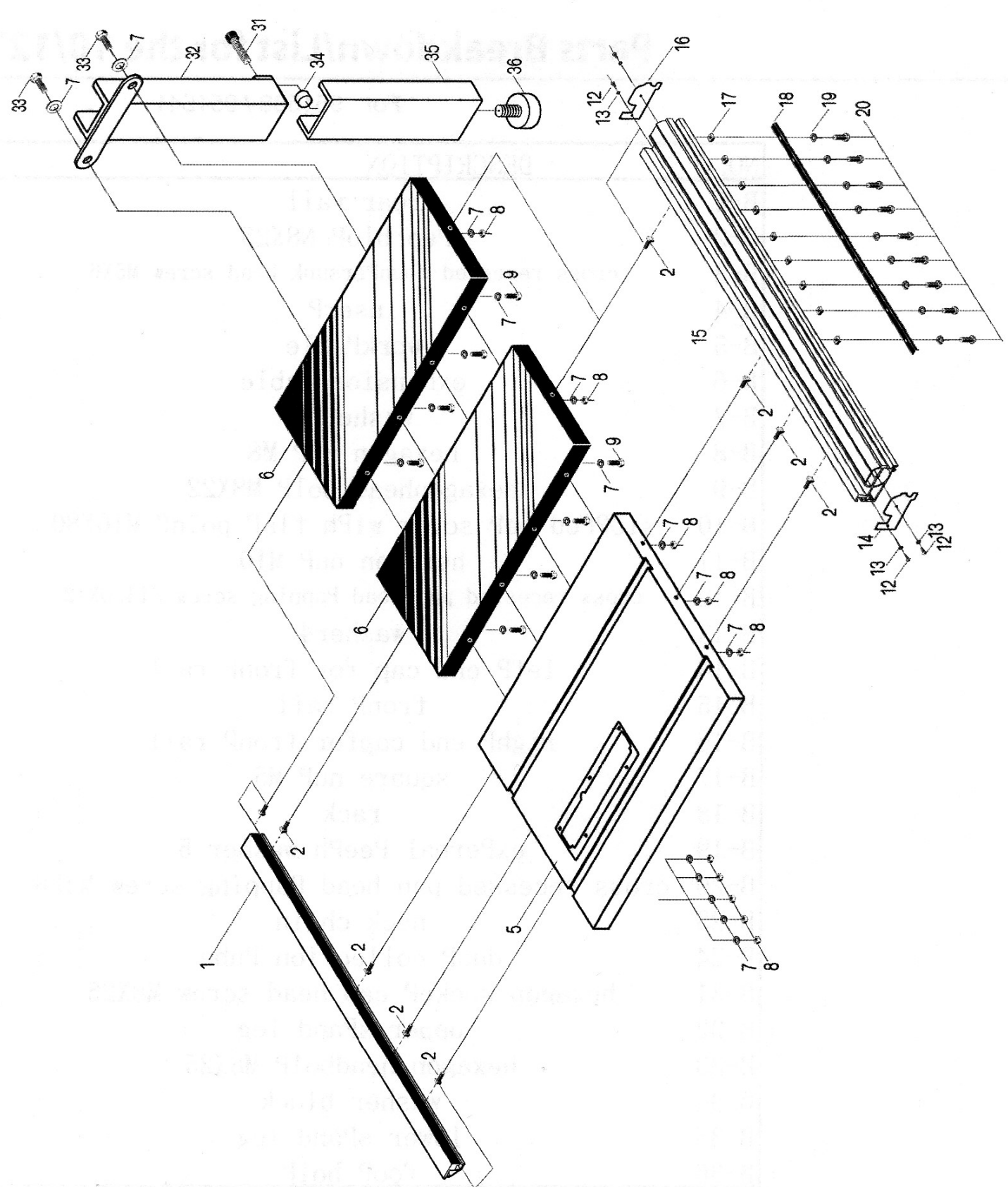


## Parts Breakdown/List

NO.	DESCRIPTION	Qty
A-1	Front panel	1
A-2	Left frame	1
A-3	Side panel	2
A-4	Real panel	1
A-5	Right frame	1
A-6	Left leg	1
A-7	Front side board	1
A-8	Right leg	1
A-9	Right and left side board	2
A-10	Real leg	2
A-11	Real side board	1
A-12	Hexagon head bolt M8X20	28
A-13	Washer 8	56
A-14	Hexagon nut M8	28
A-15	Corss recessed pan head screw M6x22	16
A-16	Washer 6	20
A-17	Tie-in	1
A-18	Hexagon nut M6	4
A-19	Pan head tapping screw ST4X12	2
A-20	Washer 4	11
A-21	Switch bottom board	1

A-22	Switch house	1
A-23	Rubber washer of switch house	1
A-24	Hexagon nut M5	1
A-25	Wire strain	1
A-26	Externalteeth lock washer	1
A-27	Earth-plate	1
A-28	Cross recessed pan head screw M4X10	3
A-29	Washer 5	1
A-30	Cross recessed pan head screw M5X20	1
A-31	Nut	1
A-32	Push stick	1
A-33	Switch	1
A-34	Cross recessed pan head screw M4X16	6
A-35	Cablegland	1
A-36	Label	1
A-37	Cross recessed pan head screw M4X30	2
A-38	Nut M4	4
A-39	Microswitch	1
A-40	Lock nut M8	1
A-41	Flower handle	1
A-42	Door	1

DIAGRAM B Part 2



## Parts Breakdown/List

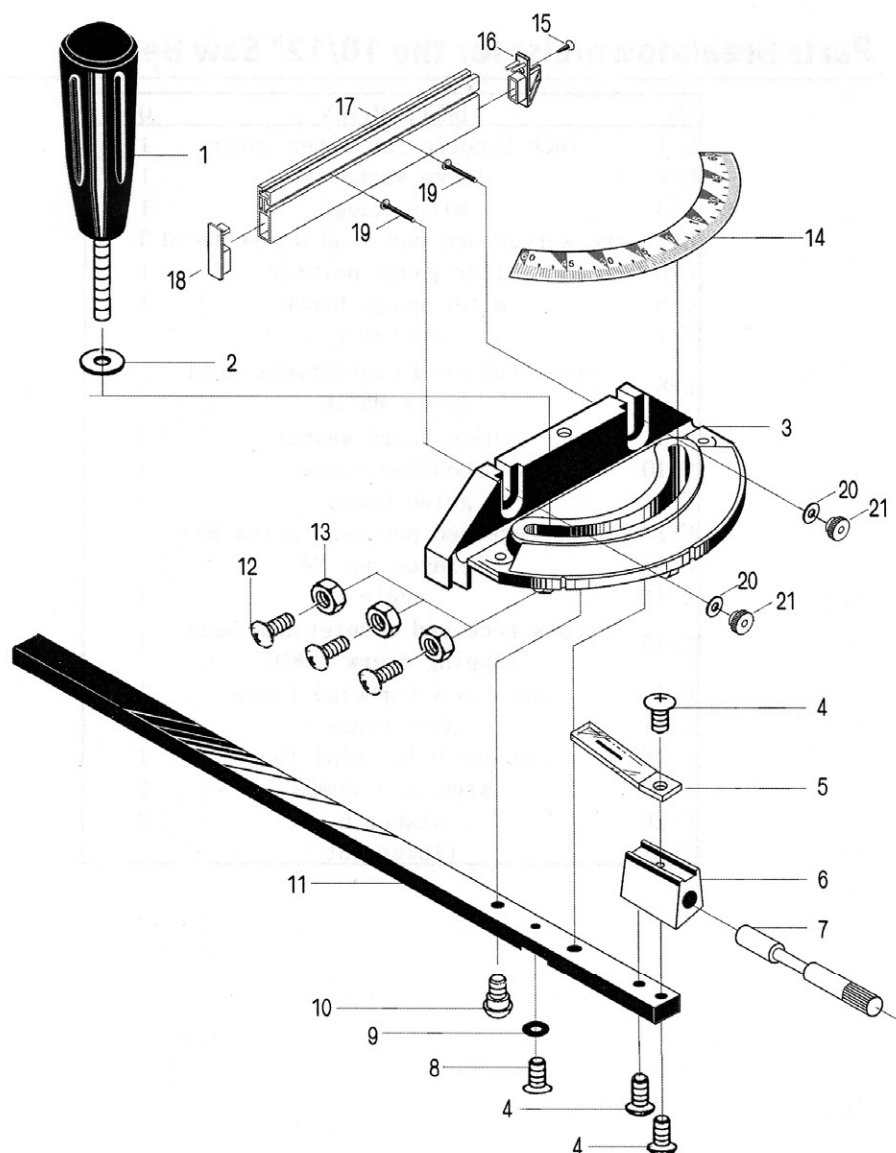
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### DIAGRAM B Part 2

NO.	DESCRIPTION	Qty			
B-1	Rear rail	1	B-14	Left end cap for front rail	1
B-2	Step blot N8X25	10	B-15	Front rail	1
B-3	Cross recessed countersunk head screw M5X6	5	B-16	Right end cap for front rail	1
B-4	Insert	1	B-17	Square nut M5	12
B-5	Worktable	1	B-18	Rack	4
B-6	Extension table	2	B-19	External teeth washer 5	12
B-7	Washer 8	32	B-20	Cross recessed pan head tapping screw M5x8	12
B-8	Hexagon nut M8	12	B-23	neck chain	2
B-9	Hexagonhead bolt M8X22	8	B-24	dust collection tube	1
B-10	Slotted set screw with flat point M10X80	4	B-31	Hexagon socket cap head screw M8x25	2
B-11	Hexagon nut M10	12	B-32	Upper stand leg	2
B-12	Cross recessed pan head tapping screw ST4.0X12	4	B-33	Hexagon head bolt M8x25	4
B-13	Washer4	4	B-34	Washer block	2
			B-35	Lower stand leg	2
			B-36	Foot bolt	2



DIAGRAM C

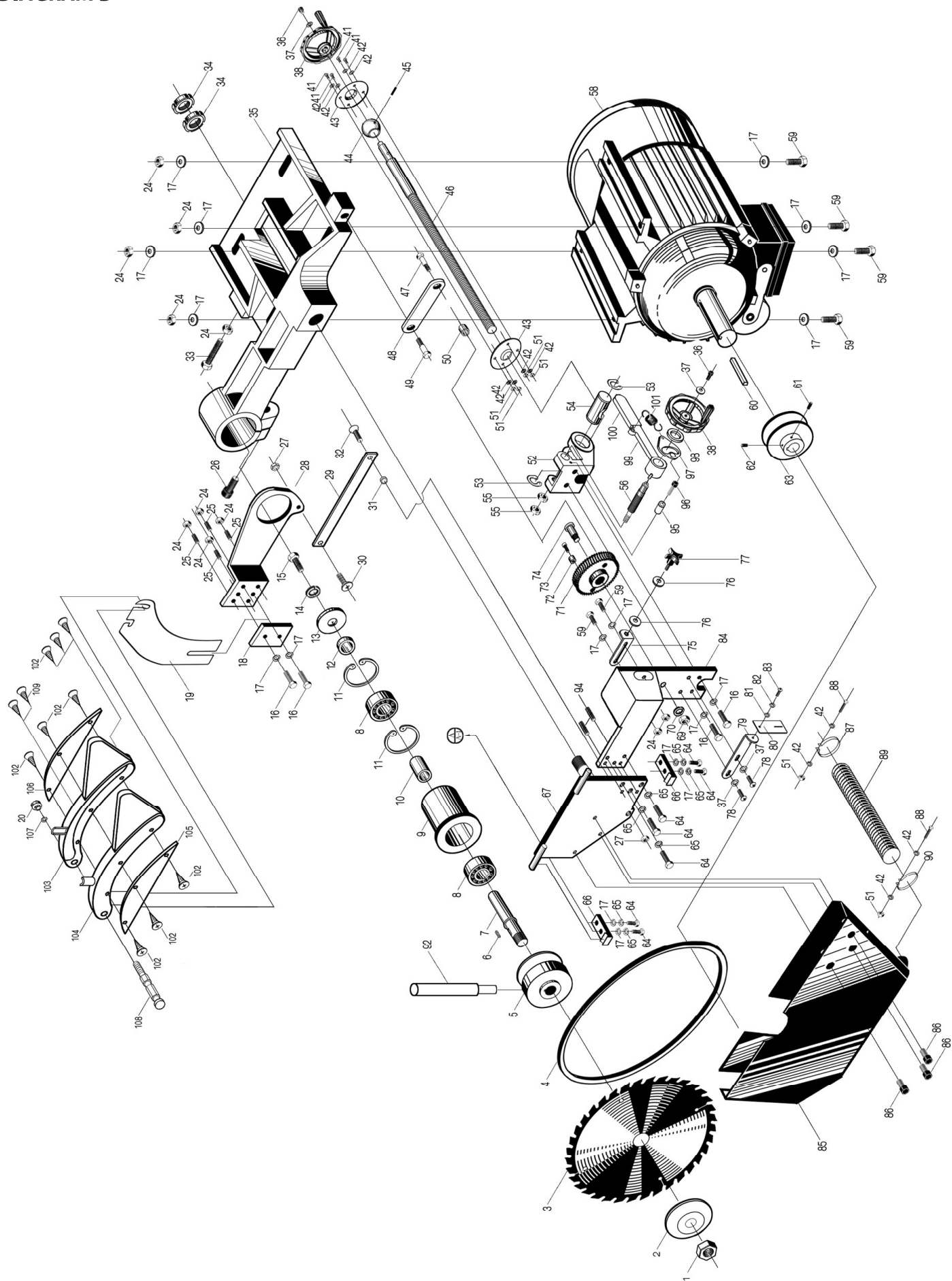


NO.	DESCRIPTION	Qty
C-1	Lock handle for miter gauge	1
C-2	Large washer 8	1
C-3	Mitre gauge	1
C-4	Cross recessed pan head screw M5x10	3
C-5	Mitre gauge pointer	1
C-6	Mitre gauge block	1
C-7	Stop pin	1
C-8	Cross recessed countersunk head scerw M5x10	1
C-9	Guide board washer	1
C-10	Shoulder screw	1
C-11	Guide board	1

C-12	Cross recessed pan head screw M4x8	3
C-13	Hexagon nut M4	3
C-14	Scale	1
C-15	Cross recessed countersunk head tapping scerw M5x10	1
C-16	End cap A for dial fence	1
C-17	Dial fence	1
C-18	End cap B for dial fence	1
C-19	Step bolt M6x35	2
C-20	Washer 6	2
C-21	Flower nut	2

# Parts Breakdown/List

DIAGRAM D

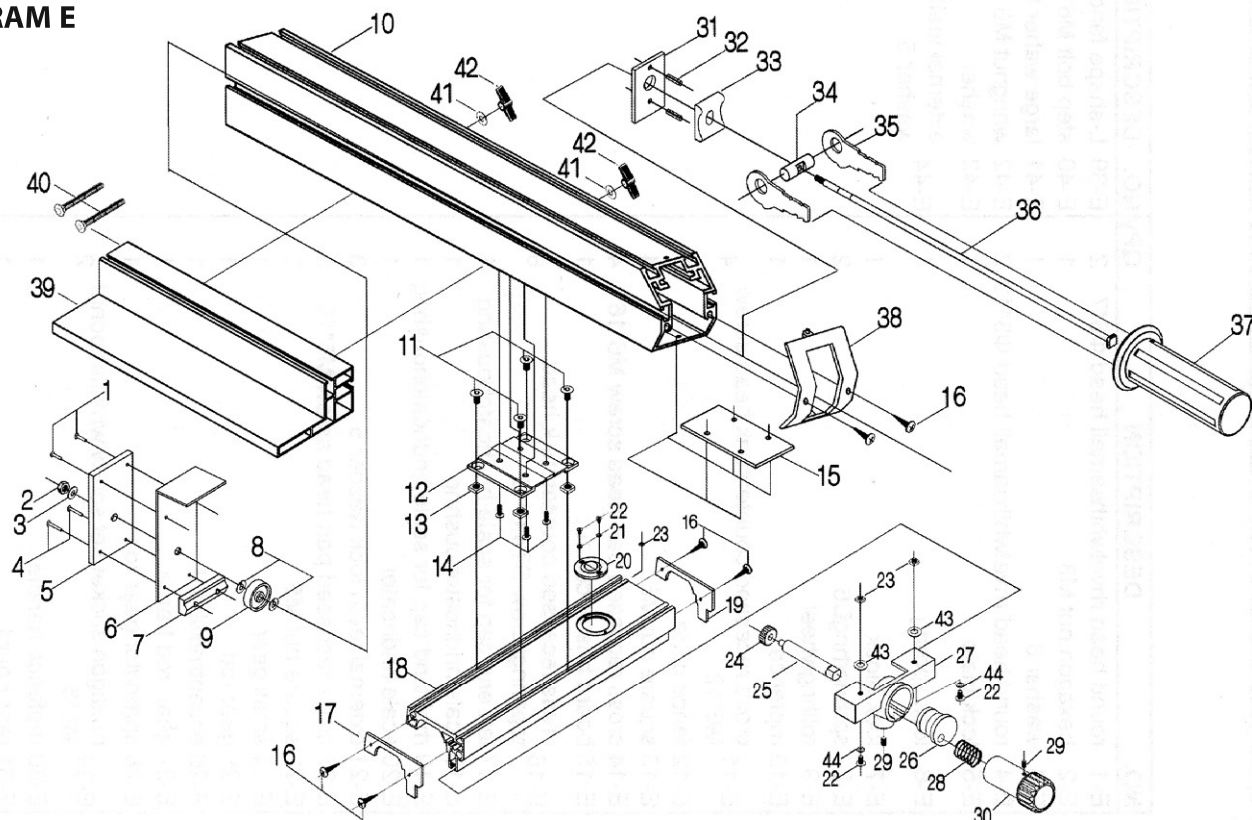


## Parts Breakdown/List

NO.	DESCRIPTION	Qty			
D-1	Blade nut M16( left-hand)	1	D-55	Thin nut M12	2
D-2	Outer blade washer	1	D-56	Height adjusting rod	1
D-3	Blade	1	D-58	Motor	1
D-4	A-blet	1	D-59	Hexagon head bolt M8X40	6
D-5	Pulley	1	D-60	Key 8X7X50	1
D-6	Key (A-type)	1	D-61	Hexagon socket set screw with	1
D-7	Arbor shaft	1		Flat point M6X9	
D-8	Bearing 80203	2	D-62	Hexagon socket set screw with	1
D-9	Arbor shaft sleeve	1		Flat point M6X6	
D-10	Arbor shaft bush	1	D-63	Motor wheel	1
D-11	Circlips for hole	2	D-64	Hexagon socket cap head screw M8X24	7
D-12	Arbor shaft end bush	1	D-65	Single coil spring lock washer 8	7
D-13	Press wheel	1	D-66	Rotation press block	2
D-14	Single coil spring lock washer 6	1	D-67	Adjusting cradle	1
D-15	Hexagon head bolt M6X16	1	D-69	Hexagon nut M12	1
D-16	Hexagon head bolt M8X20	4	D-70	Single coil spring lock washer 12	1
D-17	Flat washer 8	18	D-71	Worm-wheel	1
D-18	Press board for riving knife	1	D-72	Eccentric sleeve	1
D-19	Riving knife	1	D-73	Hexagon socket cap head screw M8X30	1
D-20	Flower nut	1	D-74	Worm-wheel shaft nail	1
D-24	Hexagon nut M8	11	D-75	Locking block	1
D-25	Hexagon socket set screw with	4	D-76	Large washer 8	2
	Flat point M8X25		D-77	Flower bolt	1
D-26	Hexagon socket cap head screw M10X30	1	D-78	Cross recessed pan head screw M5X12	2
D-27	Locking nut with plastic insert M8	2	D-79	Pointer bracket	1
D-28	Riving knife bracket	1	D-80	Pointer	1
D-29	Connecting rod	1	D-81	Flat washer 4	1
D-30	Cross recessed countersunk head	1	D-82	Single coil spring lock washer 4	1
	Screw M8X20		D-83	Cross recessed pan head screw M4X10	1
D-31	Bush	1	D-84	Adjusting worm-wheel bracket	1
D-32	Cross recessed countersunk head	1	D-85	Dust collection cover	1
	Screw M8X20		D-86	Hexagon socket cap head screw M6X18	3
D-33	Hexagon head bolt M8X65	1	D-87	Neck chain	1
D-34	Locking nut for motor base	2	D-88	Hexagon head bolt M6X25	2
D-35	Motor base	1	D-89	Dust collection tube	1
D-36	Hexagon socket cap head screw M5X12	2	D-90	Elliptic neck chain	1
D-37	Large washer 5	4	D-92	Tommy Bar	1
D-38	Hand wheel	2	D-94	Elastic lock	1
D-41	Cross recessed pan head screw M6X16	4	D-95	Lock nail bush	1
D-42	Flat washer 6	12	D-96	Hexagon socket cap head screw M6X25	1
D-43	Ball bracket	2	D-97	Active board	1
D-44	Thread rod ball	1	D-98	Active board block	1
D-45	Spring dowel 4X28	1	D-99	Lock handle	1
D-46	Adjusting thread rod	1	D-100	Handle sleeve	1
D-47	Worm-wheel connecting rod nail A	1	D-101	Lock handle spring	1
D-48	Worm-wheel connecting rod	1	D-102	Taping screw ST4.2X10	9
D-49	Worm-wheel connecting rod nail B	1	D-103	Blade guard,half	1
D-50	Connecting rod bush	1	D-104	Blade guard,half	1
D-51	Hexagon nut M6	6	D-105	Segment,blade guard	1
D-52	Adjusting frame	1	D-106	Segment,blade guard	1
D-53	Circlips for shaft D=24	2	D-107	Lock washer 8mm	1
D-54	Knuckle	1	D-108	Lock bolt,guard	1
			D-109	Taping screw ST4.2X26	2

# Parts Breakdown/List

DIAGRAM E



NO.	DESCRIPTION	Qty
E-1	Round head rhvetwhthsamall head $\phi 3 \times 7$	2
E-2	Hexagon nut M8	1
E-3	Washer 8	1
E-4	Round head screw $\phi 3 \times 13$	2
E-5	Lock plate	1
E-6	Lock sprhng	1
E-7	Lock block	1
E-8	Spacer washers D6	2
E-9	Bearing	1
E-10	Rip fence	1
E-11	cross recessed countersunk head screw M6x12	4
E-12	Fence Plate	1
E-13	Square nut M6	4
E-14	Cross recessed pan head screw M6x16	4
E-15	Board hnsteadof nut	1
E-16	Cross recessed countersunk head tapphngscrew ST4.0x12	6
E-17	Left end cap for scale rail housing	1
E-18	Scale rail housing	1
E-19	Right end cap for scale rail housing	1
E-20	Scale indicator	1
E-21	External teeth lock washer 5	3

E-22	Cross recessed pan head screw M5x10	3
E-23	Square nut M5	3
E-24	Small gear	1
E-25	Gear rod	1
E-26	Eccentric wheel	1
E-27	Gear rod frame	1
E-28	Spring for gear rod	1
E-29	Hexagon socket set screw with flat point M6x5	2
E-30	Ripfence handle	1
E-31	Rear board	1
E-32	Pin nut $\phi 5 \times 16$	2
E-33	Rear block	1
E-34	Lock eccentric rod	1
E-35	Lock eccentric	2
E-36	Rip fence lock rod	1
E-37	Rip fence handle	1
E-38	Rip fence cover	1
E-39	L-shape fence	1
E-40	Step bolt M6x70	2
E-41	Large waher 6	2
E-42	Wing nut M6	2
E-43	Washer	2
E-44	External teeth washer 5	2

1

YEAR

WARRANTY

# WARRANTY

## 1. WARRANTY

- (a) We warrant that this **carbatec** product will be free from defects caused by faulty workmanship or faulty materials for a period of **1 year from date of sale**.
- (b) This warranty is in addition to other rights and remedies you may have under a law in relation to the goods.
- (c) This warranty does not apply in any of the following cases:
  - (i) defects arising from:
    - (1) fair wear and tear;
    - (2) corrosive atmosphere;
    - (3) damage or injury caused by deliberate act, lack of care or failure to comply with the recommended care and maintenance for the goods;
    - (4) improper use of the goods;
    - (5) alterations or repairs (not made by us) to the goods;
  - (ii) defects arising from an event outside of our control such as fire, flood, earthquake or other natural calamity, motor vehicle or other accident, strike, civil unrest, terrorism or war;
  - (iii) to accessory items such as after-market jigs, accessories or other items which are not sold or serviced by us and which are not sold with or were not included with the main unit purchased; or
  - (iv) to wearable parts such as drive belts/shafts, bearings, bandsaw tyres, motor brushes, blades or abrasive belts/discs or other cutting or machining implements.
  - (v) damage caused to any electrical component, where connected to a power supply outside the country for which it was designed (namely Australia or New Zealand).
- (d) If this warranty applies and you have complied with the procedure below for making a claim, we will, at our election, either repair the goods (or those parts of the goods recognised as defective) or will provide a replacement within a reasonable time at our expense.
- (e) If this warranty applies, the procedure for making a claim is:
  - (i) you must contact us by email;
  - (ii) you must include in the email the following information:
    - (1) a copy of the order or receipt for the goods;
    - (2) the serial or batch number printed on the machinery manufacturing plate; and
    - (3) a detailed description of the fault and how and when it arose; and
  - (iii) if the fault is a type covered by this warranty, we will then make arrangements with you for the return of the goods to us (for repair or replacement) at our cost using our transport providers or we may decide to attend at your premises to repair or replace the goods.
- (f) Our liability (and that of our resellers) under this warranty is wholly limited to repair or replacement of the goods (or those parts of the goods recognised as defective) in accordance with the procedure above and you have no right to other compensation, costs or damages under this warranty. But this does not mean that you may not have other rights under a law in relation to the goods.
- (g) If following our inspection of goods returned by you under this warranty it is found that this warranty does not apply and you are not otherwise entitled to repair or replacement by us, you must, if requested by us, reimburse our costs including parts, labour and freight.
- (h) This warranty is not transferable and only the person who purchased the goods may make a claim.
- (i) Where the goods have been exported outside Australia or New Zealand, the Company may not require the Purchaser to return any allegedly faulty or defective Product for evaluation. However, the Company has the right to request the return for evaluation at purchasers cost.

## 2. STATUTORY NOTICE

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## 3. CONTACT DETAILS

Carbatec Pty Ltd ABN 84 010 706 242

info@carbatec.com.au | Phone 1800 658 111 | [www.carbatec.com.au](http://www.carbatec.com.au)

128 Ingleston Road, Wakerley, QLD Australia 4154

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**carbatec**