

AP254SB Saw Bench & AP305SBD Table Saw 230V



AP254SB

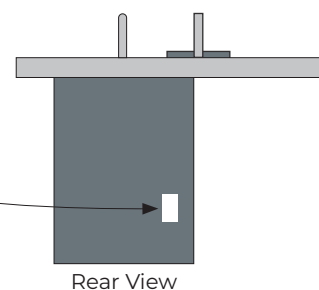


AP305SBD

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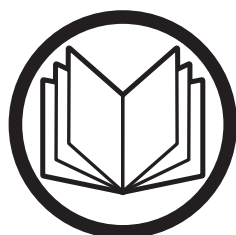
The machines **Serial Number** is located on the specification label as shown.



A	Rip-Fence Assembly
B	Front Fence Rail
C	Rear Fence Rail
D	High and Low Aluminium Sub Fence
E	Cast iron extension tables, 2 with AP305SBS, 1 with AP254SB
F	Rear Extension Table
G	Rear Extension Table Angle Support Brackets
H	Mitre Fence
I	Push Stick
J	Crown Guard

K	Riving Knife
L	Flexible Hose Support Bracket + Fixings
M	Four Hose Clips
N	Dust Extraction Port
O	Operating Handwheel Knobs
P	63mm Short Hose
Q	63mm Long Hose
R	Tool Kit
S	Bolt Pack
T	Main Table Saw

The symbols below advise 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



HAZARD

Fig A

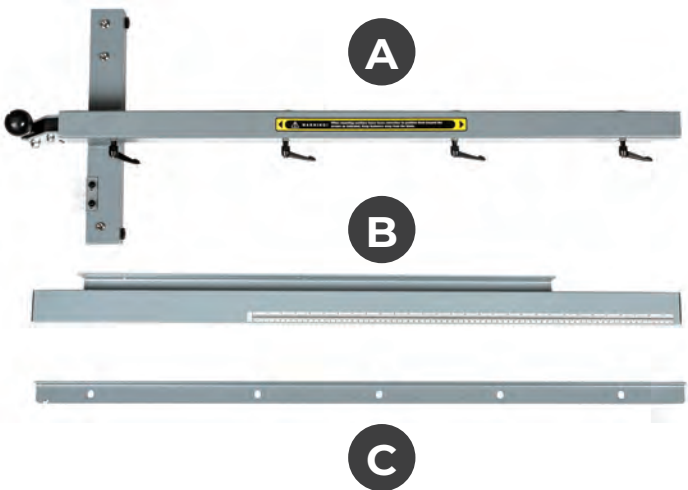


Fig B



Fig C

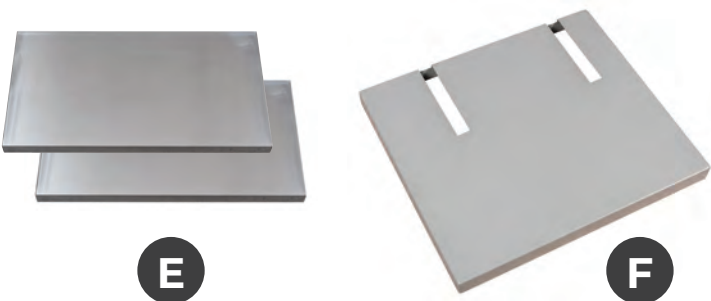


Fig D



Fig E



Fig F



Fig H

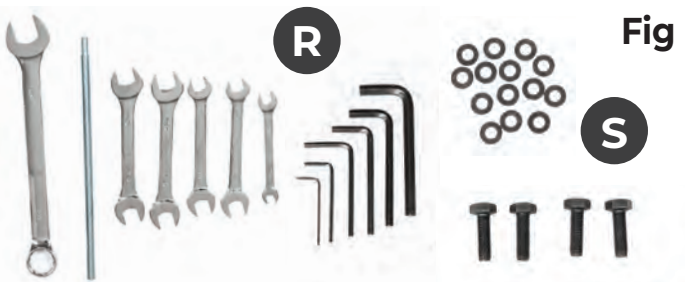
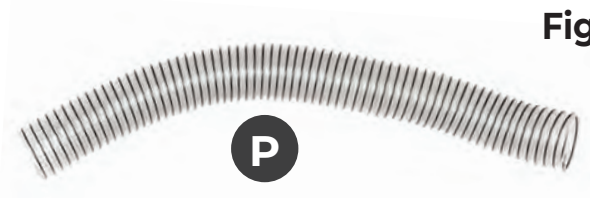


Fig I



Fig J

SAFETY

The following is a list of safety precautions you must consider when using a Table saw:



ALWAYS REMEMBER TO DISCONNECT THE POWER TO THE TABLE SAW WHEN MAKING REPAIRS OR ADJUSTING BLADES AND GUARDS.



ALWAYS REMEMBER TO READ THROUGH THE MACHINE INSTRUCTIONS SUPPLIED.

- Eye and ear protection are required when operating a Table saw. Dust extraction & respiratory PPE are highly recommended.
- Do not wear gloves, loose clothing, jewellery, or any dangling objects when operating a Table saw.
- Do not allow children to operate the machine.
- At all times all guards must be in place and fully operational. If a guard seems to be missing or damaged, adjust, replace or repair immediately.
- A riving knife MUST be used at all times when performing through cuts and must be positioned correctly.
- Ensure that the Rip fence is correctly aligned to the blade to help prevent the risk of timber kick back.
- Never perform “free hand” cuts, a rip fence or mitre cross cut fence should always be used.
- Never pull the timber through the blade from the rear of the machine, always push through from the front.
- Disconnect the power to the Table saw when making repairs or adjusting blades and guards.
- Hands and fingers must be kept clear of the blade, always use push sticks when feeding smaller pieces into the blade.
- Use only the recommended blade size and type for the machine - see page (20) for recommendations.
- Ensure all blades are sharp and in good condition.
- Never cut pieces smaller than the table insert size.
- Long material should be supported at the same height as the saw table.
- To avoid contact with a coasting blade, do not reach into the cutting area until the blade comes to a full stop.

- Make sure the blade is not in contact with the material when you start the saw.
- Never leave the machine unattended when it is running.
- Keep the table top & surrounding work area free from excessive dust and debris to help prevent slipping or tripping.
- Maintain a balanced stance at all times so that you do not fall or lean against the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.

Kickback

- The most common accidents among table saw users, according to statistics, can be linked to kickback, the high-speed ejection of timber from the table saw that can strike the operator. Kickback can also result in the operator's hands making contact with the blade.

Kickback Prevention

- Tips to avoid the most common causes of kickback:
 - Make sure the riving knife is always aligned with the blade. A workpiece can bind or stop the flow of the cut if the riving knife is misaligned, and result in kickback.
 - Use a riving knife during every cut. The riving knife maintains the kerf in the workpiece, which will reduce the chance of kickback.
 - Never attempt freehand cuts.
 - The workpiece must be fed parallel to the blade, otherwise kickback will likely occur. Always use the rip fence or mitre gauge to support the workpiece.
 - Make sure that the rip fence is parallel to the blade. If not, the chances of kickback are very high. Take the time to check and adjust the rip fence.
 - Feed cuts through to completion. Anytime you stop feeding a workpiece that is in the middle of a cut, the chance of binding, resulting in kickback, is greatly increased.

Tips for Kickback Protection

Kickback can happen even if precautions are taken to prevent it. Listed below are some tips to protect you if kickback does occur:

- Stand to the side of the blade when cutting. An ejected workpiece usually travels directly in front of the blade.
- Wear safety glasses or a face shield. Your eyes and face are the most vulnerable part of your body.

• Never place your hand behind the blade & never pull the timber through the cut. If kickback occurs, your hand will be pulled into the blade.

• Use a push stick to keep your hands further away from the moving blade. If a kickback occurs, the push stick will most likely take the damage that your hand would have received.

More safety information can be found at: <http://www.hse.gov.uk/pubns/wis16.pdf>

ASSEMBLY - FOR SET UP / LEVELLING / FINE TUNING SEE PAGE 12

Fitting the Extraction Port



WARNING! THE MACHINE IS HEAVY ITS ADVISED TO HAVE HELP.

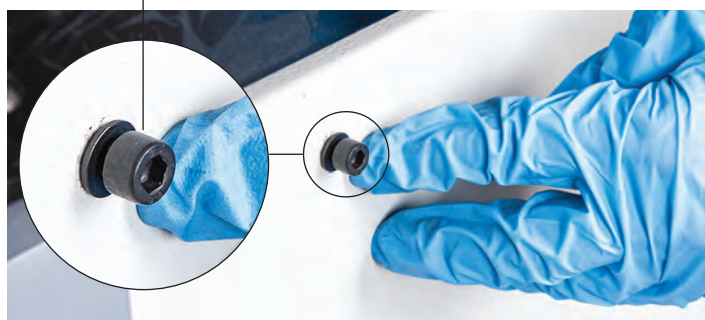
1. Remove the left side panel by removing the six caphead bolts / washers and place safely to one side. Remove cardboard box and other items from within the saw frame, see fig 01-02-03.

Fig 01-02-03



Side panel

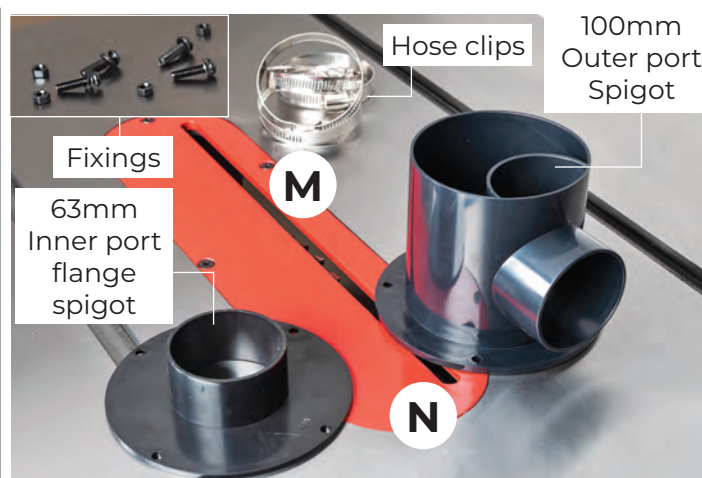
Caphead bolt & washer



Cardboard box & other parts



Fig 04



2. Locate the 'Dust Extraction Port' assembly', (N). Remove the four screws and nuts from the extraction port and separate the inner and outer parts, see fig 04.

3. Position both parts over the extraction port hole to the saws rear panel. **NOTE: Fit the 100mm port spigot to the outer side of the rear panel.** Secure using the four screws and nuts you removed earlier, see fig 05-06.

Fig 05-06

The 63mm flange spigot is placed inside the cabinet.





4. Locate the short flexible hose, (P) and two hose clips (M). Place a clip over each end of the hose and fit the hose over the saws dust housing outlets from inside the main saw frame. Nip-up the retaining clips to secure the hose in place, see fig 07-08-09.

Fig 07-08-09



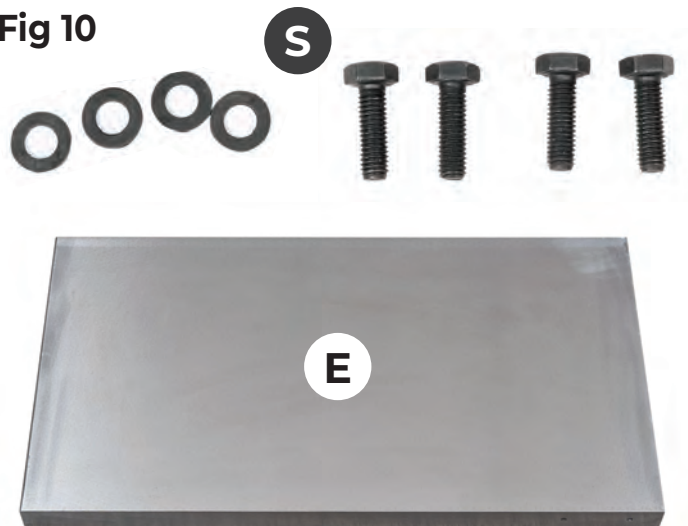
Fitting The Cast Iron Extension Tables



WARNING! WE ADVISE YOU GET ASSISTANCE AS THE CAST IRON TABLE IS HEAVEY.

1. Locate The right hand extension table (E) and the four long bolts / flat washers (S), see fig 10.

Fig 10



2. Position the extension table, (E) against the side of the main table, lineup the four threaded holes in both tables and secure in position with the long bolts / washers (S), see fig 11-12-13.

Fig 11-12-13





The cast iron extension tables can be fitted either both on the right (1) or one left and one right (2). Fitting the support legs is highly recommended.

Fitting the Rear Fence Rail

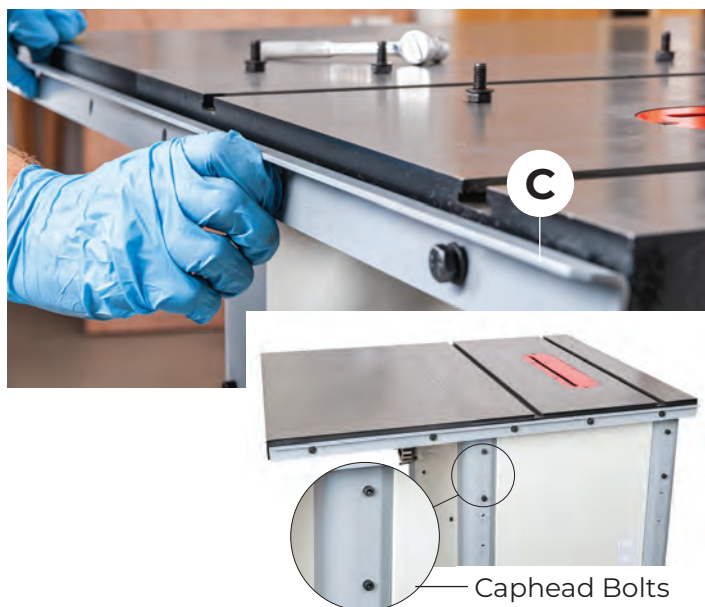
1. Locate five short bolts / flat washers (S) and the rear fence rail (C), see fig 14.

Fig 14



2. Position the rear fence rail (C) to the rear of the saw bench across both main and right hand extension tables, lineup the pre-drilled holes and secure in place using the five short bolts / washers (S), see fig 15-16.

Fig 15-16



Fitting the Rear Table Extension Table

Fig 17

1. Locate the rear extension table (F), two angle support brackets, four short caphead bolts and four flat washers (G), see fig 17-18.

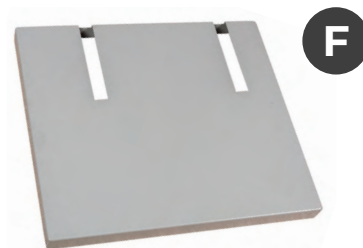


Fig 18

2. To the rear of the cabinet there are four threaded holes on each support column, with two caphead bolts mounted into the two upper holes on each side, see fig 16. Loosen the caphead bolts to give sufficient clearance for the next step.



3. Locate the two angle support brackets (G). Lineup the key slots in the right hand side bracket and lower the bracket down over the two caphead bolts. Lightly tighten the bolts to secure the bracket in place. Repeat for the opposite side, see fig 19-20-21.

Fig 19-20

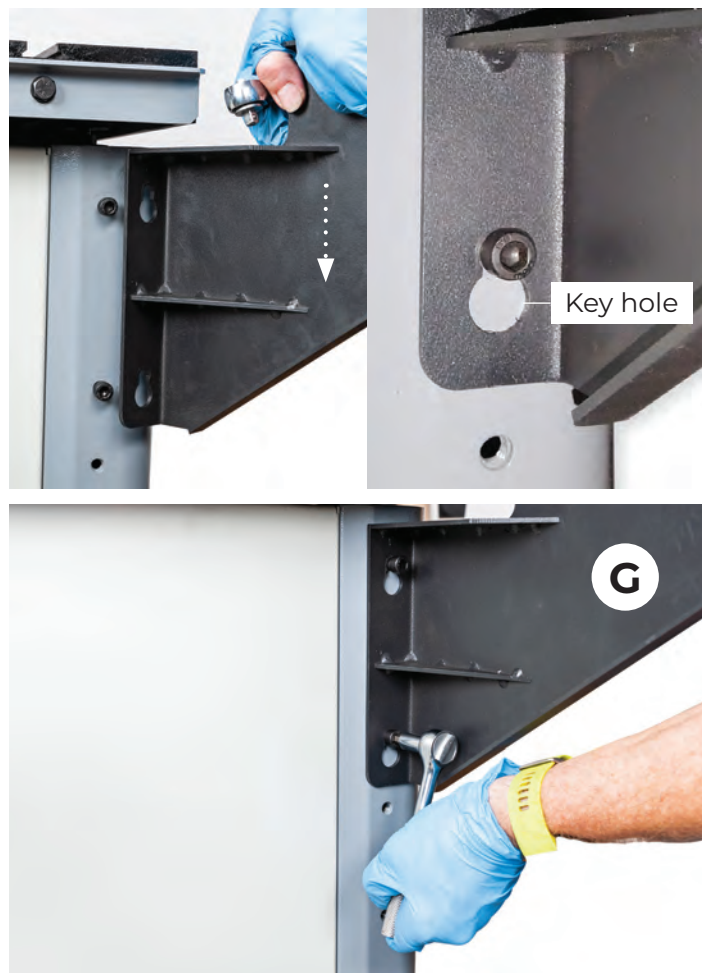
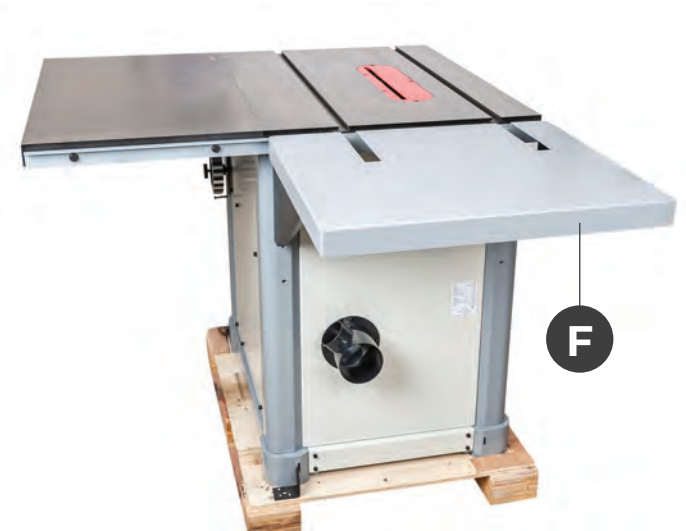
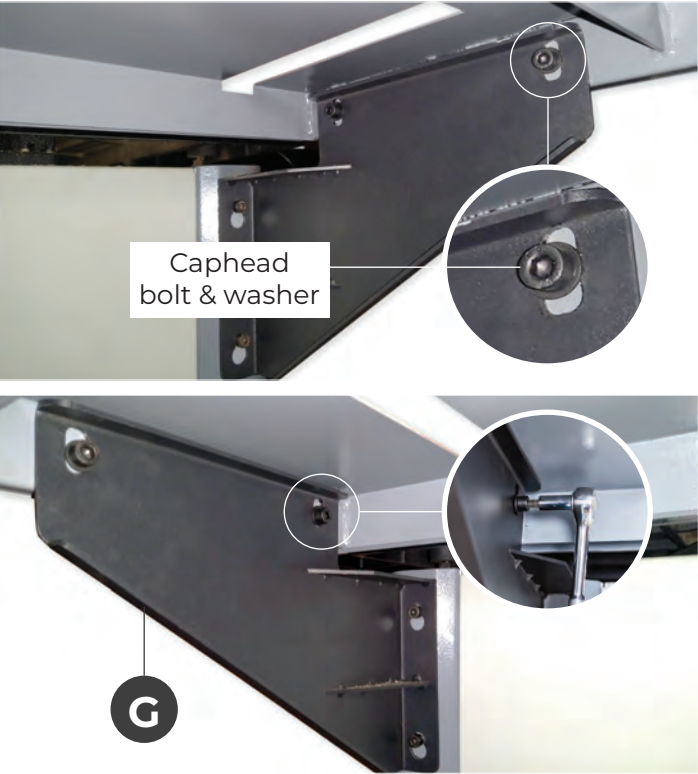


Fig 21



4. Place the rear extension table (F) down onto the support brackets (G), lineup the threaded holes in the extension table with the elongated slots in the angle support brackets. Secure in place with the four short caphead bolts and washers, see fig 22-23-24.

Fig 22-23-24



Fitting the Front Fence Rail & Fence Assembly

1. Locate the front fence rail (B) and five short bolts and flat washers (S), see fig 25. Lineup the pre-drilled holes in the fence rail with the ones to the front of the saws cast iron table and secure using the five bolts and washers (S) see fig 26-27.

Fig 25

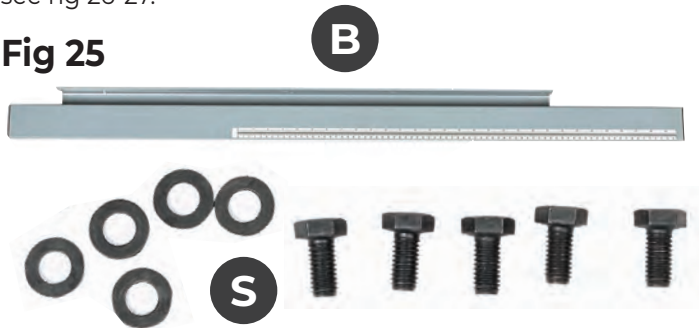


Fig 26-27



2. Find the rip fence assembly (A), lower the unit down over the front fence rail (B). Push down locking handle to lock the rip fence in place, see fig 28-29.

Fig 28

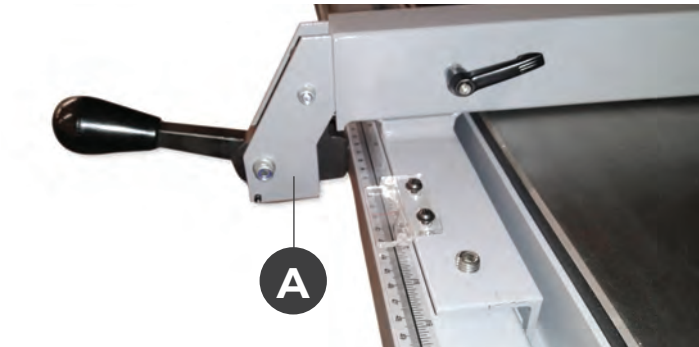


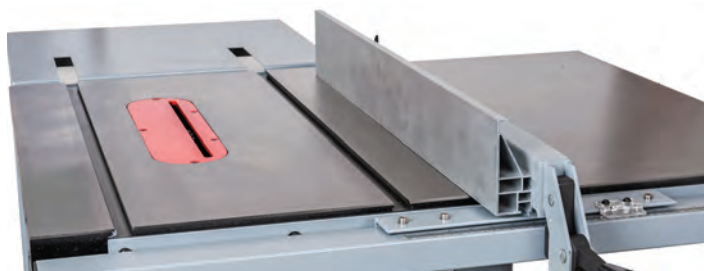


Fig 29



3. Locate the Aluminum sub fence (D). Position the sub fence against the rip fence assembly (A), lineup the 'T' slots in the fence (D) with the 'T' bolts in the rip fence and slide the sub fence on. Nip-up the three lift & shift handles on the rip fence (A) to secure the fence (D) in place, see 30-31.

Fig 30-31



Mounting the Control Switch Box

Lineup the two holes in the control switch mounting bracket with the ones to the underside of the front fence rail (B), secure in position with the two small caphead screws and washers, see fig 32-33-34.

Fig 32



Fig 33



Fig 34



Fitting the Operating Handwheel Knobs

Find the two handwheel knobs (O), 16mm spanner and 8mm Hex key (R). Lightly screw the handwheel knobs into the threaded hole in the operating wheels. Insert the Hex key into the caphead recess to the end of the knobs and while holding them in place nip-up the nuts with the spanner to secure in place, see 35-36.

Fig 35-36



ASSEMBLY

Fitting Flexible Hose Support Bracket

1. Locate the flexible hose support bracket and two small caphead screws / washers (L), see fig 37.

Fig 37



2. Lineup the holes in support bracket (L) with the two threaded holes to the side of the right hand extension table (E) and secure in place with the caphead screws / washers, see fig 38-39.

Fig 38-39



Fitting the Riving Knife & Crown Guard

1. Locate the crown guard assembly (J) and the riving knife (K), see fig 40.

2. Release the locking knob to the centre of the rise & full operating wheel and raise the saw to its highest point by turning the wheel clockwise, see fig 41.

3. Remove the table insert plate by removing the five countersink screws, using the supplied 3mm Hex key. Place it and the screws safely to one side, see fig 42.

Fig 40

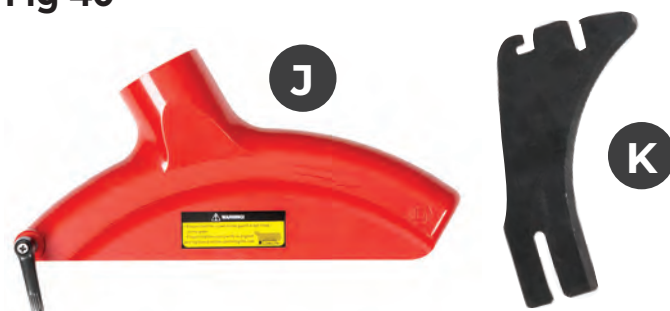
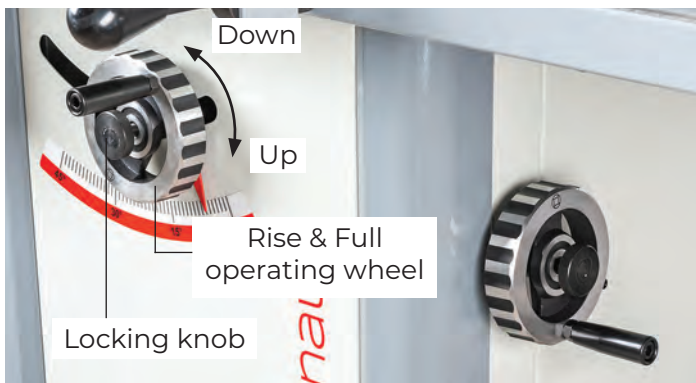


Fig 41-42



4. Loosen the two bolts that hold the riving knife clamping plate, see fig 43. Slide the riving knife (K) down between the plate and lightly tighten to hold the riving knife in place, see fig 44-45. Check that the tip of the knife has a clearance of 3-8mm between it and the blade and tighten. Replace the insert plate and countersink screws, see fig 46.

Fig 43

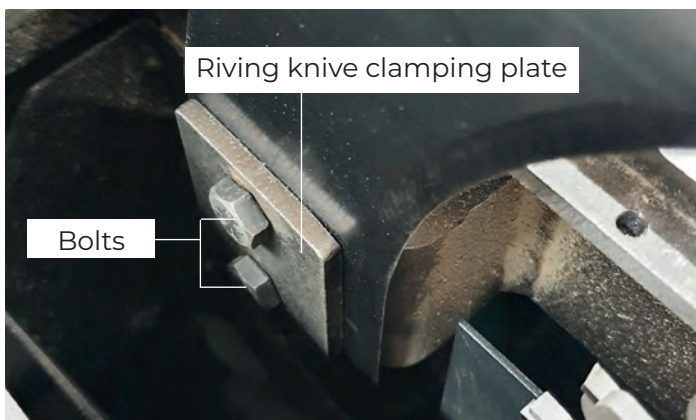


Fig 44-45



Fig 46



Fig 47



5. Loosen the Locking handle on the crown guard (J). Introduce the slot to the rear of the crown guard, see fig 47 down over the riving knife and insert the pin bolt into the curved slot in the rear of the riving knife, see fig 48-49. Lightly tighten the handle to secure the guard in place, see fig 50.

Fig 48

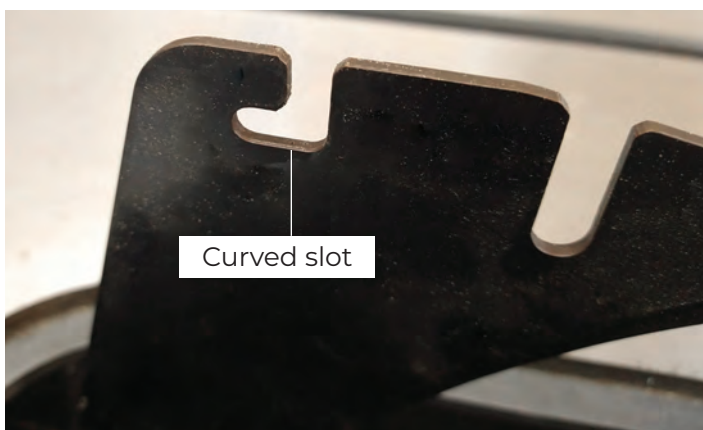


Fig 49



Fig 50



Fitting the Extraction Hose

1. Locate the long hose (Q) and the two remaining hose clips (M).

2. Place a hose clip over one end of 63mm hose, slide the hose over the extraction outlet on the crown guard (J). Secure in place by lightly tightening the hose clip.

Note: DO NOT OVERTIGHTEN, see fig 51.

3. Fit the other end of the hose to the 63mm outlet on the 100mm spigot (N) to the rear of the machine as shown in fig 52. Insert the hose over the support bracket (L).

4. Replace both left & right side panels as explained on page 05.

Fig 51

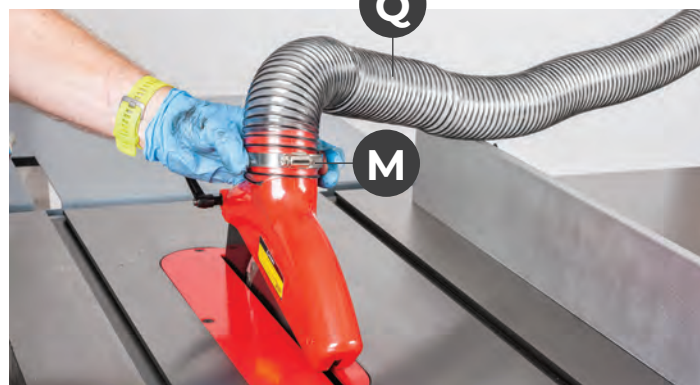


Fig 52



SET UP/ LEVELLING / FINE TUNING

Always follow the step by step procedure in the instruction manual. A poorly set up saw will not perform to its full potential and may be dangerous to use.

Three crucial things when setting up any table saw or panel saw-

- All extension tables are flat and level with the main saw table
- All rip fences are in line with the blade
- Sliding tables are set slightly above (0.5mm max) the level of the main saw table.

In the set up of most machinery including tables saws, two tools that you will need to use are a 6" engineers square and a minimum 36"/910mm straight edge, without these toolbox essentials it is difficult to set the machine up accurately.

1. Firstly please ensure that the table saw is stable on the floor & doesn't rock or wobble, adjustment can be made via the feet located on the inside of the machine. You will need to remove both side panels to do this, see fig 53.

Fig 53



Right Hand Extension Table -

2. Once you have loosely bolted on the cast iron R/H extension table, align the front face to the main saw table, use a 36"/910mm straight edge or use the aluminium sub fence supplied with the saw, see fig 54.

Fig 54



3. Place the straight edge in the middle of both tables across the seam, use a soft face mallet to tap the extension table up or down to align, then use the grub screws to level. Then tighten the central 2 bolts, see fig 55-56.

Fig 55-56



4. Move the straight edge to the front of the saw then use a soft face clamp and a small piece of timber to align, the grub screws to level then tighten in place, see fig 57. Repeat the last process at the rear of the tables, see fig 58.

Fig 57-58



Rear Extension Table -

5. Loosely Attached the rear extension table, then using the straight edge move the table up or down to align the main saw table, lock in place when aligned, see fig 59.

Fig 59



6. The table should be set at the same height as the main saw table or very slightly lower (1mm max). This table should not be set higher than the saw table as it will prevent smooth feed through of timber.

7. Level the table insert to the main saw table by adjusting the grub screws on the underside of the table insert, see fig 60-61.

Fig 60-61



Fence Rails & Fence -

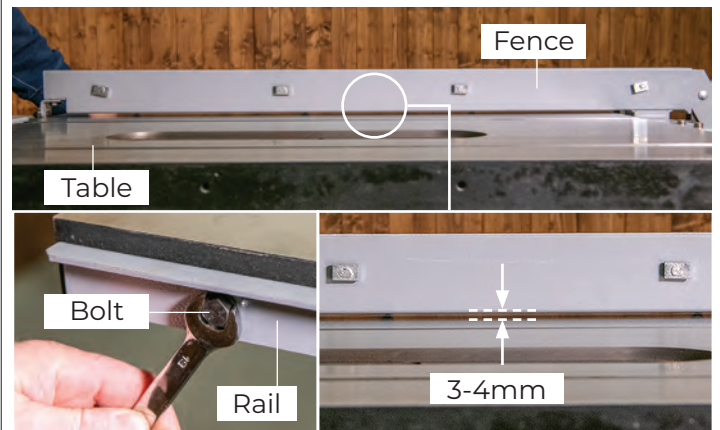
1. Ensure that the fence rail bracket is attached to the front of the tables. Slightly undo the hex cap screws underneath, measure the gap between the fence rail & table edge to ensure that this is the same end to end, see fig 62-63-64.

2. The mounting holes in the rear fence rail are slotted to allow movement up or down. Ensure that the bolts are loosened slightly then lift the rail up making sure that the fence is around 3-4mm above the saw table, see fig 65.

Fig 62-63-64



Fig 65



3. The T style rip fence has complete adjustment to align it to the saw blade / mitre fence slot & also to square it to the table.

4. Firstly slide the fence over to the mitre fence slot, align it then lock it off, see fig 66. If the fence seems out of line then simply adjust the left hand or right hand grub screws to align. You can also use these grub screws to take out any movement (wobble) in the fence, see fig 67.

Fig 66-67



SET UP/ LEVELLING / FINE TUNING

5. To square the fence to the table firstly slide the sub fence on at its high fence position, move it over towards the blade then with the fence locked check for square, see fig 68.

6. Adjustments are made by moving the grub screws on the top of the fence up or down, see fig 69.

7. Finally with the sub fence still in the high position slide the fence over until it makes very light contact with the blade. Then undo the 2 pozi screws to move the scale to read at zero, see fig 70.

Fig 68

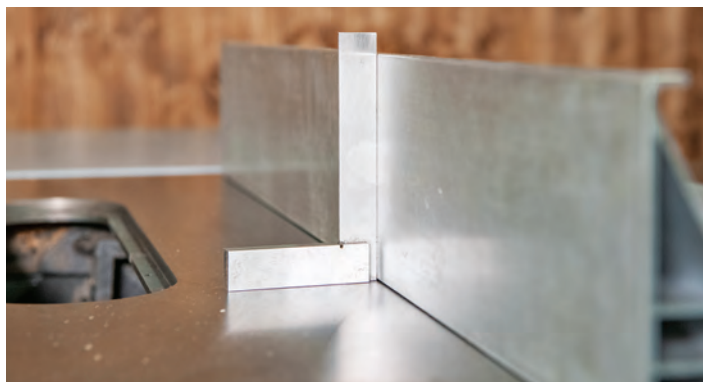


Fig 69



Fig 70



Squaring the Blade to the Table -

1. With the blade raised up to its highest point and not tilted, offer a square up to the right hand side of the blade plate avoiding the tips, see fig 71.

2. If the blade seems out of square a simple adjustment can be made by moving the stop collar located inside the machine on the threaded bar, see fig 72.

Fig 71



Fig 72



Aligning / Adjusting the Riving Knife -

1. It is important to ensure that the riving knife (K) is positioned correctly. The riving knife should be inline with the blade & between 3 - 8mm away from the edge of the blade, see fig 73-74.

2. To adjust the riving knife slightly undo the 2 bolts, this will allow up & down movement to gain the 3 - 8mm distance from the blade and will also allow for alignment adjusting via the four grub screws, see fig 75.

Fig 73

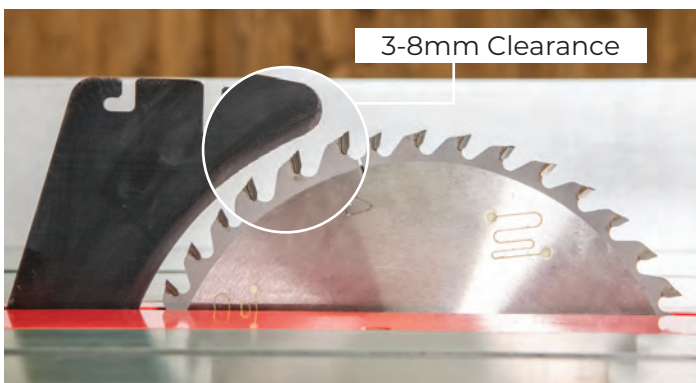


Fig 74

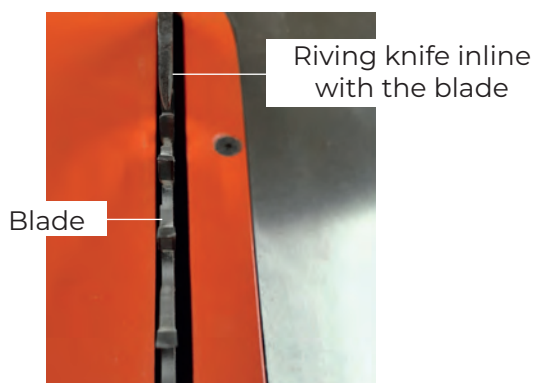
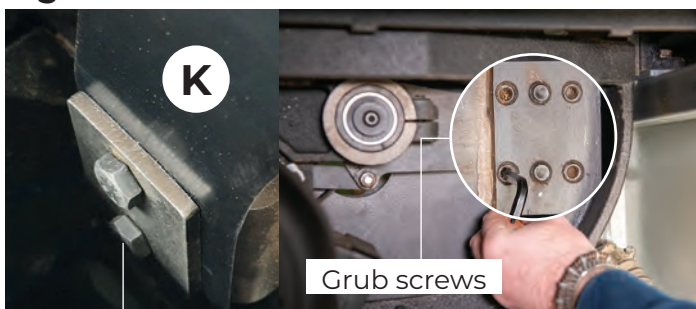


Fig 75





ALWAYS REMEMBER TO DISCONNECT THE POWER TO THE TABLE SAW WHEN MAKING REPAIRS OR ADJUSTING BLADES AND GUARDS.



ALWAYS REMEMBER TO READ THROUGH THE MACHINE INSTRUCTIONS SUPPLIED.

1. Before you begin to use your Table saw, you will need to establish that the machine and the blade you are intending to use are suitable for the material you are going to be cutting.
2. Check the sharpness of the blade. Is it too fine or too coarse?
3. Does the machine have enough capacity to cope with the size of material you are cutting?
4. Always ensure that the blade guard & riving knife are fitted.

See Blade Selection Info on page.... 20

Rip Cuts - Cutting Down the Grain



1. Position the rip fence to the right of the saw blade and set the rip fence for desired width of cut using the scale on the front rail, or measure the distance between the R/H side of the blade teeth and the fence, see fig 76-77.

Fig 76



Fig 77



2. Slide the sub fence forward so the end of the sub fence is just beyond the mid way point of the blade, see fig 78.
3. Adjust the blade height to match the timber thickness - top of the blade around 20 - 25mm above the timber, see fig 79.

Fig 78-79



4. Standing to one side of the machine press the green button & allow the machine to run up to full speed, see fig 80.
5. Use the left hand to hold the timber against the fence. Use the right hand to push the material down & through the saw, see fig 81.

Fig 80-81



6. Use a push stick for all cuts that will bring your hands within 250mm of the blade.
7. Position the right hand so it is NOT in direct line with the saw blade. Remove the hand holding the stock down as it approaches the saw blade and use a push stick to guide the last 300mm of cut through the blade, see fig 82.

Fig 82



8. Always push the workpiece completely past the blade at the end of a cut to reduce the possibility of kickback, see fig 83.
9. When ripping long boards use a support roller before & after the cut to support the workpiece as it comes through the saw, see fig 84.

Fig 83-84



Bevel Cuts -

1. Make sure the timber is planed flat, square, and with parallel edges. Any warp, deviation from square, or an angled edge, can lead to blade burn or to the timber being lifted from the table and risking kickback.
2. Using the tilt handle on the side of the machine set the over to the required angle, the riving knife & blade guard will tilt with the blade, set the blade height to clear the timber by around 20-25mm, see fig 85.



Fig 85



Fig 86



3. Position the sub fence to the lower position & the rip fence to the desired cut width, see fig 86.

4. Standing to one side of the machine press the green button & allow the machine to run up to full speed, see fig 87.

Fig 87



6. Use the left hand to hold the timber against the fence. Use the right hand to push the material down & through the saw, see fig 88.

Fig 88



7. Use a push stick for all cuts that will bring your hands within 250mm of the blade.

8. Position the right hand so it is NOT in direct line with the saw blade. Remove the hand holding the stock down as it approaches the saw blade and use a push stick to guide the last 300mm of cut through the blade, see fig 89.

Fig 89



9. Always push the workpiece completely past the blade at the end of a cut to reduce the possibility of kickback, see fig 90.

Fig 90



10. When ripping long boards use a support roller before & after the cut to support the workpiece as it comes through the saw, see fig 91.

Fig 91



11. When the right hand side off cut is small a second push stick should be used to push the offcut through & past the blade.

GENERAL USE / OPERATION

Cross cuts - Cutting Across the Grain



Crosscuts are usually made with a medium to fine tooth blade.

See Blade Selection Info on page.... 20

1. Make sure the saw guard and riving knife are in place when crosscutting.
2. Always use the mitre gauge or sliding table when crosscutting, do not make crosscuts free hand!, see fig 92.

Fig 92-93



3. Most workers prefer to use the left table slot for the mitre gauge when crosscutting, see fig 93.
4. Adjust the blade height to match the timber thickness - top of the blade around 20 - 25mm above the timber, see fig 94.
5. Select the desired cutting angle & ensure that all is locked in place, see fig 95.
- 6 Hold the workpiece against the mitre fence with the left hand and use the right hand to advance the mitre gauge and material through the cut, see fig 96.
7. Provide support for any material which extends beyond the edge(s) of the saw table.

Fig 94-95



Fig 96



Table saws & panel saws are relatively simple machines, with all machinery regular cleaning, servicing & the use of extraction (all preventative maintenance) are essential to get the best from your saw.

	‘My table saw won’t cut straight’
•	Check that your fence is in line with the blade, also check that the blade is square to the table. Information on how to correct this will be found in this instruction manual.

	“Why am I getting a lot of splintering along the cut edge”
•	The blade is probably blunt or too coarse, if a smoother cleaner cut is required then change the blade for one with more teeth. Lowering the blade height to about 25mm above the timber can also help.
•	Slow your feed speed down & check that the fence is in line with the blade as back cutting can occur.

	“My saw slows down when cutting”
•	Blade may be blunt or too fine for the thickness of material.
•	Overfeeding, slow down the feed through the blade.
•	Drive belt may be loose or worn.
•	Check that your fence is in line with the blade.
•	Ensure that the saw is not running on a long extension lead.
•	Motor capacitor may be faulty.

	“Excessive vibration ”
•	The blade may be damaged, check the blade , replace if any missing teeth or burn marks are seen.
•	Check that the blade is fitted correctly.
•	Check fence to blade alignment, adjust as necessary.
•	The saw is not positioned on a flat stable floor surface.
•	The timber may not stable and sat flat on the table, you may be getting board bounce, choose a flatter surface.

MAINTENANCE



DISCONNECT THE MACHINE FROM THE MAINS SUPPLY.

Preventative maintenance is crucial if you want your machine to perform to its full potential. I.E. Use good quality resin free sharp blades; this will greatly cut down the load put on to motors, drive belts and gears.

Use adequate extraction, this will help keep the machines internal mechanisms clean and also help keep your work area clear from dust and shavings.

Periodically or after quite heavy use it is recommended that the following maintenance be made to the table saw.

- Check blades for ware or damage
- Clean inside the machine, slides, threads, gears and remove all off cuts & debris.
- Lubricate slides, threads, gears
- Check drive belt for ware or damage
- Clean guards & check for damage
- Check alignment of fences & guides
- Clean & wax cast iron tables

MAINTENANCE

Blade Selection/Info -

ALWAYS ensure that you are using the correct blade dimensions, the blade diameter, the bore size & the kerf (cutting width) match the blade that is supplied with the table saw from new.

Coarse Blade -

Low tooth count, around 20 - 30 teeth, ideal for table saws to do ripping cuts down the grain where a smooth finish is not so important, see fig 97.

Fig 97



General Purpose Blade -

Medium tooth count, around 40 - 50 teeth, where a user may cut a wide range of timber both natural & man made board & doesn't want to change blades too often, see fig 98.

Fig 98



Fine Tooth Blade

High tooth count, around 60 - 100 teeth suited to cutting finer delicate thinner timbers where a smooth finish & limited breakout is required. Also the ideal blade for cutting faced man made boards, see fig 99. **NOTE: NOT RECOMMENDED FOR RIP CUTS!**

Fig 99



Blade Change -

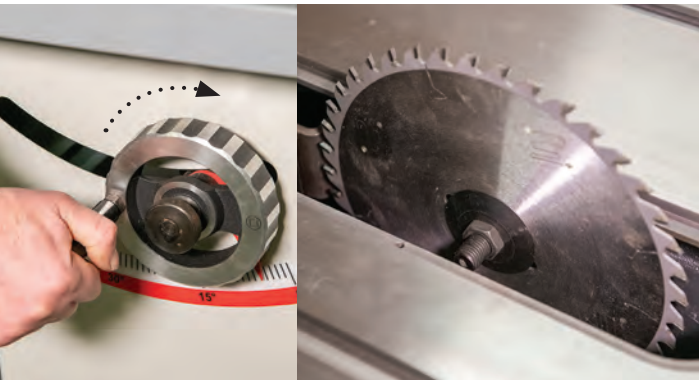


DISCONNECT THE MACHINE FROM THE MAINS SUPPLY.

Removing Blade

1. Undo the six screws and remove the table insert, then wind the blade up to its highest point, see fig 100.

Fig 100



2. Insert the tommy bar into the hole on the inner spindle collar then use the 22mm spanner to undo the blade nut **THIS IS A LEFT HAND THREAD, THE NUT WILL TURN THE SAME DIRECTION AS THE BLADE ROTATION**, see fig 101-102.

Fig 101

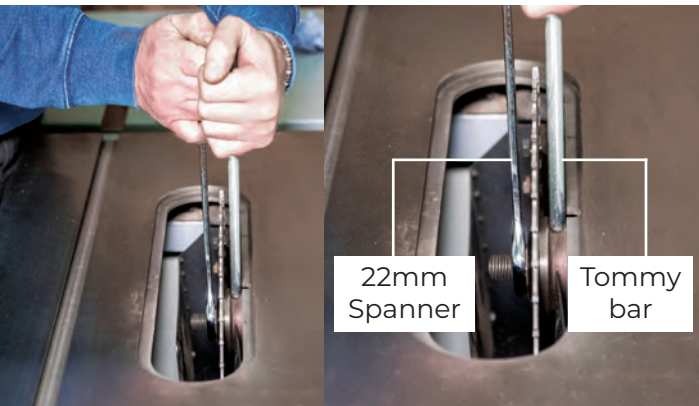
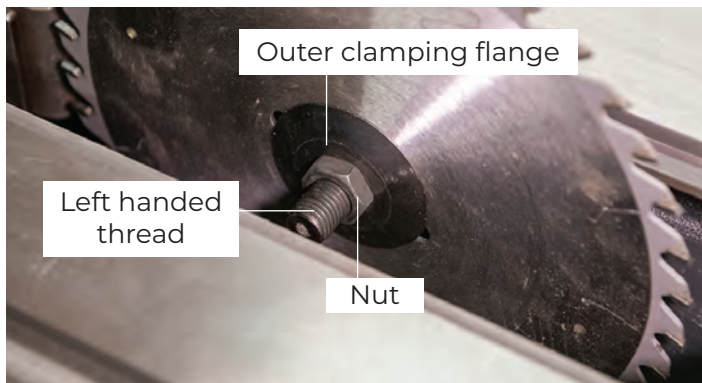
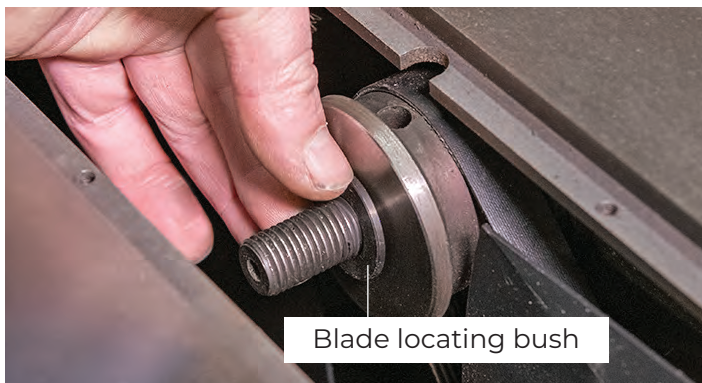


Fig 102



3. Remove the nut, the outer clamping flange and the blade. Take care not to lose the blade locating bush, also take care not to damage the blade during removal, see fig 103.

Fig 103



Refitting the Blade -

1. Before fitting the blade ensure that the inner & outer clamping flanges & blade plate are clean & free from wood dust, see fig 104-105.

2. Slide the blade centering bush onto the spindle, then slide the blade onto the spindle ensuring that the blade is positioned over the blade locating bush, see fig 106.

Fig 104



Fig 105



3. Refit the outer clamping flange & retighten the blade clamping nut. Replace the table insert, see fig 107.

4. Before powering up the machine rotate the blade by hand to ensure all is running true, also ensure that the blade guard is repositioned.

5. The riving knife will not need adjusting providing the same, correct blade has been fitted.

Fig 106

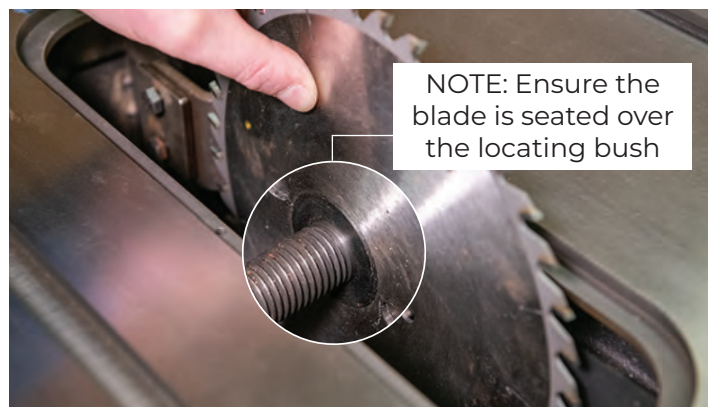


Fig 107



OPTIONAL ACCESSORIES

Dado Blade Set

This 204mm diameter Dado Blade Set comprises 2 x 24 tooth TCT outer blades, 6 inner chipper blades and 4 spacers. The chippers and spacers fit between the outer TCT blades. Simply select the inner chippers and spacers required to cut the width of slot required. The outer blades are 3.2mm. The inner chippers are 4 x 3.0mm, 1 x 2.2mm and 1 x 1.5mm. The spacers are 2 x 0.4mm and 2 x 0.3mm.



NOTE: THE DADO HEAD SHOULD NEVER BE USED TO CUT THROUGH THE TIMBER, IT IS FOR MACHINING GROOVES USING LIGHT, MULTIPLE CUTS!



THE DADO BLADE CAN CUT GROOVES UP TO A MAXIMUM 18MM IN WIDTH DEPENDING ON CAPACITY OF THE MACHINE BEING USED!



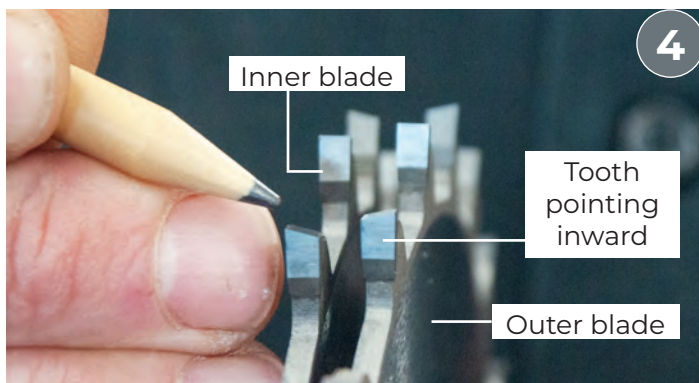
DISCONNECT THE MACHINE FROM THE MAINS SUPPLY BEFORE CONTINUING!



Remove the standard blade and riving knife and place safely away.



Layout the TCT outer blades, chipper blades & the spacers.



Make sure the teeth of the inner and outer blades are facing inward.



Find a scrap piece of timber the thickness of the cut as a guide. Place the inner blade against the timber and start stacking the chipper blades on top. Make sure the teeth are spaced equally and pointing forward.





DO NOT OVERLAP the blade teeth.



The teeth equally spaced and pointing forward.



The teeth not equally spaced and not pointing forward.



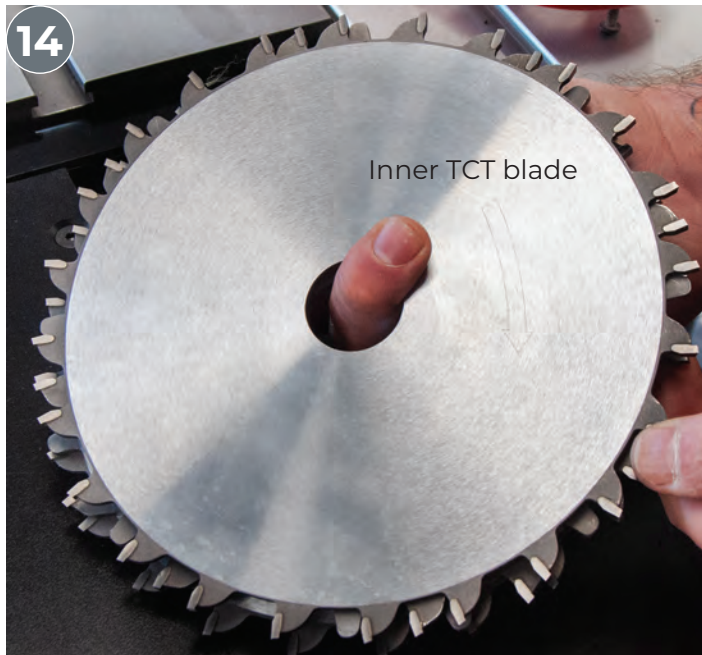
Use the supplied spacers between the blades to make small adjustments in the height.



Place the outer TCT blade on top and check the tooth is the same depth as the timber. If the blade is too high/low, rearrange the chipper blades and spacers until the correct depth is reached.



OPTIONAL ACCESSORIES



Turn the 'Dado' blade assembly over so the inner TCT blade is on top in preparation for installation.

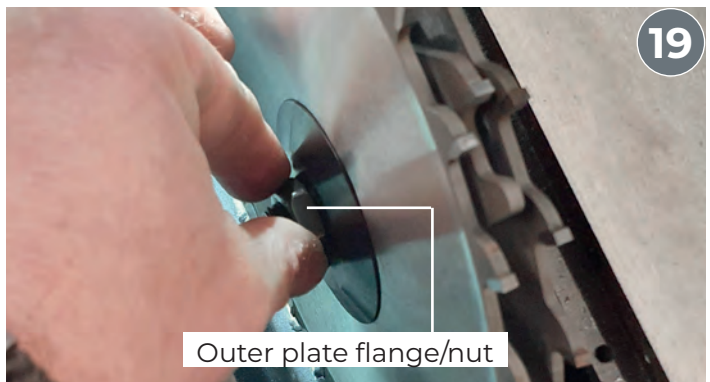
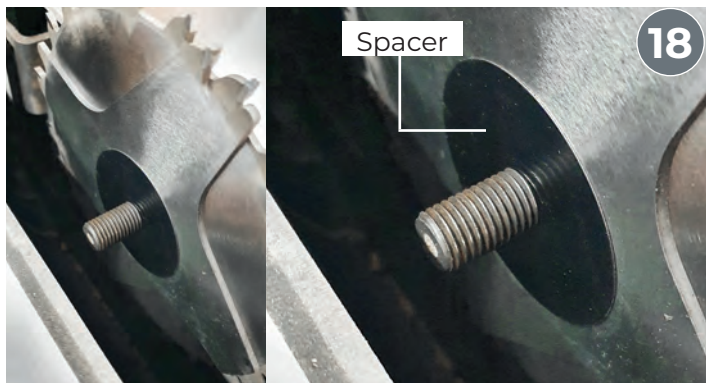
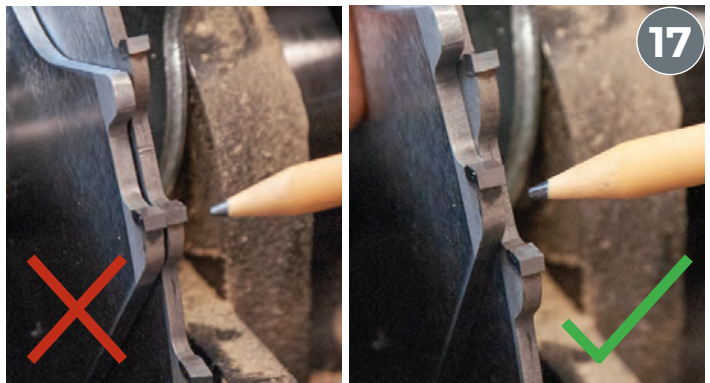


Clean the inner and outer plate flanges

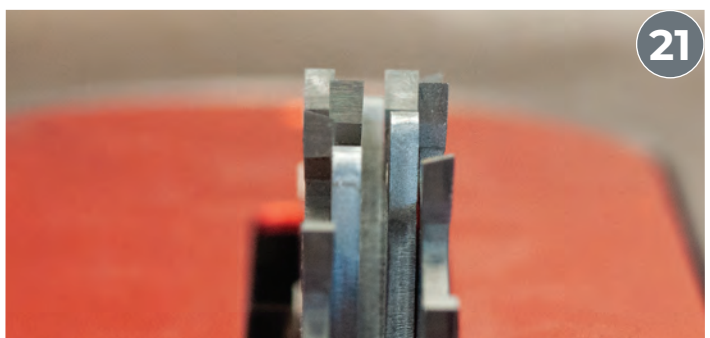
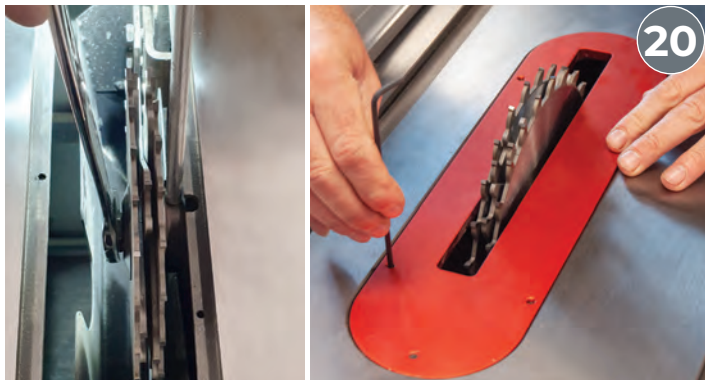


Slide the inner TCT blade over the shaft and up against the inner plate flange. Make sure the teeth are pointing forward. Mount each blade and spacers in turn onto the shaft.

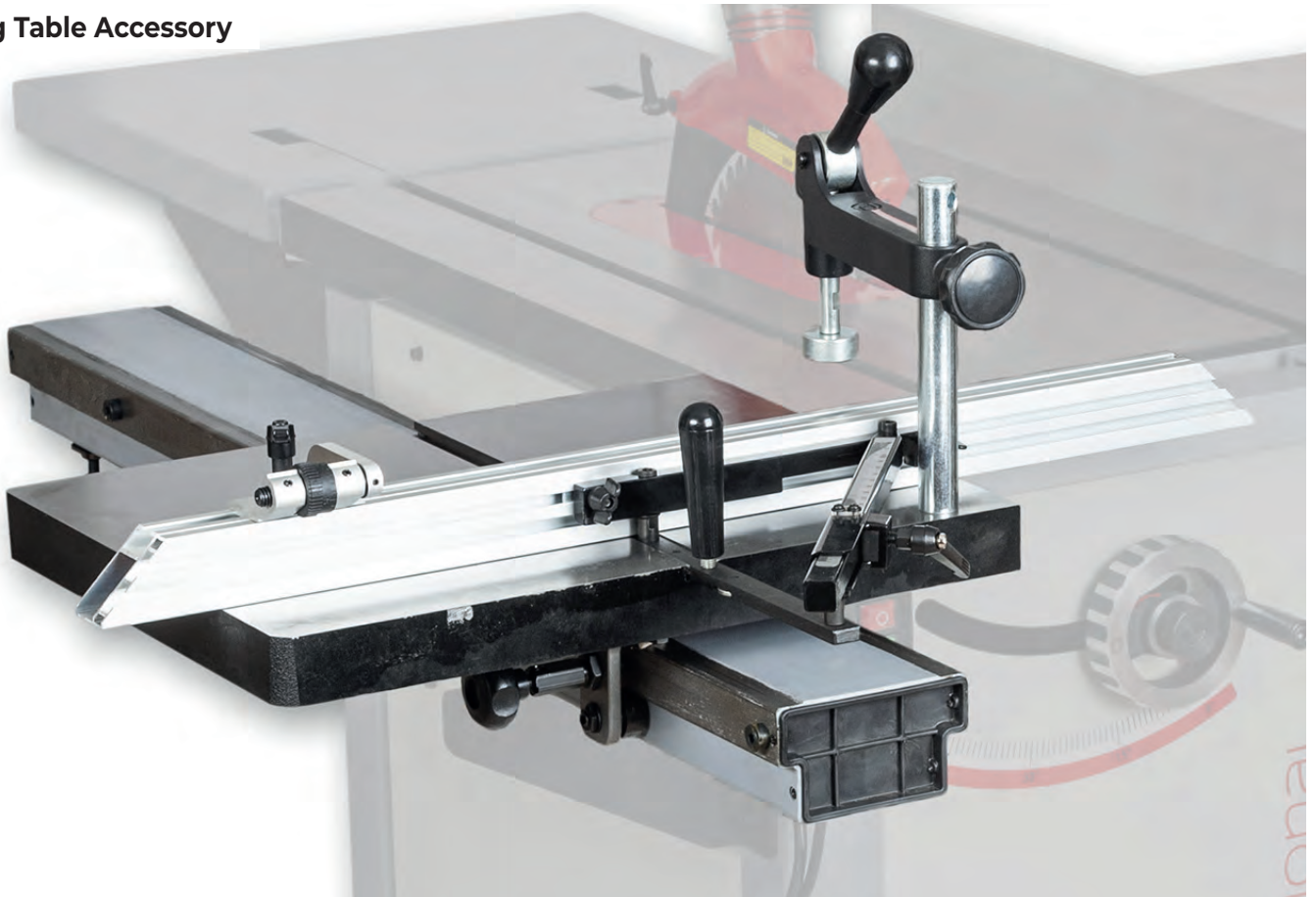
Important note: make sure to space the blade teeth equally as shown in fig 17. Once all the blades are on, replace the outer flange/nut and resecure. Replace the insert plate.



Make sure the plate flange slots over the nut's recess.



Sliding Table Accessory

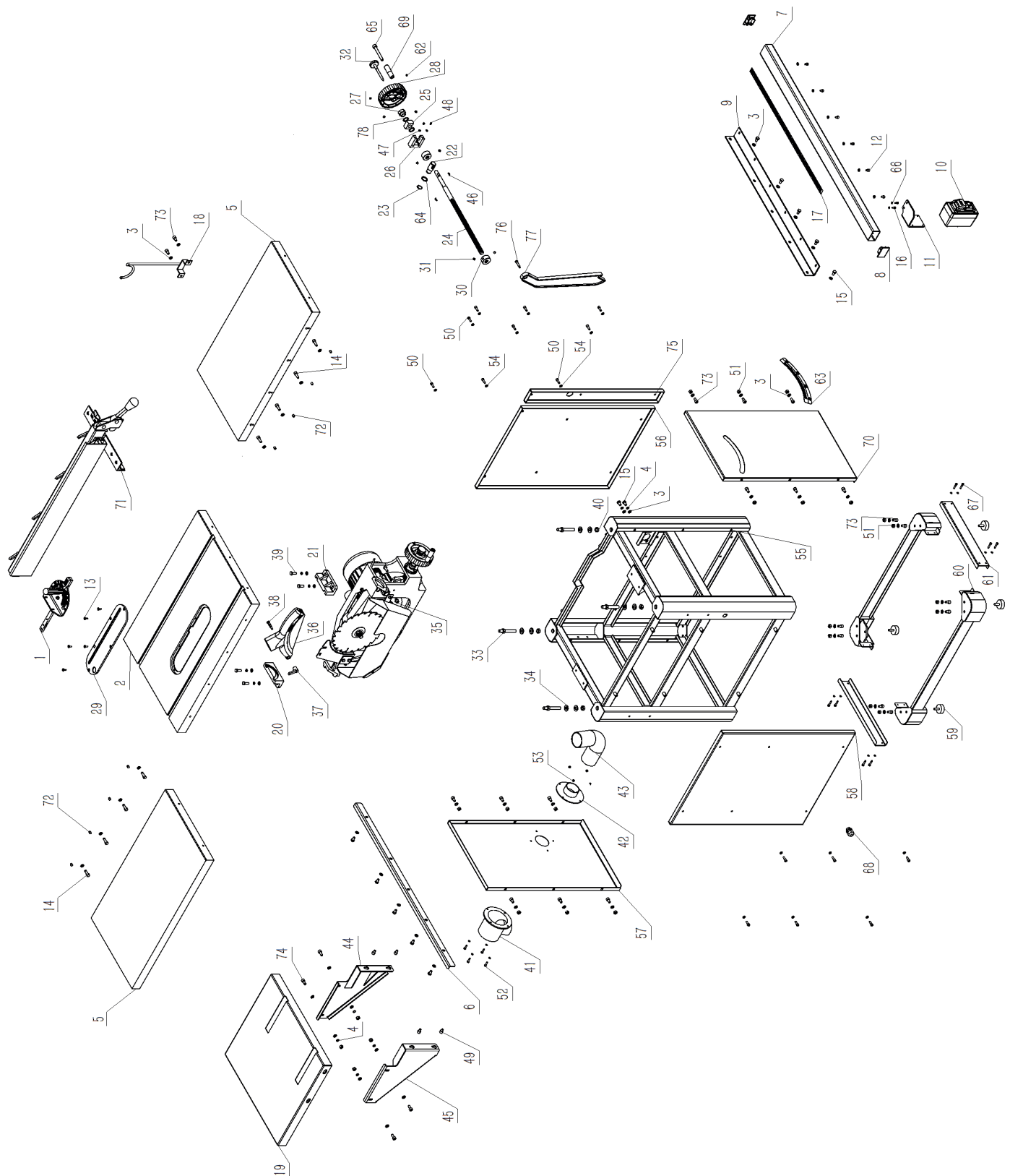


Overhead Crown Guard Accessory



AP254SB EXPLODED DIAGRAM/PARTS LISTS

Diagram/Parts List A



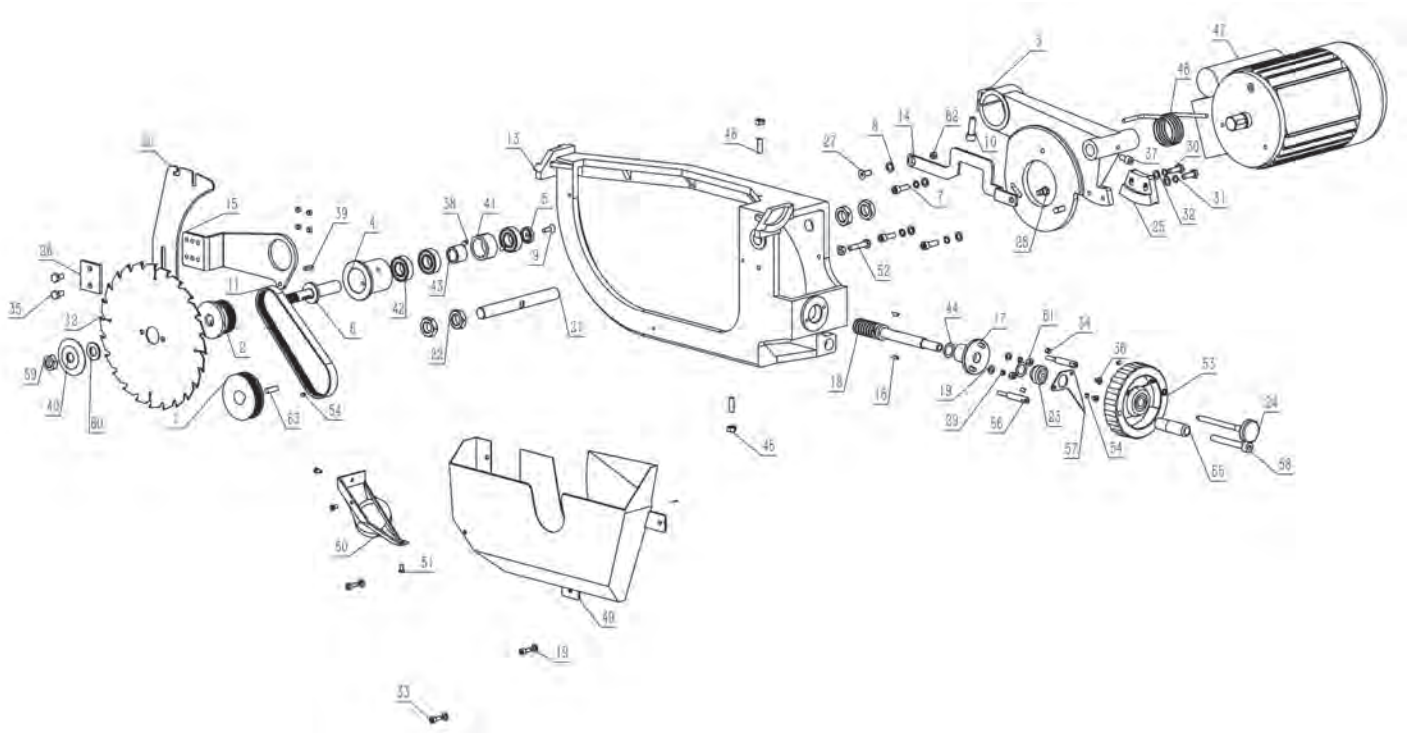
AP254SB EXPLODED DIAGRAM/PARTS LISTS

No.	Descriptionw	QTY
1	Mitre Gauge Assembly	1
2	Main Worktable	1
3	Washer 8Mm	56
4	Spring Washer 8Mm	10
5	Extension Table	2
6	Rear Fence Rail	1
7	Front Fence Rail	1
8	End Cap,Front Fence Rail	2
9	Support Bracket,Fence Rail	1
10	Main Switch	1
11	Mounting Bracket,Switch	1
12	Hex.Socket Cap Head Screw M6X10	6
13	Hex.Socket Countersunk Head M5X15	5
14	Hex.Socket Cap Head Screw M8X25	8
15	Hex.Bolt M8X16	14
16	Hex.Socket Cap Head Screw M5X12	2
17	Scale	1
18	Dust Hose Support	1
19	Rear Extension Table	1
20	Rear Trunnion	1
21	Fron Trunnion	1
22	Tilt Leadscrew Nut	1
23	Circlips For Shaft	1
24	Tilt Leadscrew	1
25	Tilt Limit Block	1
26	Mounting Support	1
27	Stopping Hoop	1
28	Handwheel	1
29	Table Insert	1
30	Retainer Ring	2
31	Hex.Socket Set Screw M8X6	6
32	Locking Nail	1
33	Step Screw	4
34	Big Washer 12	8
35	Mechanism Assembly	1
36	Blade Guard	1
37	Ratchet Lever	1
38	Locking Bolt,Blade Guard	1
39	Hex.Bolt M8X25	4
40	Hex.Nut M12	4
41	Tie-In B	1
42	Tie-In A	1

43	Dust Collection Hose	1
44	Supporting Bracket A,Rear Extension Table	1
45	Supporting Bracket B,Rear Extension Table	1
46	Semi-Round Key 3X16	2
47	Big Washer 4	2
48	Cross Recessed Pan Head Screw M4X8	2
49	Hex.Socket Cap Head Screw M8X12	4
50	Hex.Socket Cap Head Screw M6X20	15
51	Hex.Nut M8	24
52	Cross Recessed Pan Head Screw M5X20	4
53	Hex.Nut M5	4
54	Washer 6	21
55	Column Frame,Machine Body	1
56	Right Panel,Machine Body	1
57	Rear Panel,Machine Body	1
58	Left Panel,Machine Body	1
59	Screw Rod	4
60	Leveling Foot	2
61	Connecting Board,Machine Body	2
62	Hex.Socket Set Screw M6X6	2
63	Angle Scale	1
64	Wave Washer 21	1
65	Hex.Socket Cap Head Screw M10X80(Half Screw)	1
66	Washer 5	14
67	Hex.Socket Cap Head Screw M5X25	8
68	Cable Gland M20	1
69	Knob	1
70	Front Panel,Machine Body	1
71	Rip Fence Assembly	1
72	Hex.Socket Set Screw M8X10	8
73	Hex.Socket Cap Head Screw M8X16	22
74	Hex.Socket Cap Head Screw M8X20	4
75	Right [Anel Section,Machine Body	1
76	Screw	1
77	Push Stick	1
78	Thrust Washer 30X17X0.8	2

EXPLODED DIAGRAM/PARTS LISTS

Diagram/Parts List B



No.	Description	QTY
1	Driving Pulley B	1
2	Shaft Pulley	1
3	Shaft Base	1
4	Arbor Shaft Sleeve	1
5	Arbor Shaft Ending Bushing	1
6	Blade Shaft	1
7	Hex.Socket Cap Head Screw M8X25	3
8	Washer 10	1
9	Hex.Socket Cap Head Screw M6X12(Left)	1
10	Hex.Socket Cap Head Screw M10X30	1
11	Driving Belt	1
12	Saw Blade	1
13	Mounting Base	1
14	Connection Rod Of Riving Knife Bracket	1
15	Riving Knife Bracket	1
16	Semi-Round Key 3X16	2
17	Connection Seat	1
18	Lifting Worm	1
19	Washer 6	5
20	Riving Knife	1
21	Shaft	1
22	Thin Nut M20X1.5	4

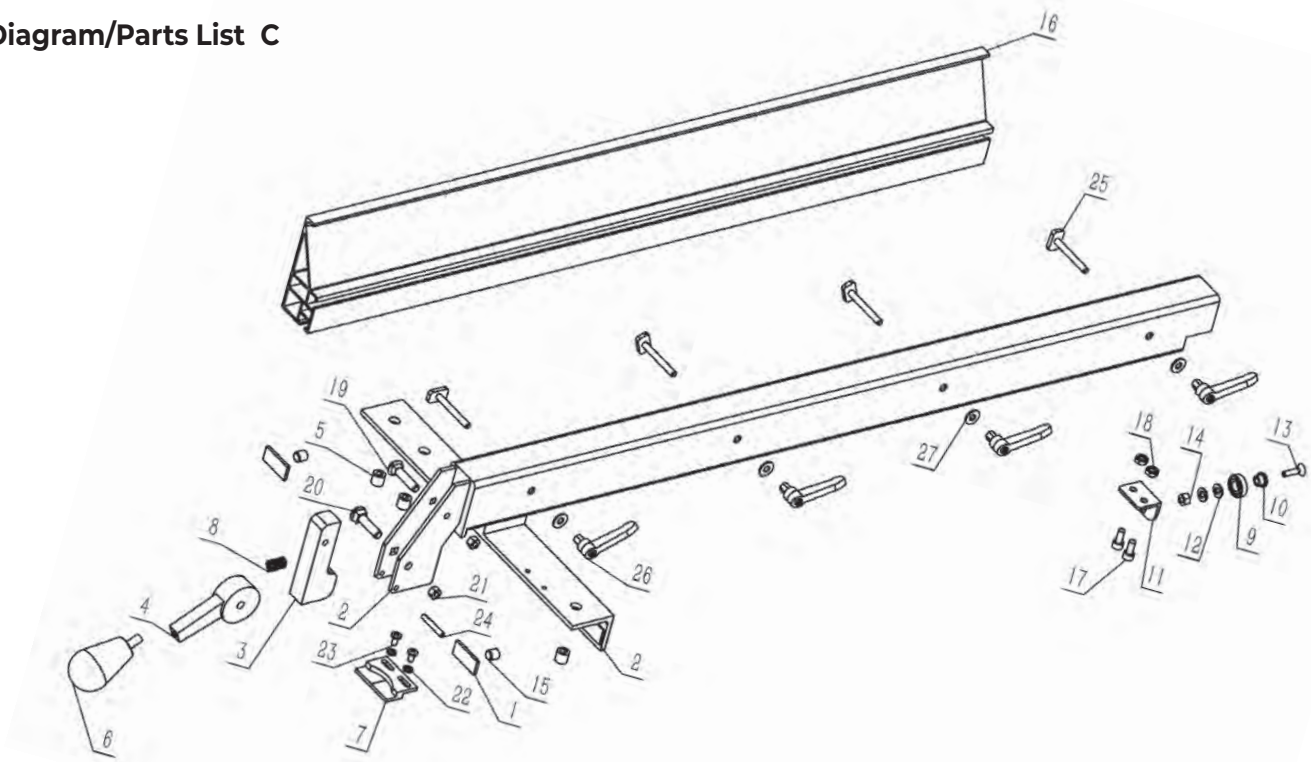
23	Stopping Hoop B	1
24	Locking Nail B	1
25	Lifting Worm Wheel	1
26	Press Board,Riving Knife	1
27	Hex.Socket Countersunk Head M8X20	1
28	Pulling Rod Shaft	1
29	Spring Washer 6	2
30	Hex.Bol M8X25	2
31	Spring Washer 8	5
32	Washer 8	5
33	Hex.Socket Cap Head Screw M6X12	3
34	Hex.Socket Set Screw M8X6	6
35	Hex.Bolt M8X16	2
36	Cross Recessed Pan Head Screw M5X8	2
37	Hex.Socket Cap Head Screw M8X16	1
38	Spring Pin 6X10	2
39	Key 5X20	1
40	Arbor Flange	1
41	Arbor Shaft Bushing A	1
42	6004 Bearing	3
43	Arbor Shaft Bushing B	1
44	Thrust Washer 30X17X0.8	2
45	Hex.Nut M8	3

EXPLODED DIAGRAM/PARTS LISTS

46	Hex.Socket Flat Head Set Screw M8X6	2
47	Motor	1
48	Torsion Spring	1
49	Dust Collection Cover	1
50	Dust Outlet,Dust Collection Cover	1
51	Cross Recessed Pan Head Screw M5X10	3
52	Hex.Bolt M8X40	1
53	Handwheel	1
54	Hex.Socket Set Screw M6X6	3
55	Handle	1

56	Pointer Seat	2
57	Pointer B	1
58	Hex.Socket Cap Head Screw M10X80	1
59	Thin Nut M16X2 (Left)	1
60	Variable Diameter Sleeve	1
61	Hex.Nut M6	2
62	Hex.Self-Locking Nut M8	1
63	Key 8X25	1

Diagram/Parts List C

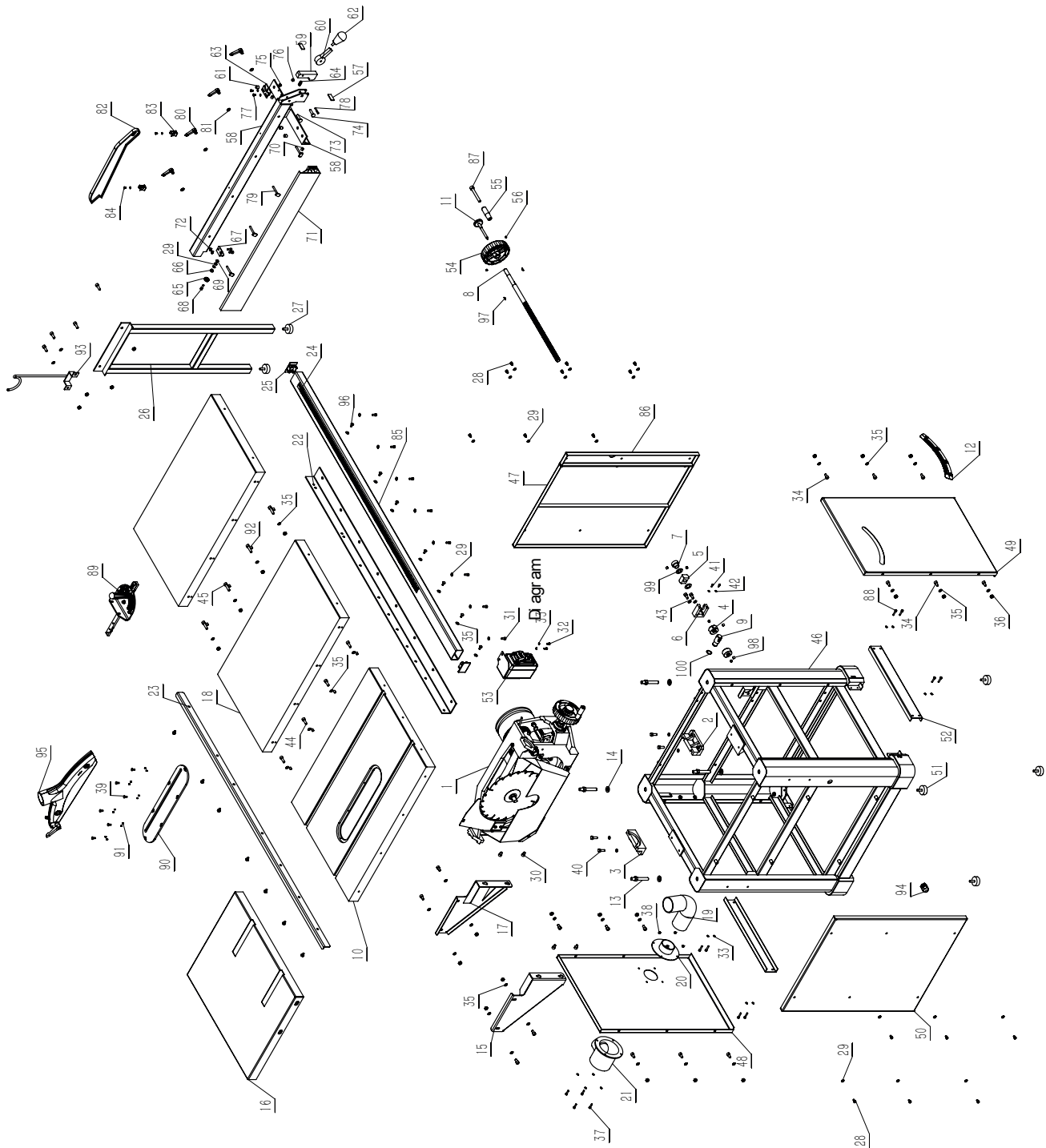


No.	Description	QTY
1	Pad	2
2	Sling Rail Carrier	1
3	Locking Block	1
4	Locking Cam	1
5	Nylon Screw	3
6	Fence Lock Knob	1
7	Pointer	1
8	Spring	1
9	Bearing 61900	1
10	Bearing Bushing	1
11	Bearing Support	1
12	Washer 6	2
13	Hex.Socket Countersunk Screw M6X22	1

14	Hex.Self-Locking M6	2
15	Hex.Socket Set Screw M10X10	2
16	Rip Fence	1
17	Hex.Socket Cap Head Screw M6X12	2
18	Hex.Nut M6	2
19	Semi-Round Step Bolt M6X35	1
20	Semi-Round Step Bolt M8X35	1
21	Hex.Self-Locking M8	1
22	Washer 5	2
23	Cross Recessed Pan Head Screw M5X10	2
24	Spring Pin 5X32	1
25	T-Bolt	4
26	Ratchet Lever	4
27	Big Washer 6	4

AP305SBD EXPLODED DIAGRAM/PARTS LISTS

Diagram/Parts List D



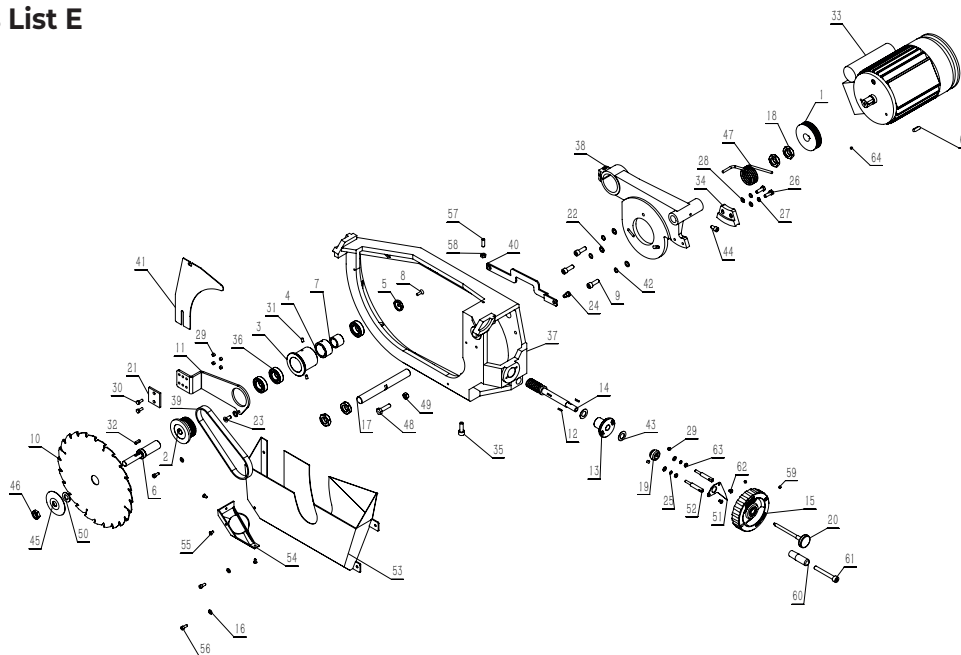
AP305SBD EXPLODED DIAGRAM/PARTS LISTS

No.	Description	QTY
1	Mechanism Assembly	1
2	Rear Trunnion	1
3	Front Trunnion	1
4	Retainer Ring	2
5	Tilt Limit Block	1
6	Mounting Support	1
7	Stopping Hoop	1
8	Tilt Leadscrew	1
9	Tilt Leadscrew Nut	1
10	Worktable	1
11	Locking Nail A	1
12	Angle Scale	1
13	Step Screw	4
14	Big Washer 12	4
15	Supporting Bracket B,Rear Extension Table	1
16	Rear Extension Table	1
17	Supporting Bracket A,Rear Extension Table	1
18	Extension Table	2
19	Dust Collection Hose	1
20	Tie-In A	1
21	Tie-In B	1
22	Support Bracket,Fence Rail	1
23	Rear Fence Rail	1
24	Scale	1
25	End Cap,Front Fence Rail	2
26	Support Leg	1
27	Adjusting Foot Bolt	2
28	Hex.Socket Cap Head Screw M6X10	15
29	Washer 6	25
30	Hex.Socket Cap Head Screw M8X12	4
31	Hex.Socket Cap Head Screw M6X12	10
32	Hex.Socket Cap Head Screw M5X12	2
33	Washer 5	16
34	Hex.Socket Cap Head Screw M8X16	16
35	Washer 8	52
36	Hex.Nut M8	24
37	Hex.Socket Cap Head Screw M5X20	4
38	Hex.Nut M5	4
39	Hex.Socket Countersunk Head M5X16	6
40	Hex.Bolt M8X25	4
41	Hex.Socket Cap Head Screw M4X10	2
42	Washer 4	4
43	Hex.Socket Cap Head Screw M8X20	2
44	Hex.Socket Cap Head Screw M8X25	8
45	Hex.Socket Cap Head Screw M8X35	4
46	Column Frame,Machine Body	1
47	Right Panel,Machine Body	1
48	Rear Panel,Machine Body	1
49	Front Panel,Machine Body	1
50	Left Panel,Machine Body	1
51	Levering Foot	4

No.	Description	QTY
52	Connecting Board,Machine Body	2
53	Switch	1
54	Handwheel	1
55	Knob	1
56	Hex.Socket Set Screw M6X6	2
57	Pad	2
58	Sling Rail Carrier	1
59	Locking Block	1
60	Locking Cam	1
61	Nylon Screw M12X12	3
62	Fence Lock Knob	1
63	Pointer	1
64	Spring	1
65	Bearing 61900	1
66	Bearing Spacer Bushing	1
67	Bearing Support	1
68	Hex.Socket Cap Head Screw M6X16	1
69	Hex.Nut M6	1
70	Hex.Socket Set Screw M10X10	2
71	Rip Fence	1
72	Hex.Nut M6	2
73	Semi-Round Step Bolt M6X35	1
74	Semi-Round Step Bolt M8X35	1
75	Hex.Self-Locking M6	1
76	Hex.Self-Locking M8	1
77	Cross Recessed Pan Head Screw M5X10	2
78	Spring Pin 5X32	1
79	T-Bolt	4
80	Ratchet Lever	4
81	Big Washer 6	4
82	Push Stick	1
83	Clip	2
84	Cross Recessed Pan Head Screw M4X8	2
85	Rip Fence Rail	1
86	Small Right Panel,Machine Body	1
87	Hex.Socket Cap Head Screw M10X80	1
88	Hex.Socket Cap Head Screw M5X25	8
89	Mitre Gauge Assembly	1
90	Table Insert	1
91	Hex.Socket Set Screw M4X6	12
92	Hex.Socket Set Screw M8X10	8
93	Dust Hose Support	1
94	Cable Gland M20	1
95	Blade Guard Assembly	1
96	Hex.Bolt M8X12	14
97	Semi-Round Key 3X16	2
98	Hex.Socket Set Screw M8X8	6
99	Thrust Washer 30X17X0.8	2
100	Circlip Ring For Shaft 20	1

AP305SBD EXPLODED DIAGRAM/PARTS LISTS

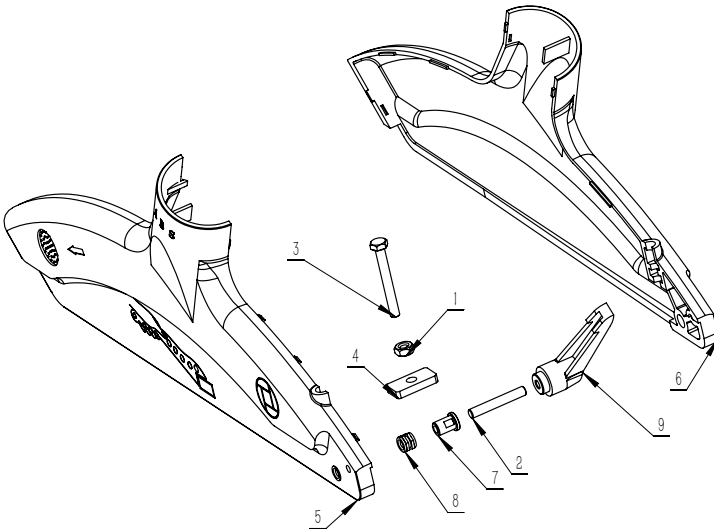
Diagram/Parts List E



No.	Description	QTY
1	Driving Pulley B	1
2	Shaft Pulley	1
3	Arbor Shaft Sleeve	1
4	Arbor Shaft Spacer Bushing	1
5	Arbor Shaft Ending Bushing	1
6	Blade Shaft	1
7	Small Arbor Shaft Spacer Bushing	1
8	Cross Recessed Countersunk Screw M6X20	1
9	Hex.Socket Cap Head Screw M10X30	3
10	Saw Blade	1
11	Riving Knife Bracket	1
12	Semi-Round Key 3X16	2
13	Mounting Base	1
14	Lifting Worm	1
15	Handwheel	1
16	Washer 6	5
17	Shaft	1
18	Thin Nut M22X1.5	4
19	Retaining Hoop	1
20	Locking Nail B	1
21	Press Board,Riving Knife	1
22	Washer 10	4
23	Hex.Socket Countersunk Head M8X20	1
24	Pulling Rod Shaft	1
25	Spring Washer 6	2
26	Hex.Bolt M8X25	2
27	Spring Washer 8	2
28	Washer 8	2
29	Hex.Socket Set Screw M8X6	6
30	Hex.Bolt M8X16	2
31	Spring Pin 6	2
32	Key 5X20	1
33	Motor	1

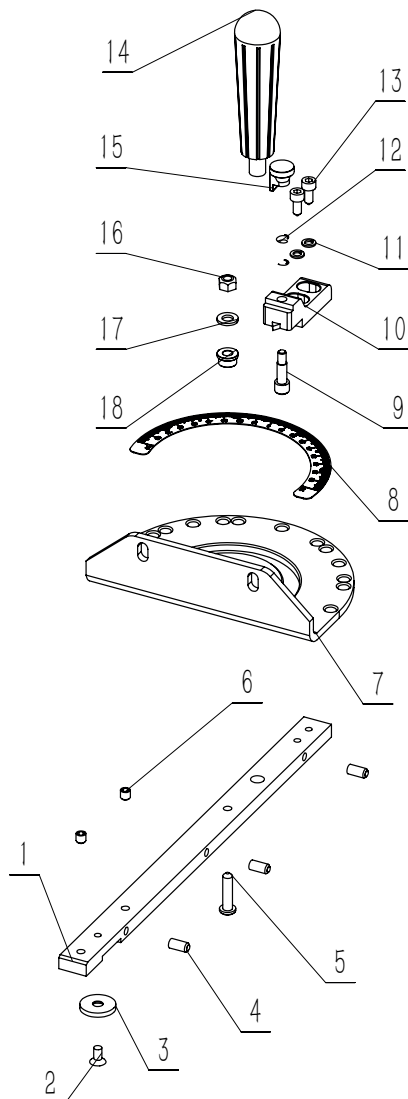
No.	Description	QTY
34	Lifting Worm Wheel	1
35	Hex.Socket Cap Head Screw M10X30	2
36	Bearing 6203	3
37	Mounting Base	1
38	Shaft Base	1
39	Driving Belt	1
40	Connection Rod Of Riving Knife Bracket	1
41	Riving Knife	1
42	Spring Washer 10	3
43	Thrust Washer 30X17X0.8	2
44	Hex.Socket Cap Head Screw M8X16	1
45	Arbor Flange	1
46	Thin Nut M16X2(Left)	1
47	Torsion Spring	1
48	Hex.Bolt M10X40	1
49	Hex.Nut M10	1
50	Variable Diameter Sleeve	1
51	Pointer B	1
52	Pointer Seat	2
53	Dust Collection Cover	1
54	Dust Outlet,Dust Collection Cover	1
55	Cross Recessed Pan Head Screw M5X10	3
56	Hex.Socket Cap Head Screw M6X12	3
57	Hex.Socket Flat Head Set Screw M8X10	1
58	Hex.But M8	1
59	Hex.Socket Set Screw M6X6	2
60	Knob	1
61	Hex.Socket Cap Head Screw M10X80	1
62	Cross Recessed Pan Head Screw M5X8	2
63	Thin Nut M6	2
64	Hex.Socket Set Screw M5X6	1
65	Key 8X25	1

Diagram/Parts List F



No.	Description
1	Hex.Nut M6
2	Hex.Socket Flat Head Set Screw M6X40
3	Hex.Bolt M6X15
4	Locking Nut
5	Blade Guard A
6	Blade Guard B
7	Fixed Busing, Blade Guard
8	Inserting Nut
9	Ratchet Lever

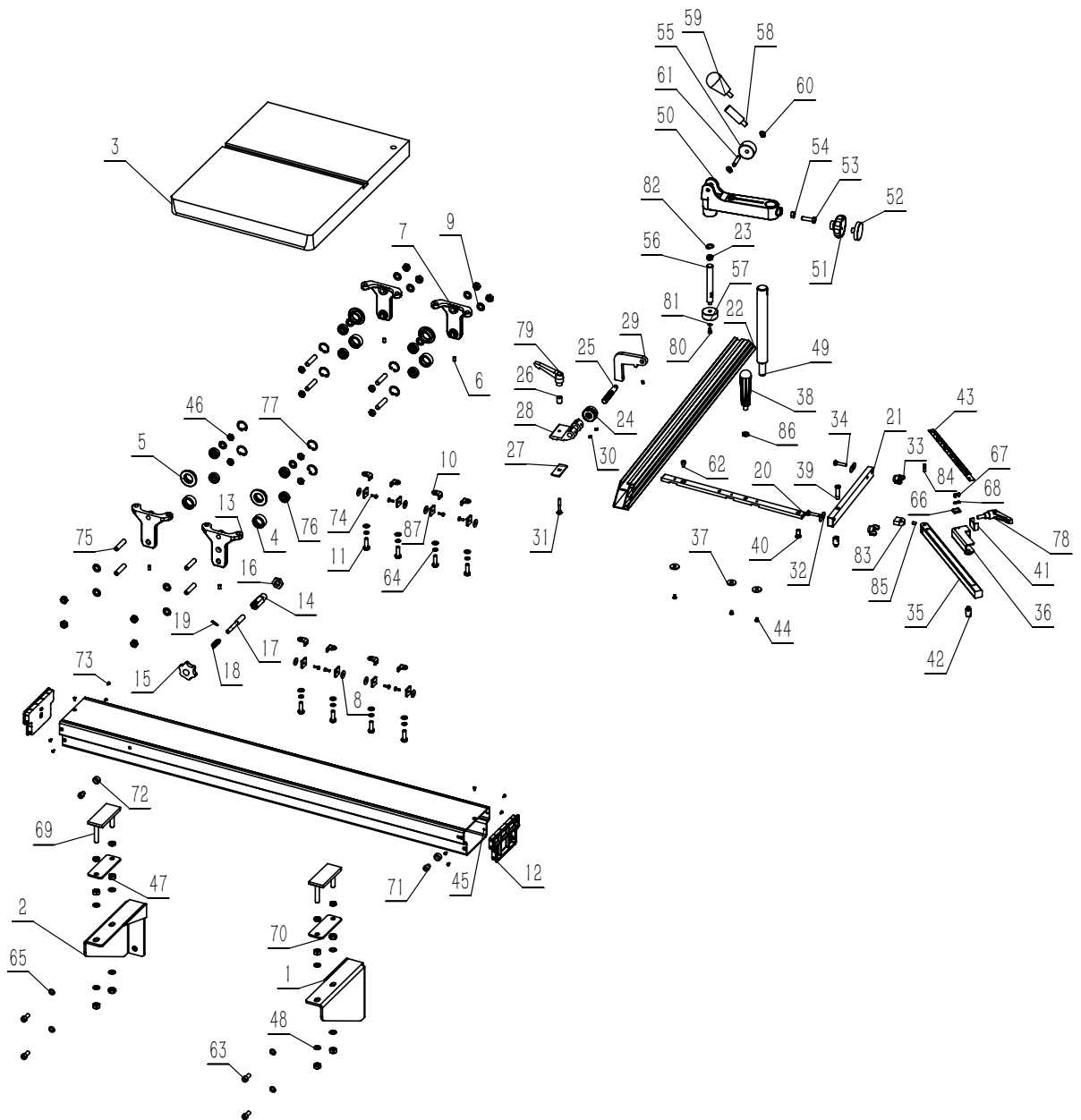
Mitre Fence Diagram/Parts List G



No.	Description	QTY
1	Mitre gauge guide rod	1
2	Cross recessed countersunk screw	1
3	Rail washer	1
4	Hexagon socket set screws M6X12	3
5	Hex.socket pan head screw M6X20	1
6	Hex.socket set screw M6X6	2
7	Mitre gauge base	1
8	Scale	1
9	Stop pin	1
10	Block indicator	1
11	Spring washer 5mm	2
12	Stop spring	1
13	Hex.socket cap head bolt M5X12	2
14	Mitre gauge knob	1
15	Stopping knob	1
16	Self-locking nut M6	1
17	Washer 6mm	1
18	Stop pin	1

AP305SBD EXPLODED DIAGRAM/PARTS LISTS

Diagram/Parts List G



AP305SBD EXPLODED DIAGRAM/PARTS LISTS

No.	Description	QTY
1	Front Supporting Bracket,Sliding Table Rail	1
2	Rear Supporting Bracket,Sliding Table Rail	1
3	Sliding Table	1
4	Roller A	4
5	Roller B	4
6	Hex.Socket Flat End Set Screw M6X10	4
7	Bearing Mounting Base	3
8	Special Big Washer 5	8
9	Washer 10	12
10	Felt Pad Seat	8
11	Hex.Bolt M8X25	8
12	End Cap,Sliding Table Rail	2
13	Bearing Mounting Base	1
14	Fixed Sleeve	1
15	Locking Knob	1
16	Thin Hex.Nut M16	1
17	Fixed Shaft,Sliding Table	1
18	Spring	1
19	Open Cylindrical Pin	1
20	Guide Rail	1
21	Mounting Board,Angle	1
22	Rip Fence,Sliding Table	1
23	Spring	1
24	Fine Adjusting Calibration Wheel	1
25	Stud,Flip Stop	1
26	Ratchet Lever Spcer	1
27	Screw Guide	1
28	Flip Stop Base	1
29	Flip Stop	1
30	Hex.Socket Flat End Set Screw M6X10	3
31	Semi-Round Step Bolt M6X40	1
32	Fixed Pad	2
33	Wing Nut	2
34	Semi-Round Step Bolt M6X35	2
35	Angle Rod	1
36	Locking Sleeve,Angle Rod	1
37	Rail Washer	3
38	Locking Handle	1
39	Long Step Screw	1
40	Step Screw	1
41	Spacer	1
42	Cushion Sleeve	2
43	Angle Scale	1
44	Hex.Socket Countersunk Screw M5X8	3

No.	Description	QTY
45	Sliding Table Rail	1
46	Thin Hex.Nut M10	12
47	Hex.Nut M10	16
48	Washer 10	8
49	Stud,Hold Down	1
50	Arm,Hold Down	1
51	Locking Knob	1
52	End Cap,Locking Knob	1
53	Hex.Bolt M8X30	1
54	Hex.Nut M8	1
55	Eccentric,Hold Down	1
56	Stud,Hold Down	1
57	Disc,Hold Down	1
58	Screw Rod,Hold Down	1
59	Locking Handle	1
60	Circlips For Shaft 8	2
61	Eccentric Shaft	1
62	Hex.Socket Cap Head Screw M6X10	1
63	Hex.Socket Cap Head Screw M8X20	4
64	Spring Washer 8	12
65	Washer 8	12
66	Pointer	1
67	Cross Recessed Pan Head Screw M4X5	2
68	Washer 4	2
69	Square Bolt	2
70	Spacer,Square Bolt	2
71	Hex.Socket Cap Head Screw M8X12	2
72	Rubber Stopping Sleeve	2
73	Cross Recessed Countersunk Tapping Screw ST3.5X8	10
74	Cross Recessed Pan Head Screw M4X12	8
75	Hex.Socket Flat End Set Screw M10X45	8
76	Deep Groove Ball Bearing 6000-2LS	8
77	Circlips For Hole 47	8
78	Ratchet Lever A	1
79	Ratchet Lever B	1
80	Hex.Socket Cap Head Screw M5X10	1
81	Washer 5	1
82	Circlips For Shaft 14	1
83	Axle Seat	1
84	Round Pin 6X20	1
85	Hex.Socket Flat End Set Screw M6X8	1
86	Thin Hex.Nut M10	1
87	Felt Pad	8