

AP4300T/1 Code **700355**
AP5300T/2 Code **501218**



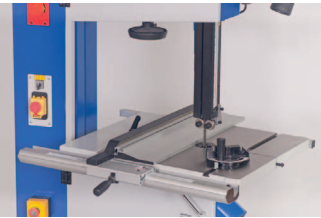
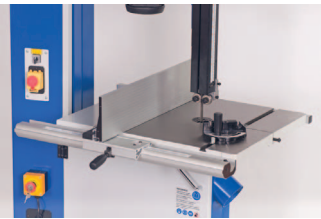
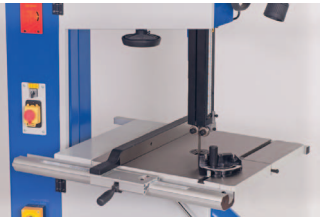
AP4300T/1 & AP5300T/2 Bandsaws



Code: 700355



Code: 501218



Electro-magnetic motor
brake control switch



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Declaration of Conformity

Copied from CE Certificate

The undersigned, by W. Feucker

Authorised by OAV Equipment and Tools, Inc.
No. 96, Wucuo 1st st., Qingshui Dist.,
Taiwan, R.O.C. 43641

Product: Band saw

Model Number SBW-430 and SBW-530

Manufactured by OAV Equipment and Tools, Inc. is in compliance with the standards determined in the following Council Directive.

EC Directive: 2006/42EC

Article 12, Section 3b Machinery



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



HAZARD
Motor gets hot

Model Number		SBW-430
Quantity	Item	Code
1 No	AP4300T/1	700355
	Bandsaw Blade 3,327mm (131") long, mounted on saw but not tensioned.	
1 No	Cast Iron Table	1
1 No	Instruction Manual	



Model Number		SBW-530
Quantity	Item	Code
1 No	AP5300T/2	501218
	Bandsaw Blade 3,860mm (152") long, mounted on saw but not tensioned.	
1 No	Cast Iron Table	1
1 No	Instruction Manual	



Fence Assembly:

Quantity	Item	
1 No	Front Fence Rail with Scale	2
1 No	Rear Fence Guide Rail	3
1 No	Fence	4
1 No	Fence Clamp Assembly with Magnifying Glass	5
1 No	M8 Lift and Shift Handle	6
1 No	M8 Threaded Lever	7
1 No	Threaded 'T' Slot Insert	8
2 No	M6 x 20mm Threaded Bolts	9
2 No	M6 x 16mm Cap head Bolts	10
1 No	M8 Large Washer	11
2 No	M6 Small Washers	12
2 No	Spring Washers	13
1 No	M8 Nut	14
1 No	User Manual	

Table Extension:

Quantity	Item	
1 No	Extension Table	15
3 No	M8 x 20mm Bolts	16
3 No	M8 Washers	17
3 No	M8 Spring Washers	18

Bags Containing:

1 No	Mitre Fence	19
1 No	Blade Guide Operating Wheel	20
1 No	Table Alignment Pin	21
1 No	10-13mm Spanner	22
1 No	5-8mm Hex Keys	23
4 No	M8 x 16mm Threaded Bolts	24
1 No	M8 x 90mm Threaded Bolt/Nut	25
4 No	M8 Washers	26
4 No	M8 Spring washers	27



Please read the Instruction Manual prior to using your new machine; as well as the operating procedures for your new machine, there are numerous hints and tips to help you to use the machine safely and to maintain its efficiency and prolong its life. Keep this Instruction Manual readily accessible for any others who may also be required to use the machine.

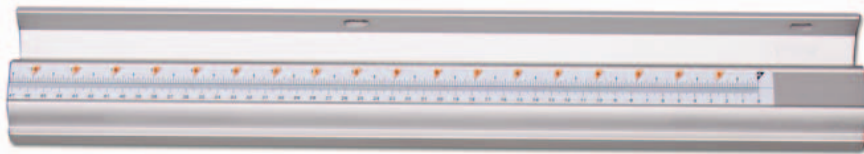
What's Included



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3



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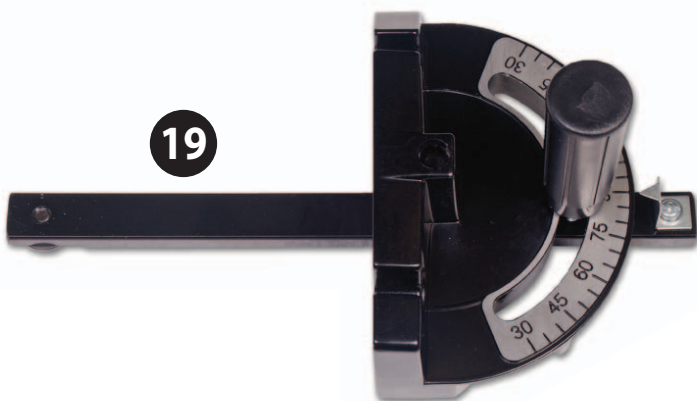
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17

18



25

General Instructions for 230V Machines

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

Mains Powered Tools

Primary Precautions

These machines are supplied with attached 16 Amp. plug and 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 tool 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 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.

Work Place/Environment

Make sure when the machine is placed that it sits firmly on the floor; that it does not rock and is sufficiently clear of adjacent obstacles so that cutting operations will not be impeded. Check you have adequate clearance both in front of and behind the machine when cutting long stuff. If you are liable to be processing unwieldy or awkward work pieces, it is suggested that you consider fastening the machine down to the floor.

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 set up in the open, and it starts to rain (unusual though this would be in U.K.), cover it up or move it into the dry. If the machine has got wet, dry it off as soon as possible with a cloth or paper towel.

Do not use 230V a.c. powered machines anywhere within a site area that is flooded or puddled and do not trail extension cables across wet areas.

Keep the machines clean; it will enable you to more easily see any damage that may have occurred.



UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS

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. 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 all tools used in the setting operations (if any) and place safely out of the way. Re-connect the machine.

Carry out a final "tightness" check e.g. guide fence, table tilt, etc., check that the 'cutting path' (in this case the path that the work piece will travel) is unobstructed.

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., and 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, hair net, even a sweatband, will minimise the possibility of your hair being caught up in the rotating parts of the tool. 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 nonslip footwear, etc..

DO NOT work with cutting tools 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 blades 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.

Above all, **OBSERVE....** make sure you know what is happening around you and **USE YOUR COMMON SENSE.**

Code No	700355
Model	AP4300T/1
Rating	Industrial
Power	1,500W 230V 1ph
Blade Speed	430 & 850m/min
Blade Length	3,327mm
Blade Width Min/Max	3mm (1/8") to 25mm (1")
Max Width of Cut	410mm
Max Depth of Cut	300mm
Table Size	600 x 430mm
Table Tilt	-10° to +45°
Table Height	950mm
Dust Extraction Outlet	2 x 100mm
Overall L x W x H	820 x 670 x 1,880mm
Weight	145kg

Code No	501218
Model	AP5300T/2
Rating	Industrial
Power	2,200W 230V 1ph
Blade Speed	575 & 1,200m/min
Blade Length	3,860mm(152")
Blade Width Min/Max	6mm(1/4")/25mm(1")
Max Width of Cut	510mm
Max Depth of Cut	310mm
Table Size	530 x 530mm
Table Tilt	-10° to +45°
Table Height	950mm
Dust Extraction Outlet	2 x 100mm
Overall L x W x H	1,020 x 790 x 2,040mm
Weight	163kg

Main Assembly

Your bandsaw is 95% assembled in order to reduce the footprint of the machine for packaging, several items are dismantled from the machine and need to be re-affixed.

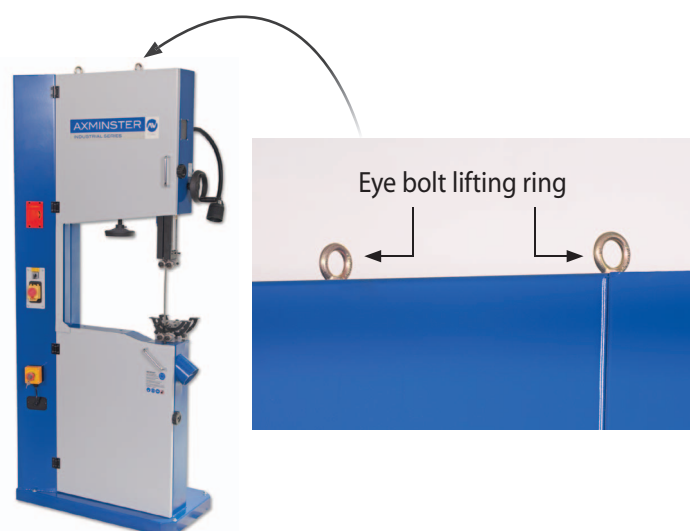


HAVING UNPACKED YOUR ACCESSORIES PLEASE DISPOSE OF ANY UNWANTED PACKAGING PROPERLY. THE POLYTHENE AND CARD IS RECYCLABLE.



WARNING! THE BANDSAW IS A HEAVY PIECE OF MACHINERY, WE STRONGLY ADVISE YOU GET THE ASSISTANCE OF ANOTHER PERSON OR USE SOME SORT OF LIFTING DEVICE, (HOIST, ENGINE CRANE), BEFORE YOU ATTEMPT TO LIFT OR MOVE THIS MACHINE!

Lift the bandsaw off the pallet and place on a flat surface ascertain the orientation of the machine and move it to its desired position in the workshop. Ensure that the machine is positioned to allow sufficient clearance all round to cater for the maximum length of timber you wish to cut.



Mounting the Table

1. The saw table can be fitted without removing the blade. However, if you would feel more comfortable not having to manoeuvre the table around the blade, the table is quite heavy remove the blade by opening the top and bottom covers, release the tension on the blade by releasing the Quick release tensioning lever (A), see fig 01-02.

Fig 01-02

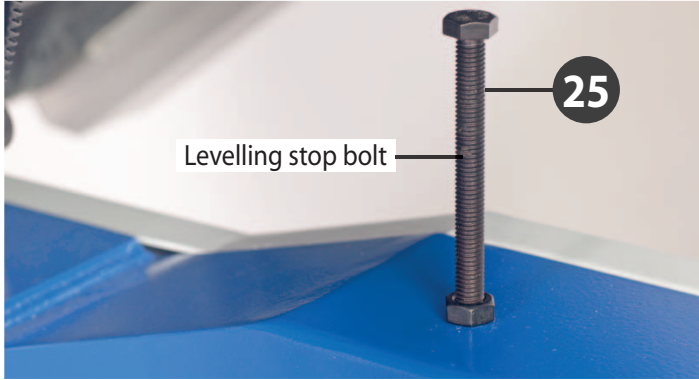


Main Assembly

Locate the cast iron table (1), table alignment pin (21), the four M8 x16mm bolts (24), M8x90mm bolt and nut (25), M8 washers and spring washers (26-27).

2. Locate the threaded bolt/nut (25), screw the nut onto the thread then screw the bolt into the pre-drilled hole in the bandsaw frame behind the tilt quadrant, see fig 03.

Fig 03



3. Remove the table insert and place safely aside, see fig 04, lift the table (1), slide the blade through the table slot, see fig 05. Lower the table on to the tilt quadrant assembly and line up threaded holes with the pre-drilled holes in the tilt quadrant, see fig 06. Place a spring/washer (26-27) over each M8 threaded bolt (24), see fig 07-08 and secure the table in position using the supplied spanner (22), see fig 09.

Fig 04

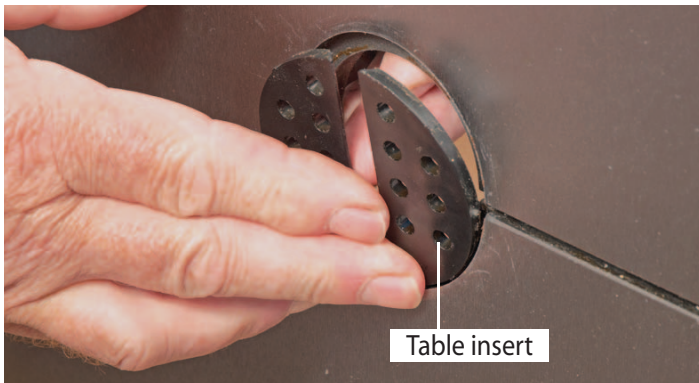


Fig 05

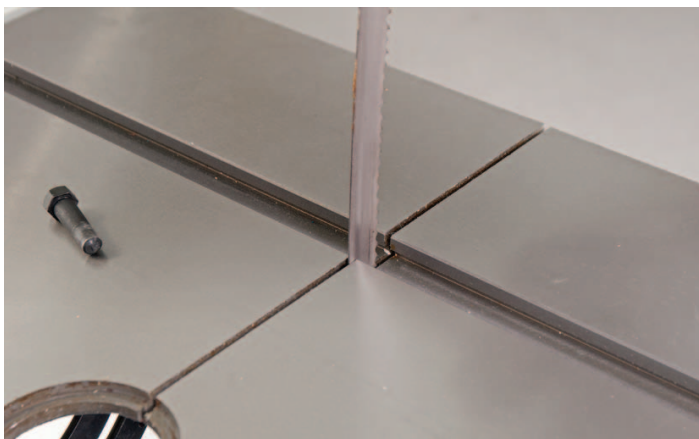


Fig 06

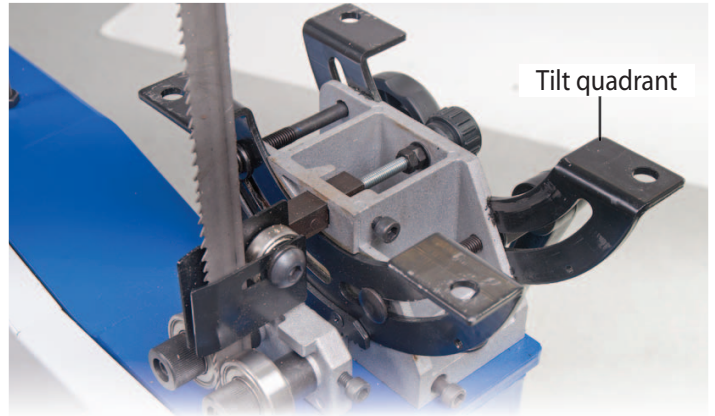
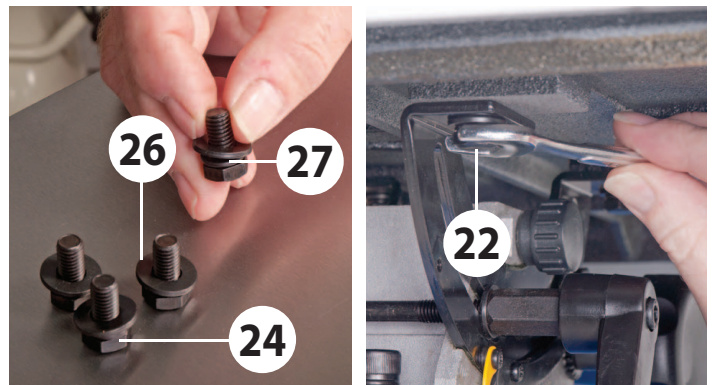
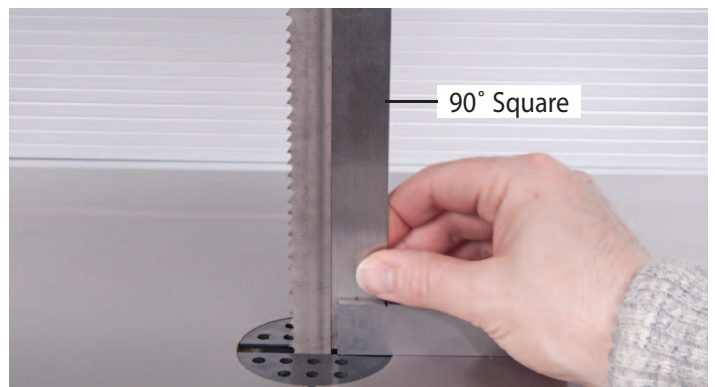


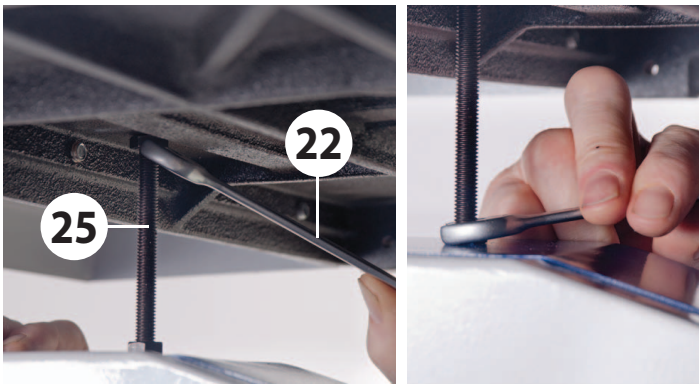
Fig 07-08-09



4. Place a 90° square up against the blade and adjust the table levelling stop bolt (25) beneath the table until the table is perpendicular to the blade. Nip tighten the nut on the stop to lock the setting, see figs 10-11-12.

Fig 10-11-12





5. Locate the table alignment pin (21), place a straight edge or 90° square across the table's slot and introduce the tapered alignment pin into the tapered hole to the front of the table, this will align both sides of the table, see figs 13-14.

Fig 13-14

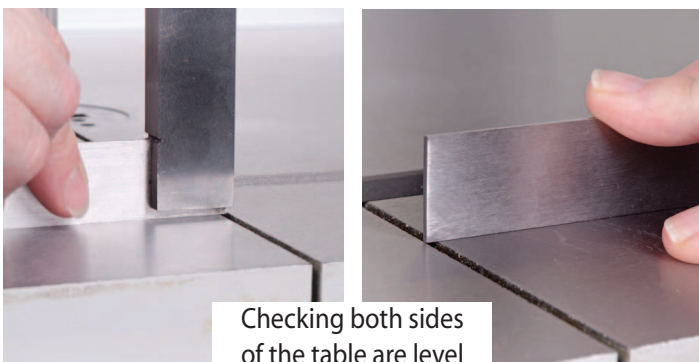
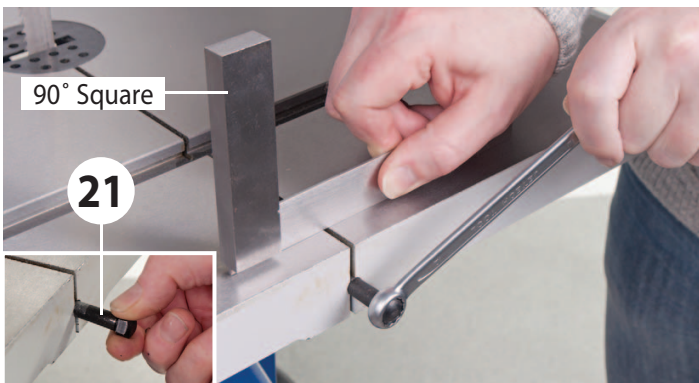


Table Extension

6. Locate the table extension (15), M8x20 bolts (16) and M8 spring/washers (17-18), see fig 15. Place a washer and spring washer over each bolt, line up the holes in the extension table (15) with the threaded holes to the rear of the cast iron table (1) and lightly secure in place with the three M8 bolts (16), using the supplied spanner (22), see figs 15-16.

Fig 15-16



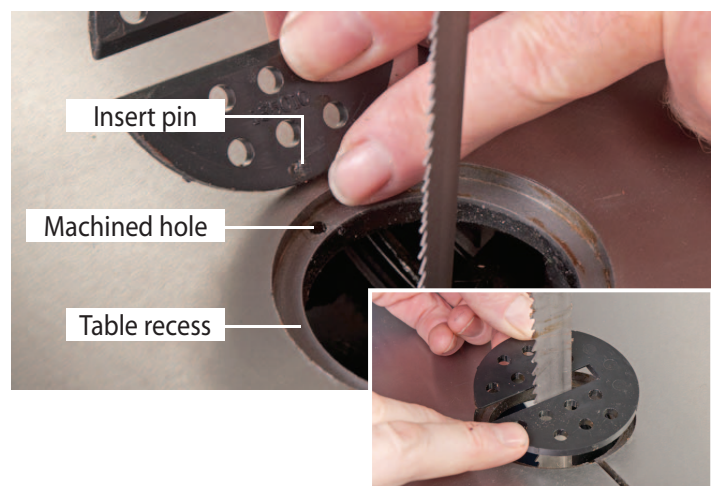
7. Place a straight edge or 90° square across both tables until they are in line then tighten the three bolts, see figs 17-18.

Fig 17-18



8. Replace the table insert by lining up the two pins in the insert with the machined holes in the recess to the centre of the cast iron table. Push firmly down, see figs 19-20.

Fig 19-20



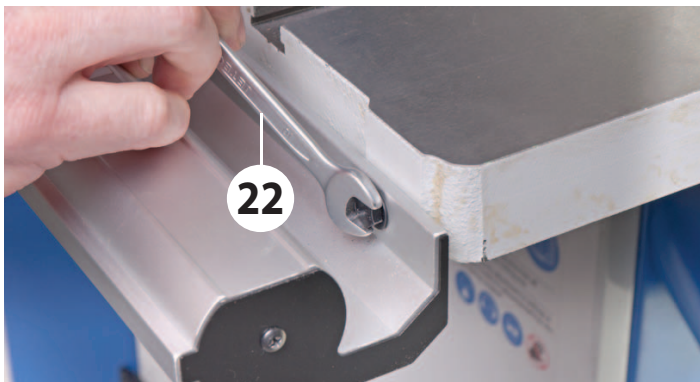
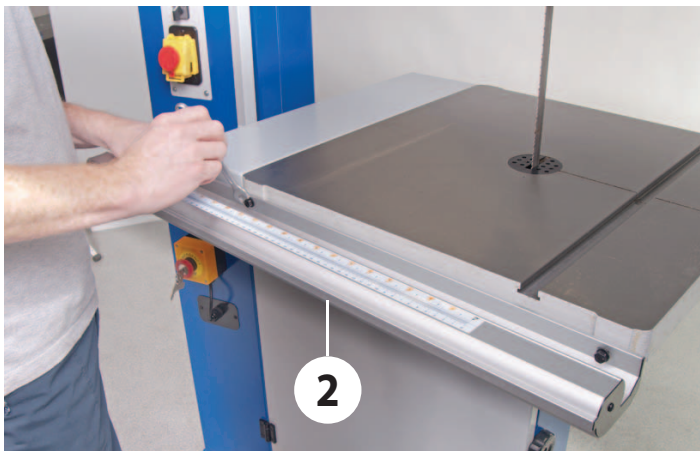
Main Assembly

Fence Assembly

Locate the front fence rail with scale (2), rear fence guide rail (3), fence (4), fence clamp assembly (5), M8 lift & shift handle (6), M8 threaded lever (7), threaded 'T' slot insert (8), M6x20mm bolts (9), M6x16mm bolts (10), M8 large washer (11), M6 small washers (12), spring washers (13) and M8 nut (14).

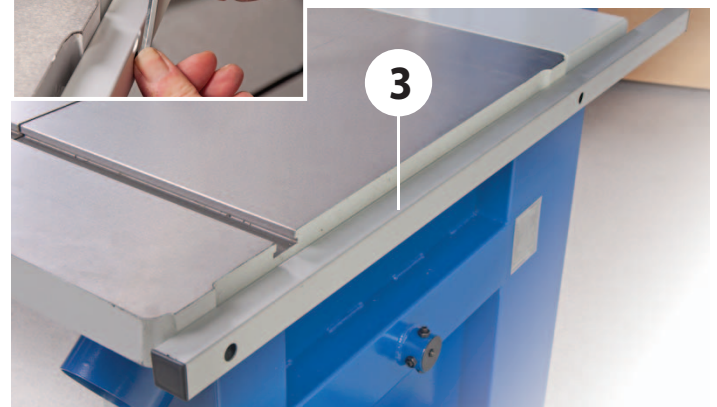
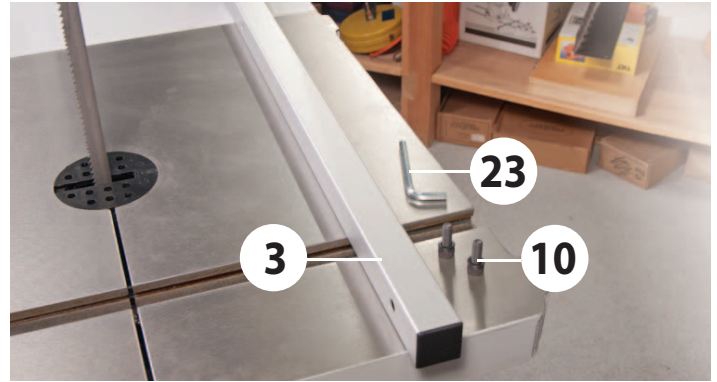
1. Place a washer (12) over each M6x20mm bolt (9), line up the elongated holes in the front fence rail (2) with the pre-drilled holes to the front of the cast iron table (1), introduce the two M6x20mm bolts (9) through the fence rail and lightly tighten using the supplied spanner (22), see figs 21-22-23.

Fig 21-22-23



2. Place a spring washer (13) over each M6 cap head screw (10), line up the holes in the rear fence guide rail (3) with the threaded holes to the opposite side of the cast iron table and secure in place with the two M6 cap head screws (10) and 5mm Hex key (23), see figs 24-25-26.

Fig 24-25-26

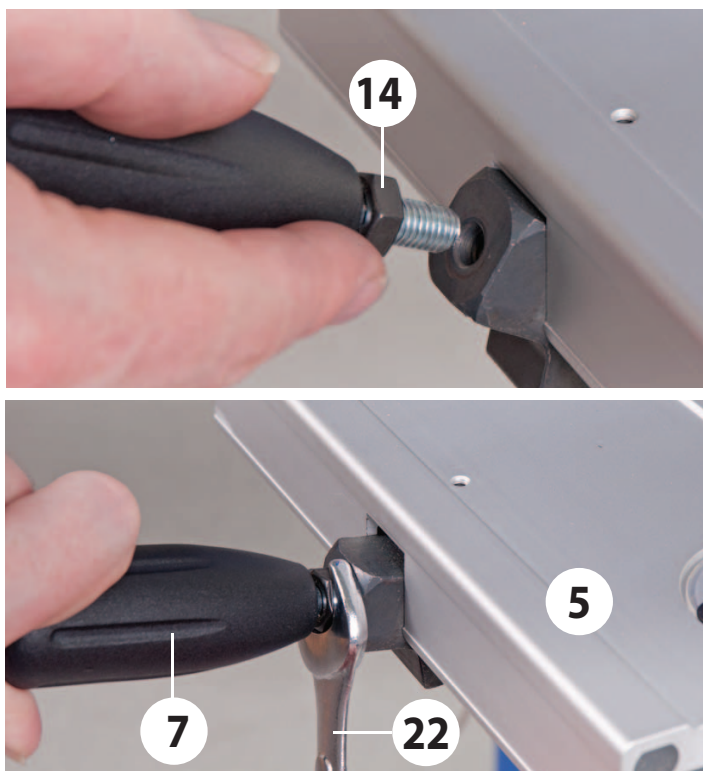


3. Fit the fence clamp assembly (5) over the front fence rail (2) and lower the rear of the clamp assembly so the adjustable guide rests on top of the rear guide rail (3), see fig 27-28

Fig 27-28

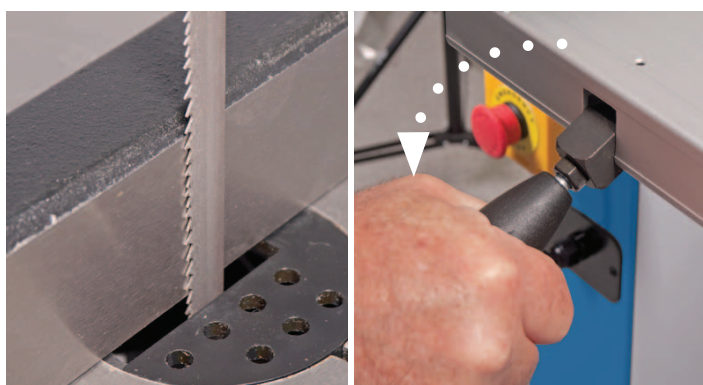


Fig 29-30



4. Locate the M8 nut (14), and screw it onto the thread of the M8 threaded lever (7) then screw the threaded lever (7) into the threaded hole in the clamp assembly (5) mechanism and tighten the nut with the supplied spanner (22), see figs 29-30.

Fig 31



5. Slide the fence assembly (5) until its up against the blade and press down the locking lever (7), see fig 31. Look at the magnifying glass to check it's set to '0' on the scale, see fig 32. If it's out of alignment, loosen the front fence rail (2) and tap the side of the fence until the scale reads '0' then re secure the fence rail, see figs 33-34.

Fig 32

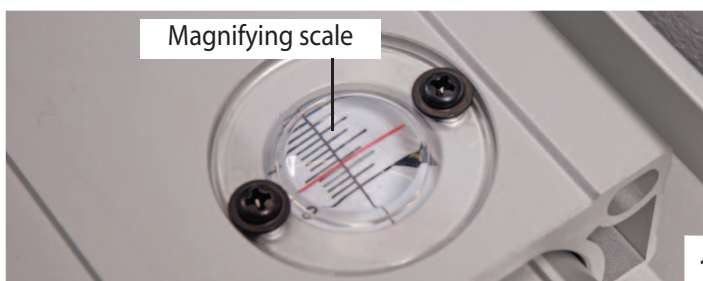
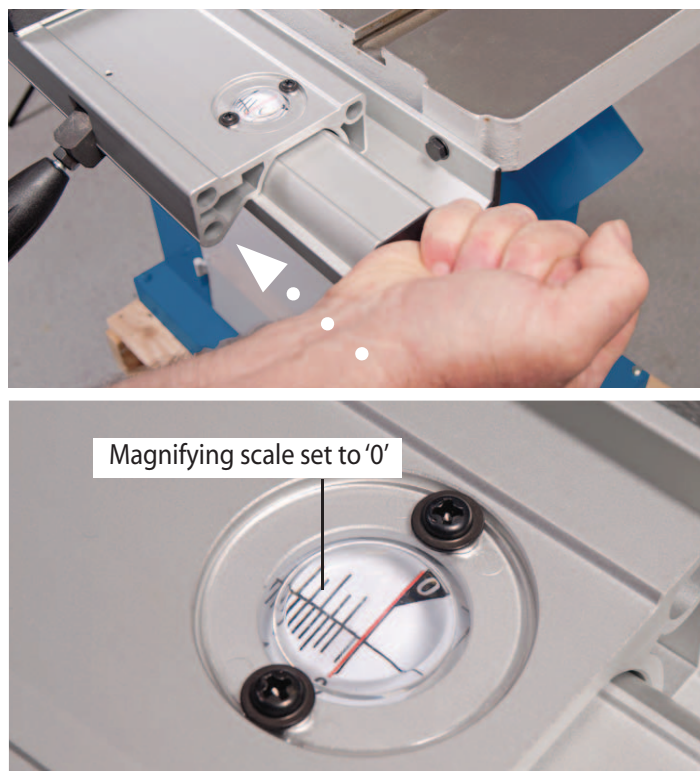


Fig 33-34



6. Locate the fence (4), M8 lift and shift handle (6), M8 large washer (11) and threaded 'T' slot insert (8), see fig 35. Place the large washer over the thread of the lift and shift handle (6), see fig 36, introduce the handle through the machined hole to the side of the cast iron fence (5) and lightly screw on the threaded 'T' slot insert (8), see fig 37.

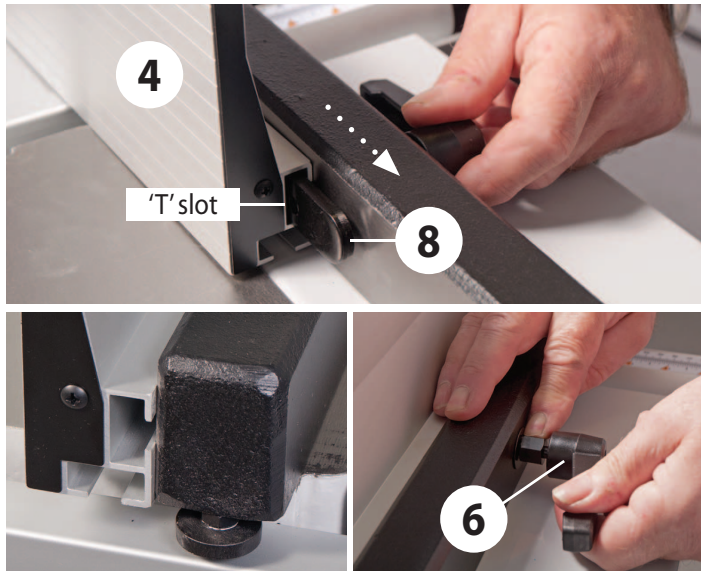
Fig 35



Main Assembly

7. Introduce the 'T' slot to the side of the fence (4) over the threaded 'T' slot insert (8) and slide on the fence until the fence (4) is flush with the end of the cast iron fence (5). Tighten the lift and shift handle (6), see figs 38-39-40.

Fig 38-39-40



NOTE: The fence (4) has two positions, vertical and horizontal for cutting narrow pieces, see figs 41-42-43.

Fig 41-42-43



Mitre Fence Assembly

8. Locate the mitre fence (19) and slide the mitre fence into the table (1) 'T' slot, see fig 44.

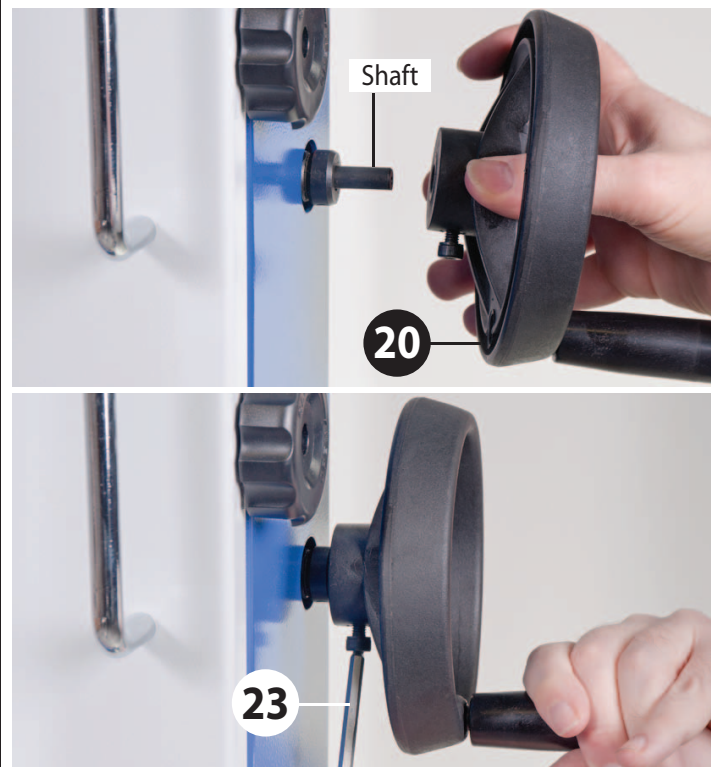
Fig 44

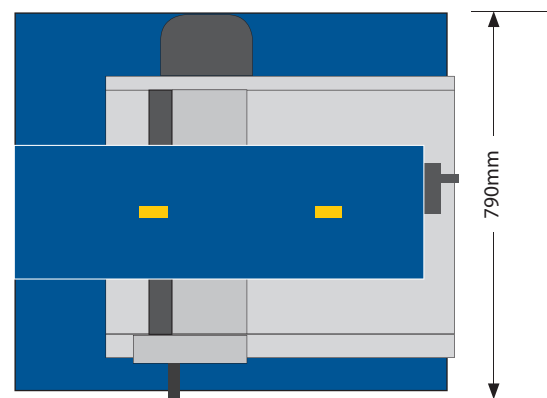
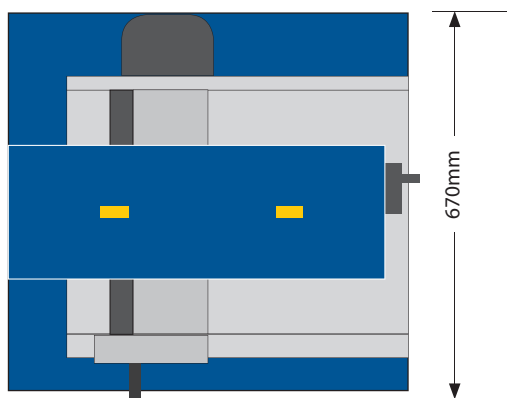
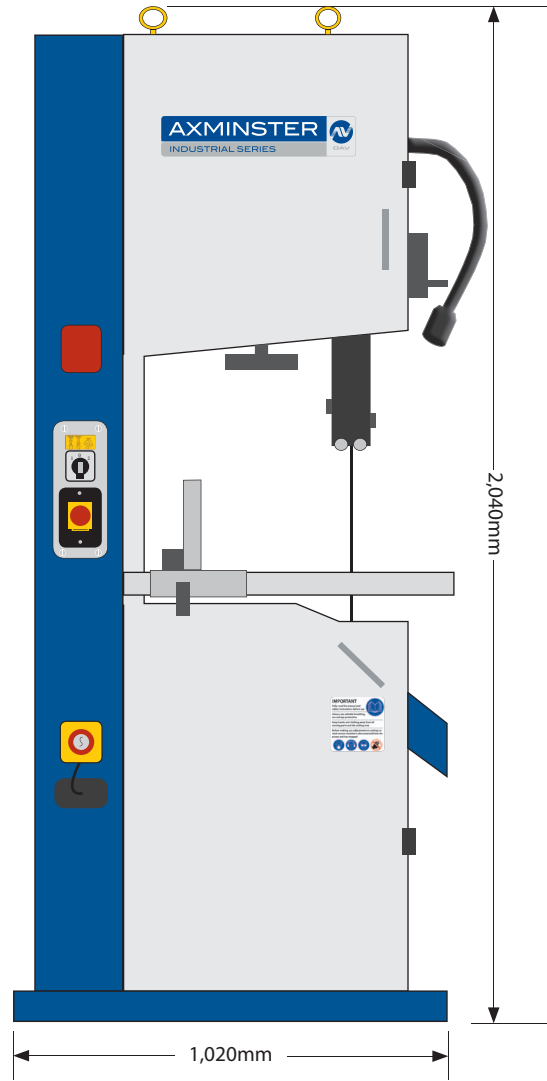
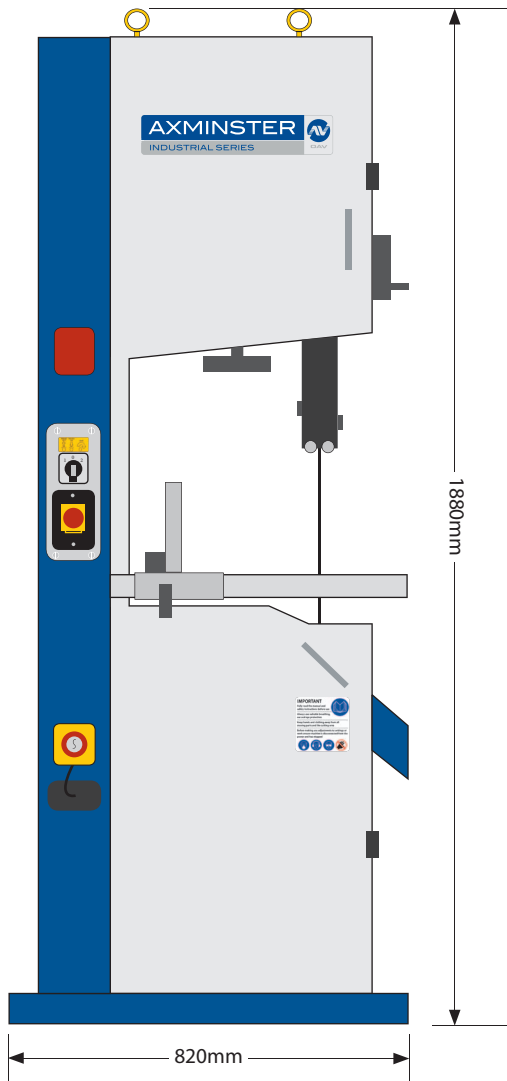


Blade Guide & Guard Height Operating Wheel

Locate the operating wheel (20) and 5mm Hex key (23). Loosen the cap head screw on the hand wheel and slide it onto the shaft. Re-tighten the cap head screw, see figs 45-46.

Fig 45-46





Code: 700355 AP4300T/1 Industrial Bandsaw

Code: 501218 AP5300T/2 Industrial Bandsaw

Illustration and Parts Description

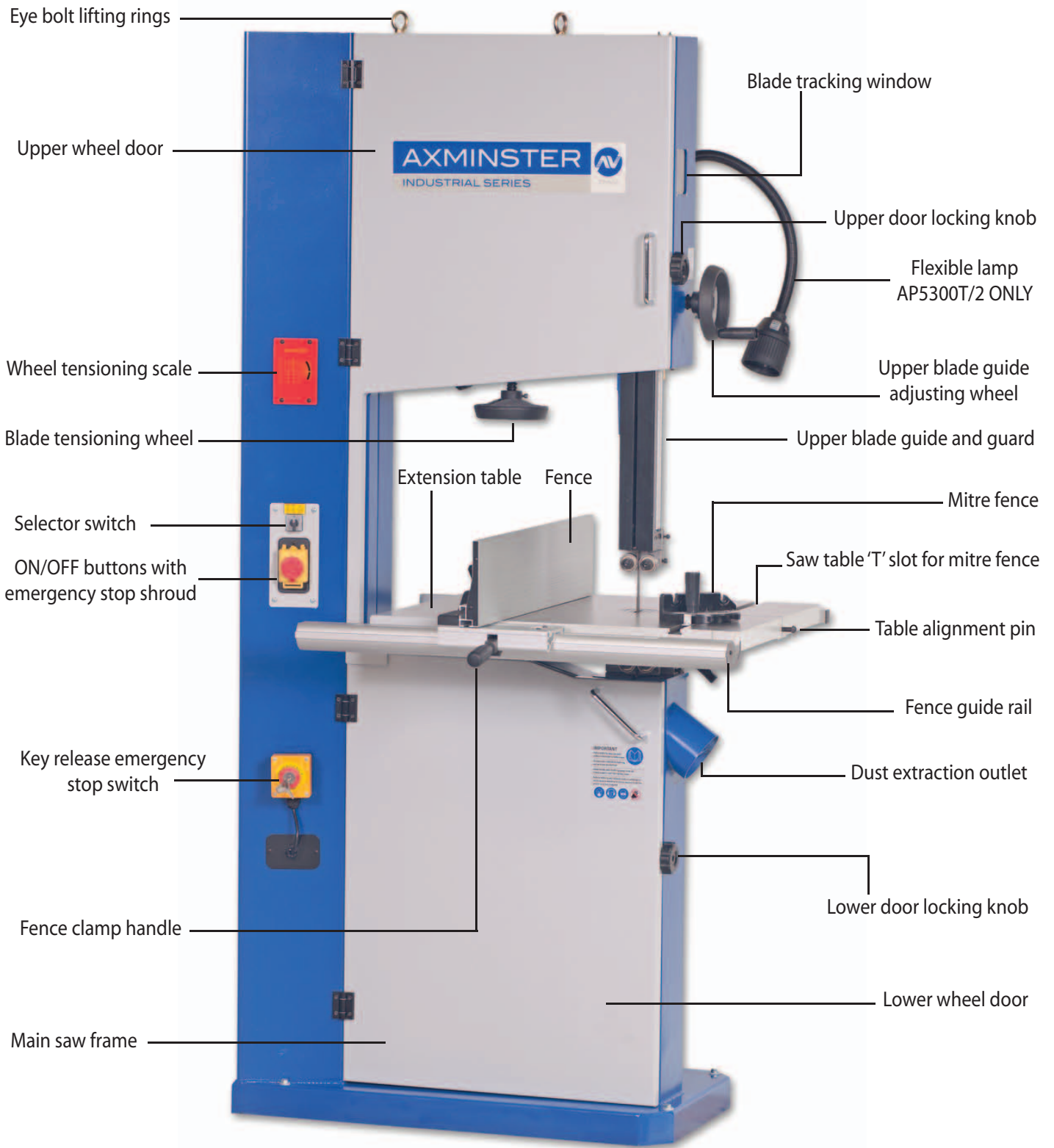


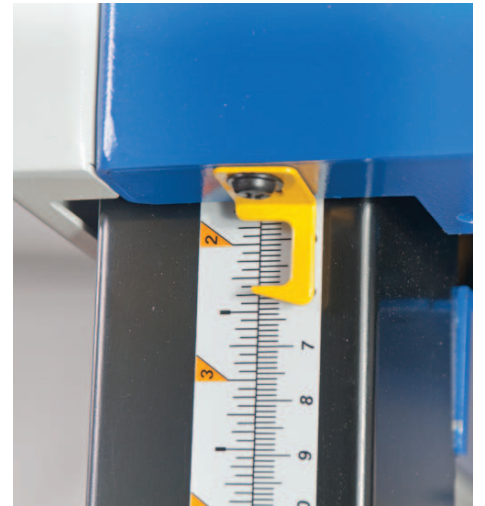
Illustration and Parts Description



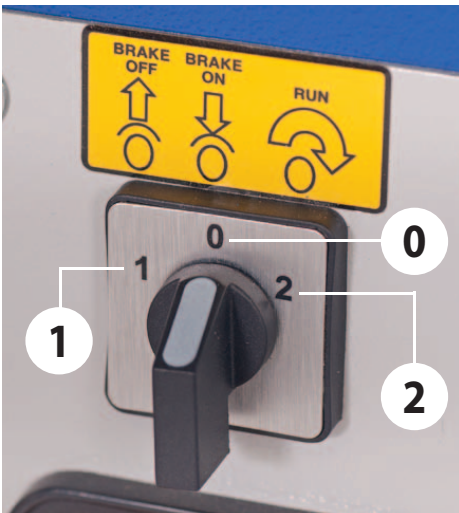
Key release emergency stop, press the button to stop the bandsaw and turn the key to release it



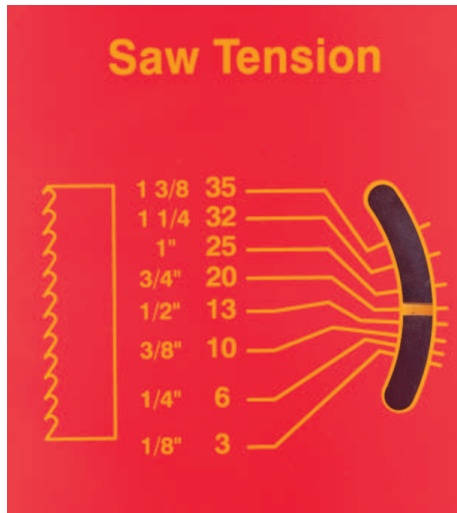
NVR ON/Off switch with emergency stop shroud and electro-magnetic switch assembly



Upper blade guide height scale and pointer



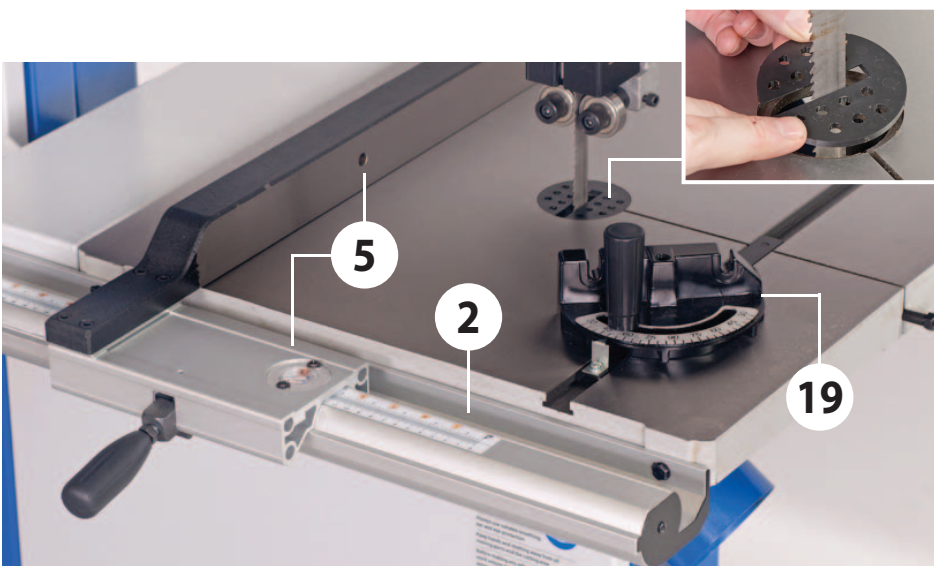
Electro-magnetic motor brake switch
Brake OFF (1), Brake ON (0), Run (2)



Wheel tension scale and pointer



Blade tracking window



Fence clamp assembly (5), Mitre fence (19), Fence rail with scale (2)



Scale magnifying glass

Illustration and Parts Description

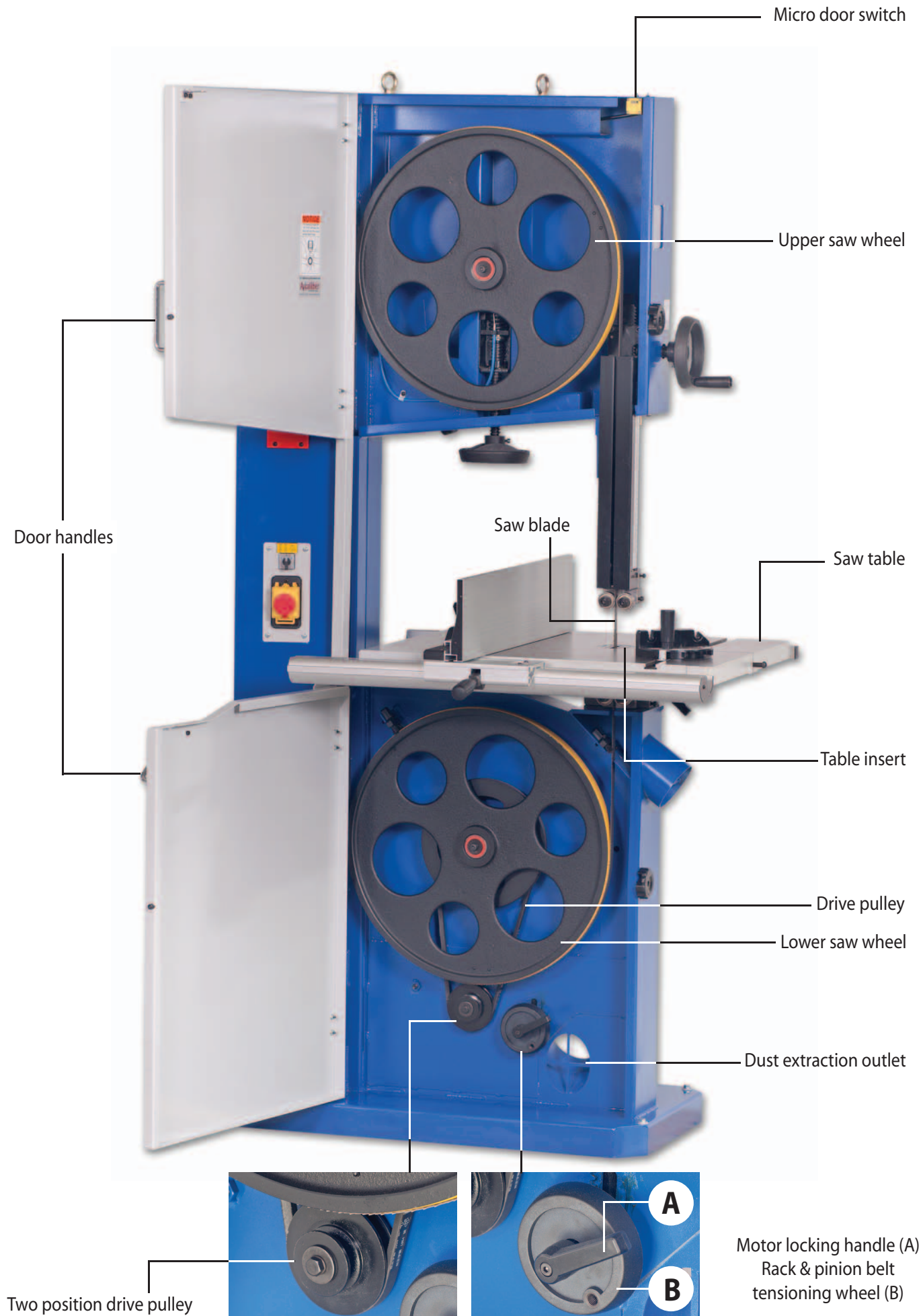
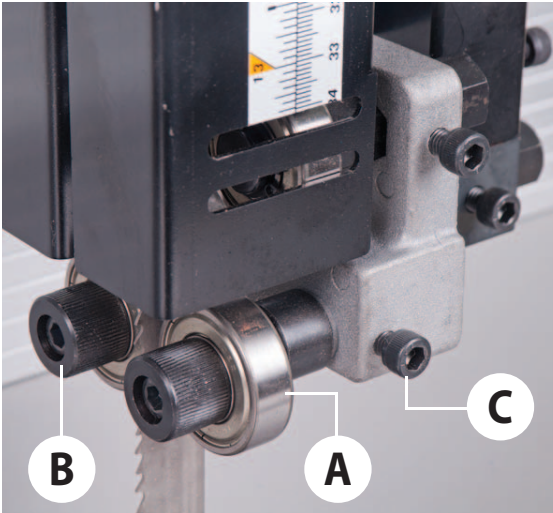
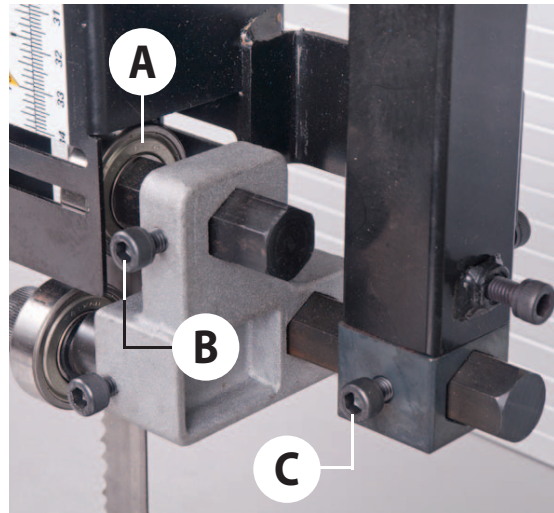


Illustration and Parts Description



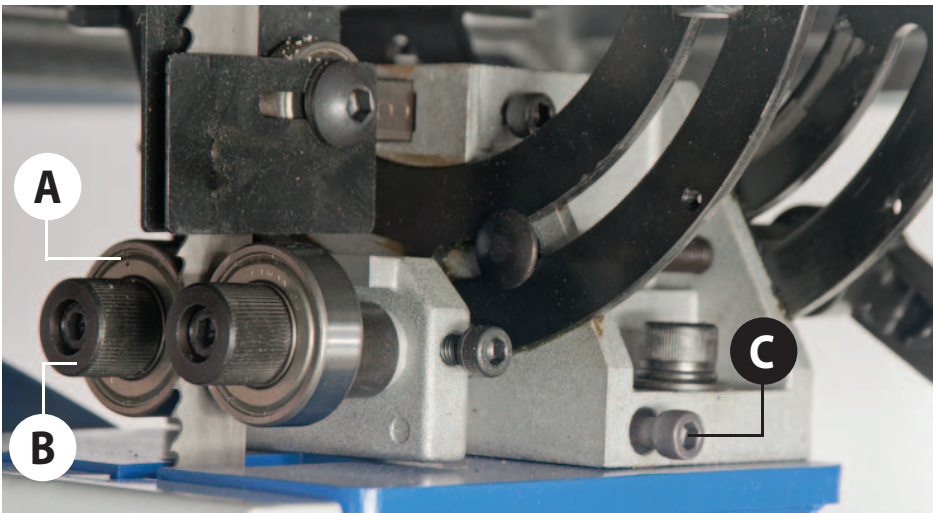
Upper bearing blade guides (A)
Blade guide adjusting knob (B)
Blade guide fore and aft clamping screw (C)



Upper blade thrust bearing (A)
and clamping screw (B)
Guide assembly clamping screw (C)



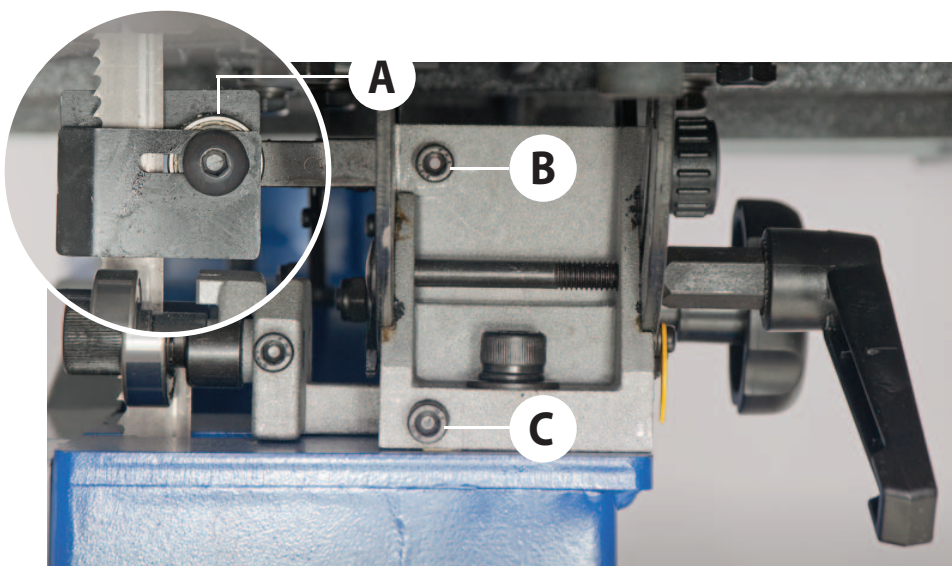
Table levelling stop bolt



Lower bearing blade guides (A), Blade guide adjusting knob (B),
Blade guide fore and aft clamping screw (C)



Lower wheel blade brush

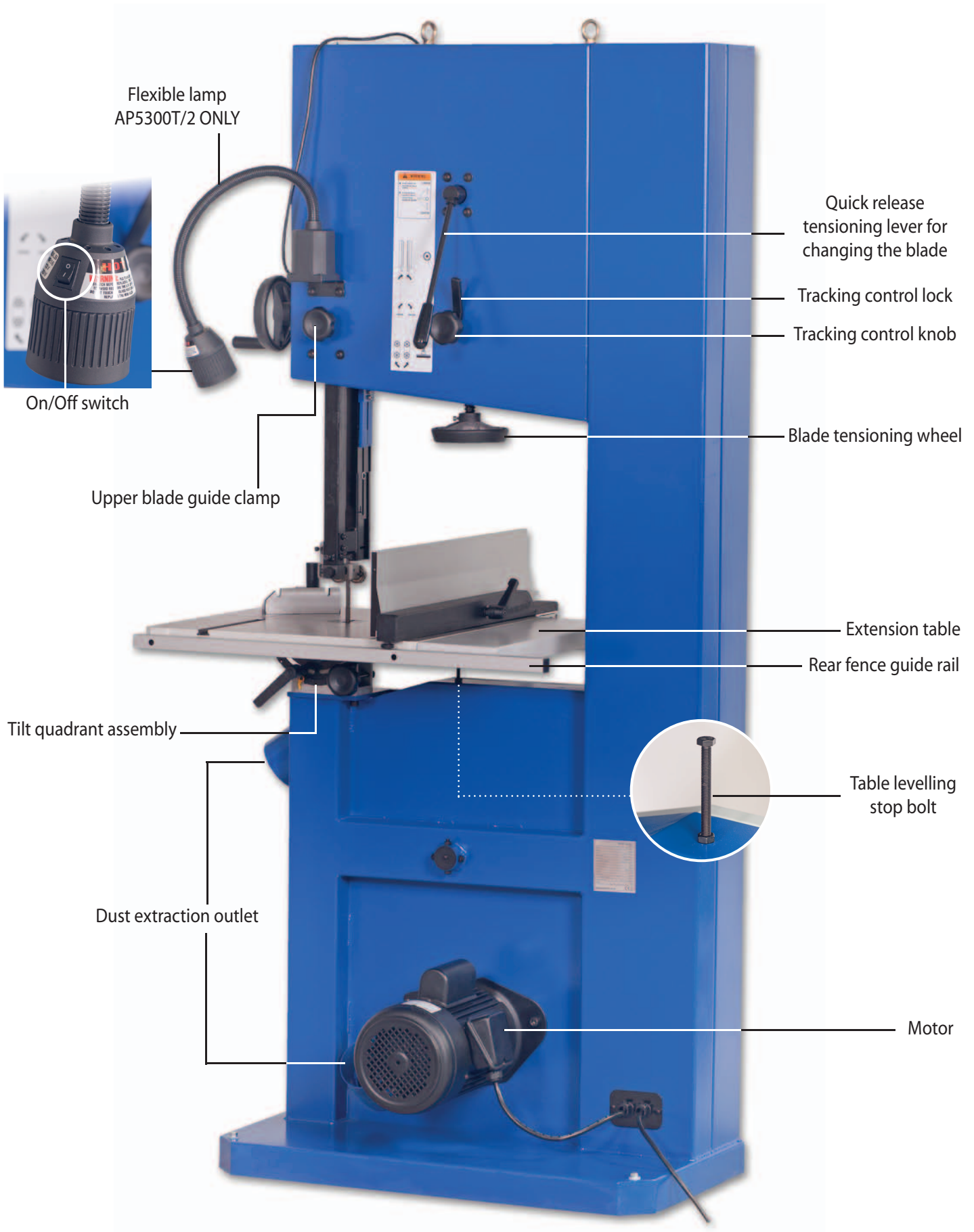


Rear thrust bearing (A), Rear thrust bearing clamping screw (B),
Lower blade guide assembly clamping screw (C)



Lower wheel brush

Illustration and Parts Description



Flexible lamp
AP5300T/2 ONLY



On/Off switch

Upper blade guide clamp

Tilt quadrant assembly

Dust extraction outlet



Motor

Quick release
tensioning lever for
changing the blade

Tracking control lock

Tracking control knob

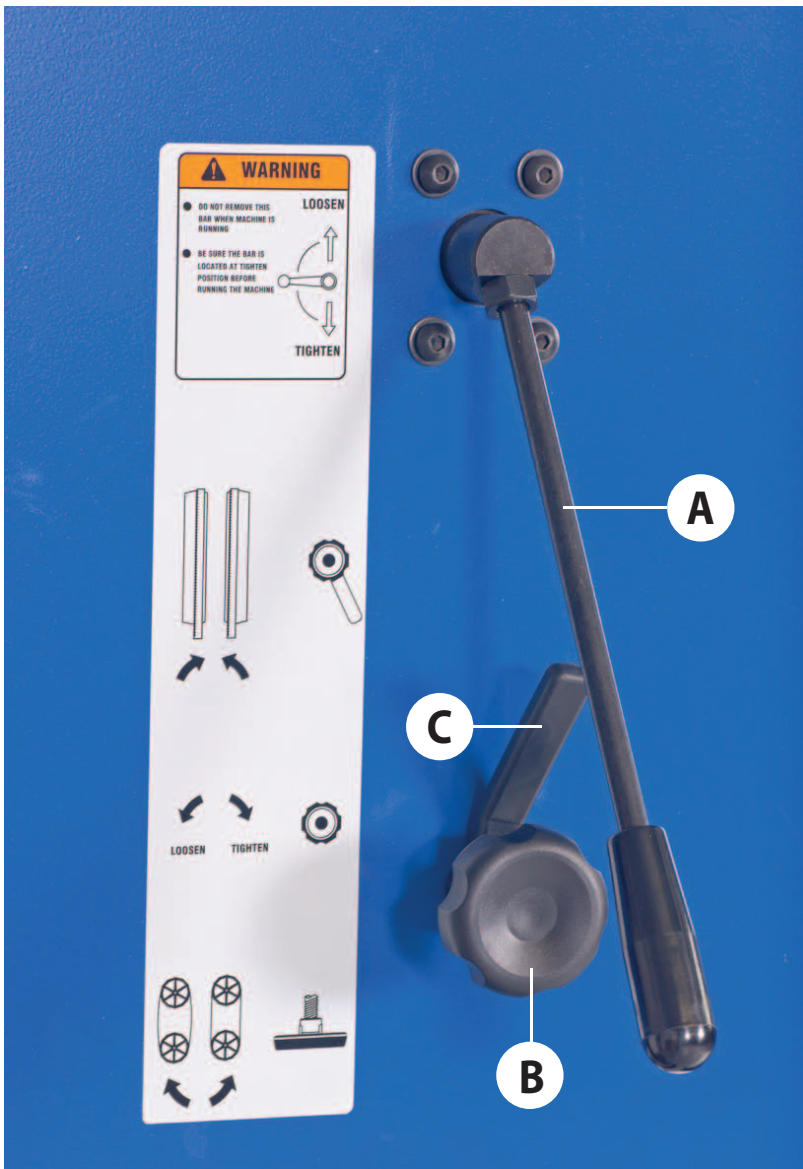
Blade tensioning wheel

Extension table

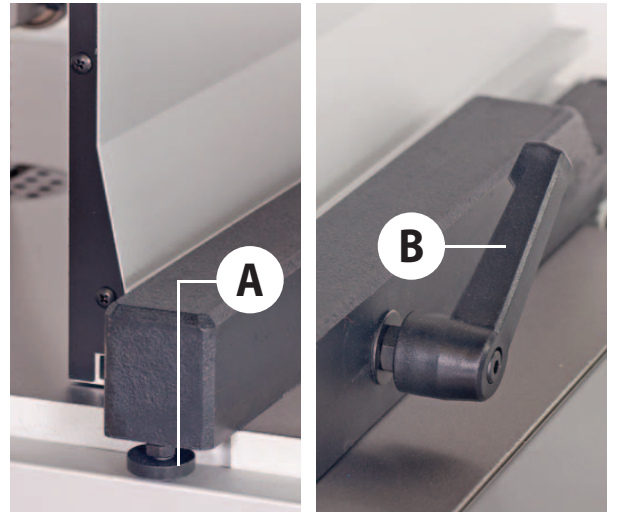
Rear fence guide rail



Table levelling
stop bolt



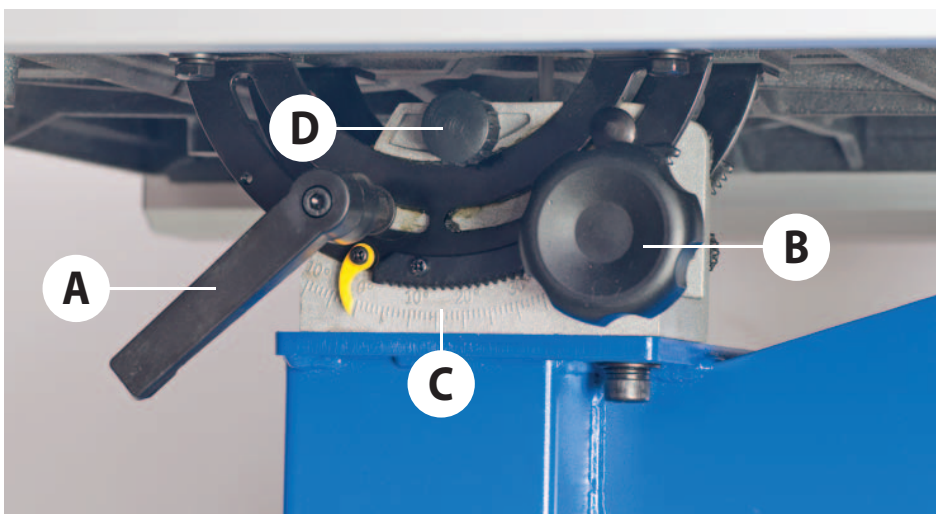
Quick release tensioning blade lever (A)
Tracking control knob (B), Locking handle (C)



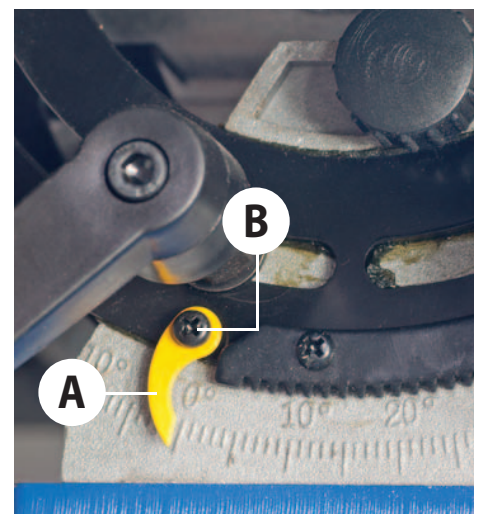
Adjustable guide fence (A)
Fence lift & shift clamping handle (B)



Blade tensioning wheel



Tilt quadrant clamping handle (A), Table adjusting knob (B),
Tilt quadrant scale (C), Lower thrust bearing adjusting knob (D)



Tilt quadrant scale pointer (A)
and adjusting screw (B)

Setting Up the Saw



DISCONNECT THE SAW FROM THE MAINS SUPPLY!

Tensioning and tracking the blade

Make sure both top and bottom blade guides are well clear of the blade

Open the front covers fully, giving good access to the top compartment of the saw and good visibility into the bottom compartment (see page 16). For tracking the blade, first adjust all bearing guides so that they're well clear of the blade. Check that the blade is sitting approximately in the middle of the wheels, see fig 47-48. Apply some tension to the blade by turning the tensioning wheel clockwise, spin the top wheel by hand and check that the blade remains centrally on the tyre, see fig 49. If it does not, adjust the tracking by turning the tracking control at the rear of the head box, see fig 50. Viewed directly onto the tracking control wheel, turning clockwise should cause the blade to track to the rear of the tyre; anti-clockwise to the front, DO NOT make large adjustments).

Spin the top wheel again, check again. Continue until the blade tracks in the centre of the tyres with no appreciable to and fro movement. Push the tracking control lock up to lock the setting. Tension the blade fully. A sideways push of about 7-8 lbs (3+kgs) in the middle of the blade should allow a 1/4" (6.5mm) distension. Check the tracking again, adjust if necessary. Check that the drive belt is tensioned correctly. If it is slack, apply 'take up' pressure to the belt by loosening the motor locking handle (A) and turning the tensioning wheel knob (B) until the belt is under tension then re-tighten the handle to lock the motor in position, see fig 51.

Connect the power to the machine. Stand clear and start the saw. Check that the saw is running smoothly, (no thumps, bumps, knocking or excessive vibration) and the blade appears to be tracking correctly (in one place). You can check this by holding a marker, e.g. a pencil, close to the back of the blade (approach from the back of the blade only) and check that the gap remains constant.

If it doesn't, adjust the tracking until it does. Make very small adjustments and wait for the saw to react before you adjust again, sometimes the reaction is not instantaneous. Once you are satisfied that the tracking is correct switch the machine off and allow it to run to a stop.

Fig 47-48

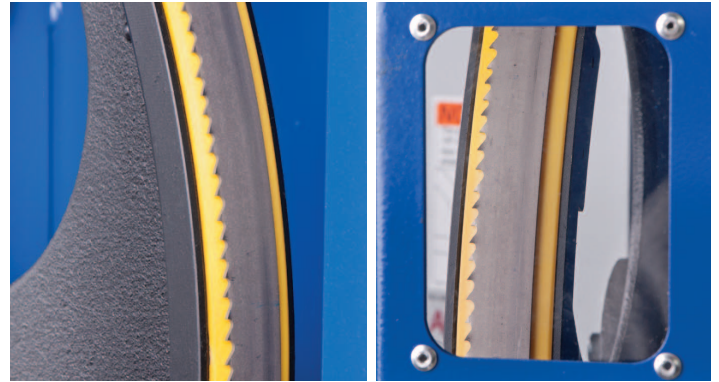


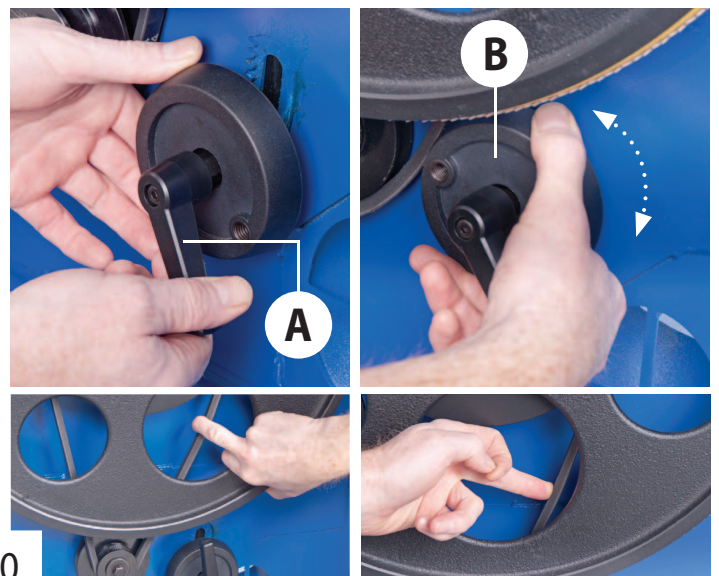
Fig 49



Fig 50



Fig 51

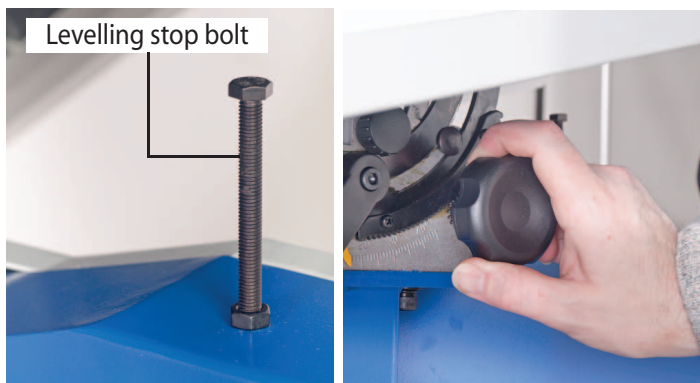




DISCONNECT THE SAW FROM THE MAINS SUPPLY!

Checking the table is square

1. Loosen the clamping handle beneath the table, clamping the tilt mechanism in place. Turn the tilt quadrant adjusting knob until the table is hard against its stop. This is a bolt with a lock nut screwed into the underside of the table, see fig 52. The head of the bolt acts as a stop when it strikes the machine frame. Tighten the clamping handle.



2. Make sure the upper blade guide is raised as high as possible. Place a square on the table and move it up against the blade (behind the teeth), see fig 53. Check that the blade is perpendicular to the table. If it is not, try resetting the table. If it is still not correct, loosen the table locking handle, see figs 54 and adjust the table stop bolt nut until perpendicularity is achieved, see fig 55.

Fig 53-54-55

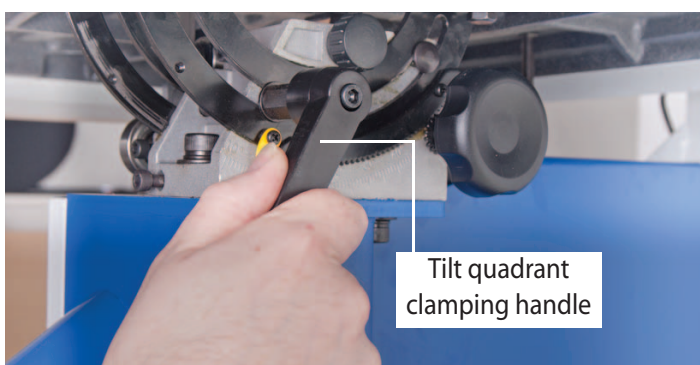
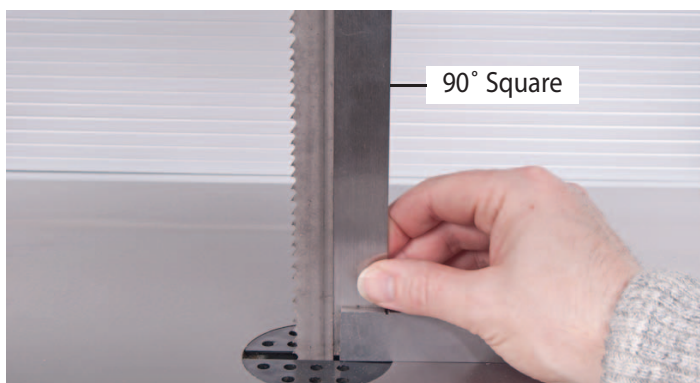
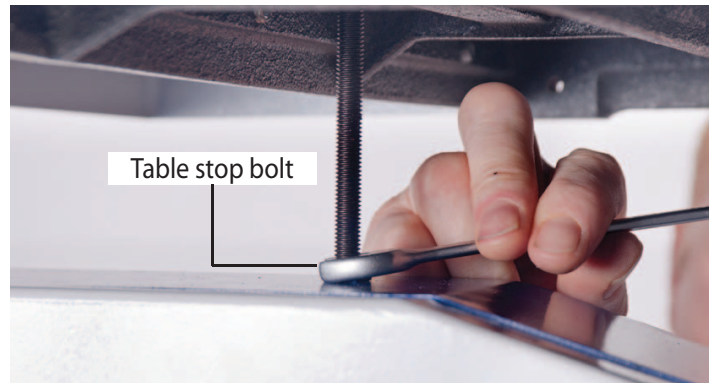
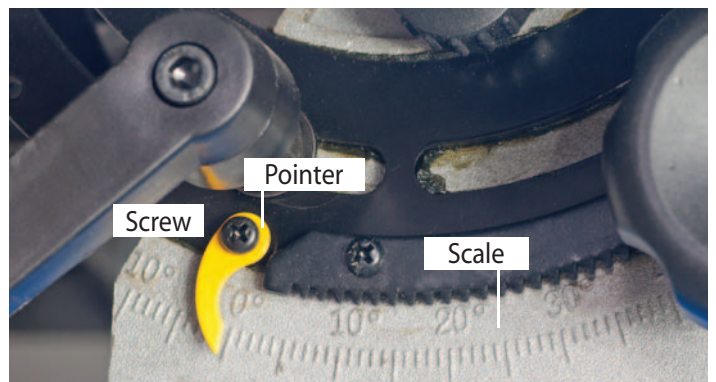


Fig 52



3. Tighten the lock nut and then re-check. When you are satisfied that the table is set correctly, check that the pointer of the tilt scale reads zero, if not, adjust it, see fig 56. Retighten the table clamping handle.

Fig 56



Setting the Fence

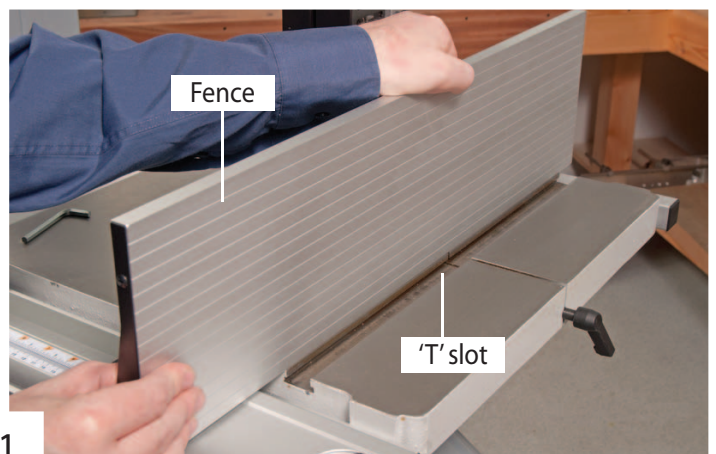
To make sure the guide fence is at 90° line up the guide fence with the edge of the table's 'T' slot, see fig 57. If you find that the fence is out of alignment follow the steps below:

1 Clamp down the fence by pushing the locking lever down, see fig 58.

2 Loosen the 4 Hex bolts that secure the fence rail and adjust until the fence is in alignment with the 'T' slot, then re-tighten the bolts, see fig 59.

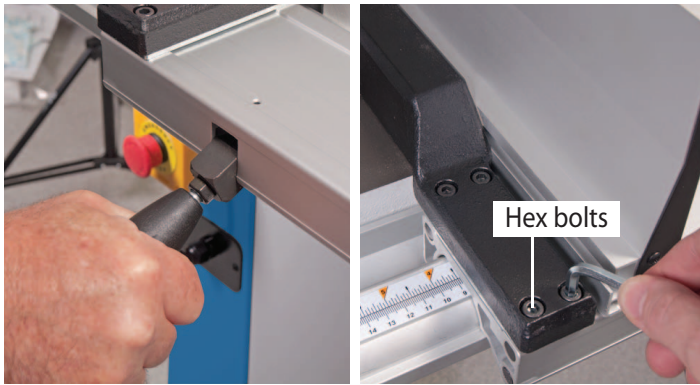
3 Replace the fence assembly to its original position.

Fig 57



Setting Up the Saw

Fig 58-59



Setting the Blade Guides (above table)

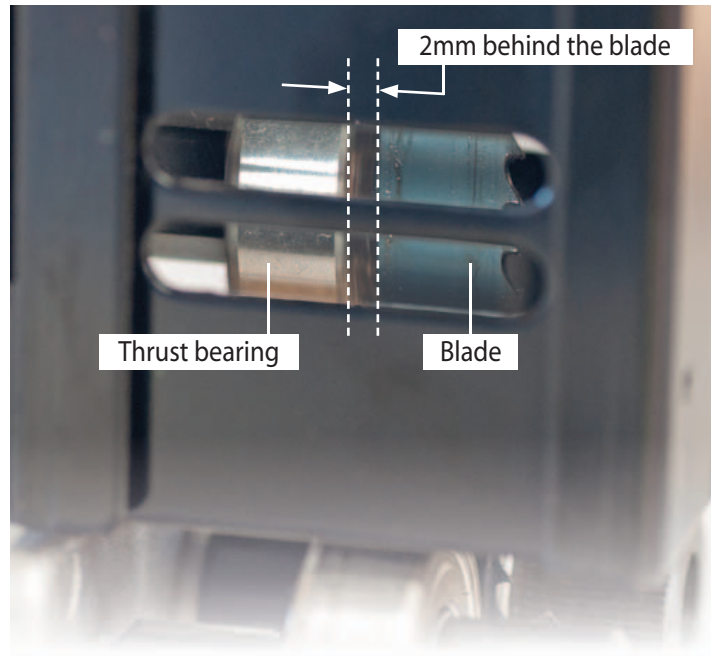
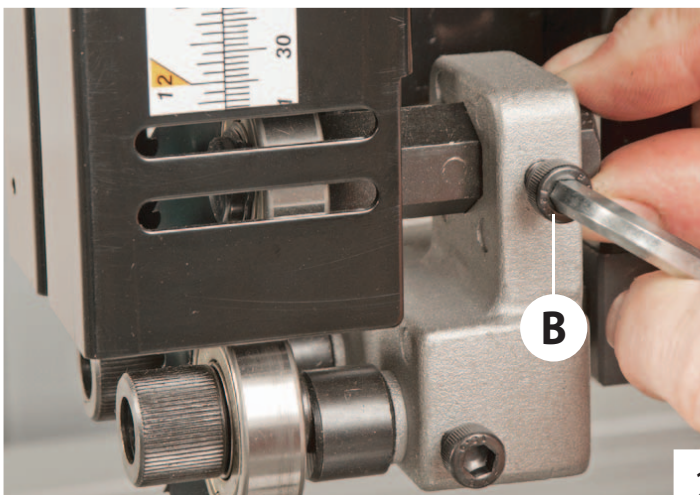
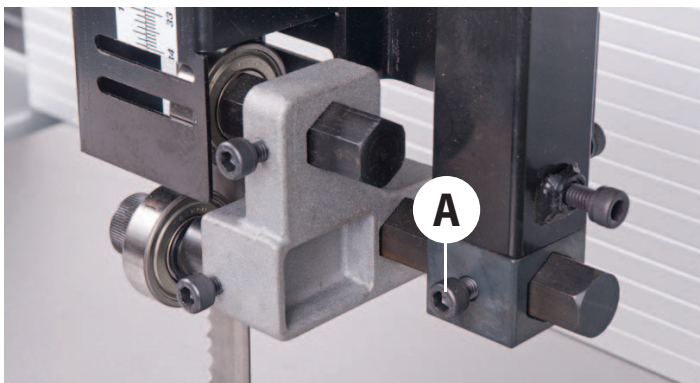


DISCONNECT THE SAW FROM THE MAINS SUPPLY!

1. Lower the upper blade guide to approximately 1 1/2" (38mm) above the table. Clamp in place. Loosen the Hex screw (A), holding the guide assembly in place and adjust the fore and aft position so that the leading edges of the side guide bearings are approximately 2mm behind the gullets of the saw blade. Re-tighten the Hex screw, see fig 60.

2. Loosen the Hex screw (B) that clamps the rear thrust bearing in position and adjust the thrust bearing to approximately 2mm behind the blade, re-tighten the Hex screw, see fig 61-62.

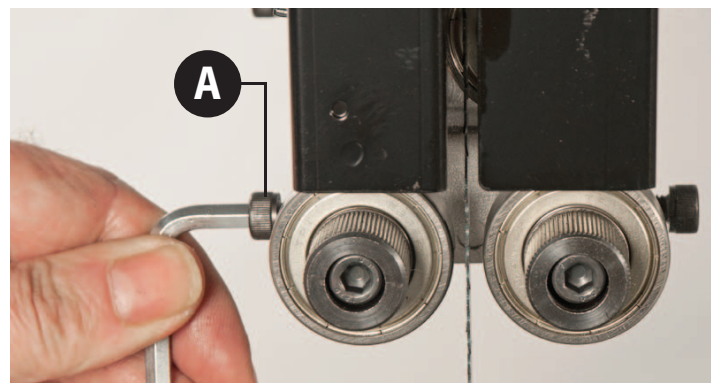
Fig 60-61-62



3. Loosen the Hex screw (A) holding one of the guide bearings and move to approximately 0.5mm from each side of the blade. **NOTE: A sheet of A4 photocopier paper is approximately 0.5mm thick.** Adjust the guide bearing by turning the adjusting knob (1), until the guide bearing is set to the correct thickness. Re-tighten the Hex screw (A), see fig 63-64.

4. Repeat for the other guide bearing. Gently push the blade back against the thrust bearing, use a scrap of wood and check that the side bearings are still behind the teeth of the blade.

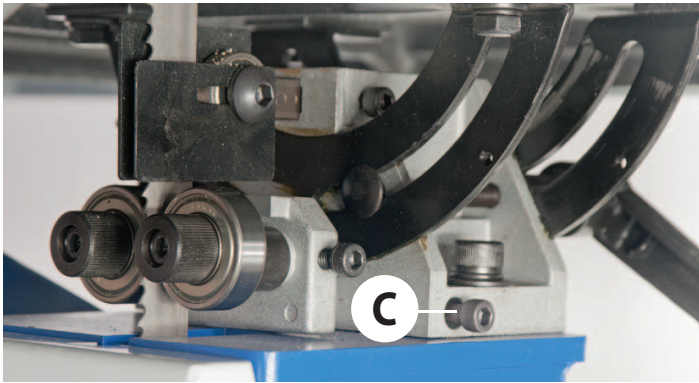
Fig 63-64



Setting the Blade Guides (below table)

1. Beneath the table loosen the Hex screw (C) holding the lower blade guide assembly in place and position so that the leading edges of the side guide bearings are approximately 2mm behind the gullets of the saw blade. Re-tighten the Hex screw (C), see fig 65.

Fig 65



NOTE: THE GUIDE BEARING SHOULD ALWAYS BE SET BEHIND THE TEETH OF THE SAW.

2. Rotate the top wheel by hand, at this point, see fig 66. None of the bearings should come into contact with the blade—only when in use. Adjust the lower blade guides, and set them similarly to the upper guides, using a Hex key to release and tighten the Hex screws. To adjust the lower thrust bearing, loosen the Hex screw (D), see fig 67, turn the adjusting knob (E) to move the thrust bearing approximately 2mm behind the blade, see fig 68-69.

3. Re-tighten the Hex screw (D), see fig 67. When all adjustments have been made, recheck that when the blade is pressed back against the thrust bearing, both the upper and lower side guides are still behind the teeth of the saw. When all adjustments are complete re-connect the power, switch the saw on, allow to run for several minutes, check that the blade is still tracking correctly, there is no excessive vibration, etc. Switch off.

Fig 66-67

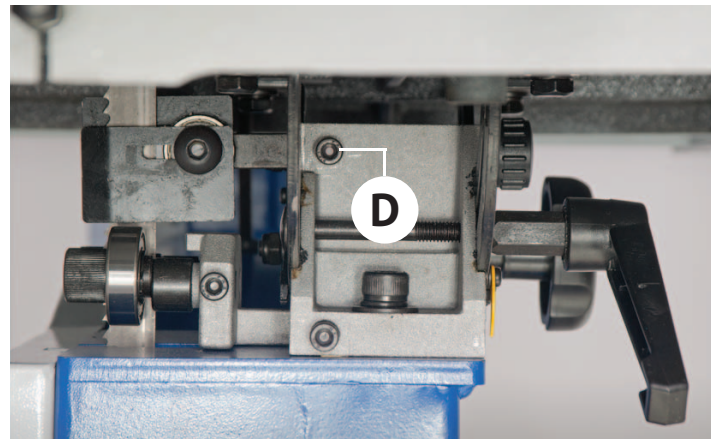
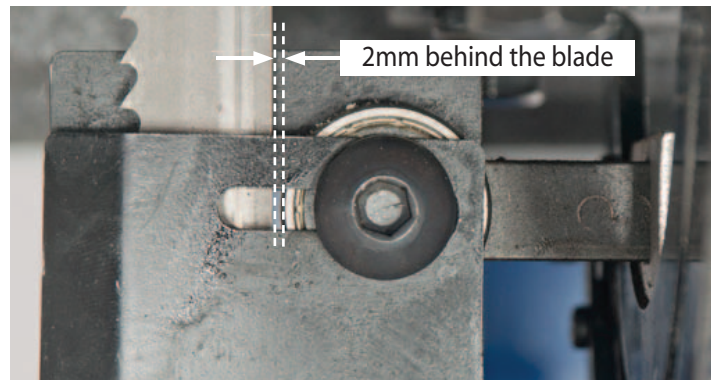
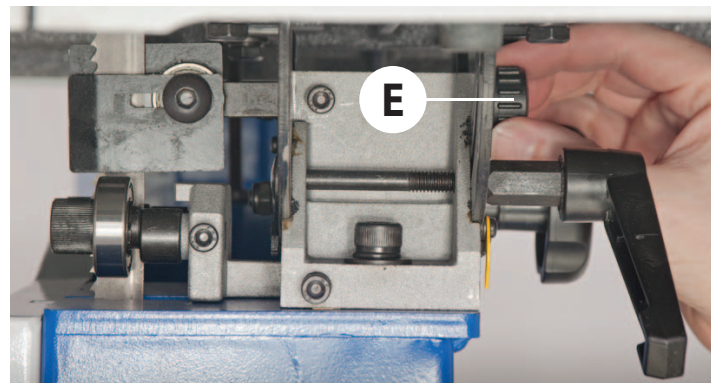


Fig 68-69



Electro-magnetic Motor Brake Switch

The electro-magnetic brake switch is located above the NVR switch assembly and has three positions, see fig 70.

- Position **(0)** engages the motor brake to prevent the bandsaw blade from moving and to isolate the bandsaw to prevent it from being started accidentally, see fig 71.
- Position **(1)** releases the motor brake allowing the blade to turn freely for changing and for tracking purposes, see fig 72.
- Position **(2)** is for running the machine. Move the selector switch to this position then press the 'Green' button on the NVR switch to start the bandsaw, see fig 73.

Fig 70

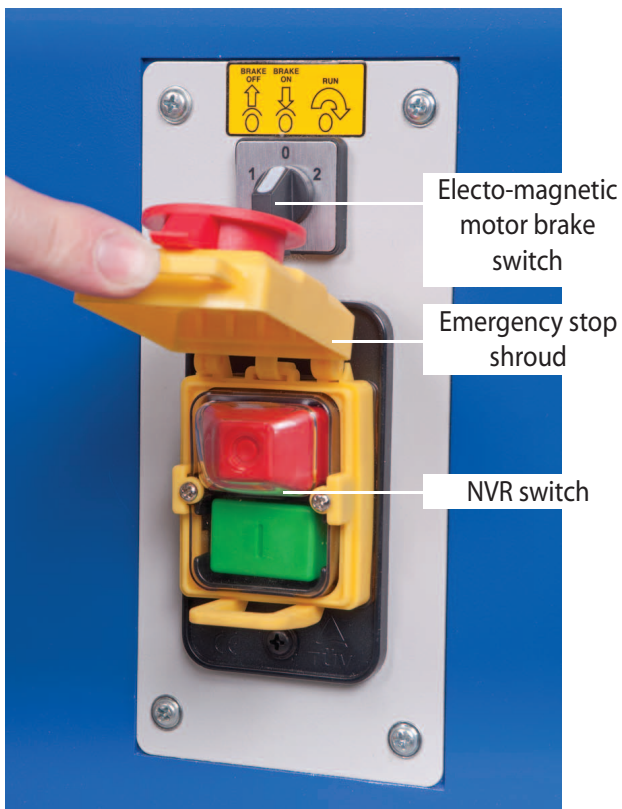


Fig 71



Fig 72



Fig 73



1. Make sure you have read and fully understood the general instructions and safety precautions that are printed in the preceding pages of this manual.

2. Before connecting the machine to the supply; check the machine for obvious signs of damage, paying particular attention to the plug and the power cable. Rectify or have rectified any damage you discover. Check that the blade you are using is the correct one for the job in hand. Change the blade if necessary. Check the blade is not damaged; is clean, sharp, tracks properly and is correctly tensioned.

3. Set the upper blade guide to approximately 12mm (1/2") above the height of the work piece.

4. 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.

5. Check that all accessories, tools etc., that have been used to set the machine up, are removed and set carefully aside or stowed away correctly.

6. Ensure the machine is switched off. Plug the power cable into a correctly rated switched socket outlet. If extension leads are being used, check these for damage, do not use if damaged; if you are working outside, check that any extension cables in use are rated for outside work. Switch on. Allow the saw to run up to speed.

7. Make sure that the material you are about to cut is within the machine's capacity, and the cut you are about to make is within the blades' capabilities, e.g. do not try to cut a 1" radius curve using a 5/8" blade.

8. Make sure the blade is not in contact with the material when you start the saw. Start the cutting operation. Do not try to cut too quickly; the correct cutting speed, if one could be so precise, would never see the blade pushed back against the thrust bearing, the saw would cut and clear the saw line at the rate the work piece was fed into it. If you notice that you require more and more pressure to effect the cut, and the blade is in continual contact with the thrust bearing, the chances are the blade is becoming blunt. Check and change if necessary.

Do not let go of the work piece, if you have to change your grip, make sure one hand is holding the material at all times.

9. If you are cutting long pieces of material think about sawing cutouts (i.e. a saw cut from the edge of the material to the saw line) along the saw line so that you can discard the off cuts as you progress down the saw line.

10. Observe the old woodworkers' adage of never allowing your hand/fingers within one handbreadth of the blade.

11. If you have to cut very small pieces of material, arrange or manufacture some form of 'shoe' to carry the timber. If the work piece is exceptionally small, find something to use as a sacrificial carrier and mount the work piece on it with double sided tape, or similar.

12. Remember to check the blade tension after a new blade has been 'working' for 30-60 mins. The blade will 'stretch' slightly when new.

13. Do not release the tension on the saw blade when work is complete. The blades and the main saw frame do not respond kindly to constant changes in stress and tension. Only release the tension to change the blade or once work has finished for the day. The blade in tension over a long period of non-use will cause the tyres to develop 'flat' spot. Open the saw cut, either by pulling apart or driving a wedge in close to the back of the blade. Try to wriggle the blade free of the saw. If this is not possible; check that the saw is free in the cut, start the saw, allow it to run up to speed and 'cut out' as quickly as possible. The removal of the 'off cut' may well prevent the saw jamming again if you resume the original cut).



**WARNING! IF THE SAW JAMS!
SWITCH OFF IMMEDIATELY.**

Changing the Saw Blade

1. Put the table back to the level position if it has been tilted. Set the upper blade guide assembly approximately midway in the throat. Open the top and bottom covering doors, see figs 74. Remove the table insert.

Fig 74



2. Remove the table stabilising bolt (21), release the blade tension by pulling the quick release lever towards you, see fig 75-76, the blade can be easily slipped off the wheels. Remove the blade carefully, 'wiggling' it clear of the upper blade guard and through the plastic lower blade guard and out through the slot in the table, see fig 77.

Fig 75

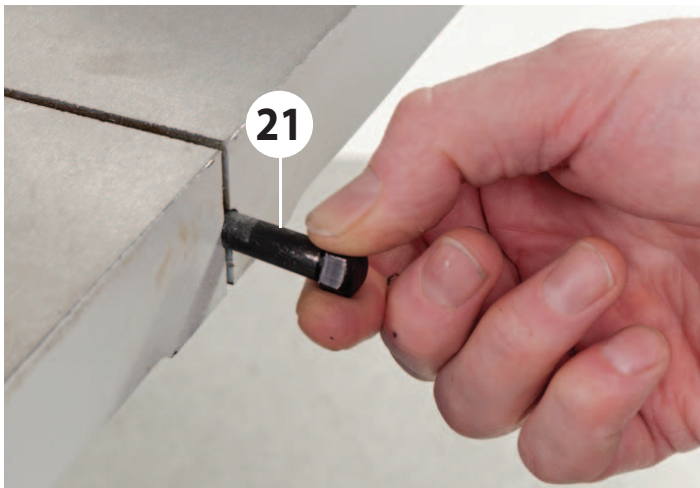


Fig 76



Fig 77



3. NOW is an excellent time to clean out the interior of the machine; remove the impacted 'crud' from the tyres, apply a little light oil to the screw threads of the blade and drive belt tensioners and the tracking control. The pivots and the slides of the top wheel mounting assembly and the captive stub axle of the drive belt tensioner in its slot could likewise be lightly oiled. If you are fitting a new blade, it will have been supplied to you "folded", bound together in this configuration with tape or tie wrap.



WARNING! BE VERY CAUTIOUS WHEN YOU 'UNFOLD' THE BLADE; IT TENDS TO 'SPRING' OPEN, BLADE AND TEETH GOING EVERYWHERE.

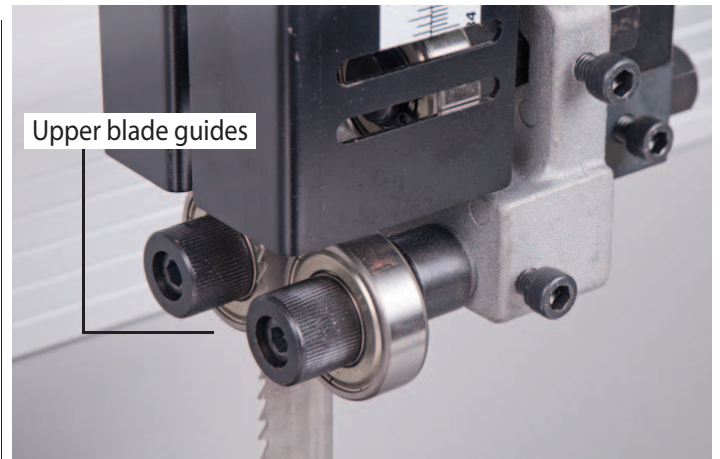
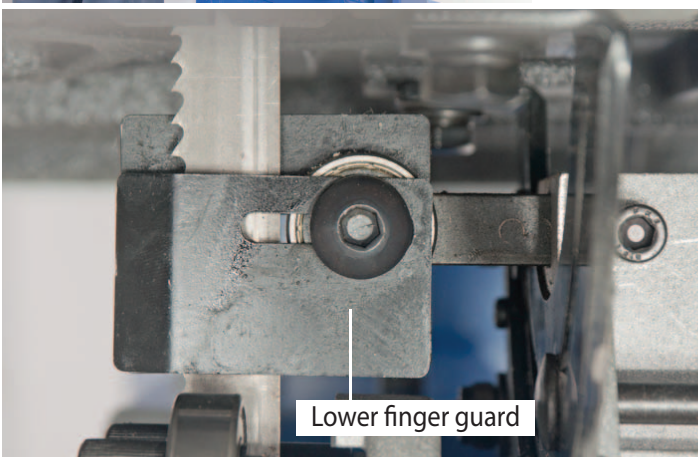
4. Also check that the blade did not “unfold” inside out. i.e. looking at the right side front of the loop, the teeth should be on the front of the blade and pointing down. If you can’t arrive at this view, turn the blade inside out from its current position and look again.



MAKE SURE THE BLADE TEETH ARE POINTING DOWN!

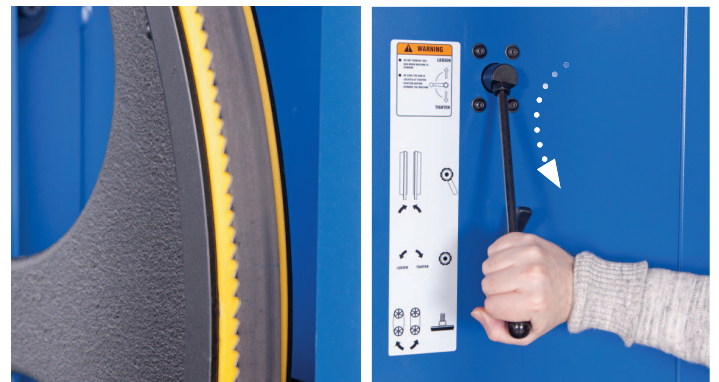
5. Open up all blade guides so that they are clear of the blade. Hold the blade approximately midway on either side of the loop and feed it into the table slot. When you get to the table insert cutout void, work the left side of the loop into the slot in the guard in the neck of the main saw frame. ‘Wriggle’ the right hand side of the blade through the slot in the lower finger guard and through the guard on the upper blade guide assembly, see figs 78-79-80.

Fig 78-79-80



6. Ease the blade over the wheels and locate the blade in the blade guides. Check that the blade is sitting approximately in the middle of the wheels and re-tension the blade by pushing the quick release lever forward, see fig 81-82. Turn the top wheel by hand to ensure the blade will not skip off the wheels and the blade is travelling in the blade guides.

Fig 81-82



7. When you are sure that the blade is “ON” and stable, re-fit the table stabilising bolt and re-fit the table insert. Loosen the upper blade guide clamp and set the upper blade guide assembly so that the top of the blade guide is level with the centre of the top drive wheel, see fig 83. Re-tighten the clamp. Now carry out the procedures as detailed in Setting Up The Saw.

Fig 83



Top of blade guide lined up with the centre of the upper wheel

Changing the Blade Speed



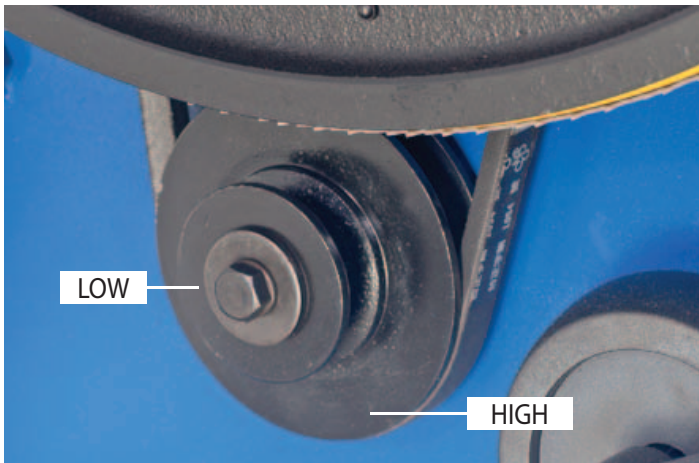
DISCONNECT THE SAW FROM THE MAINS SUPPLY!

The bandsaw drive pulley has two speed positions, see fig 84. To change the speed follow the instructions below.

Bandsaw Speed Chart		
MODEL	LOW	HIGH
AP4300T/1	430m/min	850m/min
AP5300T/2	575m/min	1,200m/min

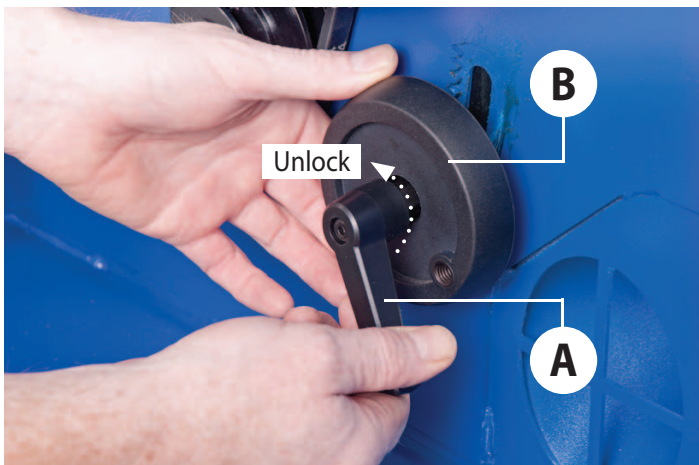
1. Open the upper and lower doors, loosen the motor locking handle (A) and turning the tensioning wheel (B) anticlockwise until the belt becomes loose, see fig 85.

Fig 84



The picture above shows the two drive pulley positions

Fig 85



2. With the drive belt tension removed, very carefully reposition the drive belt, see fig 86. **NOTE: Make sure the belt is seated correctly in one of the drive pulley grooves.** Once the belt is seated correctly turn the tensioning wheel (B) clockwise to re-tension the belt, see fig 87-88.

Fig 86-87-88

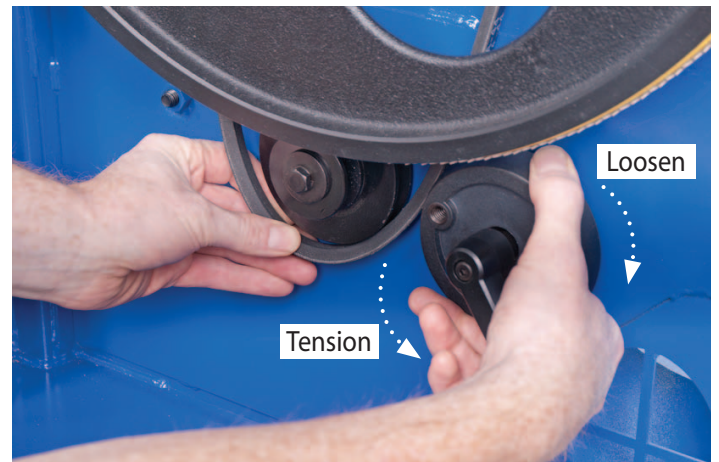


Fig 89-90-91

Daily

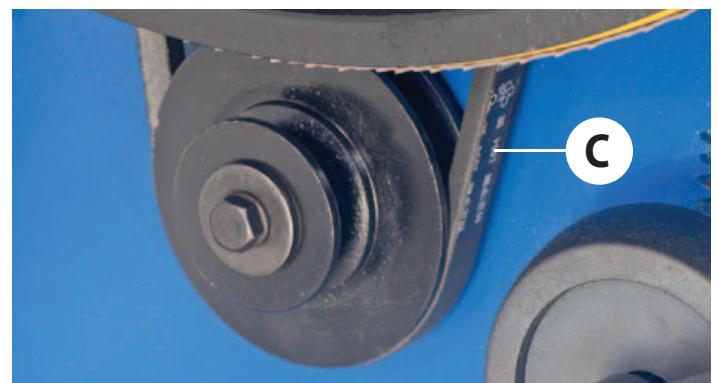
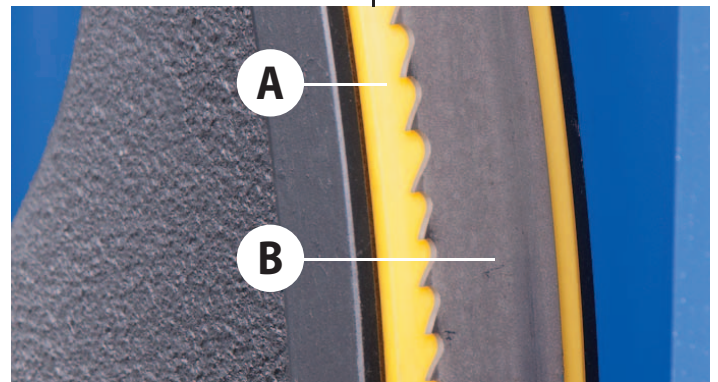
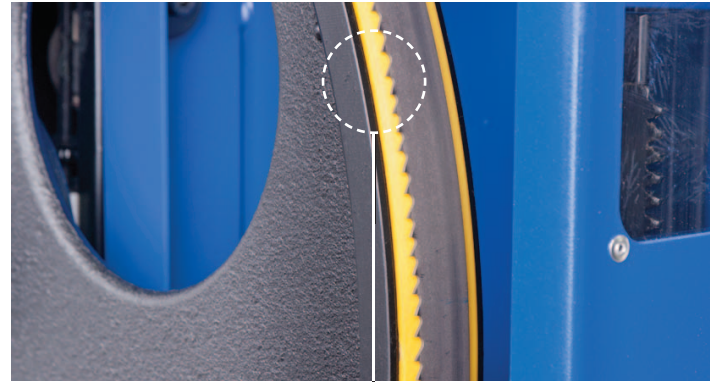
- Keep the machine clean.
- Check the saw blade for missing teeth and cracks, see fig 90.
- Spray oil the bare metal surfaces.

Weekly

- Open the top and bottom wheel covers and clean out all saw dust.

Monthly

- Open the lower and upper door and check the condition of the tyres and the drive belt, see figs 89-90-91.
- Clean impacted 'crud' from the tyres, apply a little oil to the screw threads of the blade and drive belt tensioners. **DO NOT USE OIL** near the belt.
- The pivots and the slides of the top wheel mounting assembly and the captive stub axle of the belt tensioner in its slot could likewise be lightly oiled.
- Using an air line (**wearing goggles**) blow out the motor casing.



- Check the condition of the tyres (A)
- Check for missing teeth (B)
- Check the condition of the drive belt (C)

Clean out impacted 'crud' and saw dust



Clean out impacted 'crud' and saw dust

Bandsaw Blade Information

About Axcaliber Bandsaw Blades

Axcaliber bandsaw blades are manufactured at Axminster using advanced CNC machining, high precision digital measuring equipment and specialised heat treatment facilities. Detailed quality checks are performed at each stage of manufacture using the most modern inspection equipment. The result is a blade which consistently cuts straighter, has harder, longer-life teeth and which gives a superior finish to the work. The final step in the manufacturing process is one of the most important; the weld. We have invested heavily in this area through the purchase of precision welding and grinding equipment and are, as a result, one of the few companies worldwide able to offer a fully guaranteed weld. Blades are cut accurately to length then, using an IDEAL bandsaw blade welder, a high voltage current is passed through the blade to achieve a precision butt weld. The weld is annealed to remove any brittleness and danger of fatigue and then hand dressed to produce a perfectly smooth joint.

Choosing the Right Tooth Pitch (tpi)

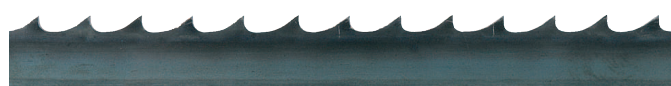
3 tpi (skip form)

Used for deep cutting especially rip cuts, this blade will leave a rough sawn finish although slow feed rate and high tension will improve the finish of the cut.



4 tpi (skip form)

Good for general-purpose use with a degree of cutting across the grain and with the grain, a reasonable finish can be achieved with slower feed rates and good tension.



6 tpi (skip form)

The ideal general purpose blade suitable for cross cutting up to 150mm and ripping in sections up to 50mm thick although thicker sections can be cut using slow feed rates. This tooth form will give a clean finish and is very well suited to natural timbers.



10 tpi (regular)

Good for cutting plywood and MDF as well as non-ferrous metals and plastics. The finish is good when cutting natural timbers but the feed rate should be slow and maximum depth

of cut should not exceed 50mm. When cutting metals reduce the speed as much as possible especially when cutting ferrous metals or cast iron.



14 tpi (regular)

A very clean cutting blade for plywood, plastics and MDF although too fine for natural timbers unless they are very thin sections (sub 25mm thick). The 14tpi blade is very good to use on slow speeds when cutting non-ferrous metals. A slow feed speed should be used at all times with a blade tooth pitch this fine.



Blade Width

Always use the widest saw blade possible; it is stronger and will withstand greater feed pressures without flexing. Consult your machine manual for the maximum and minimum blade widths that it will accept. The minimum radius of curve for each blade width is as follows:

Blade width	Minimum radius
13mm (1/2")	63mm (2 1/2")
10mm (3/8")	27mm (1 1/16")
6mm (1/4")	19mm (3/4")
5mm (3/16")	13mm (1/2")
3mm (1/8")	10mm (3/8")

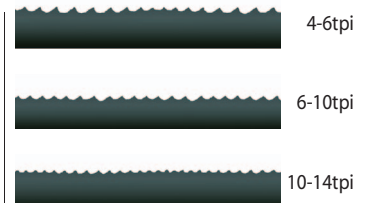
Blade Length

This is determined by your machine model. A list of the most popular machines and their blade lengths is found in the catalogue.

Blade Tooth Form

Standard Blade Tooth Forms: We supply bandsaw blades with one of two tooth forms, skip or regular:

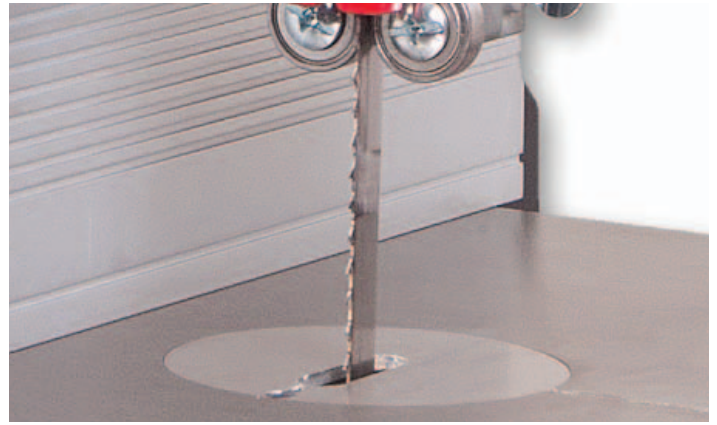
The skip tooth is provided on coarse tooth blades, those with 3, 4 and 6 teeth per inch; it has a wide shallow gullet with plenty of space for waste to collect. Please note that the quality of the cut can be adversely affected by sawdust



packing between the teeth. The regular, or triangular, tooth form is provided on blades with 10 or more teeth per inch where, because of the reduced material removal, there is less need for waste storage.

Premium Bandsaw Blades

- Premium blades made from M42 with 8% cobalt.
- Long life with high resistance to heat, abrasion and vibration.
- Variable pitch teeth for wider ranging applications.
- Also used for cutting metal on horizontal bandsaws. Blades are available in three variable pitch forms 4-6tpi, 6-10tpi and 10-14tpi.



High Carbon Bandsaw Blades

- General purpose range of blades for wood and metal cutting.
- Comprehensive range of lengths widths and tooth configuration.
- Hardened and long lasting teeth.



Ground Tooth Bandsaw Blades

- Diamond ground teeth staying sharper for at least 30% longer.
- Smoother cut over general purpose milled tooth blades.
- Comprehensive range of lengths, widths and tooth configuration.



Back Tooth Bandsaw Blades

- Specifically designed for curve cutting so ideal for wood turners.
- Back tooth design allows better clearance and tighter curves.
- Available in one width of 5/16" (8mm) x 4 tpi.

Ripper 37 Bandsaw Blades

- Intended for larger (wood processing) Bandsaws (2.2kw and above).
- Blades can be re-sharpened up to 20 times.
- Available in one width of 1 1/4" (32mm).



Bandsaw Trouble Shooting/ Accessories

Trouble Shooting

Bandsaws are relatively simple machines and with all machinery regular servicing (preventative maintenance) is essential to get the best from your saw.

‘My bandsaw won’t cut straight’

- This is the most common question that you will get from bandsaw users. Usually the answer lies within the blade; poor quality blades with uneven set, the blade is blunt or damaged often only on one side, the tooth count is far too high for the material being cut - remember 2 teeth minimum and 10 teeth maximum in the workpiece.
- The fence is out of line with the blade.

“My bandsaw slows down when cutting”

- Check drive belt is tensioned correctly.
- If cutting hard or wet material slow your feed rate down.
- Check blade is sharp and not too fine.
- Make sure that when curve cutting a narrow blade is used- see unit 5 blade and cutter types.

“My bandsaw vibrates”

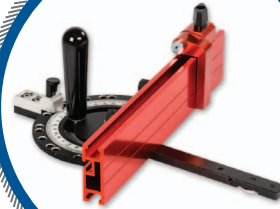
- Clean machine wheels.
- Check blade is running correctly on wheels.
- Check blade weld – is it in line?
- Check machine is not on an uneven floor.

“Can I cut steel on my bandsaw?”

- No, most woodcutting bandsaws run far too fast to cut steel even if a metal cutting blade is fitted.

Accessories

Below is the list of top recommended accessories and up-sell items for the bandsaw. Please visit our website at axminster.co.uk



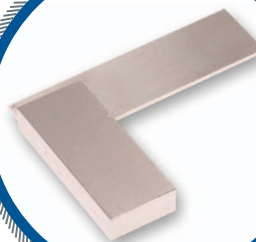
Mitre Fences



Lubricants and maintenance tools



Bandsaw Blades



Squares



Extractors



Code: 101807

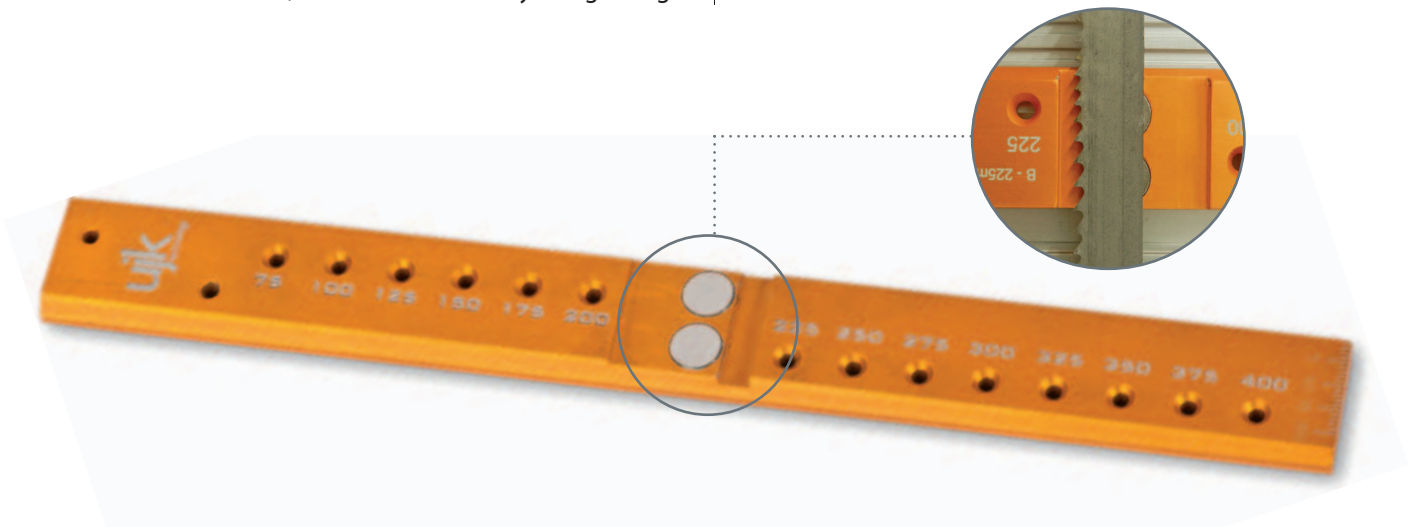
INTRODUCTION

• Bandsaw Buddy is a unique bandsaw blade aligning tool. Bandsaw Buddy allows you to check the alignment of the bandsaw blade to the face of the fence. Most other checks only require the use of a combination or engineer's square. Truing the fence to the blade is tricky. Bandsaw Buddy has two rare earth magnets which hold it firmly on the blade. At 250mm long it is easy to spot any discrepancy and then make necessary adjustments. The magnets will keep it safely stored on the bandsaw's frame when not in use.

• A scale on the tip helps set the bandsaw fence for cutting veneers or thin boards. Holes along the Buddy's length at 12.5mm intervals allow you to draw arcs or circles in 25mm steps from 75mm to 400mm, a useful feature for marking curves or when cutting bowl blanks. Accurately machined from anodised aluminium, it also makes a handy straight edge.

KEY FEATURES

- Designed and made in Axminster
- Unique bandsaw blade aligning tool
- Checks the alignment of blade to the face of the fence
- Rare earth magnets hold it firmly on the blade
- 250mm long makes it easy to spot any discrepancy
- Scale on the tip helps set fence for cutting veneers or thin boards
- Holes for drawing circles in 25mm steps from 75 to 400mm
- Accurately machined from anodised aluminium



Marking Gauge

An easy to use circle marking gauge for bowl blanks from 75mm to 400mm radius in increments of 25mm.



Accurate Marking

The bandsaw buddy can be used as a straight edge for accurate marking.



Thickness Gauge

A convenient and accurate metric thickness gauge, great for veneering.



Perfect Alignment

Rare earth magnets securely hold the rule to the blade. This enables you to align your rip fence and table perfectly parallel with the blade.



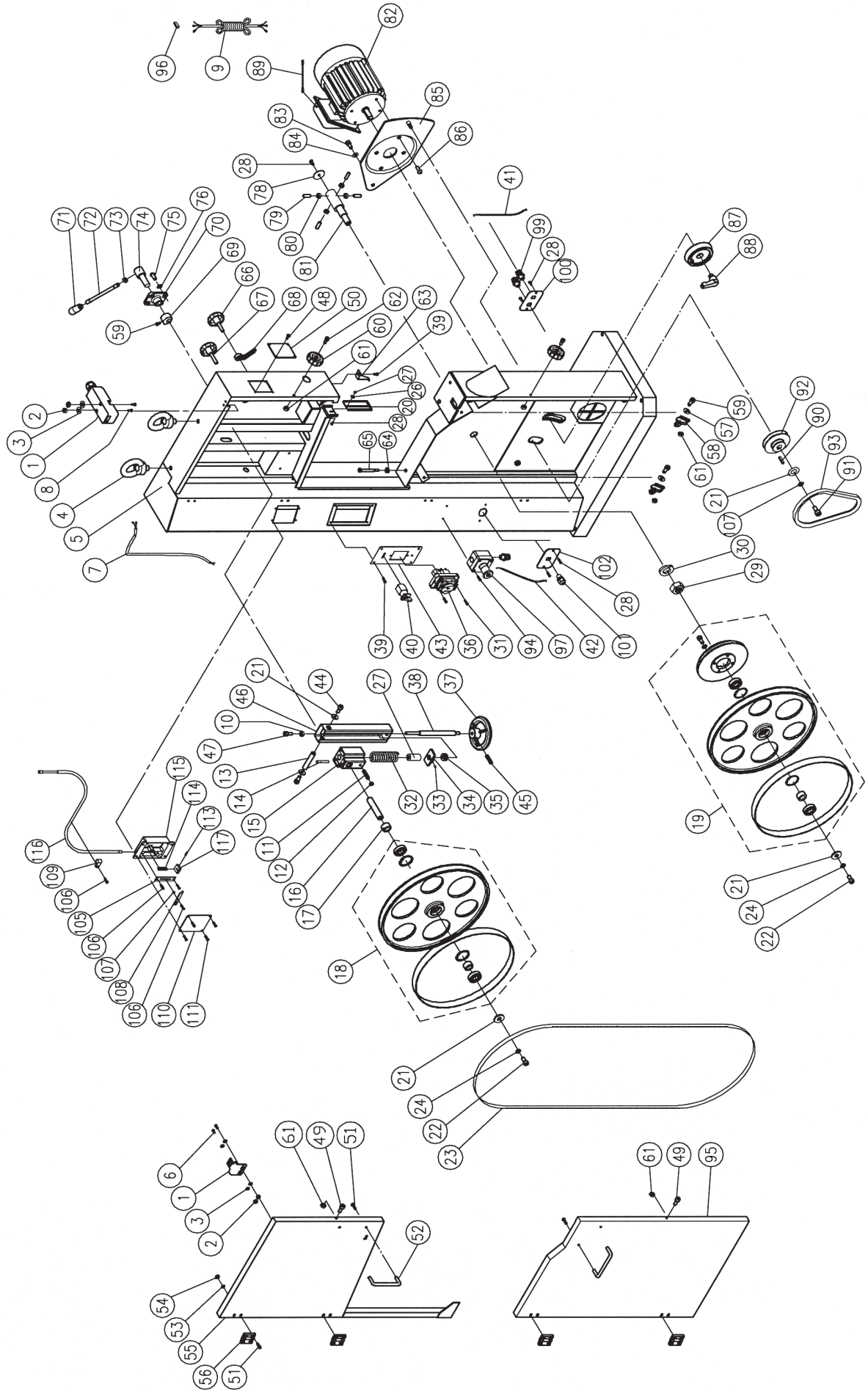
Keep your buddy on hand

Once you've used your Bandsaw Buddy the integrated magnets allow simple storage on your bandsaw

Exploded Diagram/List

AP4300T/1 (Main Assembly)

Parts List For 17 Inch Band Saw
Model No. SBW-4300 T3CE



AP4300T/1 (Main Assembly)

ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	136457	LIMIT SWITCH	AZD-S11	1
2	NH040700	NUT	M4XP0.7	4
3	WF040805	WASHER	M4x 0 8Xt0.5	6
4	995101	RING	M10	2
5	136801	MACHINE BODY		1
6	SP040200	PAN HEAD BOLT	M4xP0.7X10L	2
7	IC136002	SWITCH CORD		1
8	SF040700	PAN HEAD BOLT W/ FLANGE	M4x35L	2
9	IC136005	POWER CORD		1
10	NH061000	NUT	M6	1
11	SS100500	SET SCREW	M10xP1.5X25L	1
12	NH101700	NUT	M10xP1.5	1
13	135012	UPPER SHAFT		1
14	PS053500	SPRING PIN	05x35	1
15	136831	UPPER WHEEL SHAFT HINGE		1
16	135066	UPPER WHEEL SHAFT		1
17	612112	BUSHING		1
18	AB135116T	UPPER WHEEL ASM.		1
19	AB135119T	LOWER WHEEL ASM.		1
20	136824	PROTECT PLATE		1
21	WF083030	FLAT WASHER	M8x 0 30Xt3	5
22	SR089400	HEX SOCKET BOLT	M8X16	2
23	135075	SAW BLADE	131.5"x12.7x0.5	1
24	WS080000	SPRING WASHER	M8	2
25	992421	PLASTIC WASHER	M5x012Xt2	2
26	NL050800	NYLON NUT	M5XP0.8	2
27	135067	BUSHING		1
28	SF050200	PAN HEAD BOLT W/ FLANGE	M5X10L	7
29	NH633801	NUT	1"-14UNF	1
30	WS630000	SPRING WASHER	1"	1
31	ST039304	TAPPING SCREW	3.5X12(AB)	2
32	135032	SPRING	(J) 7X8-3/4(0 34)	1
33	PS031600	PIN	03X16L	1
34	136827	TENSION WIRE FIXED		1
35	994301	BEARING	51201	1
36	170245	SWITCH	KJD-11- 10D(JD2)-230V	4
37	135002	HANDLE WHEEL		1
38	136805	ADJUSTING BOLT		1
39	ST040204	PAN HEAD BOLT W/ FLANGE	M4X10(AB)	5
40	135108	MULTIFINGER SWITCH		1
41	IM136003	MOTOR CORD		1
42	IC136001	STOP SWITCH CORD		1
43	136822	SWITCH PLATE		1
44	SR089400	HEX SOCKET BOLT	M8x16L	2
45	SS069300	SET SCREW	M6xP1.0X12L	1

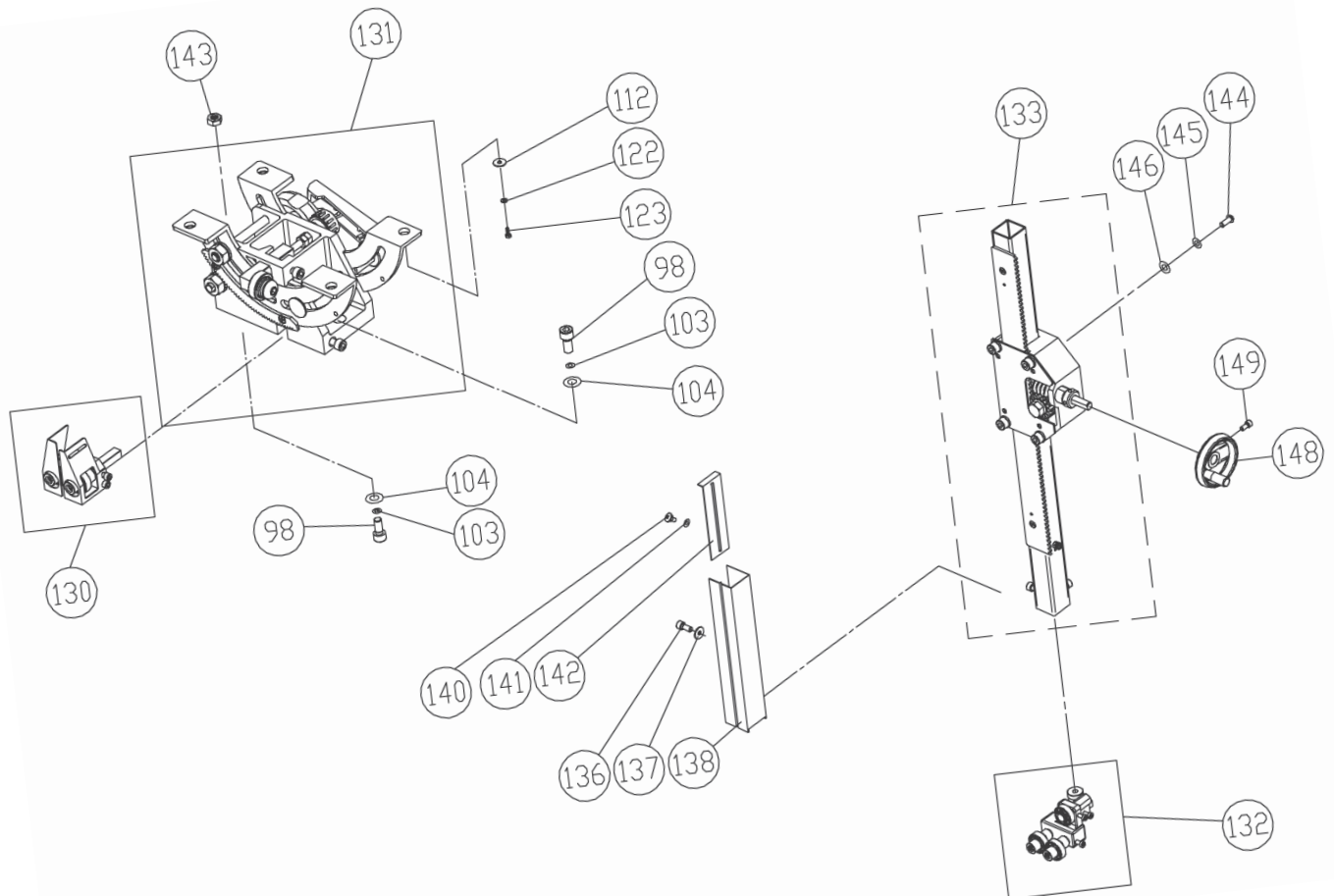
46	135016	UPPER WHEEL SLIDING BRACKET		1
47	SR060500	HEX SOCKET BOLT	M6x25	1
48	BR000044	RIVET	3.2x10	4
49	SR060200	HEX SOCKET BOLT	M6x10L	2
50	135004	LIMPID PIECE		1
51	SR050200	HEX SOCKET BOLT	M5x10L	20
52	136828	ROUND PULLS		2
53	WF051210	FLAT WASHER	M5x012Xt1	8
54	NH050810	NUT	M5	8
55	136802	UPPER WHEEL COVER		1
56	136826	HINGE	LY-4050	4
57	WF061310	FLAT WASHER	M6x013xt1	2
58	135051	BRUSH		2
59	SR060500	HEX SOCKET BOLT	M6x25L	3
60	135041	KNOB	M6	2
61	NL061000	NYLON NUT	M6	6
62	SR060400	HEX SOCKET BOLT	M6X20L	2
63	136833	HEIGHT POINTER		1
64	NH081300	NUT	M8	1
65	SH081800	HEX HEAD BOLT	M8x90L	1
66	135022	KNOB SCREW	M10X20L	1
67	135020	KNOB SCREW	M10x53L	1
68	135028	LOCATE HANDLE	M10	1
69	135030	CAM		1
70	135038	LOCATE BLOCK		1
71	620021	KNOB		1
72	620020	LEVER ROD		1
73	NH121900	NUT	M12	1
74	135036	SHAFT		1
75	SJ080400	HEX SOCKET BOTTOM HEAD SCREW	M8x20L	4
76	WS080000	SPRING WASHER	M8	4
77	136019	WIRE CONNECTOR	224-201	1
78	135013	COVER		1
79	SS080400	SET SCREW	M8X20L	4
80	NH081300	NUT	M8	4
81	135005	LOWER WHEEL SHAFT		1
82	ABM- H135020A	MAGNETIC BRAKE MOTOR	2HP/50Hz/230V	1
83	SR100500	HEX HEAD BOLT	M10X25L	1
84	WS100000	SPRING WASHER	M10	1
85	136829	MOTOR BRACKET		1
86	SJ080400	HEX SOCKET BOTTOM HEAD SCREW I	M8x20L	4
87	136832	HANDLE WHEEL		1
88	201222	QUICK RELEASE	M10	1
89	1C136004	CONNECTING CORD		1
90	KS050535	KEY	5x5x35	1
91	SH080402	HEX HEAD BOLT	M8x20(L.H)	1
92	135008	MOTOR PULLEY		1
93	LA420000	V-BELT	A42	1

Exploded Diagram/List

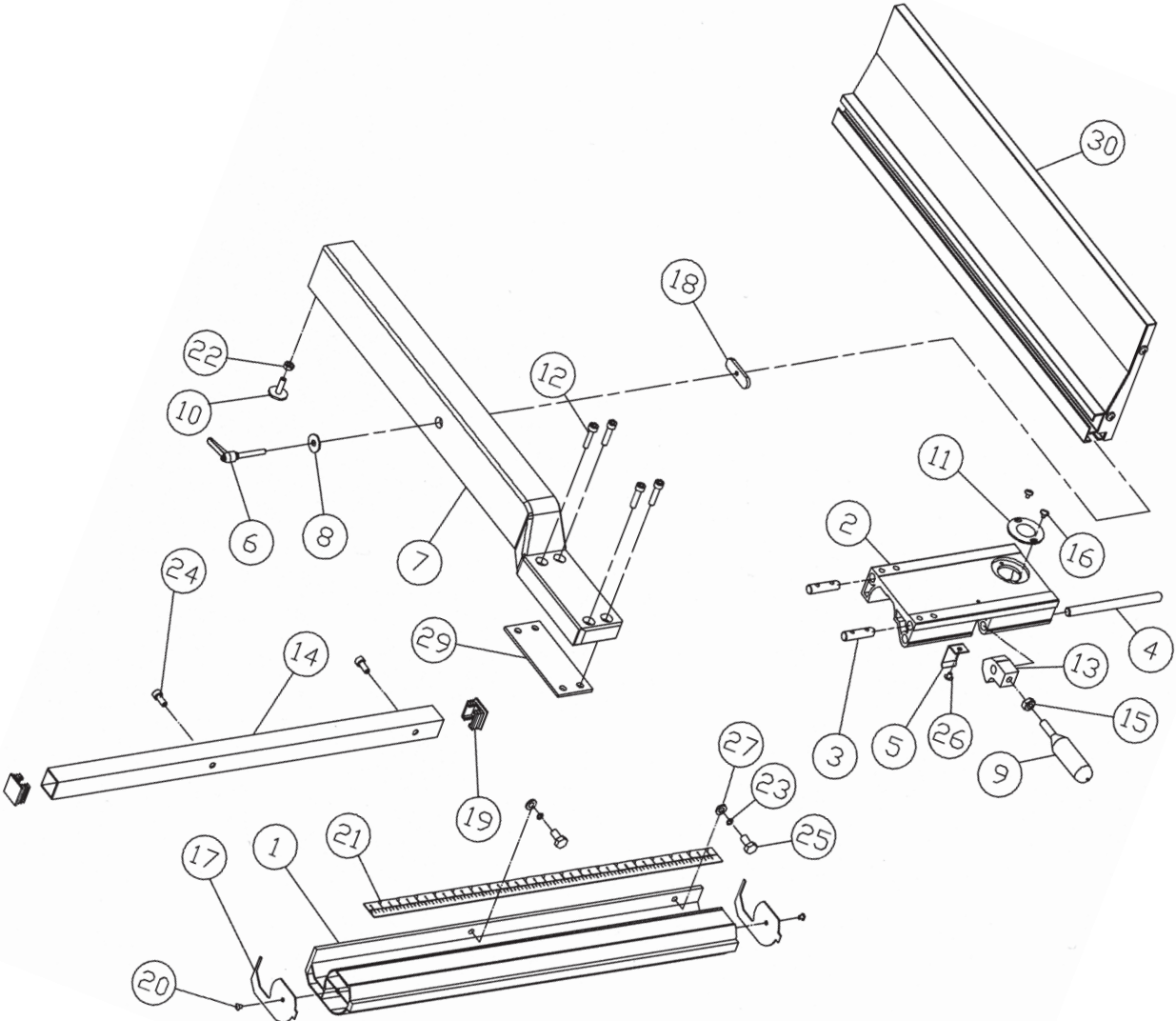
AP4300T/1 (Main Assembly)

94	SP049300	PAN HEAD BOLT	M4x12L	2
95	136803	LOWER WHEEL COVER		1
96	136019	WIRE CONNECTOR	224-201	1
97	135109	STOP SWITCH		1
98	SR100700	HEX SOCKET BOLT	M10X35L	2
99	709412	STRAIN RELIEF	PG-11	2
100	135081	RELIEF PLATE	M20	1
101	136013	STRAIN RELIEF	PG-13.5	2
102	136475	RELIEF PLATE	M20	1
103	WS100000	SPRING WASHER	M10	2
104	WF102325	FLAT WASHER	M10x0Xt2.5	2
105	136427	FIX PLATE		1
106	ST040200	TAPPING SCREW	4X10L	5
107	WF040805	FLAT WASHER	M4x 0 8Xt0.5	2
108	136425	TENSION POINT		1
109	998625	CORD CLAMP	5716"	2
110	136400	TENSION SCALE	1/8"-1-3/8"	1
111	ST040300	TAPPING SCREW	4X15L	4
112	WF081820	FLAT WASHER	M8x 0 8Xt2	4
113	PS031200	PIN	03X12L	1
114	136482	SPRING		1
115	136413	TENSIONING BRACKET		1
116	136840	TENSION WIRE		1

117	136424	SHIFTING PLATE		1
122	WS080000	SPRING WASHER	M8	4
123	SH089400	HEX HEAD BOLT	M8x16L	4
130	AB135093B	LOWER BLADE GUIDE SUPPORT(ASM)		1
131	AB135021-A	TRUNNION SUPPORT BRACKET(ASM)		1
132	AB135091	UPPER BLADE GUIDE SUPPORT(ASM)		1
133	AB135050T3	GUIDE BRACKET(ASM)		1
136	SR050200	HEX SOCKET BOLT	M5x10	2
137	WF051210	FLAT WASHER	M5x012xt1	2
138	136825	PROTECT COVER(ASM)		1
140	135073	STEP SCREW		1
141	135054	FIBRE WASHER		1
142	136825-5	SLIDING PLATE		1
143	NH101700	NUT	M10	1
144	SJ080400	HEX SOCKET BOTTOM HEAD SCREW	M8x20	4
145	WS080000	SPRING WASHER	M8	4
146	WF081818	FLAT WASHER	M8x</>18xt1	4
148	135006	HANDLE WHEEL		1
149	SR060400	HEX SOCKET BOLT	M6x20L	1



AP4300T/1 (17inch Fence Assembly)

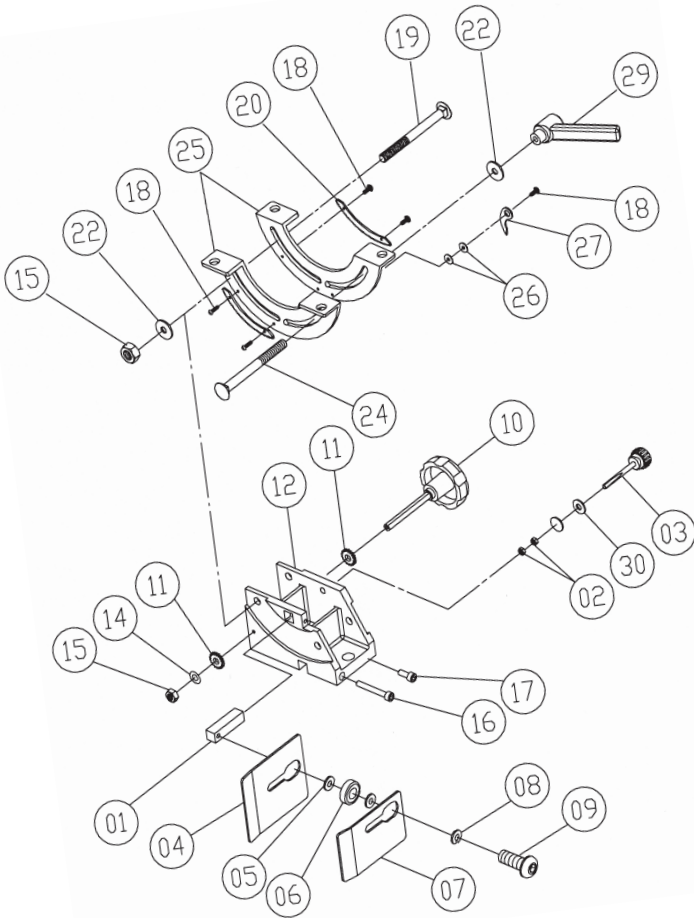


PART NO: AB198021				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
01	198018	FIXED BASE	640	1
02	198002	ADJUST BASE		1
03	198003	FIXED SHAFT		2
04	198005	SHAFT		1
05	198006	SPRING WASHER		1
06	198074	LOCK KNOB	M8x44	1
07	198077	SUPPORT TUBE	590	1
08	WF082320	FLAT WASHER	M8x23	1
09	198013	HANDLE		1
10	198012	ADJUST SCREW		1
11	198007	CONVEX		1
12	SR060500	HEX SOCKET BOLT	M6x25	4
13	198004	CLAMPING BLOCK		1
14	198020	SQUARE TUBE	640	1

15	NH081300	NUT	M8	1
16	SF049100	PAN HEAD BOLT W/FLANGE	M4x6	2
17	198014	GUARD PIECE		2
18	200527	MOVING PLATE		1
19	198016	END PLUG		2
20	ST039300	TAPPING SCREW	M3.5x12	2
21	LM000539	SCALE		1
22	NH061000	NUT	M6	1
23	WS060000	SPRING WASHER	M6	2
24	SR069400	HEX SOCKET BOLT	M6x16	2
25	SH060400	HEX HEAD BOLT	M6x20	2
26	SF049200	PAN HEAD BOLT W/FLANGE	M4x8	1
27	WF061310	FLAT WASHER	M6x13	2
29	198008	BRACKET	T=3	1
30	AC198082	FENCE (AL)	590	1

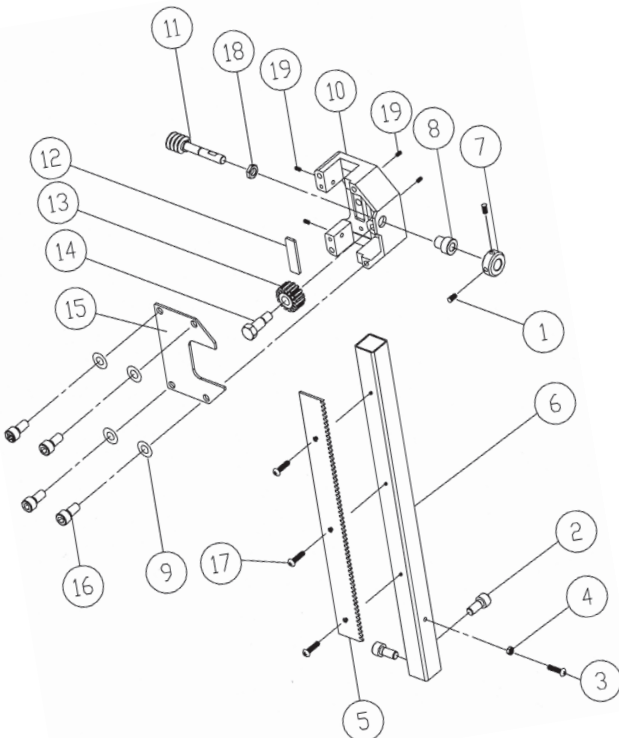
Exploded Diagram/List

AP4300T/1 (Trunnion Support Bracket ASM)



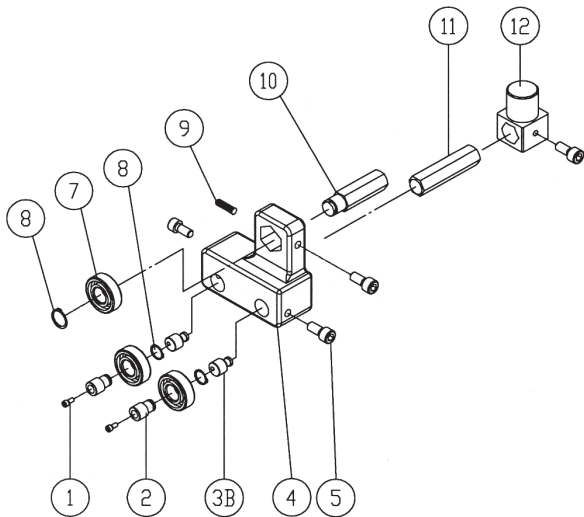
PART NO: AB135021-C				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	135045	ADJUSTING BLOCK		1
2	NH061000	NUT	M6	2
3	135009	ADJUSTING BAR		1
4	135122	LEFT COVER		1
5	WF102025	FLAT WASHER	M10x20	2
6	BB600002A	BALL BEARING	6000ZZ	1
7	135123	RIGHT COVER		1
8	WS100000	SPRING WASHER	M10	1
9	SJ100500	HEX SOCKET BOTTON HEAD SCREW	M10x25	1
10	135063	KNOB		1
11	135061	SMALL GEAR		2
12	135021	TRUNNION SUPPORT BRACKET		1
14	WS080000	SPRING WASHER	M8	1
15	NL081300	NYLON NUT	M8	2
16	SR061000	HEX HEAD BOLT	M6x50	1
17	SR060400	HEX HEAD BOLT	M6x20	1
18	SP049100	PAN HEAD BOLT	M4x6	5
19	SC081600	CARRIAGE BOLT	M8x80	1
20	135052	GEAR PLATE		2
22	WF081820	FLAT WASHER	M8x18	2
24	SC081700	CARRIAGE BOLT	M8x85	1
25	135025	TRUNNION PLATE		2
26	WF040808	FLAT WASHER	M4x8	2
27	135078	POINTER		1
29	135044	HANDLE		1
30	WF061300	FLAT WASHER	M6x13	2

AP4300T/1 (Guide Bracket ASM)



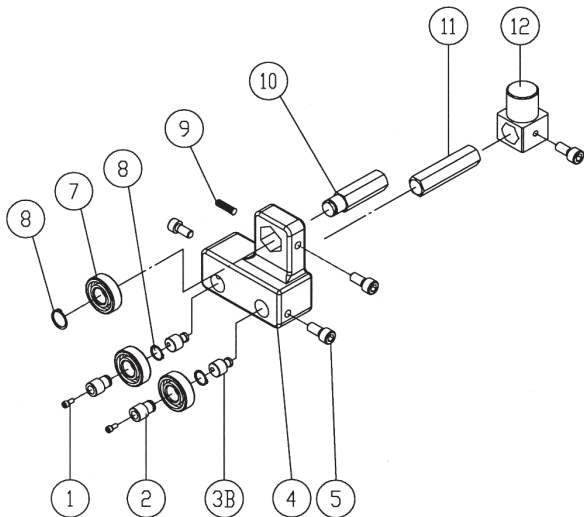
PART NO: AB135050				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
01	SS050100	SET BOLT	M5x5	2
02	SR069400	HEX SOCKET BOLT	M6x16	2
03	SP040200	PAN HEAD BOLT	M4x10	
04	NH040700	NUT	M4	
05	135029	RACK		
06	135047	UPPER GUIDE GUARD		
07	135015	LOCATE BUSHING		
08	136453	BUSHING		
09	WS080000	SPRING WASHER	M8	4
10	135050	GUIDE BRACKET		
11	135033	WORM CYLINDER		
12	135062	PLATE		
13	135049	GEAR		
14	016320	FIXED BOLT		
15	135046	COVER		
16	SR089400	HEX SOCKET BOLT	M8x16	4
17	SN049200	COUNTER SUNK BOLT	M4x8	3
18	136473	NUT	M16xP.5	1
19	990306	SET BOLT	M7x10	4

AP4300T/1 (Upper Blade Guide Support ASM)



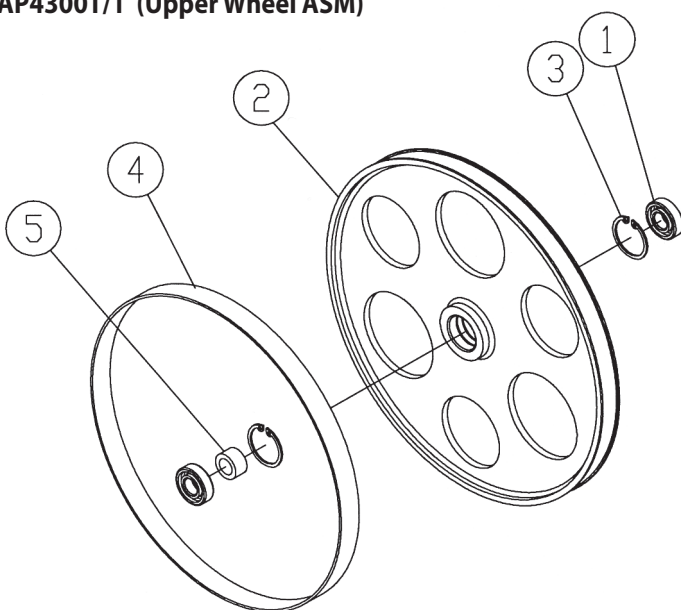
PART NO: AB135091				
ITEM	PART NO	DESCRIPUTLON	SIZE	QTY
1	SR060600	HEX SOCKET BOLT	M6x30	2
2	135093	HANDLE BUSHING		2
3B	135090B	BIAS SHAFT		2
4	135091	UPPER BLADE GUIDE SUPPORT		1
5	SR069400	HEX SOCKET BOLT	M6x16	4
7	BB620202	BALL BEARING	6202ZZ	3
8	RS150000	RING	S15	3
9	SS060200	SET BOLT	M6x10	1
10	135060	UPPER SPACING SLEEVE		1
11	135053	ADJUST BAR		1
12	135057	UPPER GUIDE SUPPORT BLOCK		1

AP4300T/1 (Lower Blade Guide Support ASM)



PART NO: AB135093A				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	SR060600	HEX SOCKET BOLT	M6x30	2
2	135093	HANDLE BUSHING		2
3	BB620202A	BALL BEARING	6202ZZ	2
4	RS150000	RETAINING RING	S15	2
5B	135090B	BIAS SHAFT		2
6	SR069300	HEX SOCKET BOLT	M6x16	2
7	135125	LOWER BLADE GUIDE SUPPORT		1

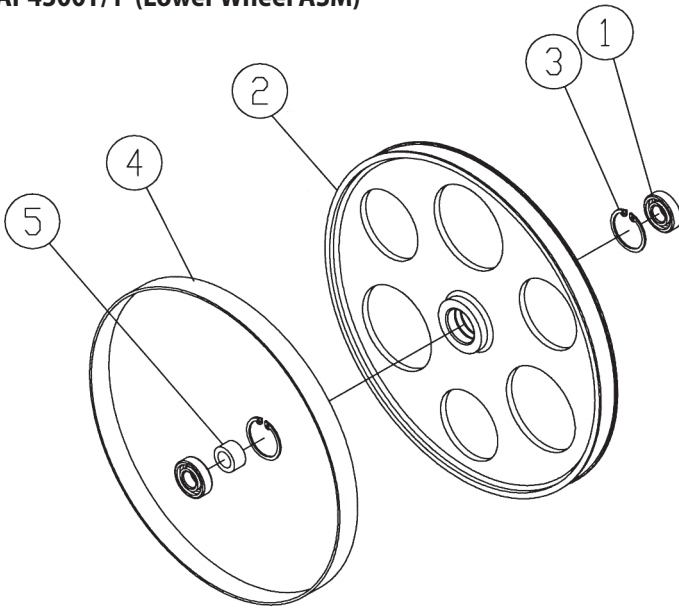
AP4300T/1 (Upper Wheel ASM)



PART NO: AB135116T				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	BB620403	BALL BEARING	6204LLU	2
2	135116T	UPPER WHEEL		1
3	RR470000	RETAINING RING	R47	2
4	135105	TYRE		1
5	135039	BUSHING		1

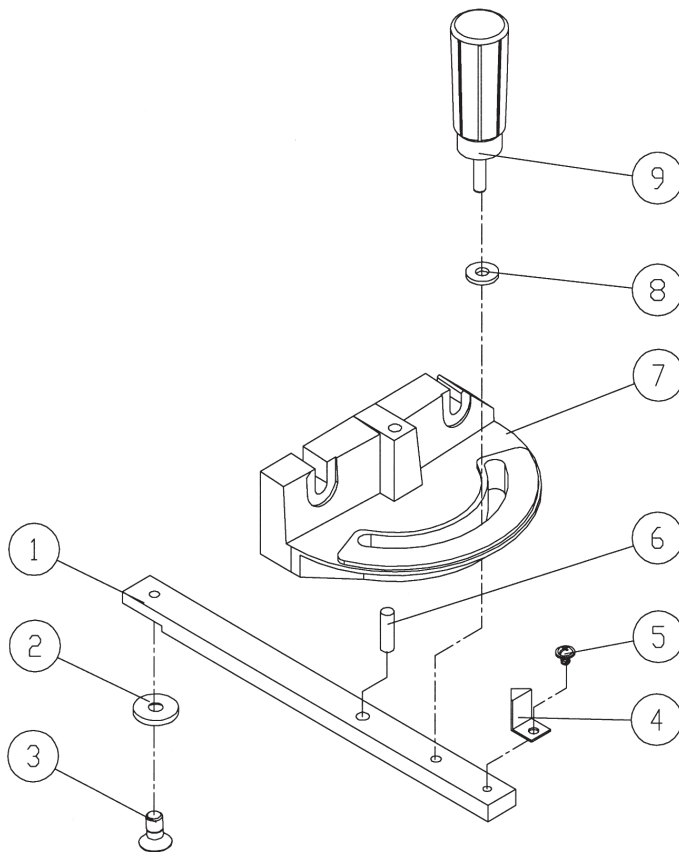
Exploded Diagram/List

AP4300T/1 (Lower Wheel ASM)



PART NO: AB135119T				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	BB620403	BALL BEARING	6204LLU	2
2	RR470000	RETAINING RING	R47	2
3	135105	TYRE		1
4	AB135119T	LOWER WHEEL ASM		1
5	135039	BUSHING		1

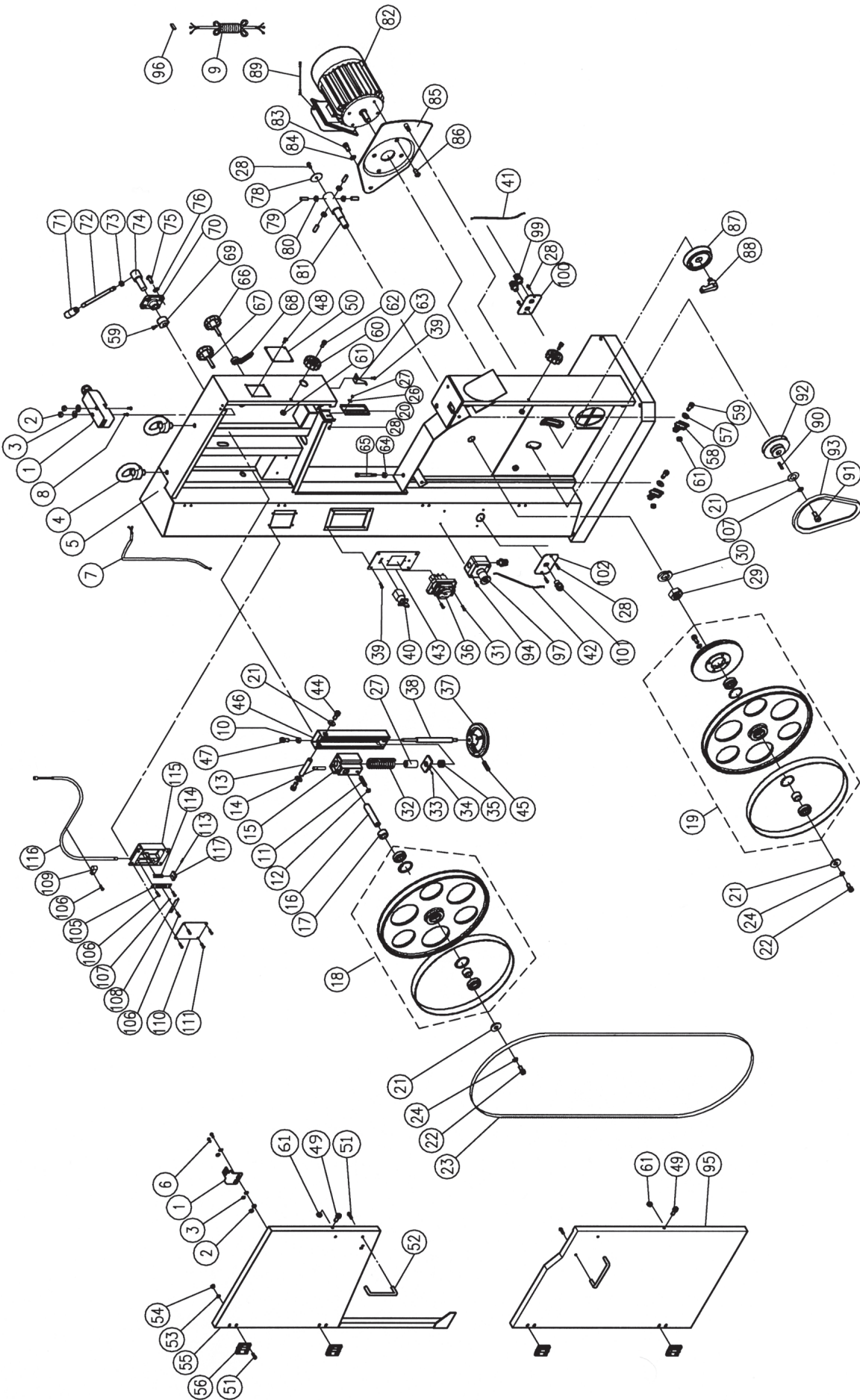
AP4300T/1 (Mitre Gauge Assembly)



PART NO: AB198101				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
01	198101	GUIDE BAR		1
02	198102	GUIDE PIECE		1
03	SN069200	COUNTER SUNK BOLT	M6x6	1
04	198103	POINTER		1
05	SF059200	PAN HEAD BOLT W/FLANGE	M5x8	1
06	198107	STEEL PIN	6.5x10	1
07	198106	MITRE GAUGE BODY		1
08	198104	NYLON WASHER		1
09	198105	HANDLE		1

AP5300T/2 (Main Assembly)

Parts List For 21 Inch Band Saw
Model No. SBW-5300T3CE



Exploded Diagram/List

AP5300T/2 (Main Assembly)

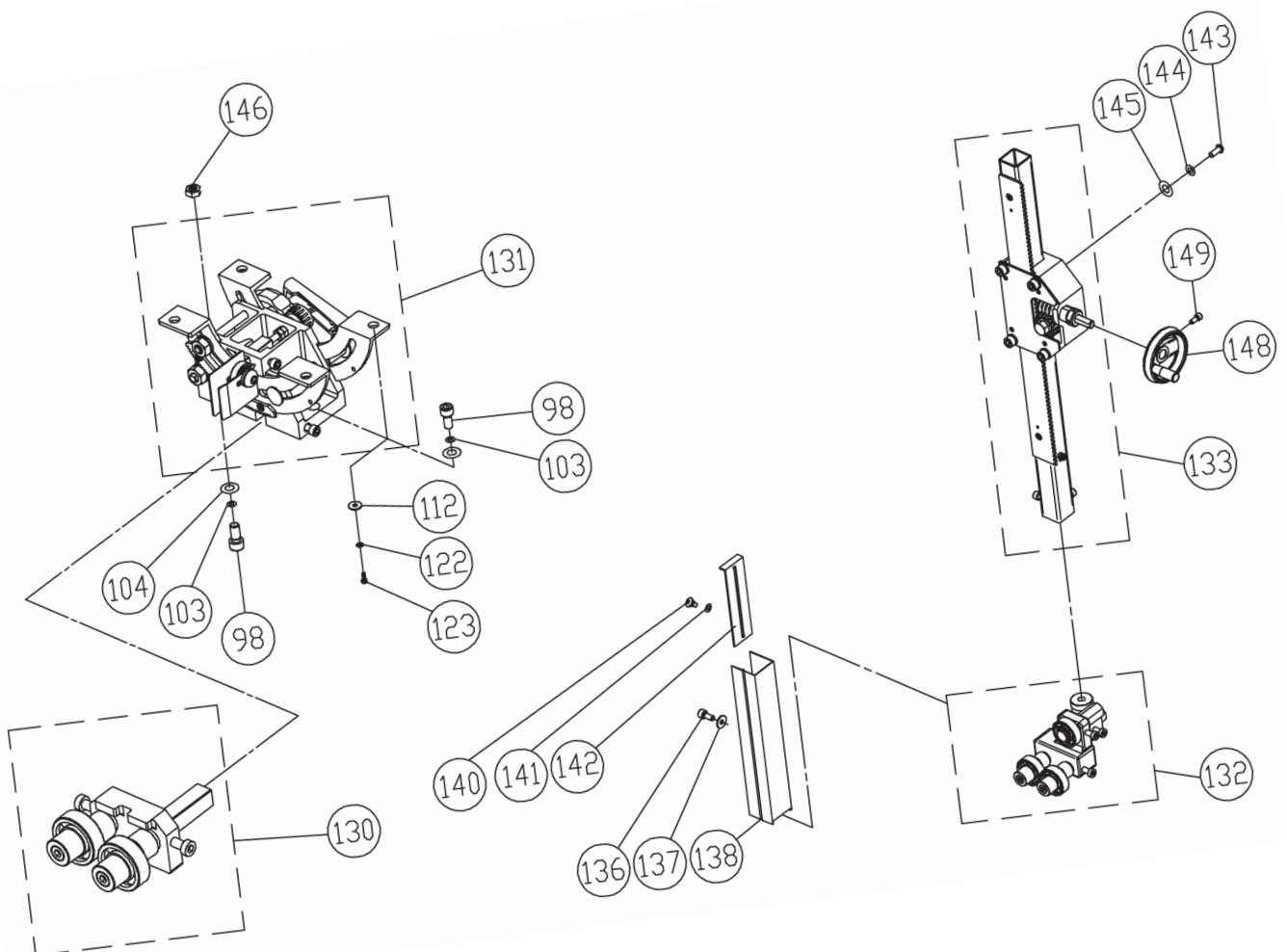
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	136457	LIMIT SWITCH	AZD-S11	1
2	NH040700	NUT	M4xP0.7	4
3	WF040805	WASHER	M4x8xt0.5	6
4	995101	RING	M10	2
5	136901	MACHINE BODY		1
6	SP040200	PAN HEAD BOLT	M4xP0.7x10L	2
7	IC136002	SWITCH CORD		1
8	SF040700	PAN HEAD BOLT W/FLANGE	M4x35L	2
9	IC136005	POWER CORD		1
10	NH061000	NUT	M6	1
11	SS100500	SET SCREW	M10xP1.5x25L	1
12	NH101700	NUT	M10xP1.5	1
13	135012	UPPER SHAFT		1
14	PS053500	SPRING PIN	5x35	1
15	136831	UPPER WHEEL SHAFT HINGE		1
16	135066	UPPER WHEEL SHAFT		1
17	612112	BUSHING		1
18	AB136046T	UPPER WHEEL ASSEMBLY		1
19	AB136048T	LOWER WHEEL ASSEMBLY		1
20	136824	PROTECT PLATE		1
21	WF083030	FLAT WASHER	M8x30xt3	5
22	SR089400	HEX SOCKET BOLT	M8x16	2
23	136039	SAW BLADE	3865x19x0.5mm	1
24	WS080000	SPRING WASHER	M8	2
25	992421	PLASTIC WASHER	M5x12x12	2
26	NL050800	NYLON NUT	M5xP0.8	2
27	135067	BUSHING		1
28	SF050200	PAN HEAD BOLT W/FLANGE	M5x10L	7
29	NH633801	NUT	1"-14UNF	1
30	WS630000	SPRING WASHER	1"	1
31	ST039304	TAPPING SCREW	3.5x12(AB)	2
32	135032	SPRING	7x8-3/4(34)	1
33	PS031600	PIN	3x16L	1
34	136827	LOCATE BLOCK		1
35	994301	BEARING	51201	1
36	170245	SWITCH	KJD-11-10D(JD2)-230V	4
37	135002	HANDLE WHEEL		1
38	136007	ADJUSTING BOLT		1
39	ST040204	PAN HEAD BOLT W/FLANGE	M4x10(AB)	5
40	135108	MULTIFINGER SWITCH		1
41	IM136003	MOTOR CORD		1
42	IC136001	STOP SWITCH CORD		1
43	136822	SWITCH PLATE		1
44	SR089400	HEX SOCKET BOLT	M8x16L	2
45	SS069300	SET SCREW	M6xP1.0x12L	1
46	135016	UPPER WHEEL SLIDING BRACKET		1
47	SR060500	HEX SOCKET BOLT	M6x25	1

48	BR000044	RIVET	3.2x10	4
49	SR060200	HEX SOCKET BOLT	M6x10L	2
50	135004	LIMPID PIECE		1
51	SR050200	HEX SOCKET BOLT	M5x10L	20
52	136828	ROUND PULLS		2
53	WF051210	FLAT WASHER	M5x12xt1	8
54	NH050810	NUT	M5	8
55	136902	UPPER WHEEL COVER	LY-4050	1
56	136826	HINGE	M6x13xt1	4
57	WF061310	FLAT WASHER		2
58	135051	BRUSH		2
59	SR060500	HEX SOCKET BOLT	M6x25L	3
60	135041	KNOB	M6	2
61	NL061000	NYLON NUT	M6	6
62	SR060400	HEX SOCKET BOLT	M6x20L	2
63	136833	HEIGHT POINTER		1
64	NH081300	NUT	M8	1
65	SH081800	HEX HEAD BOLT	M8x90L	1
66	135022	KNOB SCREW	M10x20L	1
67	135020	KNOB SCREW	M10x53L	1
68	135028	LOCATE HANDLE	M10	1
69	135030	CAM		1
70	135038	LOCATE BLOCK		1
71	620021	KNOB		1
72	620020	LEVER ROD		1
73	NH121900	NUT	M12	1
74	135036	SHAFT		1
75	SJ080400	HEX SOCKET BOTTOM HEAD SCREW	M8x20	4
76	WS080000	SPRING WASHER	M8	4
77	136019	WIRE CONNECTOR	224-201	1
78	135013	COVER		1
79	SS080400	SET SCREW	M8x20L	4
80	NH081300	NUT	M8	4
81	135005	LOWER WHEEL SHAFT		1
82	ABM-H135020A	MAGNETIC BRAKE MOTOR	2HP/50HZ/230V	1
83	SR100500	HEX HEAD BOLT	M10x25L	1
84	WS100000	SPRING WASHER	M10	1
85	136829	MOTOR BRACKET		1
86	SJ080400	HEX SOCKET BOTTOM HEAD SCREW	M8x20L	4
87	136832	HANDLE WHEEL		1
88	201222	QUICK RELEASE	M10	1
89	IC136004	CONNECTING CORD		1
90	KS050535	KEY	5x5x35	1
91	SH080402	HEX HEAD BOLT	M8x20(L.H)	1
92	135008	MOTOR PULLEY		1
93	LA440000	V-BELT	A42	1
94	SP049300	PAN HEAD BOLT	M4x12L	2
95	136903	LOWER WHEEL COVER		1

AP5300T/2 (Main Assembly)

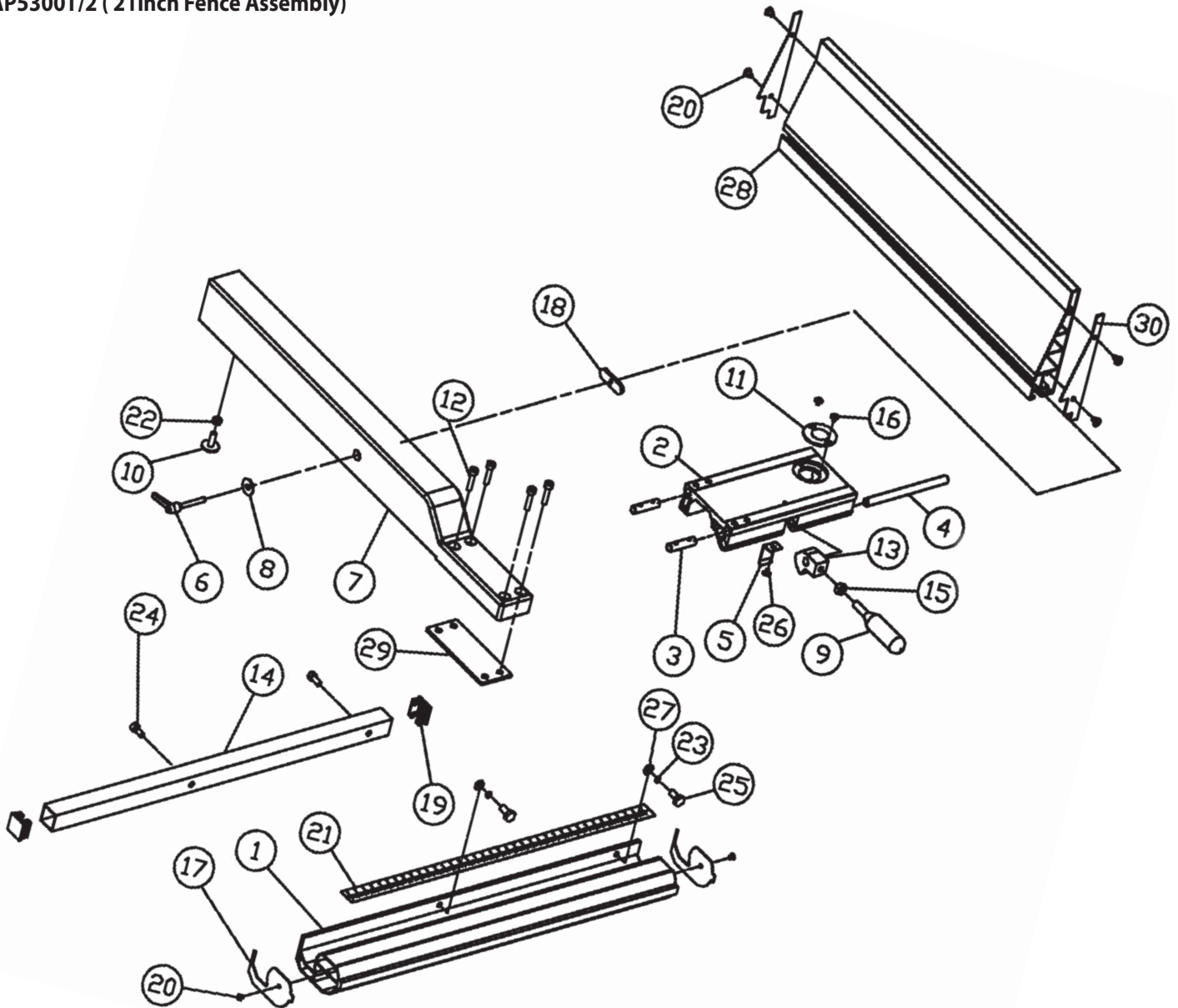
96	136019	WIRE CONNECTOR	224-201	1
97	135109	STOP SWITCH		1
98	SR100700	HEX SOCKET BOLT	M10x35L	2
99	709412	STRAIN RELIEF	PG-11	2
100	135081	RELIEF PLATE	M20	1
101	136013	STRAIN RELIEF	PG-13.5	2
102	136475	RELIEF PLATE	M20	1
103	WS100000	SPRING WASHER	M10	2
104	WF102325	FLAT WASHER	M10x23	2
105	136427	FIX PLATE		1
106	ST040200	TAPPING SCREW	4x10L	5
107	WF040805	FLAT WASHER	M4x8xt0.5	2
108	136425	TENSION POINT		1
109	998625	CORD CLAMP	5/16"	2
110	136400	TENSION SCALE		1
111	ST040300	TAPPING SCREW	4x15L	4
112	WF081820	FLAT WASHER	M8x18xt2	4
113	PS031200	PIN	3x12L	1
114	136482	SPRING		1
115	136413	TENSIONING BRACKET		1
116	136840	TENSION WIRE		1

117	136424	SHIFTING PLATE		1
122	WS080000	SPRING WASHER	M8	4
123	SH089400	HEX HEAD BOLT	M8x16L	4
130	AB135093A	LOWER BLADE GUIDE SUPPORT(ASM)		1
131	AB135021-C	TRUNNION SUPPORT BRACKET(ASM)		1
132	AB135091	UPPER BLADE GUIDE SUPPORT(ASM)		1
133	AB135050T3	GUIDE BRACKET(ASM)		1
136	SR050200	HEX SOCKET BOLT	M5x10	2
137	WF051210	FLAT WASHER	M5x12	2
138	136825	PROTECT COVER(ASM)		1
140	135073	STEP SCREW		1
141	135054	FIBRE WASHER		1
142	136825-5	SLIDING PLATE		1
143	SJ080400	HEX SOCKET BOLT	M8x20	4
144	WS080000	SPRING WASHER	M8	4
145	WF081818	FLAT WASHER	M8x18	4
146	NH101700	NUT	M10	1
148	135006	HANDLE WHEEL		1
149	SR060400	HEX SOCKET BOLT	M6x20L	1



Exploded Diagram/List

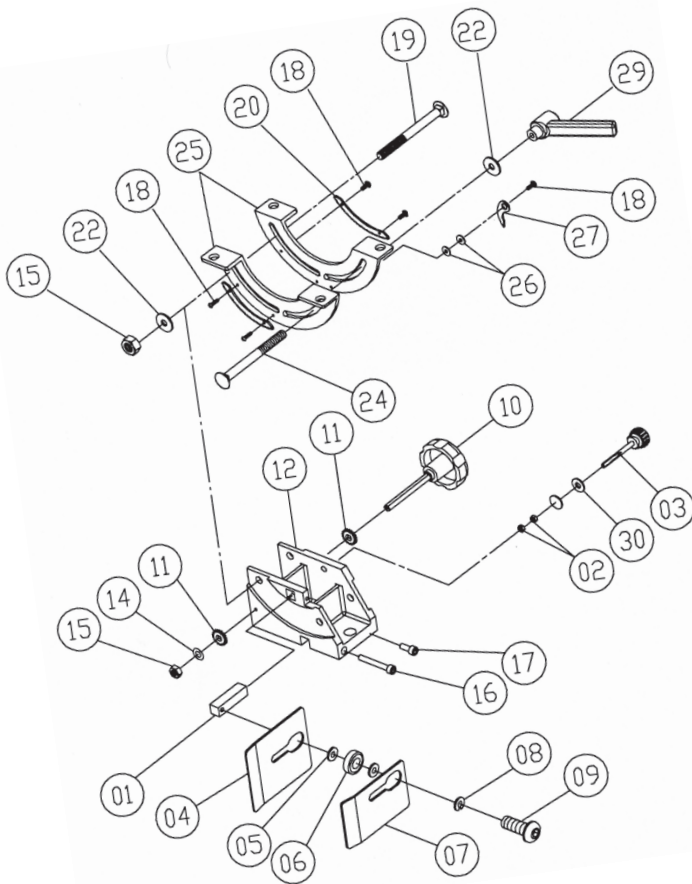
AP5300T/2 (21inch Fence Assembly)



PART NO: AB198032				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	198026	FIXED BASE	790mm	1
2	198002	ADJUST BASE		1
3	198003	FIXED SHAFT		2
4	198005	SHAFT		1
5	198006	SPRING PIECE		1
6	198075	LOCK KNOB	M8x52	1
7	198099	SUPPORT TUBE	690mm	1
8	WF082310	FLAT WASHER	M8x23x1	1
9	198013	HANDLE		1
10	198012	ADJUST SCREW		1
11	198007	CONVEX		1
12	SR060500	HEX SOCKET BOLT	M6x25	4
13	198004	CLAMPING BLOCK		1
14	198027	SQUARE TUBE	790mm	1

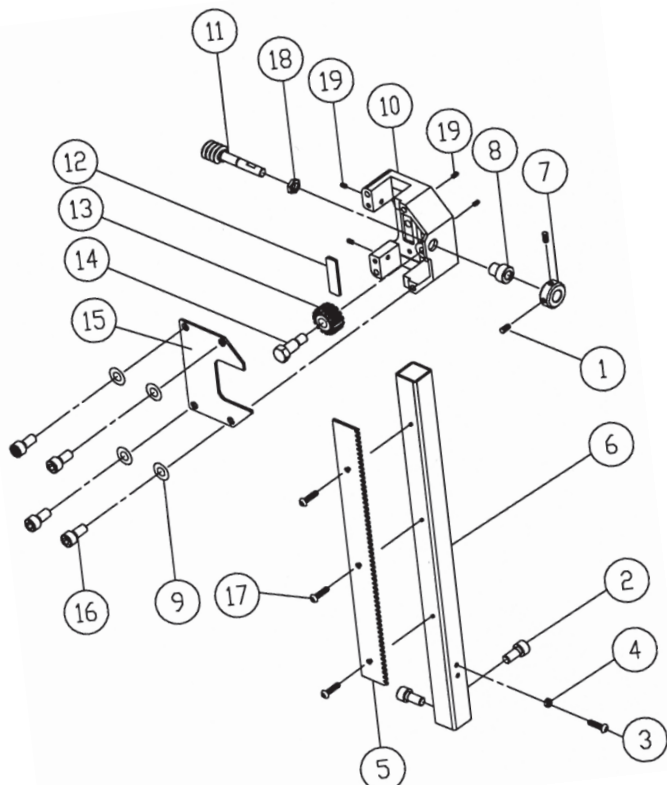
15	NH081300	NUT	M8	1
16	SF049100	PAN HEAD BOLT W/FLANGE	M4x6	2
17	198014	GUARD PIECE		2
18	200527	MOVING PLATE		1
19	198016	PLUGGED		2
20	ST039300	TAPPING SCREW	3.5x12	6
21	LM001035	SCALE	545mm	1
22	NH061000	NUT	M6	1
23	WS060000	SPRING WASHER	M6	2
24	SR069400	HEX SOCKET BOLT	M6x16	2
25	SH060400	HEX HEAD BOLT	M6x20	2
26	SF049200	PAN HEAD BOLT W/FLANGE	H4x8	1
27	VF061310	FLAT WASHER	M6x13	2
28	AA198086	FENCE (AL)	690mm	1
29	198008	BRACKET	T=3	1
30	198182	FENCE PIECE		2

AP5300T/2 (Trunnion Support Bracket ASM)



PART NO: AB135021-C				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	135045	ADJUSTING BLOCK		1
2	NH061000	NUT	M6	2
3	135009	ADJUSTING BAR		1
4	135122	LEFT COVER		1
5	WF102025	FLAT WASHER	M10x20	2
6	BB600002A	BALL BEARING	6000ZZ	1
7	135123	RIGHT COVER		1
8	WS100000	SPRING WASHER	M10	1
9	SJ100500	HEX SOCKET BUTTON HEAD SCREW	M10x25	1
10	135063	KNOB		1
11	135061	SMALL GEAR		2
12	135021	TRUNNION SUPPORT BRACKET		1
14	WS080000	SPRING WASHER	M8	1
15	NL081300	NYLON NUT	M8	2
16	SR061000	HEX HEAD BOLT	M6X50	1
17	SR060400	HEX HEAD BOLT	M6X20	1
18	SP049100	PAN HEAD BOLT	M4x6	5
19	SC081600	CARRIAGE BOLT	M8x80	1
20	135052	GEAR PLATE		2
22	WF081820	FLAT WASHER	M8x18	2
24	SC081700	CARRIAGE BOLT	M8X85	1
25	135025	TRUNNION PLATE		2
26	WF040808	FLAT WASHER	M4x8	2
27	135078	POINTER		1
29	135044	HANDLE		1
30	WF061300	FLAT WASHER	M6x13	2

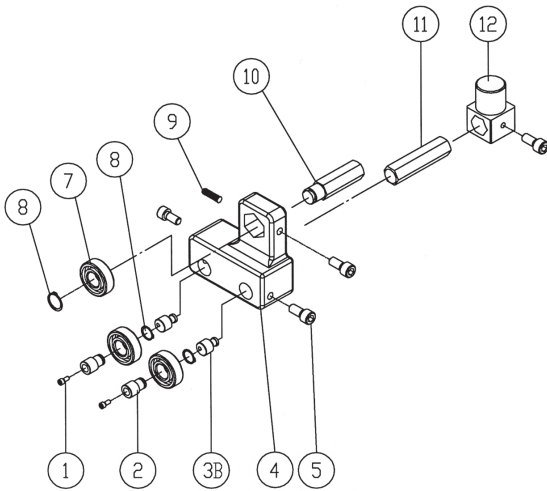
AP5300T/2 (Guide Bracket ASM)



PART NO: AB135050T3				
ITEM	PARTS NO	DESCRIPTION	SIZE	QTY
1	SS05100	SET SCREW	M5x5	2
2	SR069400	HEX SOCKET BOLT	M6x16	2
3	SP040200	PAN HEAD BOLT	M4x10	1
4	NH040700	NUT	M4	1
5	135029	PACK		1
6	136823	UPPER GUIDE HOSE	550rm	1
7	135015	LOCATE BUSHING		1
8	136453	BUSHING		1
9	WS080000	SPRING WASHER	M8	4
10	135050	GUIDE BRACKET		1
11	135033	WORM CYLINDER		1
12	135062	PLATE		1
13	135049	GEAR		1
14	016320	FIXED BOLT		1
15	135046	COVER		1
16	SR089400	HEX SOCKET BOLT	M8x16	4
17	SN049200	COUNTER SUNK BOLT	M4x8	3
18	136473	NUT	M16xPL5	1
19	990306	SET SCREW	M7x10	4

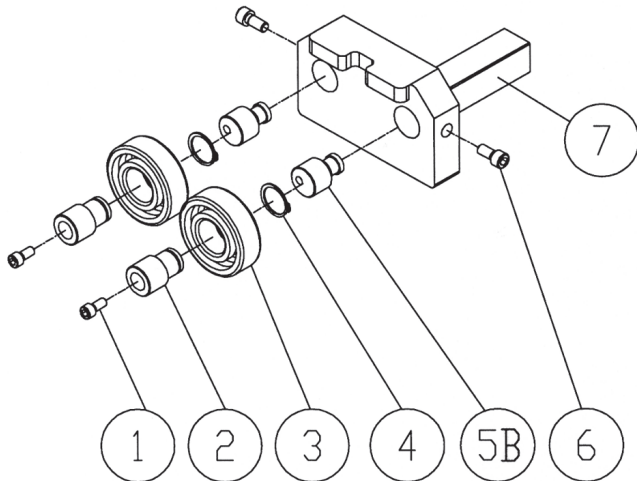
Exploded Diagram/List

AP5300T/2 (Upper Blade Guide Support ASM)



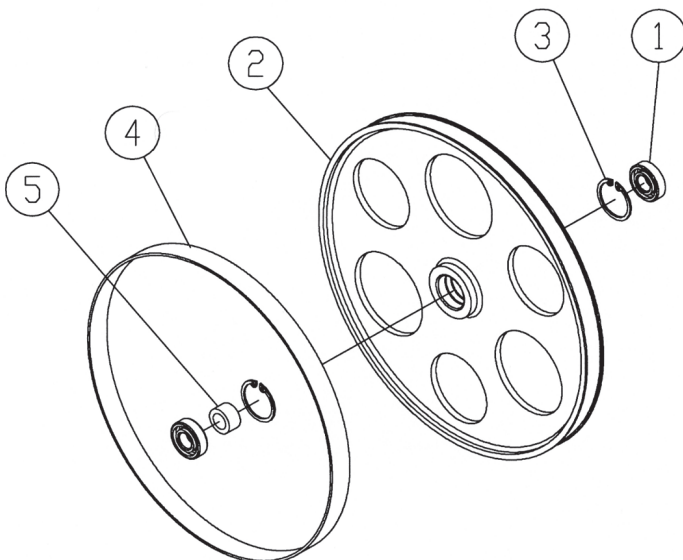
PART NO: AB135091				
ITEM	PARTS NO	DESCRIPTION	SIZE	QTY
1	SR060600	HEX SOCKET BOLT	M6x30	2
2	135093	HANDLE BUSHING		2
3B	135090B	BIAS SHAFT		2
4	135091	UPPER BLADE GUIDE SUPPORT		1
5	SR069400	HEX SOCKET BOLT	M6x16	4
7	BB620202A	BALL BEARING	6202ZZ	3
8	RS150000	RING	S15	3
9	SS060200	SET BOLT	M6x10	1
10	135060	UPPER SPACING SLEEVE		1
11	135053	ADJUST BAR		1
12	135057	UPPER GUIDE SUPPORT BLOCK		1

AP5300T/2 (Lower Blade Guide Support ASM)



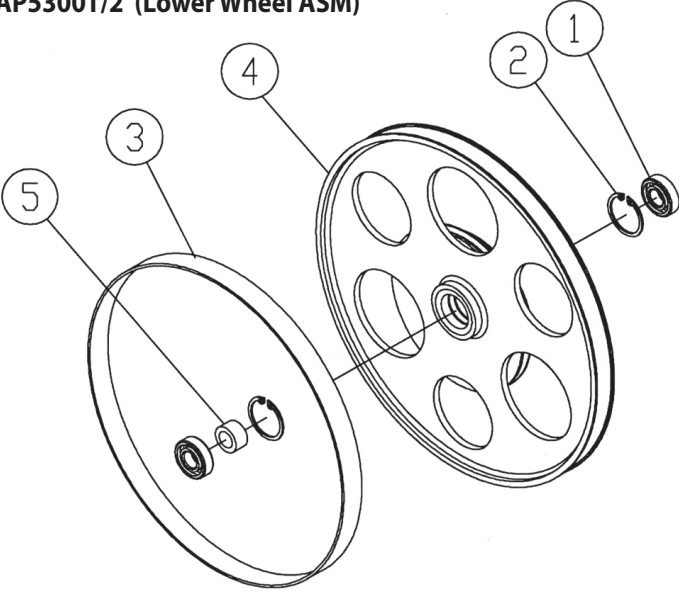
PART NO: AB135093A				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	SR060600	HEX SOCKET BOLT	M6x30	2
2	135093	HANDLE BUSHING		2
3	BB6EOEOEA	BALL BEARING	6202ZZ	2
4	RS150000	RETAINING RING	S15	2
5B	135090B	BIAS SHAFT		2
6	SR069300	HEX SOCKET BOLT	M6x16	2
7	135125	LOWER BLADE GUIDE SUPPORT		1

AP5300T/2 (Upper Wheel ASM)



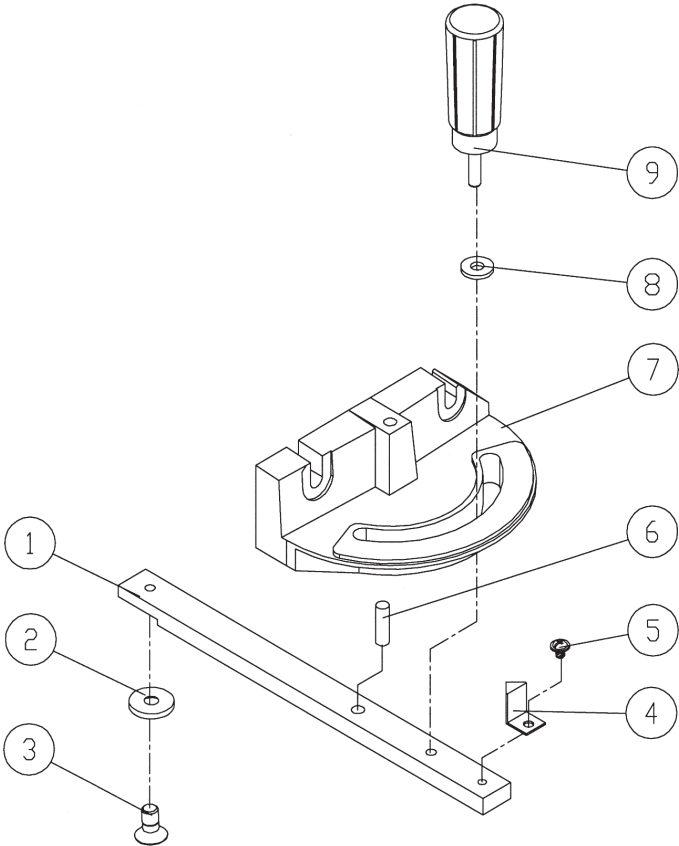
PART NO: AB136046T				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	BB620403	BALL BEARING	6204LLU	2
2	136046T	UPPER WHEEL		1
3	RR470000	RETAINING RING	R47	2
4	136040	TYRE		1
5	135039	BUSHING		1

AP5300T/2 (Lower Wheel ASM)



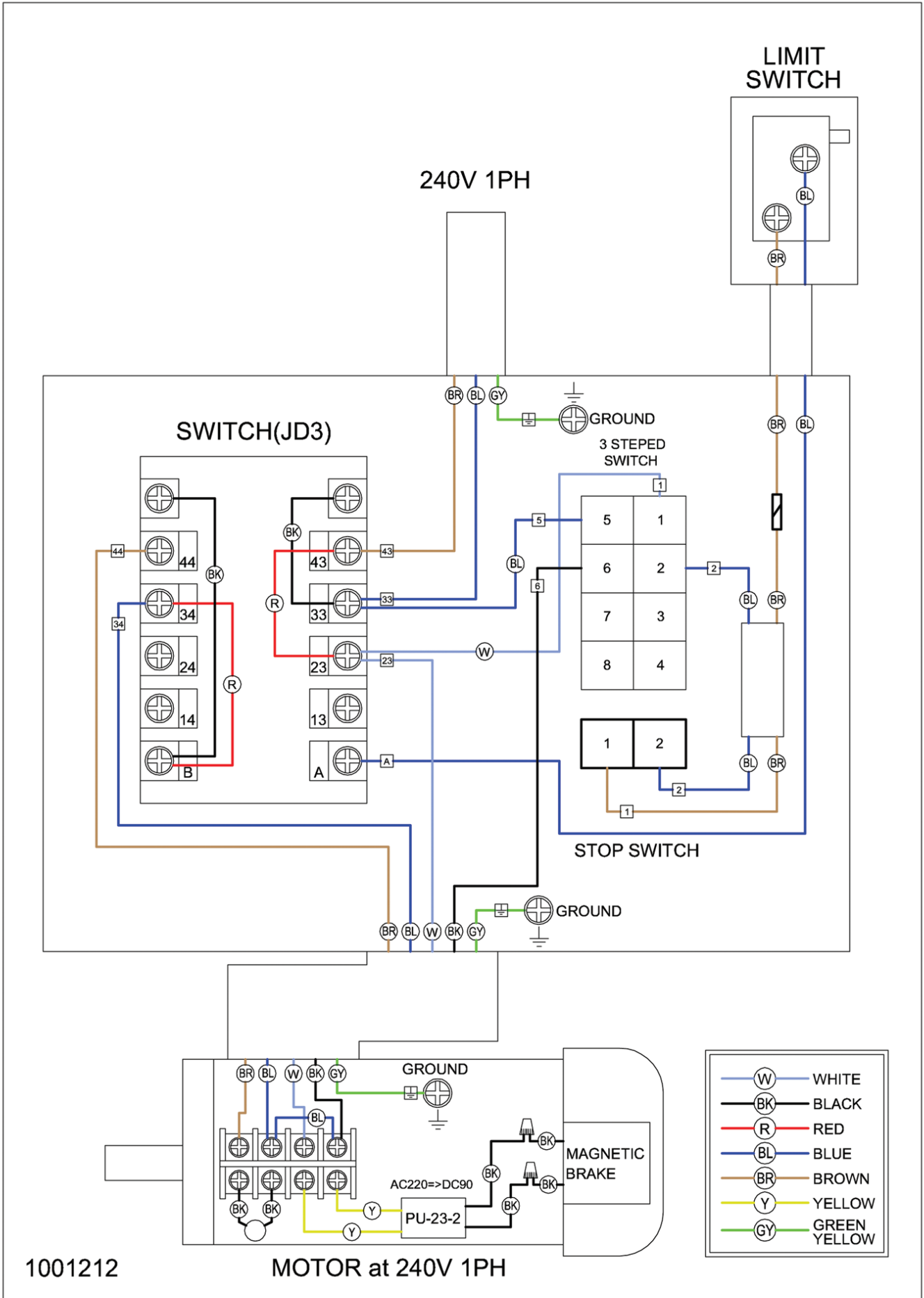
PART NO: AB136048T				
ITEM	PART NO	DESCRIPTION	SIZE	Q'TY
1	BB620403	BALL BEARING	6204LLU	2
2	RR470000	RETAINING RING	R47	2
3	136040	TYRE		1
4	AB136047T	LOWER WHEEL ASSEMBLY		1
5	135039	BUSHING		1

AP5300T/2 (Mitre Gauge Assembly)



PART NO: AB198101				
ITEM	PART NO	DESCRIPTION	SIZE	QTY
01	198101	GUIDE BAR		1
02	198102	GUIDE PIECE		1
03	SN069200	COUNTER SUNK BOLT	M6x6	1
04	198103	POINTER		1
05	SF059200	PAN HEAD BOLT W/FLANGE	M5x8	1
06	198107	STEEL PIN	6.5x10	1
07	198106	MITRE GAUGE BODY		1
08	198104	NYLON WASHER		1
09	198105	HANDLE		1

Wiring Diagram



C E R T I F I C A T E



for EC-Type Examination
 EC Directive 2006/42/EC Article 12, Section 3b
 Machinery

Registration No.: BM 50309398 0001

Report No.: 11017557 005

Holder: OAV Equipment & Tools, Inc.
 No. 96, Wucuo 1st st.,
 Qingshui Dist., Taichung City
 Taiwan, R.O.C. 43641

Product: Band saw
 (Band Saw)

Identification: (1) SBW-480S; Serial No. 1510002
 (2) SBW-530H; Serial No. 1510001
 (3) SBW-XY
 X= 300, 350, 400, 430, 480, 500, 530,
 600, 630, 730, 830, 930; Y= P, H, S
 Rated Voltage/ Power: see Appendix
 Protection Class: I

This product is in conformity with all requirements of Annex I of Council Directive 2006/42/EC.

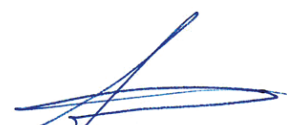
This EC-type Examination Certificate refers to an evaluation of the above mentioned product as stipulated in Annex IX and documented in the a.m. Technical Report. It does not imply an assessment of the whole production and does not permit the use of a mark of conformity of TÜV Rheinland. The holder of certificate is authorized to use this EC-Type Examination Certificate in connection with the EC-declaration of conformity according to Annex II of the Directive.

Valid till: 26.04.2020

Date 27.04.2015



Notified Body


 Dipl.-Ing. W. Feucker

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
 Accredited by Zentralstelle der Länder für Sicherheitstechnik (ZLS).

Notified under No. 0197 to the EC Commission.

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

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For more information visit axminster.co.uk/3years



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Axminster Tools & Machinery Ltd
Weycroft Avenue, Axminster, Devon EX13 5PH

axminster.co.uk