

AXMINSTER

PROfessional

Code 107661

Original Instructions


AP3086B

Bandsaw

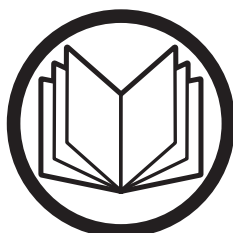


INDEX OF CONTENTS

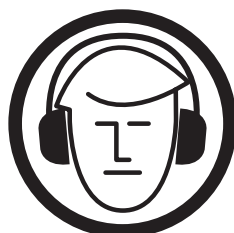
What's Included	03-04-05
General Instructions for 230V Machines	06
Specification	07
Main Assembly	07-08-09-10-11-12
Machine Dimensions	13
Illustration and Parts Description	14-15-16-17-18-19
Setting Up the Saw	20-21-22-23-24-25
Operating Instructions	25-26-27
Electro-magnetic Motor Brake Switch	28
Compact Mitre Fence	29
Changing the Saw Blade	30-31
Maintenance	32-33
Bandsaw Blade Information	34-35
Bandsaw Trouble Shooting/Accessories	36
UJK Technology Bandsaw Buddy	37
Exploded Diagrams/Lists	38-39-40-41-42-43-44-45-46-47
Wiring Diagram	48

<p>Cert No: SBW-350H</p> <p>Axminster Tool Centre Ltd Axminster Devon EX13 5PH UK axminstertools.com</p> <p>declares that the machinery described:-</p> <table border="1"> <tr> <td>Type</td> <td>Bandsaw</td> </tr> <tr> <td>Model</td> <td>AP3086B</td> </tr> </table> <p>Signed </p> <p>Andrew Parkhouse Operations Director</p> <p>Date: 26/04/2020</p>	Type	Bandsaw	Model	AP3086B	<p>EU Declaration of Conformity</p> <p>This machine complies with the following directives:</p> <p>2006/42/EC 06/42/EC - Annex I/05.2006 EN 1807-1:2013</p> <p>conforms to the machinery example for which the EC Type-Examination Certificate No BM50309398 has been issued by OAV Equipment & Tools, Inc. at: No. 96, Wucuo 1st St., 43641 Qingshui Dist., Taichung City, Taiwan, R.O.C and complies with the relevant essential health and safety requirements.</p>
Type	Bandsaw				
Model	AP3086B				

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

WHAT'S INCLUDED

Quantity	Item	Model Number			
		AP3086B			
1	Trade Bandsaw				
1	Blade 3,086.1mm (121.5") long, mounted on saw but not tensioned.				
1	Cast Iron Table	1			
Fence Assembly:		Bags Comprising:			
1	Front Fence Rail with Scale	2	1	Mitre Fence Assembly	12
1	Fence	3	a) Threaded lever with washer		
1	Fence Clamp Assembly with		b) Two Grub screws		
	Magnifying Glass	4	c) Two Hex Keys 3-4mm		
1	M8 Threaded Lever	5	d) Mitre Fence Body		
1	M8 Lift and Shift Handle	6	e) Threaded 'T' bolts with Clamping Knobs		
1	Threaded 'T' Slot Insert	7	f) Aluminium Fence		
2	M6 x 20mm Threaded Bolts	8	g) Depth Stop Assembly		
1	M8 Large Washer	9			
2	M6 Small Washers	10	1	Table Alignment Pin Handle	13
1	M8 Nut	11	1	10-13mm Spanner	14
			1	4-5-8mm Hex Keys	15
			4	M8 Washers	16
			4	M8 Spring Washers	17
			4	M8 x 16mm Threaded Bolts	18
			1	Fence Assembly Support bracket	19
1	User Manual		2	M6 Cap head screws with washers	20
			1	Large Washer and Nut	
				(for Table Alignment Pin Handle)	21



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.



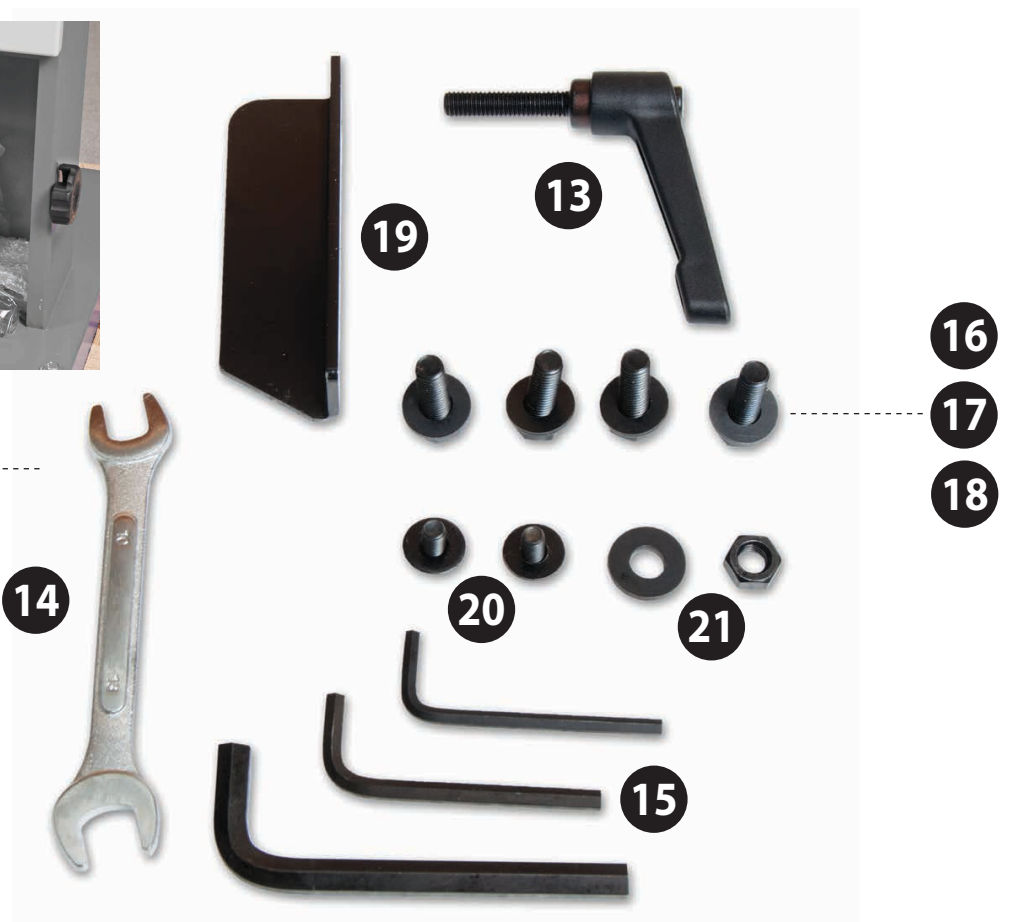
HAVING UNPACKED YOUR ACCESSORIES PLEASE DISPOSE OF ANY UNWANTED PACKAGING PROPERLY. THE POLYTHENE AND CARD ARE RECYCLABLE.

1



WHAT'S INCLUDED





GENERAL INSTRUCTIONS FOR 230V MACHINES

The following 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 REACH OF YOUNG CHILDREN



KEEP WORK AREA AS UNCLUTTERED AS IS PRACTICAL. UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS.

Mains Powered Tools

- Tools are supplied with an attached 16 Amp UK plug.
- Inspect the cable and plug to ensure that neither are damaged. Repair if necessary by a suitably qualified person.
- Do not use when or where it is liable to get wet.

Workplace

- Do not use 230V a.c. powered tools anywhere within a site area that is flooded.
- Keep machine clean.
- Leave machine unplugged until work is about to commence.
- Always disconnect by pulling on the plug body and not the cable.

- Carry out a final check e.g. check the cutting tool is securely tightened in the machine and the correct speed and function set.
- Ensure you are comfortable before you start work, balanced, not reaching etc.
- Wear appropriate safety clothing, goggles, gloves, masks etc. Wear ear defenders at all times.
- If you have long hair wear a hair net or helmet to prevent it being caught up in the rotating parts of the machine.
- Consideration should be given to the removal of rings and wristwatches.
- Consideration should also be given to non-slip footwear etc.
- If another person is to use the machine, ensure they are suitably qualified to use it.
- Do not use the machine if you are tired or distracted
- Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases.
- Check cutters are 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.
- **OBSERVE....** make sure you know what is happening around you and **USE YOUR COMMON SENSE.**

SPECIFICATION

Code	107661
Model	AP3086B
Rating	Trade/Professional
Power	1.5kW 230V 50Hz 1ph 16A
Blade Speed	720 m/min
Blade Length	3086.1 mm
Blade Width Min/Max	3-19 mm
Max Width of Cut	342 mm without fence
Max Depth of Cut	356 mm
Max Width of Cut with Fence	315 mm
Noise Level	85 dB
Table Size	552 x 410 mm
Table Height	940 mm
Wheel Diameter	355 mm
Dust Extraction Outlet	100 mm x 2
Overall L x W x H	740 x 825 x 1,921 mm
Weight	144.3 kg

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.



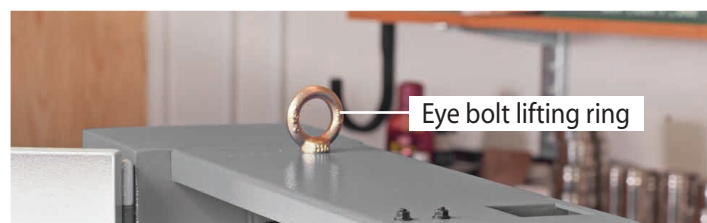
WARNING! THE BANDSAW IS A HEAVY PIECE OF MACHINERY, WE STRONGLY ADVISE YOU GET THE ASSISTANCE OF ANOTHER PERSON OR USE SOME SORT OF LIFTING DEVICE, (HOIST, ENGINE CRANE), BEFORE YOU ATTEMPT TO LIFT OR MOVE THIS MACHINE!

Mounting the Table

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 01-02-03.

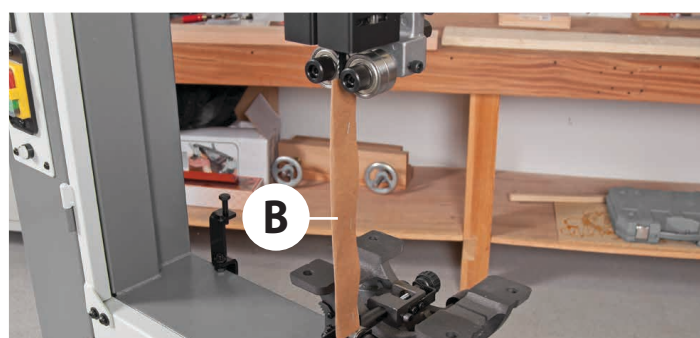
Remove the protective rapping around the bandsaw blade, see fig B. **CAUTION! take care, the blade is sharp.**

Lift the bandsaw off the pallet using the 'Eye Bolt Lifting Ring' mounted to the top of the bandsaw. Place the saw 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.



Eye bolt lifting ring

Fig 01-02-03



B

MAIN ASSEMBLY

Step 1 Remove the table insert and the table shipment cap head bolt and nut and place aside, see figs 04-05. Lift the table (1), slide the blade through the table slot, rotate the table round and lower the table on to the tilt quadrant assembly, see fig 06-07. Line up threaded holes with the pre-drilled holes in the tilt quadrant, see fig 08.

Fig 04-05

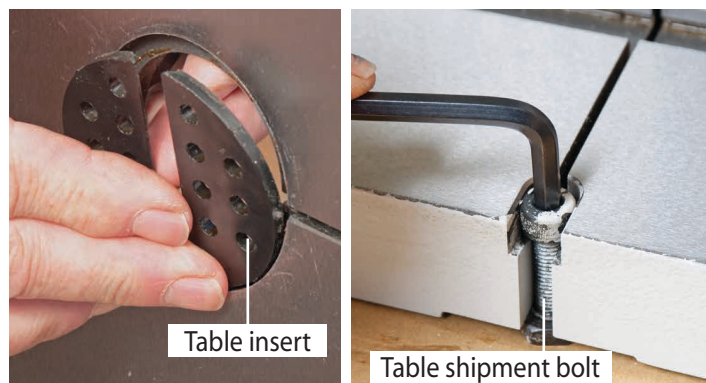


Fig 06-07-08



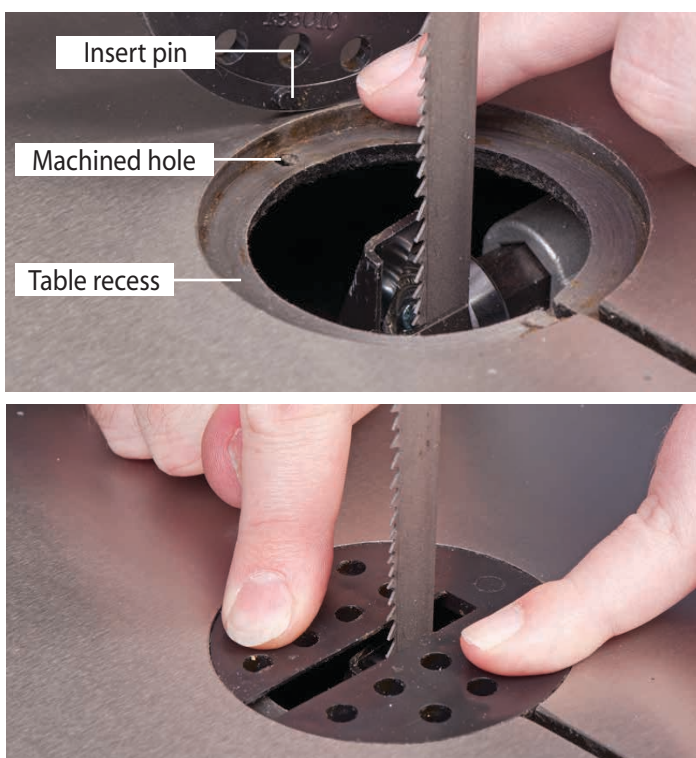
Fig 09-10



Step 2 Place a spring/washer (16 -17) over each M8 threaded bolt (18), see fig 09 and lightly tighten the four bolts in position, see fig 10. Note DON'T FULLY TIGHTEN at this point.

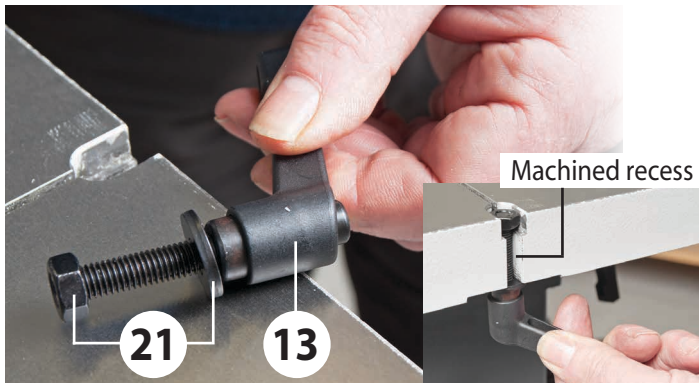
Step 3 Replace the table insert by lining up the two pins in the insert with the machined holes in the recess to the centre of the cast iron table. Push firmly down, see figs 11-12.

Fig 11-12

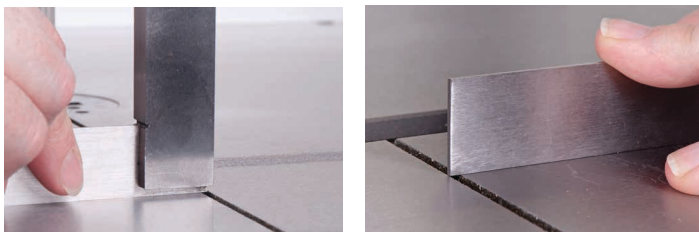


Step 4 Locate the table alignment pin handle (13) and the large washer and nut (21). Insert the washer over the thread and screw on the nut, giving sufficient clearance between washer and nut, see fig 13. Insert the threaded handle into the slot in the cast iron table (1) and tighten so the nut clamps down in the machined recess, see fig 14.

Fig 13-14



Step 5 Place a straight edge or 90° square across the table's slot, adjust the tapered alignment pin handle (13) beneath the table, this will align both sides of the table.

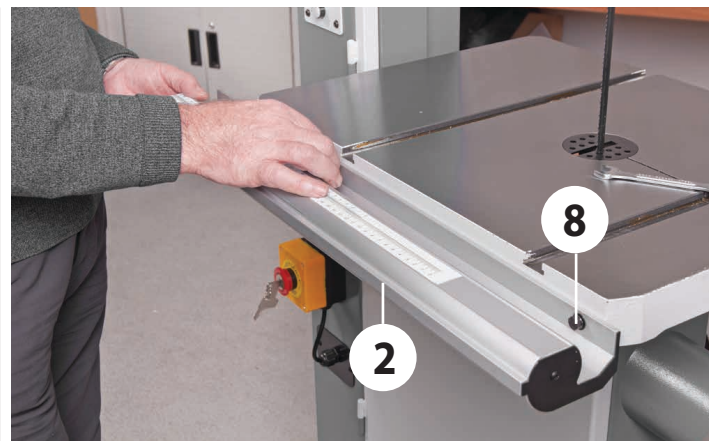
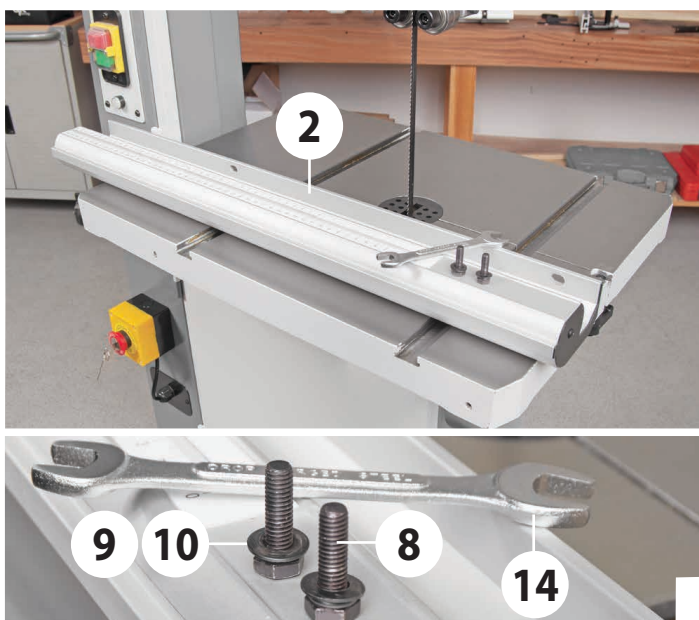


Checking both sides of the table are level

Fence Assembly

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

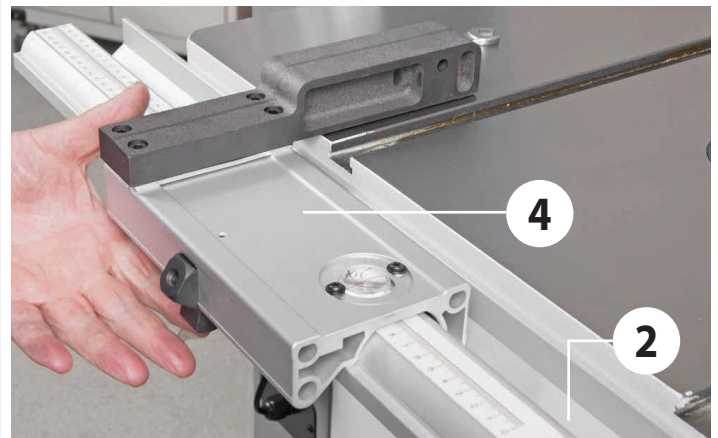
Fig 15-16-17



Step 1 Place a spring/washer (9-10) over each M6x20mm bolt (8), 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 (8) through the fence rail and lightly tighten using the supplied spanner (14), see figs 15-16-17.

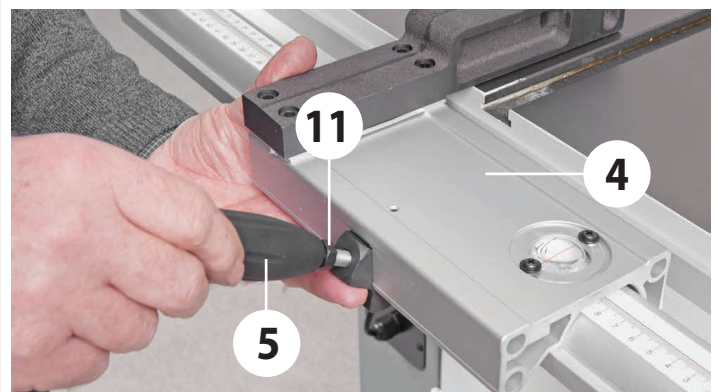
Step 2 Fit the fence clamp assembly (4) over the front fence rail (2) and lower the assembly on the cast iron table, see fig 18.

Fig 18



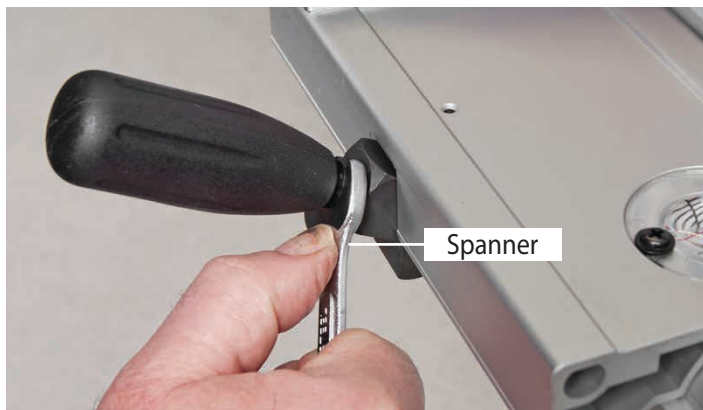
Step 3 Locate the M8 nut (11), and screw it onto the thread of the M8 threaded lever (5) then screw the threaded lever (5) into the threaded hole in the clamp assembly (4) mechanism and tighten the nut with a spanner, see figs 19-20.

Fig 19-20



Continues Over....

MAIN ASSEMBLY



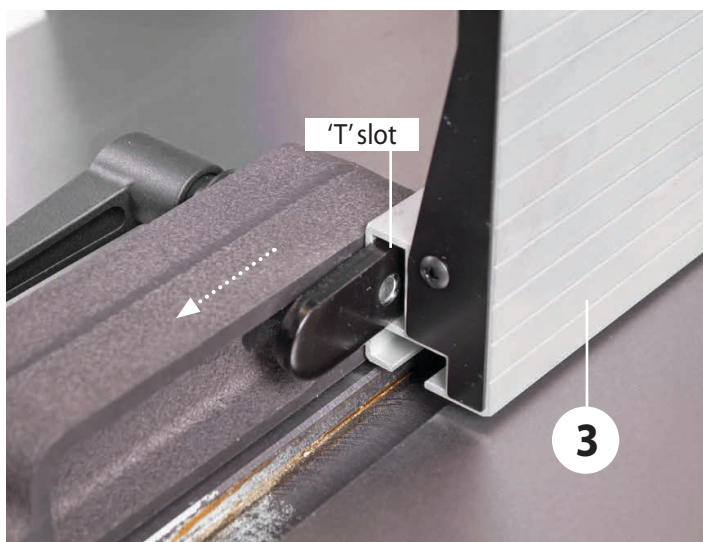
Step 4 Locate the fence (3), M8 lift and shift handle/ M8 large washer (6) and threaded 'T' slot insert (7). Place the large washer over the thread of the lift and shift handle (6), introduce the handle through the machined hole to the side of the cast iron mounting on the clamping assembly (4) and lightly screw on the threaded 'T' slot insert (7), see fig 21.

Fig 21



Step 5 Introduce the 'T' slot to the side of the fence (3) over the threaded 'T' slot insert (7) and slide on the fence until the fence (3) is flush with the rear of the cast iron table (1). Tighten the lift and shift handle (6) to secure the fence in position, see fig 22-23.

Fig 22-23



NOTE: The fence (3) has two positions, vertical and horizontal for cutting narrow pieces, see fig 24-25-26.

Fig 24-25-26

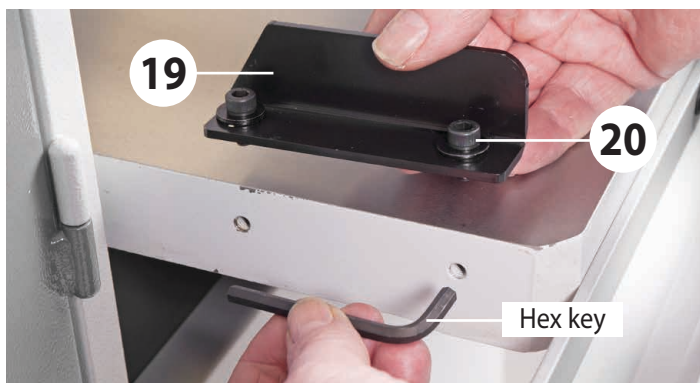


Fence Assembly Support Bracket

The bracket helps to support the fence assembly when the fence is in position up against the saw frame to utilise the maximum width of the table (1)

Locate the fence assembly support bracket (19) and the two M6 cap head screws (20). Line up the two pre-drilled holes in the support bracket with tapped holes to the left side of the cast iron table (1) and using the supplied Hex key secure the bracket (19) in position, see fig 27-28-29.

Fig 27-28-29



Using the fence clamp assembly (4) as a level, tighten the two cap head screws (20) to secure the bracket (19) in position.

Mitre Fence Assembly

Step 1 Locate the following parts (see page 3) Threaded lever with washer (a), Grub screws (b), Hex keys (c), Mitre fence body (d), Threaded 'T' bolts with clamping knobs (e), Aluminium fence (f) and Depth stop (g).

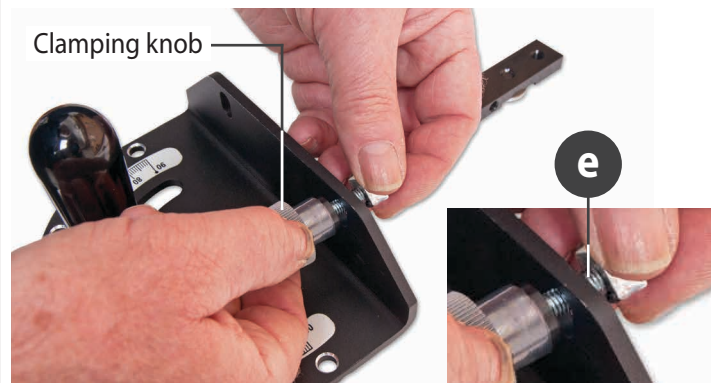
Fig 30



Step 2 Screw the lever (a) through the elongated machined cutout in the mitre fence body (d) and into the threaded hole in the square steel bar. Lightly tighten, see fig 30.

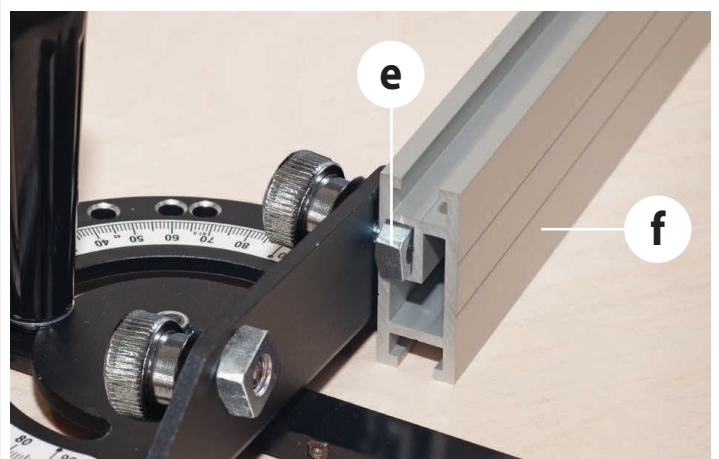
Step 3 Remove the square nuts from the threaded bolt knobs (e). Insert the bolts through the two pre-drilled holes in the mitre fence mounting bracket and replace the square nuts, see fig 31. NOTE: Give adequate clearance on the threads for the next step.

Fig 31



Step 4 Introduce the 'T' slot to the side of the fence (f) over the square nuts (e), lightly tighten clamping knobs to secure the fence (f) in position, see fig 32-33. NOTE: Make sure the fence is in the correct way round, the base of the fence should be flush with the cast iron table (1).

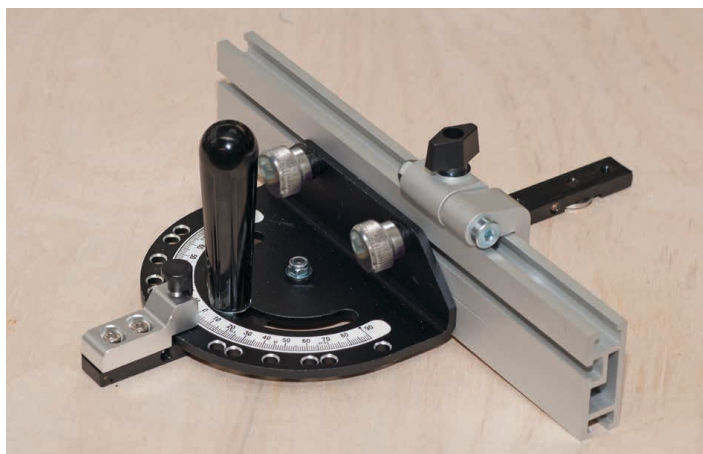
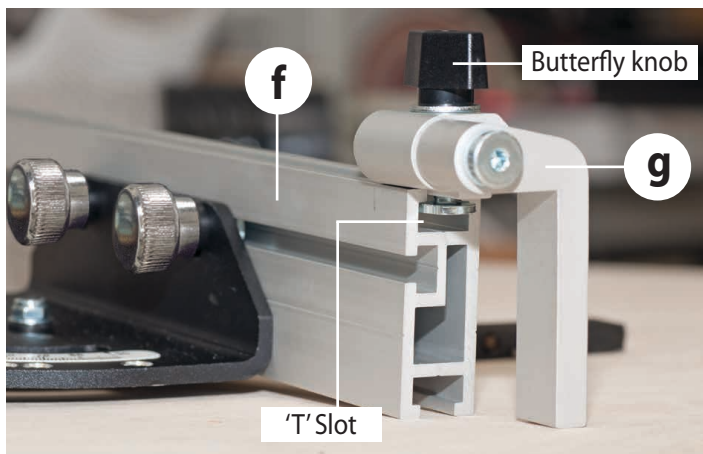
Fig 32-33





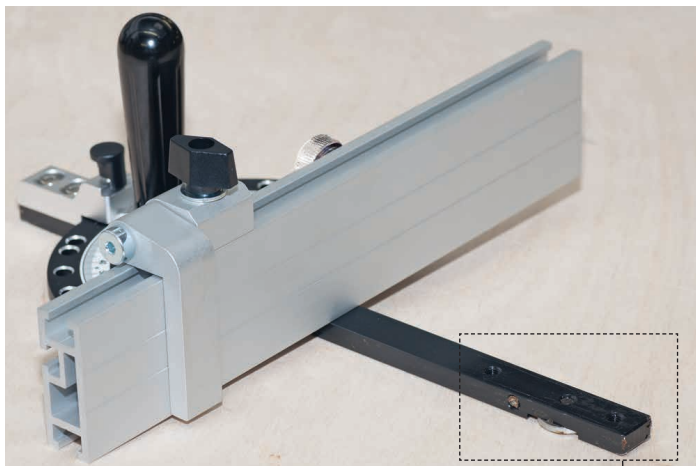
Step 5 Locate the depth stop assembly (g), loosen the butterfly clamping knob on top of the unit. Line up the threaded 'T' bolt with the 'T' slot to the top of the aluminium fence (f) and slide on the assembly. Light tighten the butterfly knob to secure the unit in position, see fig 34-35.

Fig 34-35



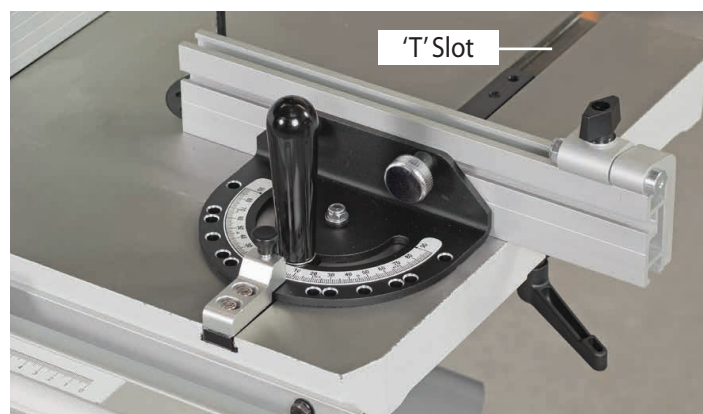
Step 6 Using the supplied Hex key (c) screw the two grub screws (b) into threaded holes to the end of the steel bar, see fig 36-37. The grub screws can be adjusted so the mitre fence runs smoothly in the bandsaw tables 'T' Slot.

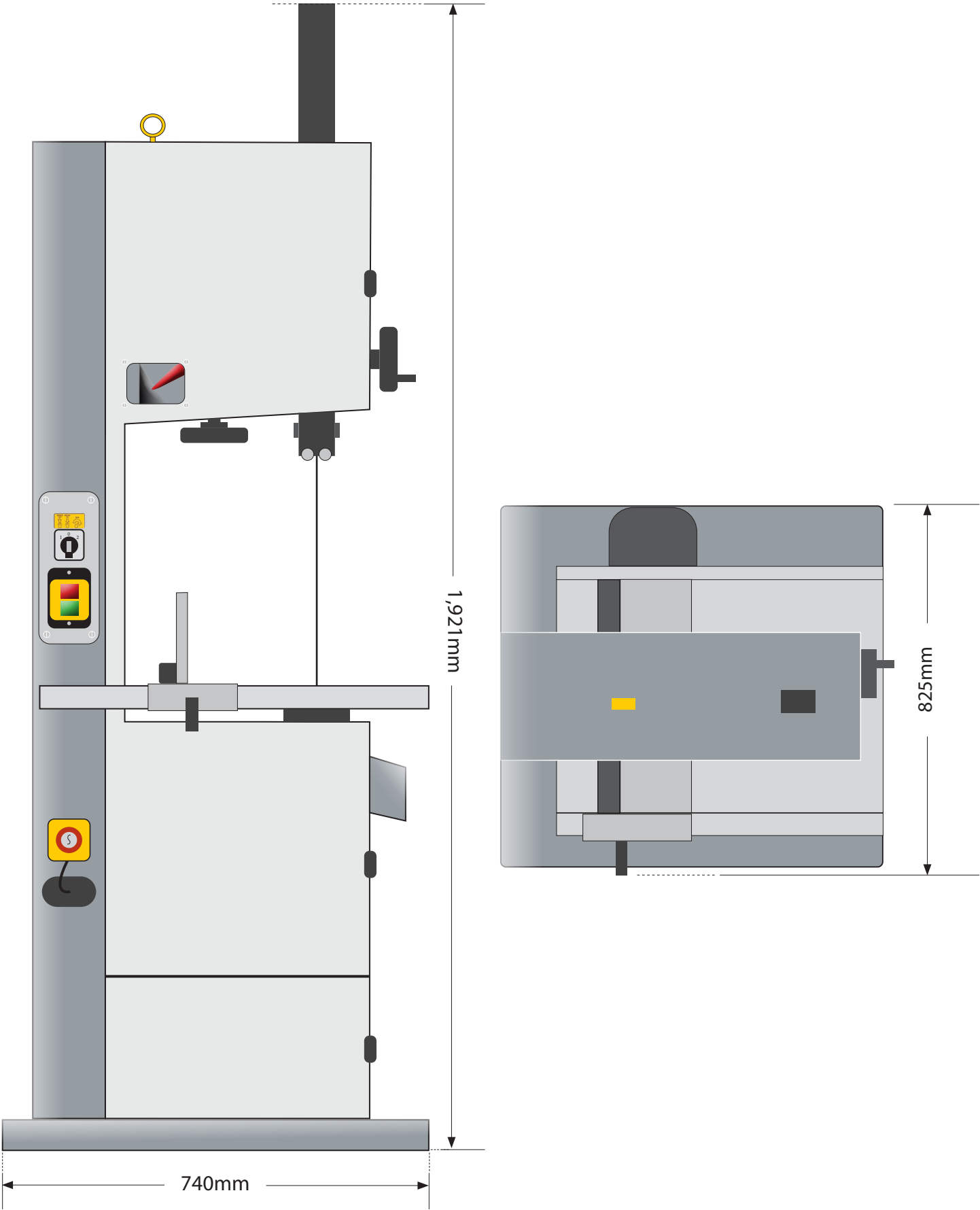
Fig 36-37



Step 7 Slide the mitre fence assembly into the cast iron table's 'T' slot, adjust the aluminium fence (f) so it just misses the saw blade, see fig 38.

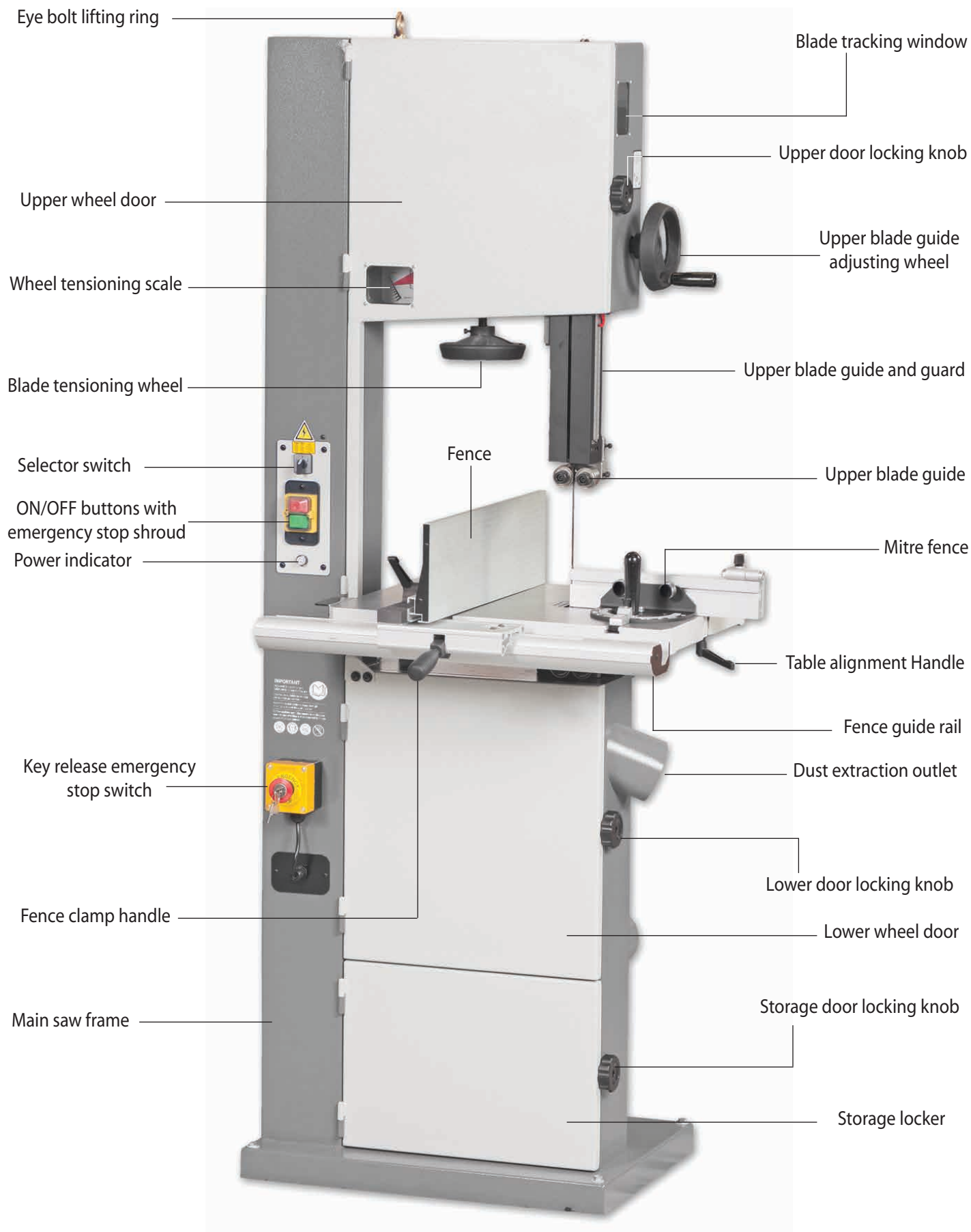
Fig 38





Code: 107661 AP2086B Bandsaw

ILLUSTRATION AND PARTS DESCRIPTION

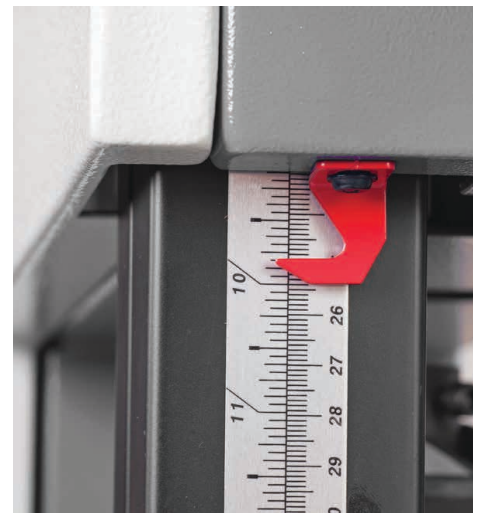




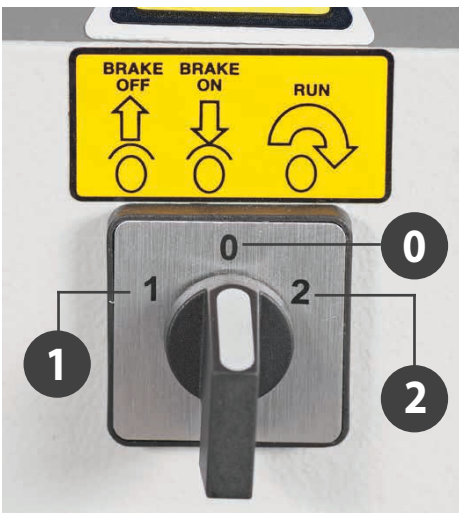
Key release emergency stop, press the button to stop the bandsaw and turn the key to release it



NVR switch control assembly



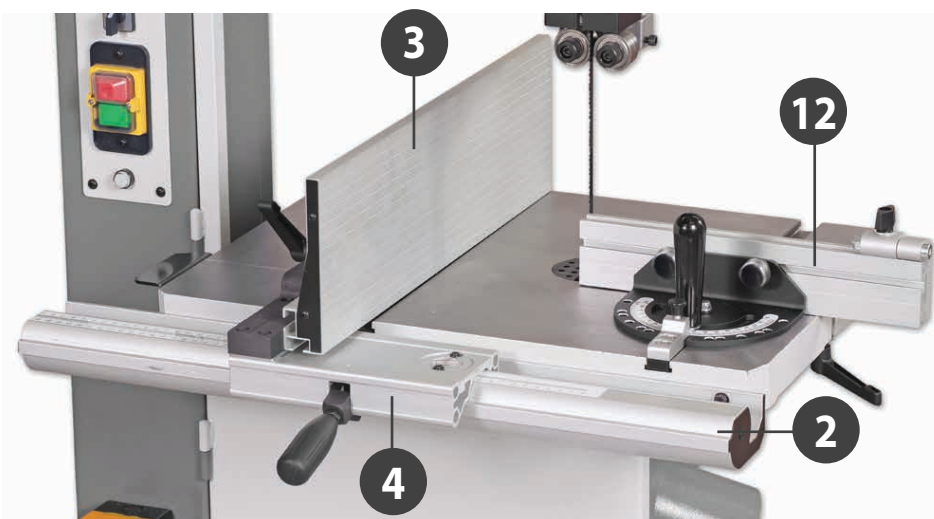
Upper blade guide height scale and pointer



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



Blade tracking window

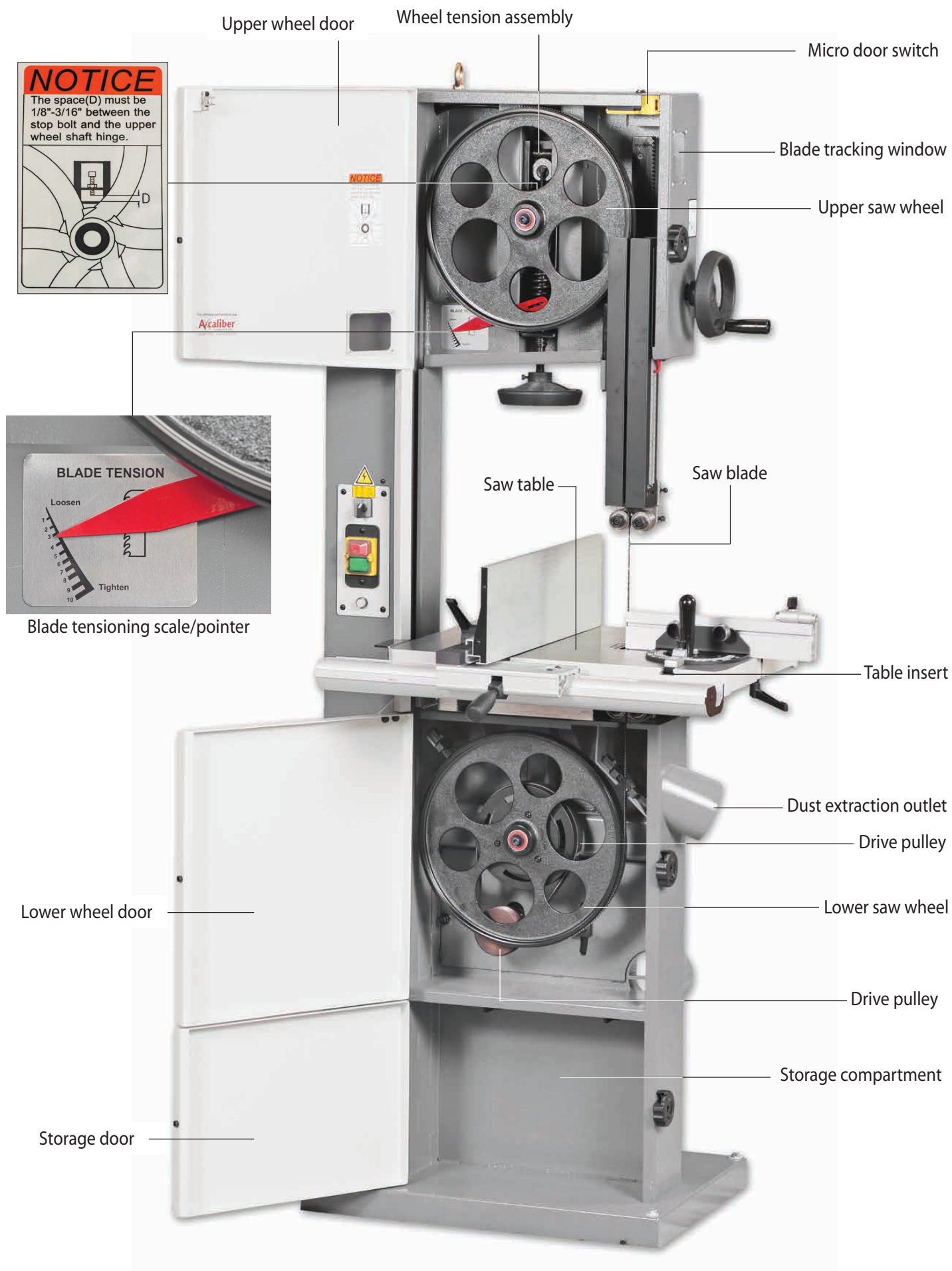


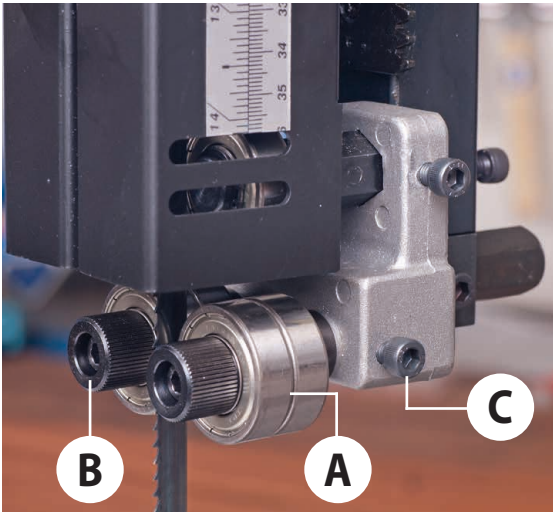
Fence clamp assembly (4), Mitre fence (12), Fence rail with scale (2), Fence (3)



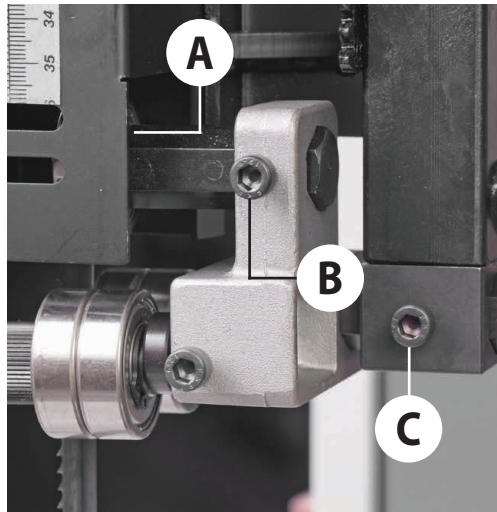
Scale magnifying glass

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)
Clamping screw (B)
Guide assembly clamping screw (C)

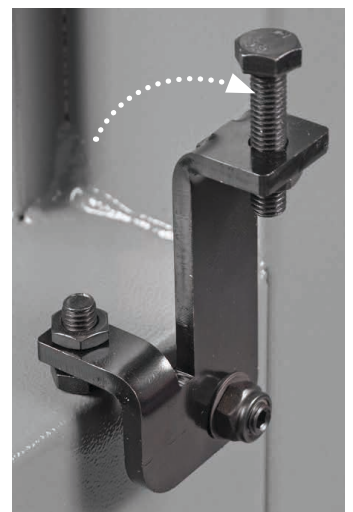
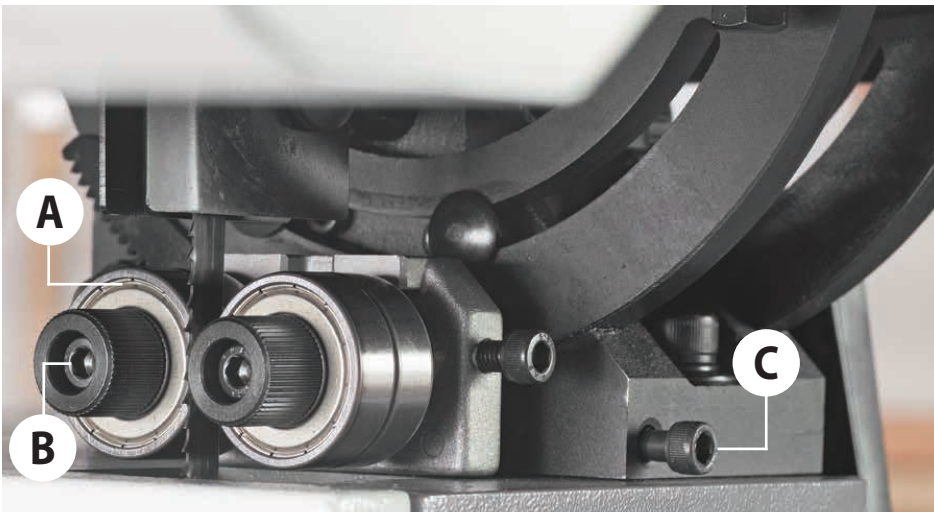


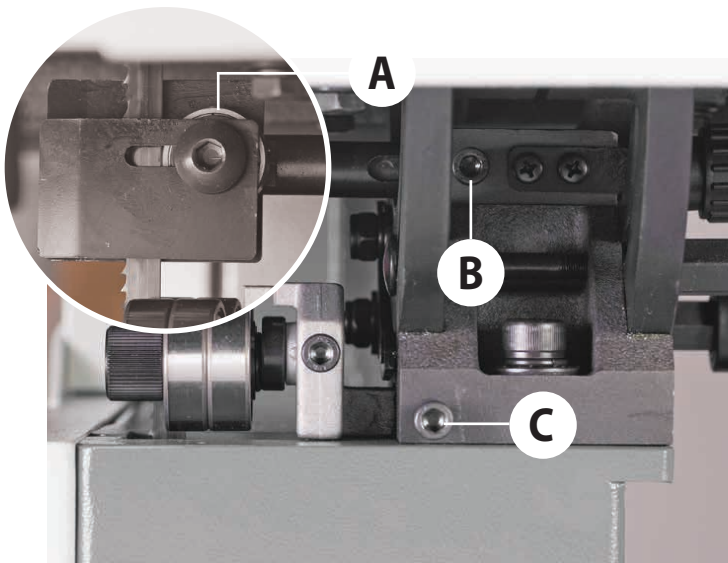
Table level angle bracket
with adjustable stop
bolt for 90°



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



Lower wheel blade brushes



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



Lower wheel brush

ILLUSTRATION AND PARTS DESCRIPTION

Upper blade guide clamp

Quick release
tensioning lever for
changing the blade

Tracking control knob

Tracking control lock

Blade tensioning wheel

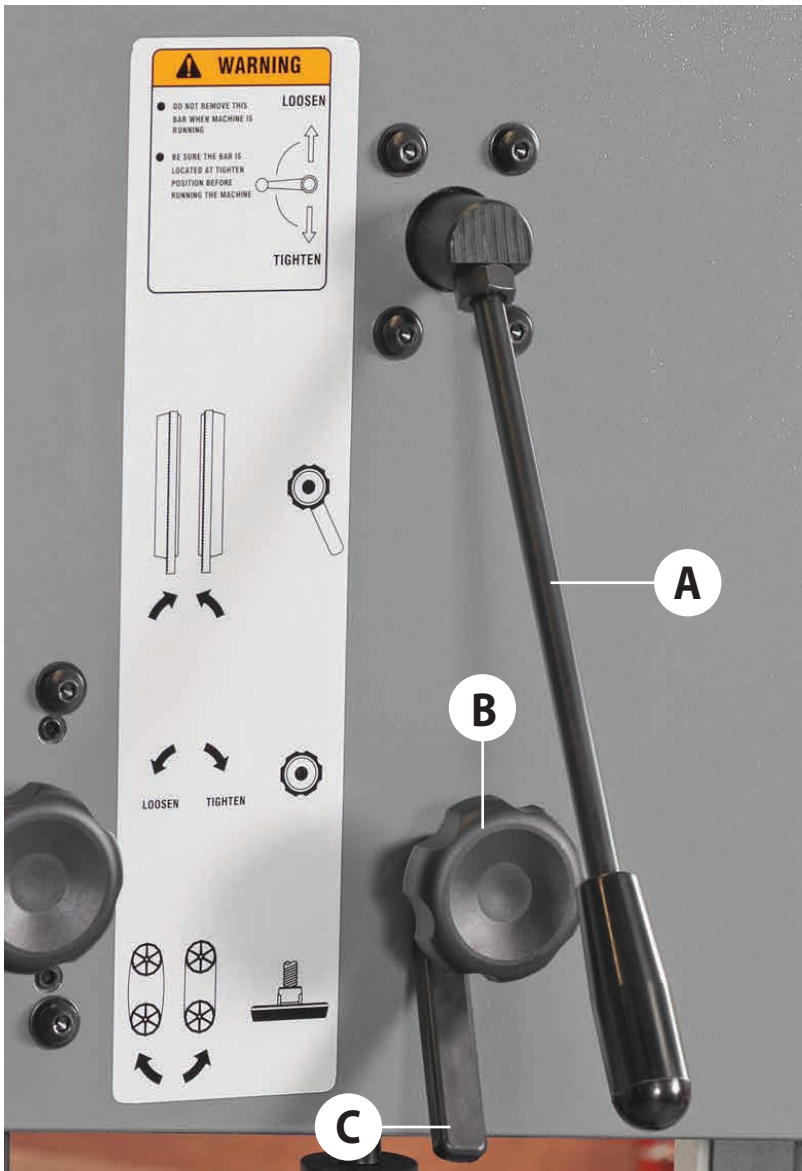
Tilt quadrant assembly

Dust extraction outlet

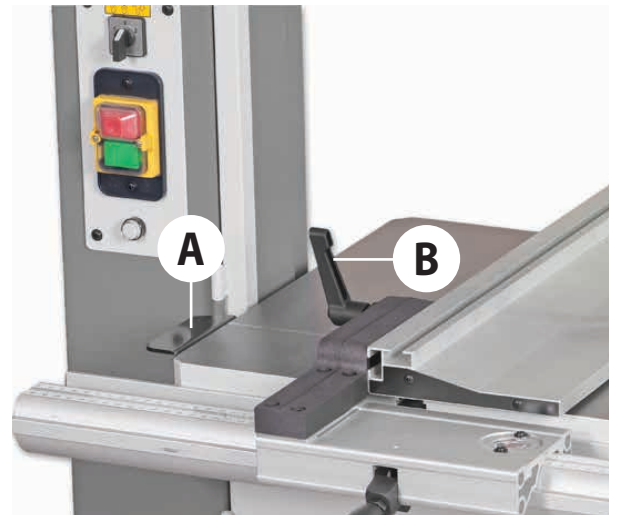
Table levelling
angle bracket
with adjustable
stop bolt

Motor





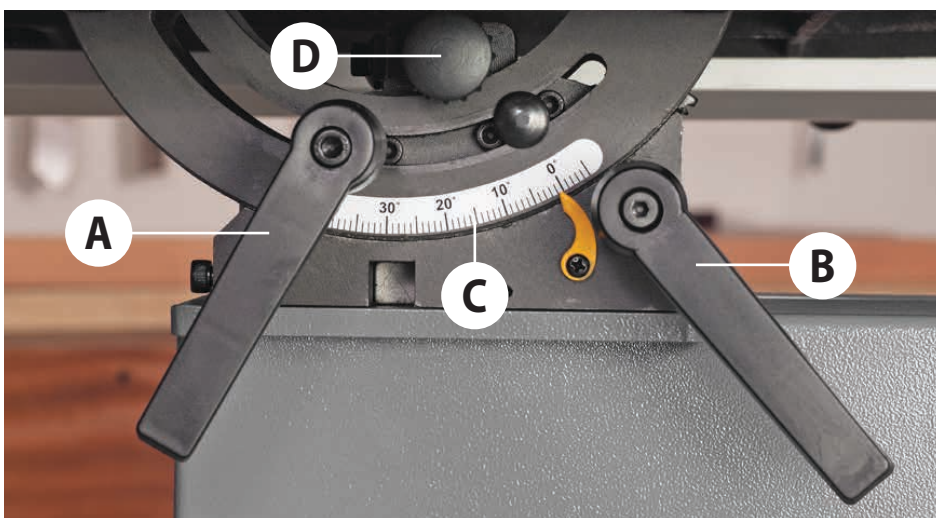
Quick release tensioning blade lever (A)
Tracking control knob (B), Locking handle (C)



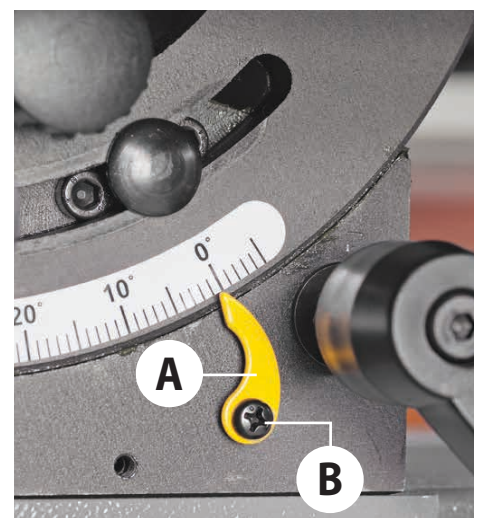
Fence assembly support bracket (A)
Fence lift & shift clamping handle (B)



Blade tensioning wheel



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



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

SETTING UP THE SAW



MAKE SURE THE SAW IS DISCONNECTED FROM THE MAINS SUPPLY!

Checking the Table is Square

Step 1 Loosen the clamping handle beneath the table, see fig 39. Lower the table by turning the tilt quadrant rack and pinion adjusting handle, until it's against the stop. This is an angle bracket to the rear of the cast iron table with an adjustable stop bolt and lock nut, see fig 15. The head of the bolt acts as a stop when it strikes the machine frame.

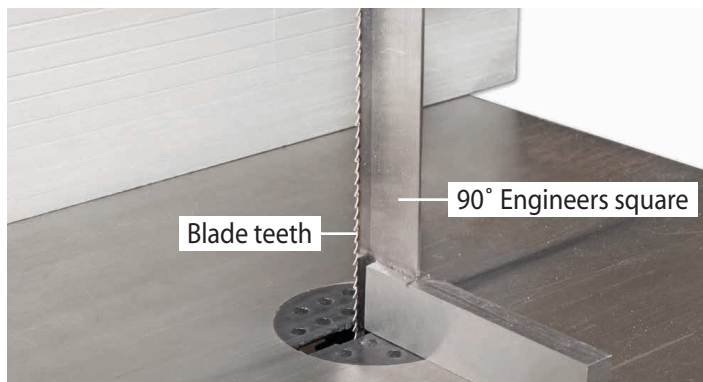
Fig 39

Tilt quadrant adjusting handle



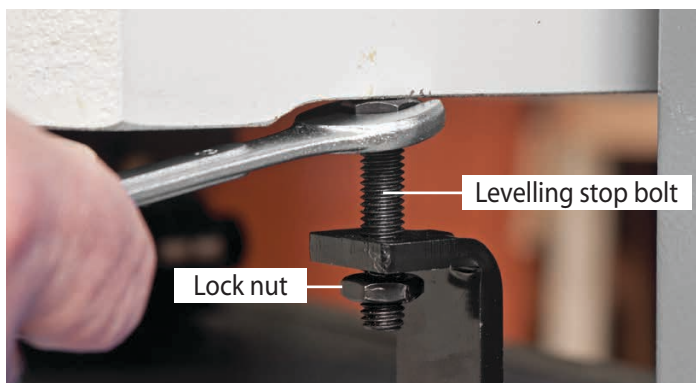
Step 2 Make sure the upper blade guide is raised as high as possible. Place a square on the table and move it up against the blade (behind the teeth), see fig 40.

Fig 40



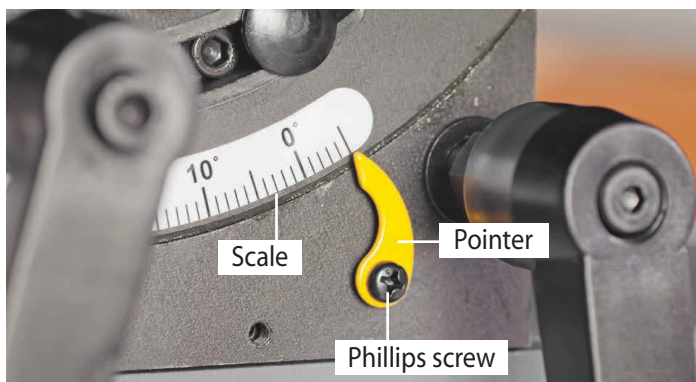
Step 3 Check that the blade is perpendicular to the table. If adjustment is required reset the levelling stop bolt to the rear of the cast iron table then tighten the lock nut. Check again. Once you are satisfied, tighten both tilt and table clamping handle, see fig 41-42-43.

Fig 41-42-43



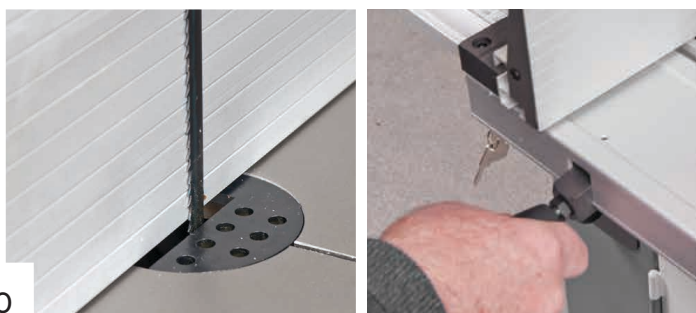
Step 4 Check that the pointer on the tilt quadrant scale reads zero, if not, loosen the Phillips screw that holds the pointer and adjust until correct. Re-tighten the screw and table clamping handle, see fig 44.

Fig 44



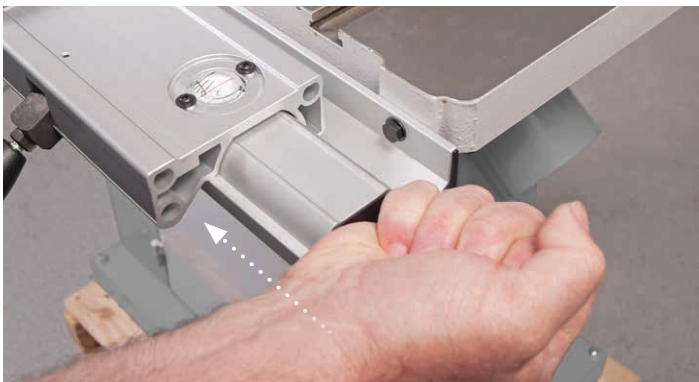
Step 5 Slide the fence assembly until it's up against the blade and press down the locking lever (5), see fig 45. Look at the 'RED' line on the magnifying glass to check it's set to '0' on the scale, see fig 46. If it's out of alignment, loosen the locking lever (5) and tap the side of the fence rail (2) until the scale reads '0' then re-secure the fence rail, see figs 47-48.

Fig 45-46-47-48





Magnifying scale set to '0'

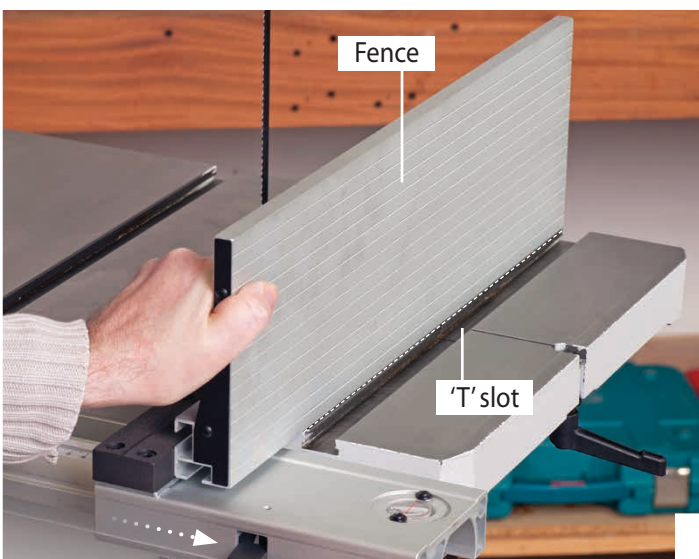


Setting the Fence

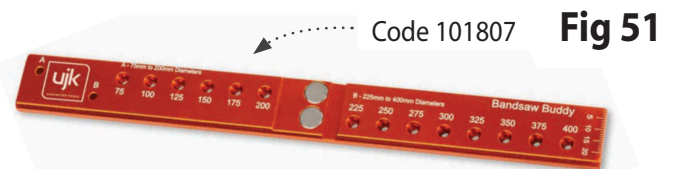
Step 1 To make sure the guide fence is at 90°, line up the guide fence with the edge of the table's 'T' slot, see fig 49. If you find that the fence is out of alignment follow the steps below:

1. Clamp down the fence by pushing the locking lever (5) down.
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 50.
3. Replace the fence assembly to its original position.

Fig 49-50

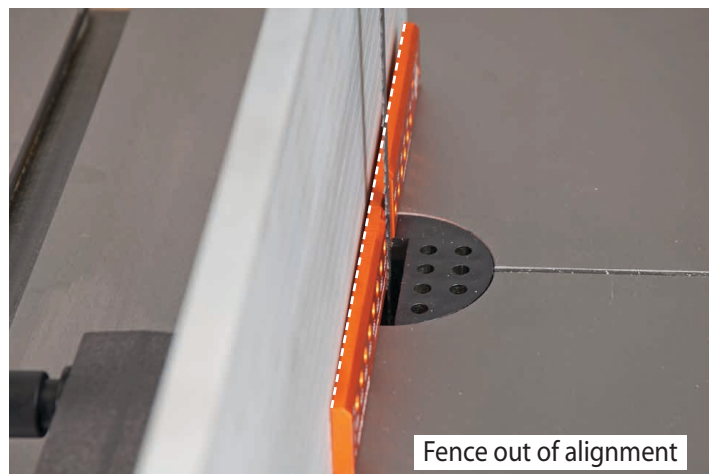


Step 2 To make sure the fence is perfectly square to the blade we recommend using our unique bandsaw blade aligning tool, called the Bandsaw Buddy, see our website for details. The Bandsaw Buddy allows you to check the alignment of the bandsaw blade to the face of the fence. Most other checks only require the use of a combination or engineer's square. Turning the fence to the blade is tricky. The Bandsaw Buddy has two rare earth magnets which hold it firmly on the blade, see fig 51.



Step 3 Place the Bandsaw Buddy on the blade as shown in fig 52. Move the fence up close to the alignment tool, lock in place check the fence face is aligned with the alignment tool, see fig 53. If adjustment is required loosen the four M8 bolts beneath the table and manoeuvre the table (1) until the blade is aligned. Tighten the M8 bolts to secure the table place, see fig 54-55.

Fig 52-53



SETTING UP THE SAW

Fig 54-55

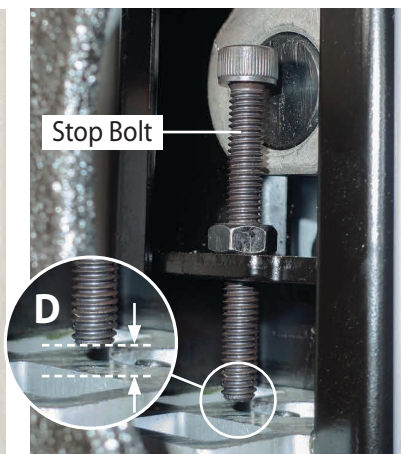
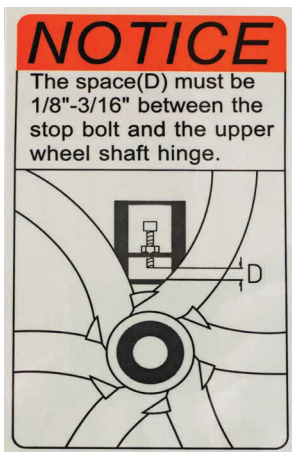


Step 4 Remove the bandsaw buddy if not done so already. Position the fence so it's just touching the blade, press down the clamping handle and check the 'RED' line in the magnifying glass is still reading 'zero' on the scale, adjust if required.

Tensioning and tracking the blade



NOTE: BEHIND THE UPPER WHEEL THERE IS AN ADJUSTABLE STOP BOLT. CHECK THE SPACE BETWEEN THE BOLT (D) AND THE HINGE PLATE. ADJUST UNTIL THE GAP IS BETWEEN 1/8" - 3/16" BEFORE ADJUSTING THE TENSIONING & TRACKING MECHANISM.



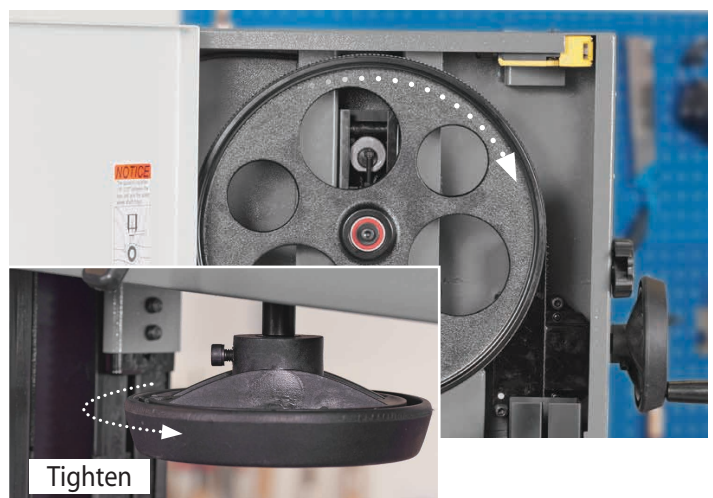
Make sure both top and bottom blade guides are well clear of the blade

Step 1 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 56-57.

Fig 56-57



Fig 58-59



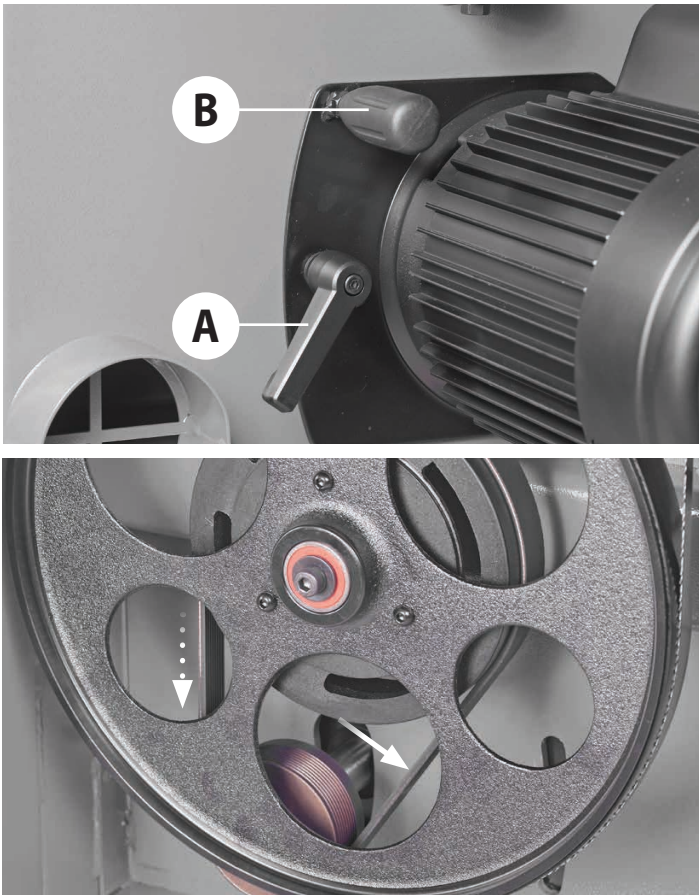
Step 2 Apply some tension to the blade by turning the tensioning wheel clockwise, spin the top wheel by hand and check that the blade remains centrally on the tyre, see fig 58-59.

Step 3 If it does not, adjust the tracking first by pushing down the tracking control locking handle then turn the tracking control knob at the rear of the head box, see fig 60. 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).

Fig 60



Fig 61-62



Step 4 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. 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 the tracking again, adjust if necessary.

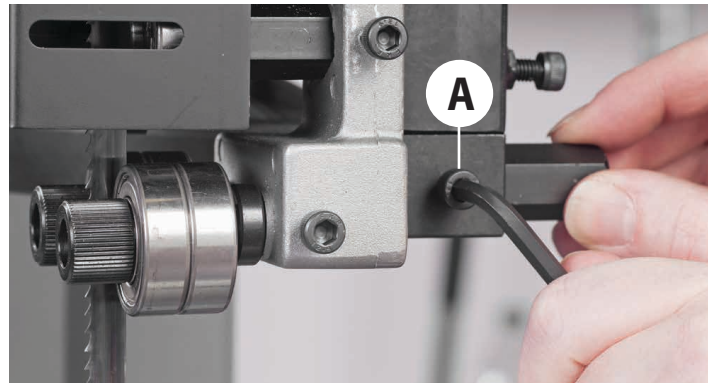
Step 5 Check that the drive belt is tensioned correctly. If the belt is slack, apply 'take up' pressure to the belt by loosening the motor locking handle (A) and pressing down the motor assembly handle (B) until the belt is under tension then re-tighten the handle to lock the motor in position, see fig 61-62.



CONNECT THE SAW TO THE MAINS SUPPLY!

Step 6 Clear all the tools away from the machine, close the upper and lower doors and connect the power supply. Move the 'Electro-magnetic motor brake selector switch' to the run position (2), stand clear and press the 'GREEN' button on the NVR switch to 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.

Fig 63



Step 7 If it doesn't, adjust the tracking until correct.

NOTE: Make very small adjustments and wait for the saw to react before you adjust again, sometimes the reaction is not instantaneous.

Step 8 Once you are satisfied that the tracking is correct press the 'RED' button on the NVR switch to turn the machine off, allow it to run to a complete stop.



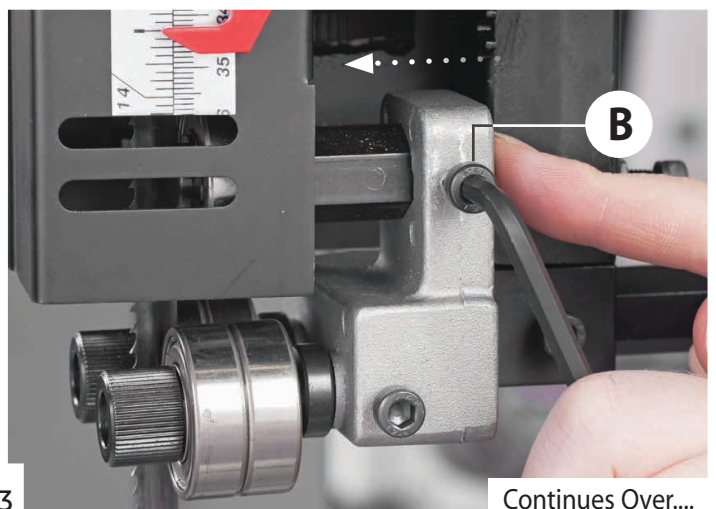
DISCONNECT THE SAW FROM THE MAINS SUPPLY!

Setting the Blade Guides (above table)

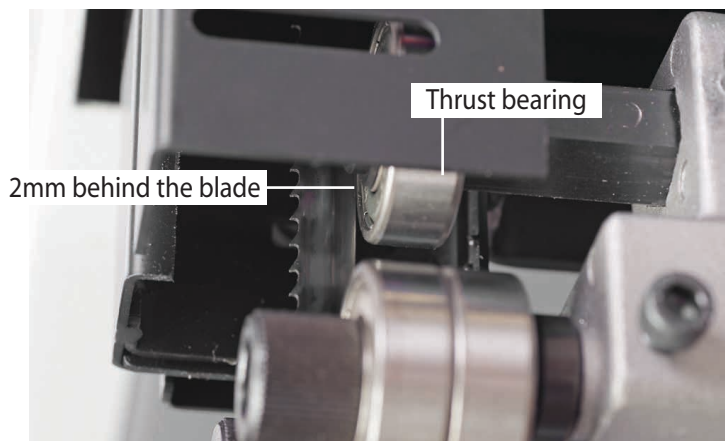
Step 1. Lower the upper blade guide to approximately 1 1/2" (38mm) above the table. Clamp in place. Loosen the Hex screw (A), holding the guide assembly in place and adjust the fore and aft position so that the leading edges of the side guide bearings are approximately 2mm behind the gullets of the saw blade. Re-tighten the Hex screw, see fig 63.

Step 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 64-65

Fig 64



SETTING UP THE SAW



Step 3 Loosen the Hex screw (C) holding one of the guide bearings and move to approximately 0.5mm from each side of the blade. **NOTE: A sheet of A4 photocopy paper is approximately 0.5mm thick.** Adjust the guide bearing by turning the adjusting knob (D), until the guide bearing is set to the correct thickness. Re-tighten the Hex screw (C), see fig 66-67.

Fig 66-67-68

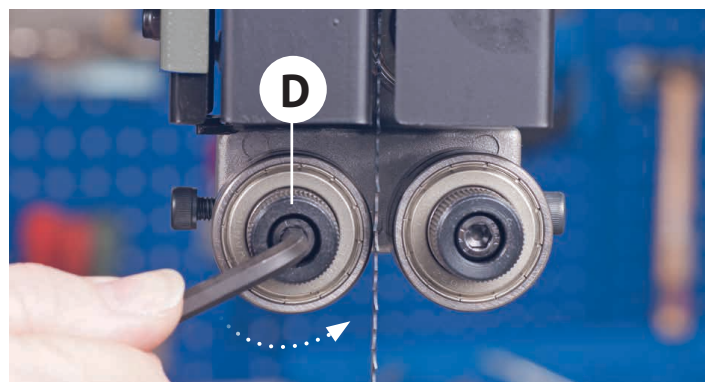
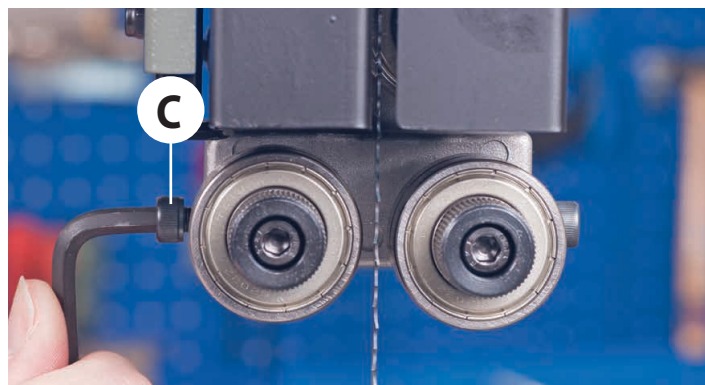
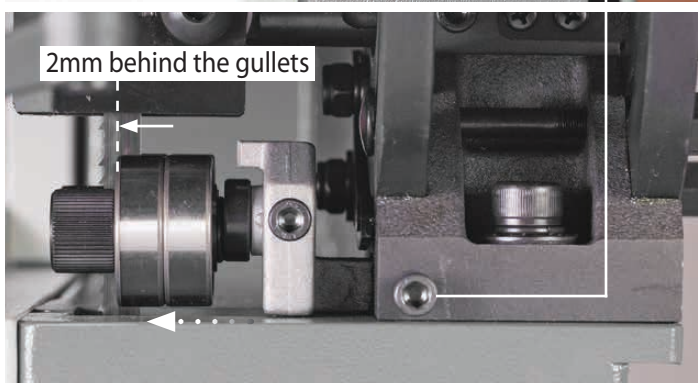
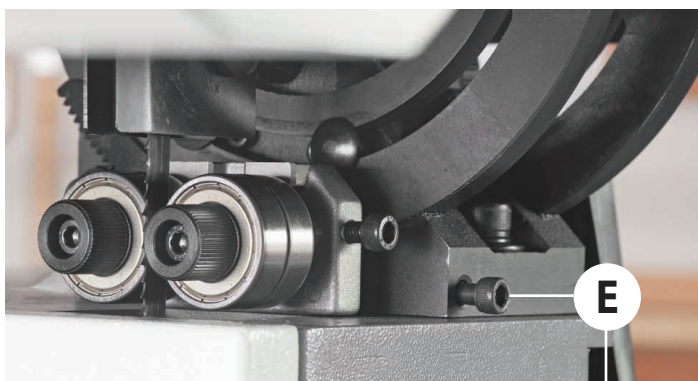


Fig 69-70



Step 4 Repeat the process for the other guide bearing, see fig 68. 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.

Setting the Blade Guides (below table)

Step 1 Beneath the table loosen the Hex screw (E) 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 (E), see fig 69-70.



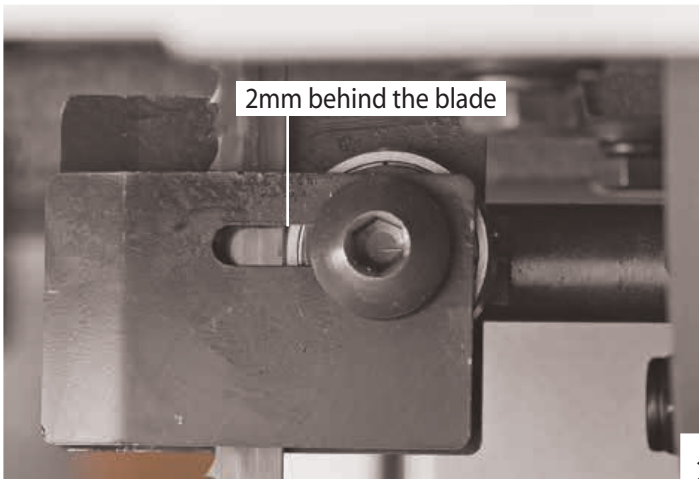
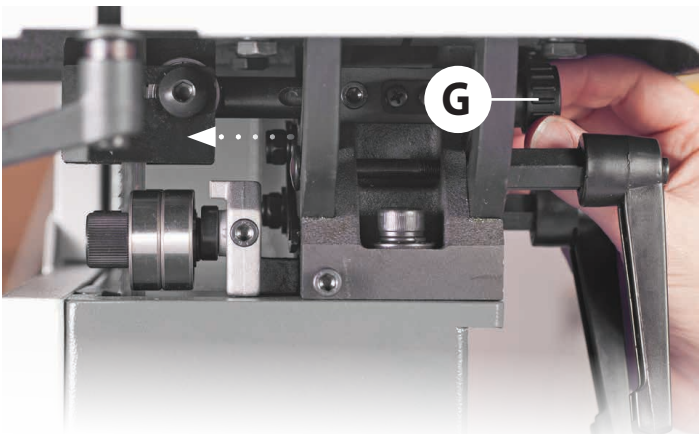
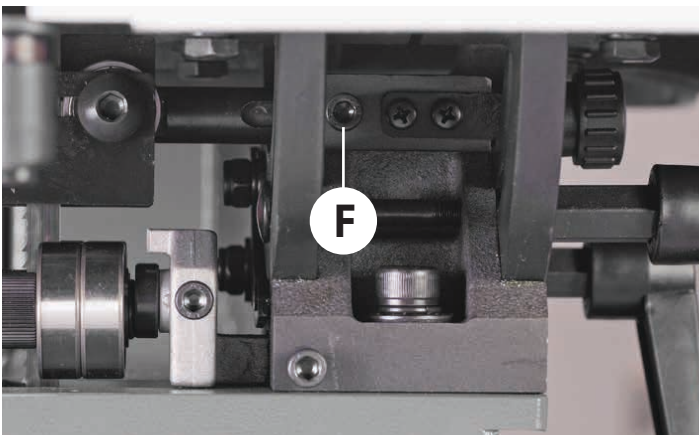
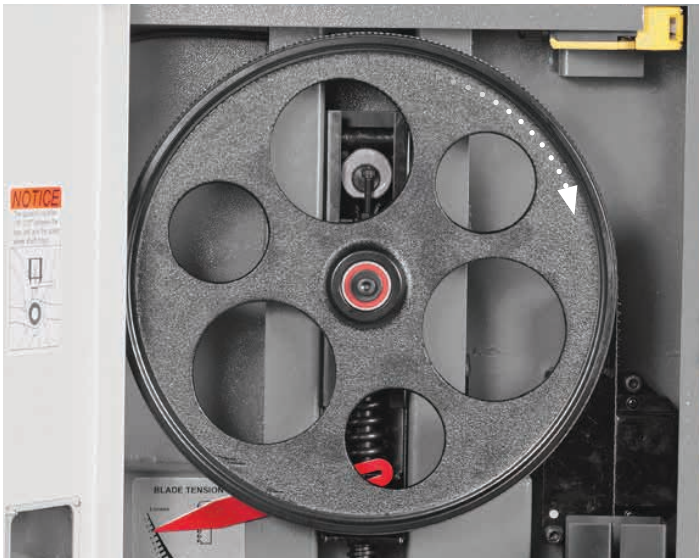
NOTE: THE GUIDE BEARING SHOULD ALWAYS BE SET BEHIND THE TEETH OF THE SAW.

Step 2 Rotate the top wheel by hand, at this point, see fig 71.

NOTE: None of the bearings should come into contact with the blade-only when in use.

Step 3 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 (F), see fig 72, turn the adjusting knob (G) to move the thrust bearing approximately 2mm behind the blade, see fig 73-74.

Fig 71-72-73-74



Step 4 Re-tighten the Hex screw (F), see fig 72. 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, close both upper and lower doors and clear away all tools around the machine.

Step 5 Re-connect the power, move the 'Electro-magnetic motor brake selector switch' to the run position (2), see fig 75 and press the 'GREEN' button to start the saw. Allow the bandsaw to run for several minutes, check that the blade is still tracking correctly, there is no excessive vibration, etc. After several minutes switch off and allow the blade to come to a complete stop.

Fig 75



DISCONNECT THE SAW FROM THE MAINS SUPPLY!

General Operating Instructions

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.

OPERATING INSTRUCTIONS

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).



HSE Health and Safety Executive

To operate the bandsaw correctly, it is recommended to visit the HSE (Health and Safety Executive) website at www.hse.gov.uk and read the information on the safe practices.



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

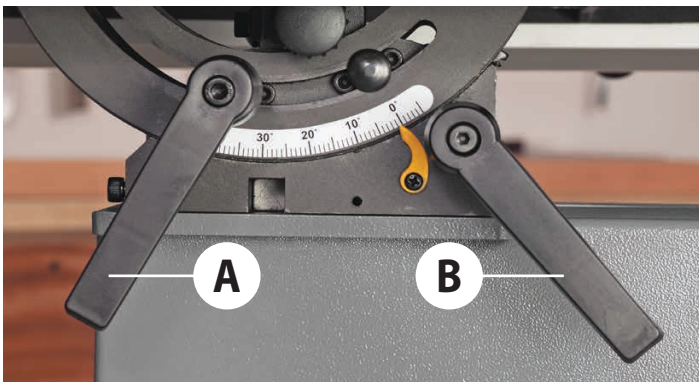
Setting the Table Angle



DISCONNECT THE SAW FROM THE MAINS SUPPLY!

The cast iron table (1) can be tilted 0-45° degrees. The tilt quadrant comprises a scale/pointer, clamping handle (A) to lock the table in set positions and a rack and pinion operating handle (B) to manoeuvre the table at set angles. The table can be tilted back -5° for cutting dovetails, see fig 76.

Fig 76



Step 1 To tilt the table loosen the clamping handle (A) and manoeuvre the lift and shift handle (B) back and forth to tilt the cast iron table (1) until you have reached the required angle. Tighten the clamping handle (A) to secure the table in position, see fig 77-78-79.

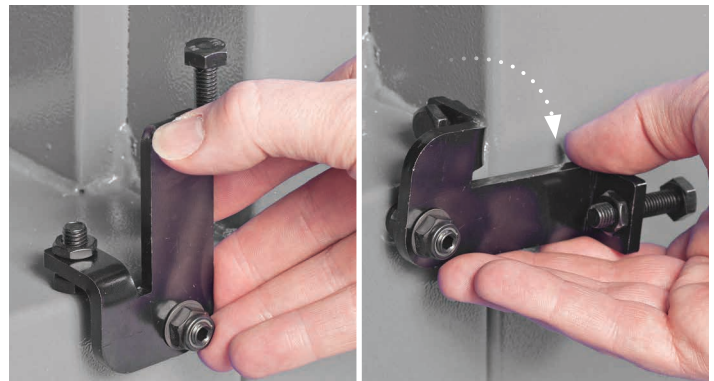
Fig 77-78-79



Cutting Dovetails

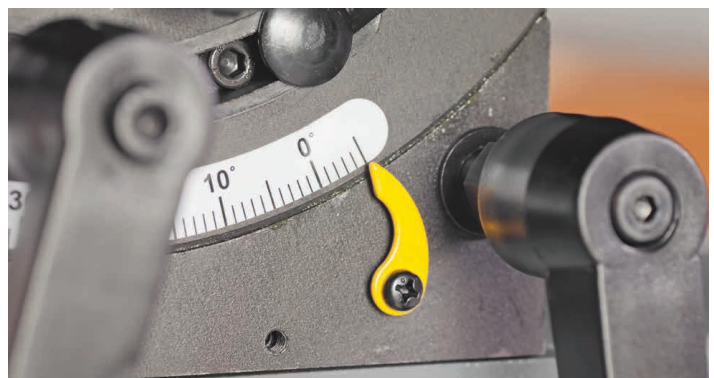
Step 2 Follow the instruction in 'Step 1' but first rotate the table's 90° angle bracket stop out of the way, see fig 80.

Fig 80



Step 3 Rotate the table back until the pointer reads -5° on the tilt quadrant scale. Re-tighten the locking handle (A) to secure the table, see fig 81-82.

Fig 81-82



ELECTRO-MAGNETIC MOTOR BRAKE SWITCH

The electro-magnetic brake switch is located above the NVR switch assembly and has three positions, see fig 83.

- 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 84.
- Position **(1)** releases the motor brake allowing the blade to turn freely for changing and for tracking purposes, see fig 85.
- Position **(2)** is for running the machine. Move the selector switch to this position the power indicator will illuminate then press the 'Green' button on the NVR switch to start the bandsaw, see fig 86.

Fig 83

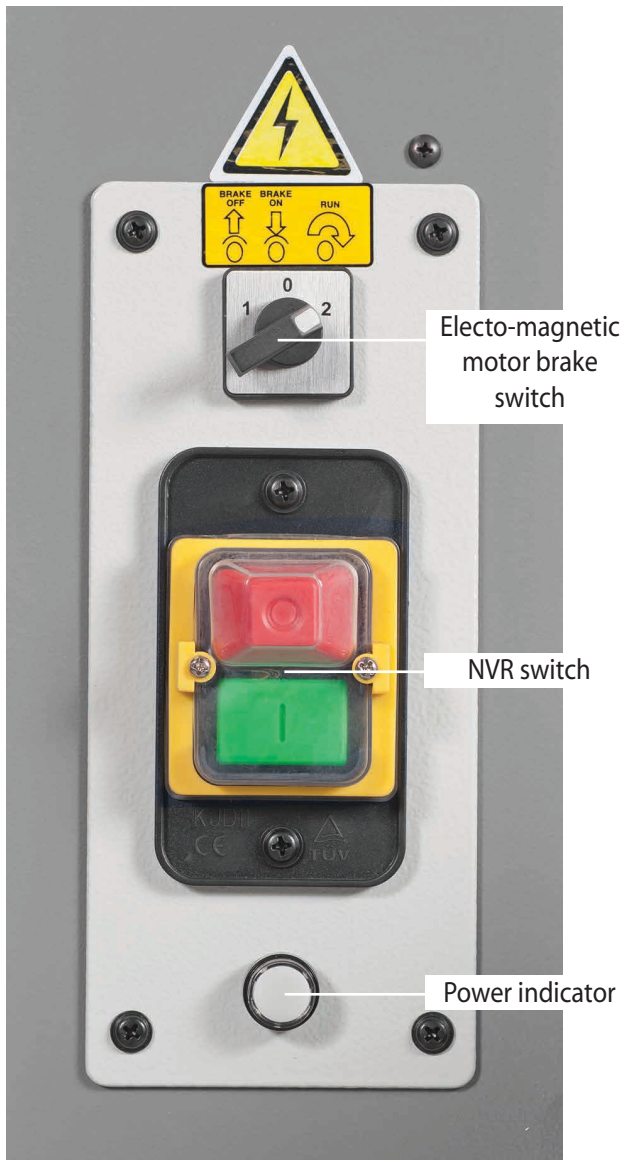


Fig 84

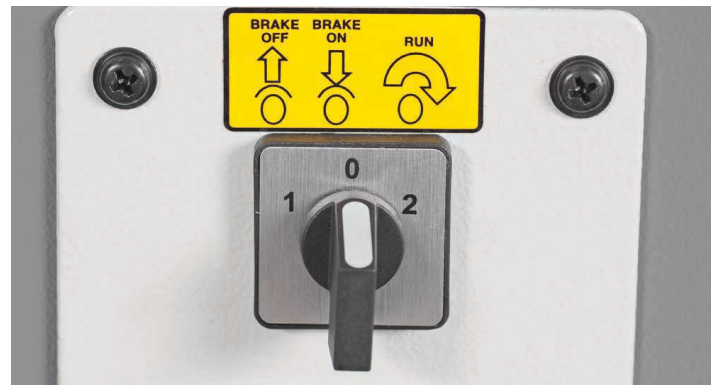


Fig 85



Fig 86



The compact mitre fence head features positive stops at 0°, 22.5°, 30°, 45°, 60°, 67.5° and 90°, both left and right. This gives you 13 preset common angles in total. The clear easily read scale allows you to set the head to any intermediate angle. To select an angle you simply loosen the clamp handle and lift the indent plunger. Move the fence along until the plunger seats itself in the indent corresponding to the angle required. Re-tighten the angle clamp knob and carry on with the job.

The bar is 320mm long with a removable locking washer making it usable with any standard 19 x 9.5mm (3/4" x 3/8") track or similar sized T-slot. Three sprung loaded ball bearings keep the bar snug in the track; the fence runs true without side-play.

The rugged 300mm long, 60mm high aluminium fence comes complete with flip-up length stop.



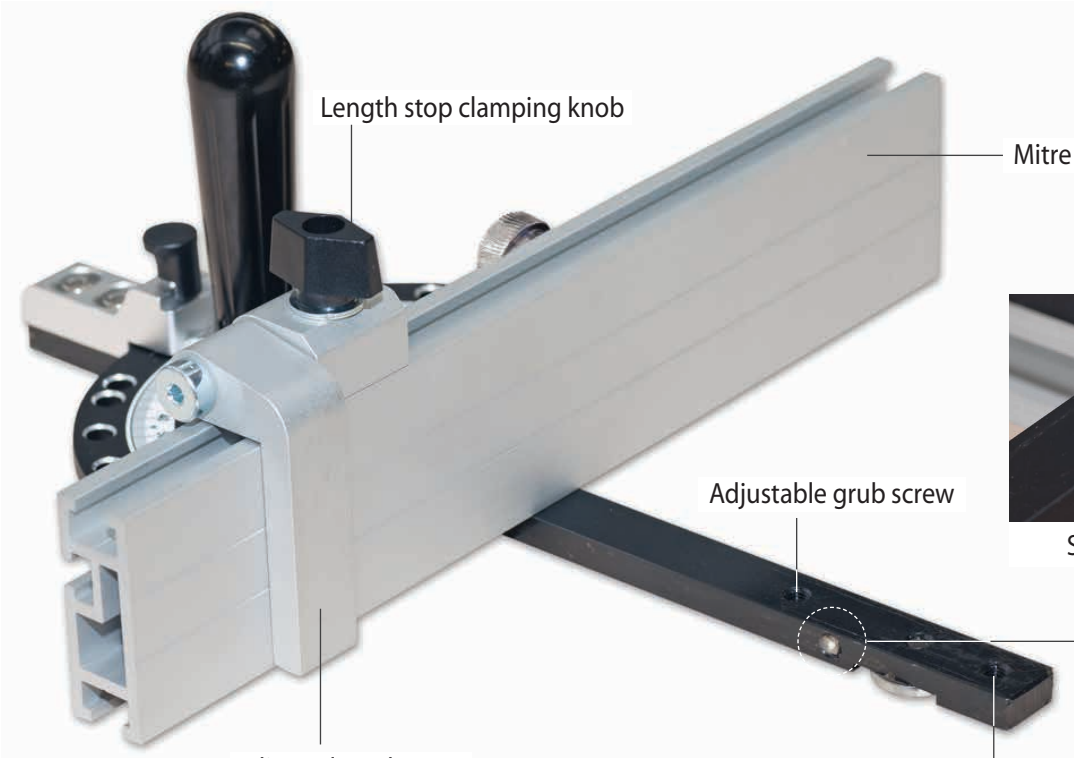
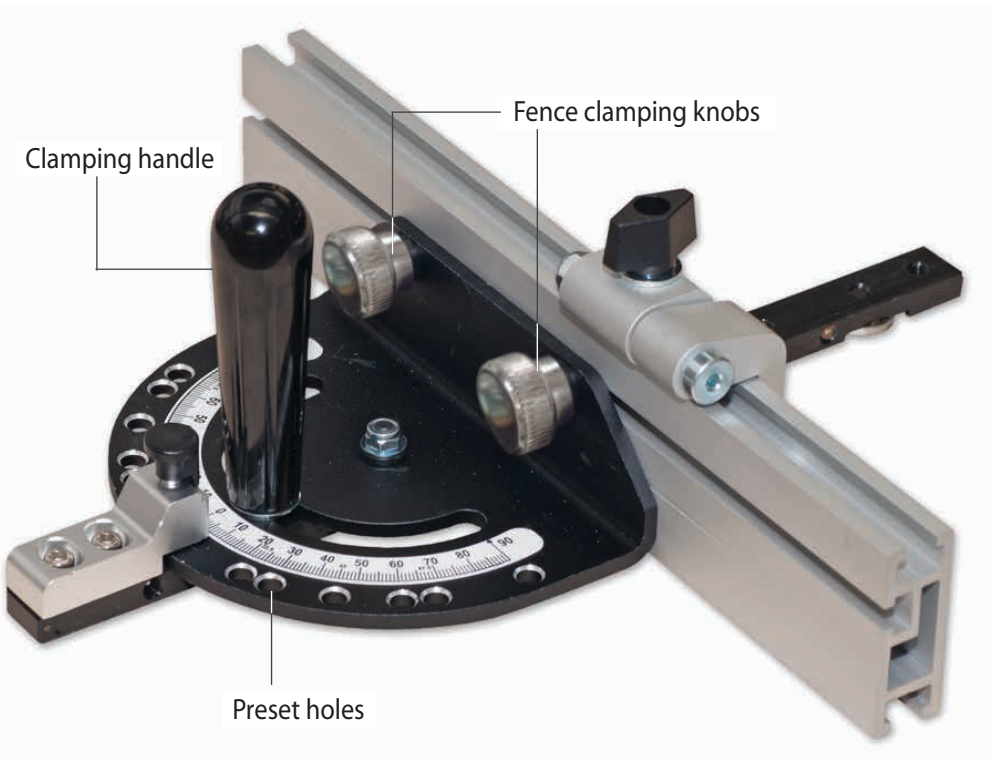
Indent plunger locked down



Indent plunger Unlocked



Mitre gauge pointer



Sprung loaded ball bearing

Flip-up length stop

Adjustable grub screw

CHANGING THE SAW BLADE

Step 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 wheel doors, remove the mitre fence assembly and remove the table insert, see figs 87.

Fig 87



Step 2 Remove the table alignment pin handle (13), release the blade tension by pulling the quick release lever towards you, see fig 88-89, the blade can be easily slipped off the wheels. Remove the blade carefully, 'wiggling' it clear of the upper and lower blade guards and out through the slot in the table, see fig 90.

Fig 88-89

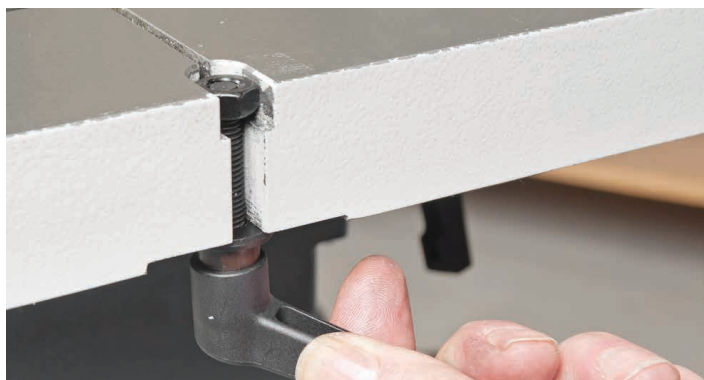


Fig 90



WARNING! BE VERY CAUTIOUS WHEN YOU 'UNFOLD' THE BLADE; IT TENDS TO 'SPRINGS' OPEN, THAT COULD CATCH YOU UNAWARES!

Fig 91



Step 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 91-92-93.

Step 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 94-95. 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.



MAKE SURE THE BLADE TEETH ARE POINTING DOWN!

Step 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.

Step 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.

Fig 92-93

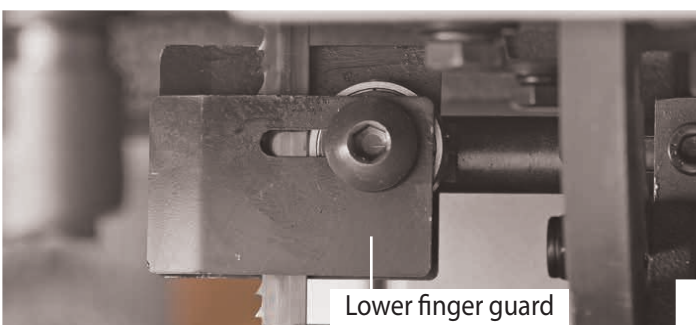
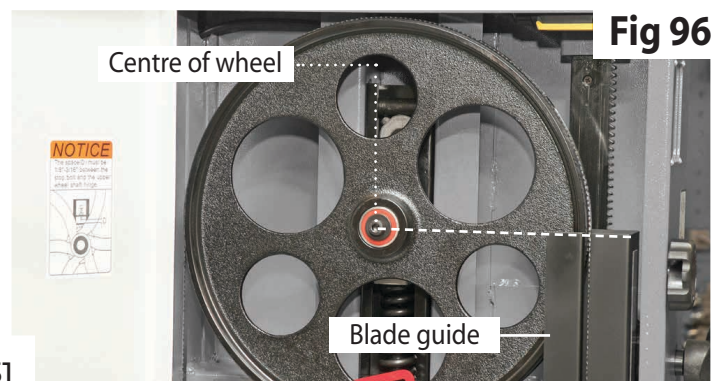


Fig 94-95



Step 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 96. Re-tighten the clamp. Now carry out the procedures as detailed in Setting Up The Saw.





DISCONNECT THE SAW FROM THE MAINS SUPPLY!

Daily

- Keep the machine clean.
- Check the saw blade for missing teeth and cracks, see fig 97.
- Spray Axcaliber Dry lubricant on the bare metal surfaces.

Fig 97



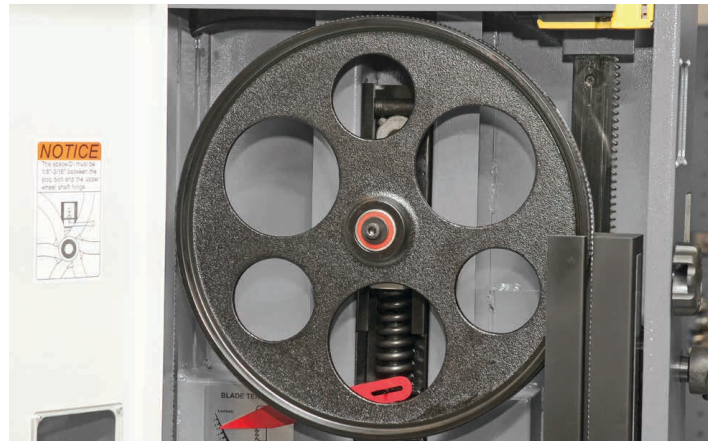
Weekly

- Open the top and bottom wheel covers and clean out all saw dust and impacted 'crud' from the wheels and compartment area, see 98-99-100.
- Check the condition of the upper/lower blade guides and thrust bearings and clean any impacted 'crud' from the bearings using a soft brush, eg. paint brush then spray dry lubricant, (Axcaliber Dy Lubricant) on the bearings to prevent resin build up, see fig 101-102.

Fig 98

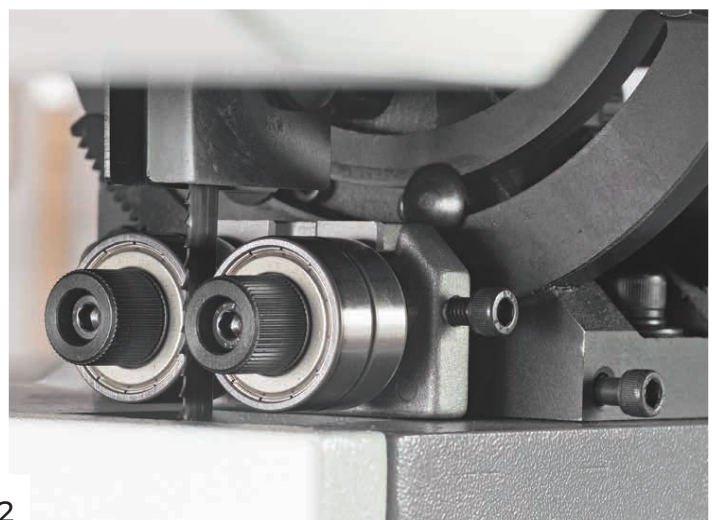


Fig 99-100



Clean out impacted 'crud' and saw dust

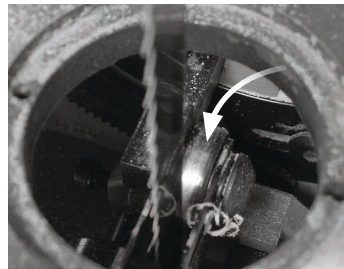
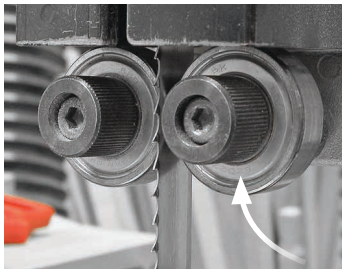
Fig 101-102



Monthly

- Open the lower and upper door and check the condition of the tyres and the drive belt. Clean out all saw dust and impacted 'crud' from the wheels and compartment area.
- Apply a little oil to the screw threads of the blade and drive belt tensioners. **DO NOT TO GET ANY OIL ON THE TYRES AND DRIVE BELT.**
- Check the condition of the tyres (A)
- Check the blade for missing teeth and cracks (B)

- Check the condition of the upper/lower blade guides and thrust bearings and clean any impacted 'crud' from the bearings using a soft brush, eg. paint brush then spray dry lubricant, (Axcaliber Dy Lubricant) on the bearing to prevent resin build up.



NOTE: The guide and thrust bearing should turn freely when the bandsaw is in use. If the bearings are stiff, clean them as mentioned above. If this still does not rectify the problem the bearings are worn and will need to be replaced.

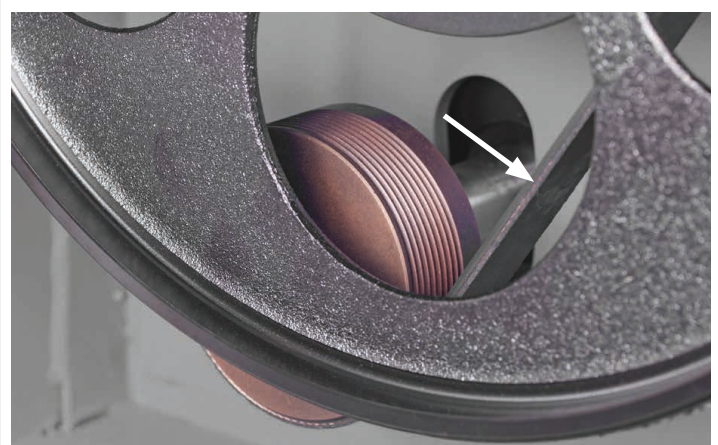
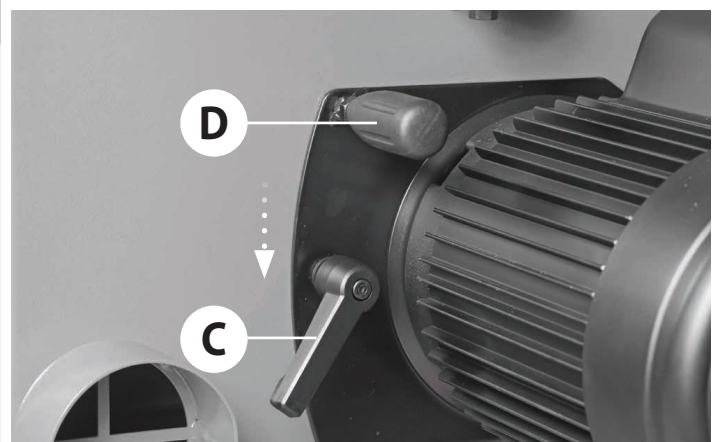
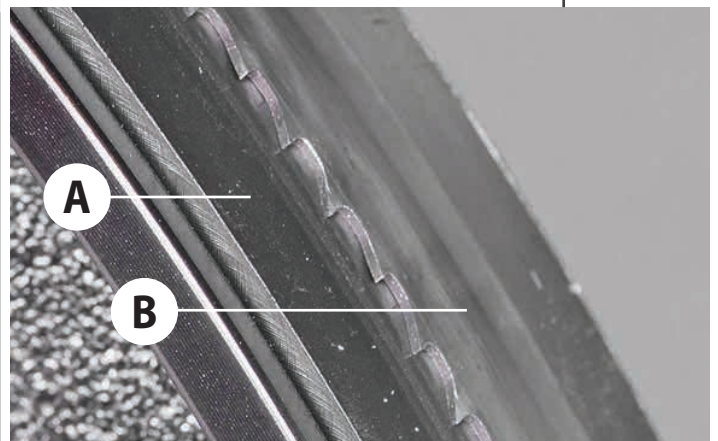
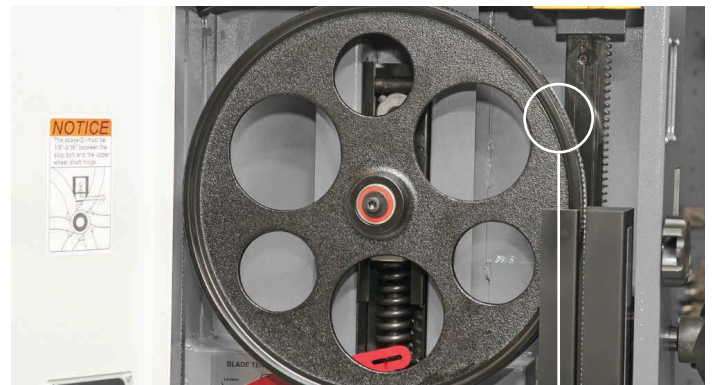
- The pivots and the slides of the top wheel mounting assembly, captive stub axle of the belt tensioner could likewise be lightly oiled.
- Over time the drive belt can slacken, if adjustment is required loosen the motor locking handle (C) and press down the motor assembly handle (D) until the belt is under tension. Re-tighten the locking handle to secure the motor in position, see fig 105-106.
- Using an 'M Class' Vacuum cleaner, clean the motor vents and casing.



- Formulated to minimise wear and reduce corrosion
- Dry PTFE based lubricating film 400ml
- Unaffected by water, oil or solvents
Will not attract dust

Code: 503468

Fig 103-104-105-106



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")

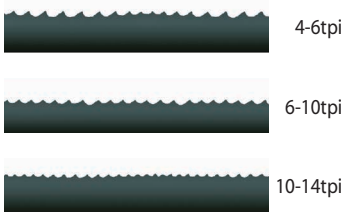
Blade Length

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.



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 axminstertools.com



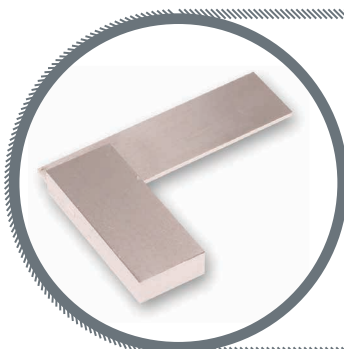
Axminster Machine Maintenance Kit



Lubricants and maintenance tools



Bandsaw Blades



Squares



Cyclone Extractors



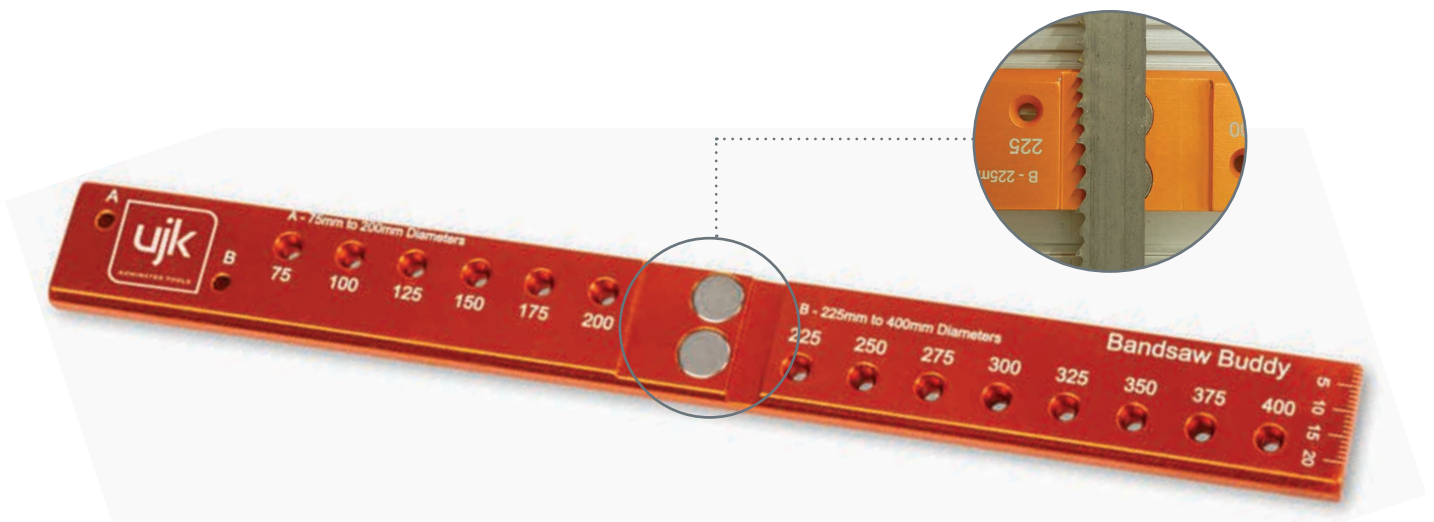
Code: 101807

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.

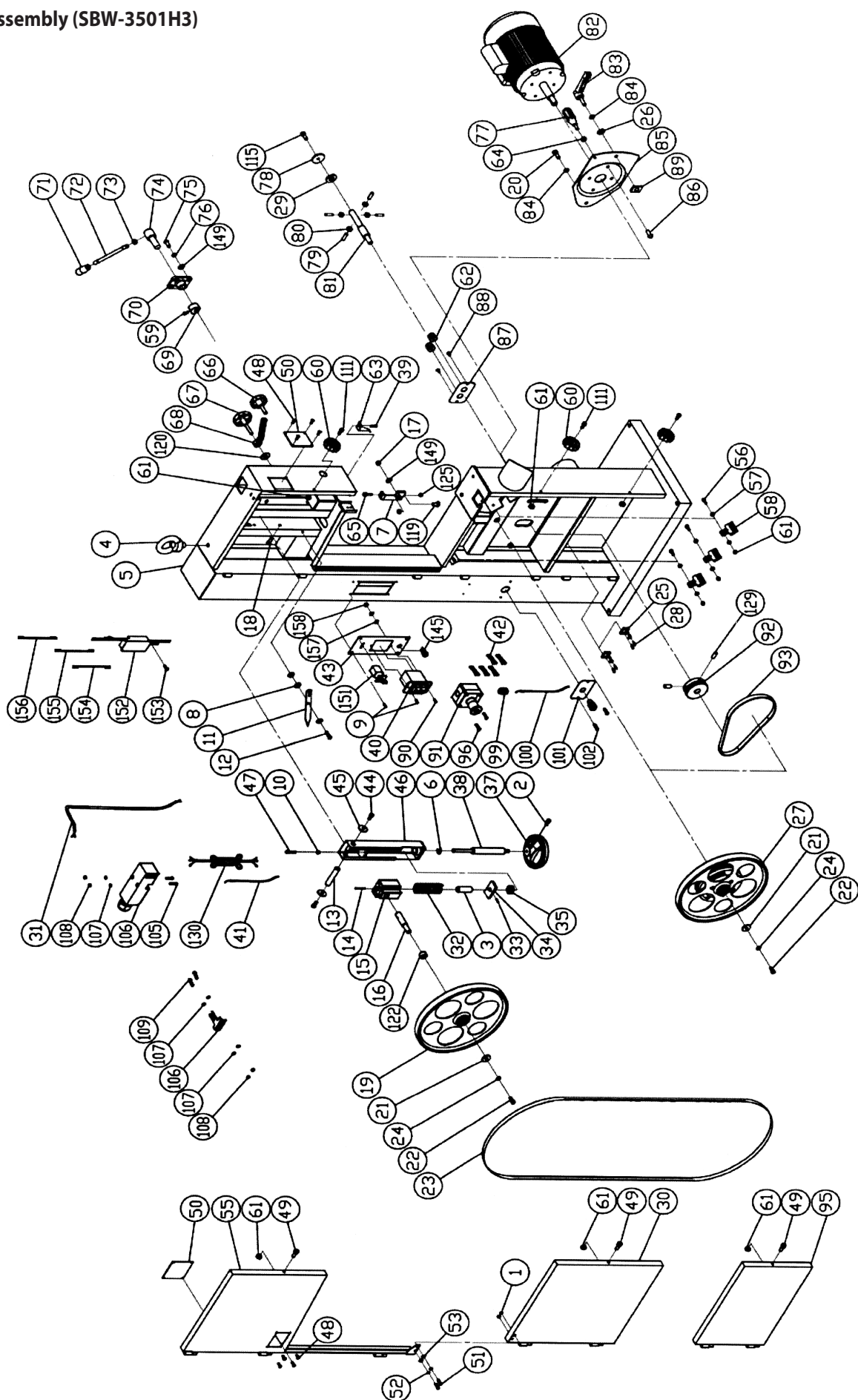


Keep your buddy on hand

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

EXPLODED DIAGRAMS/LISTS

Main Saw Assembly (SBW-3501H3)

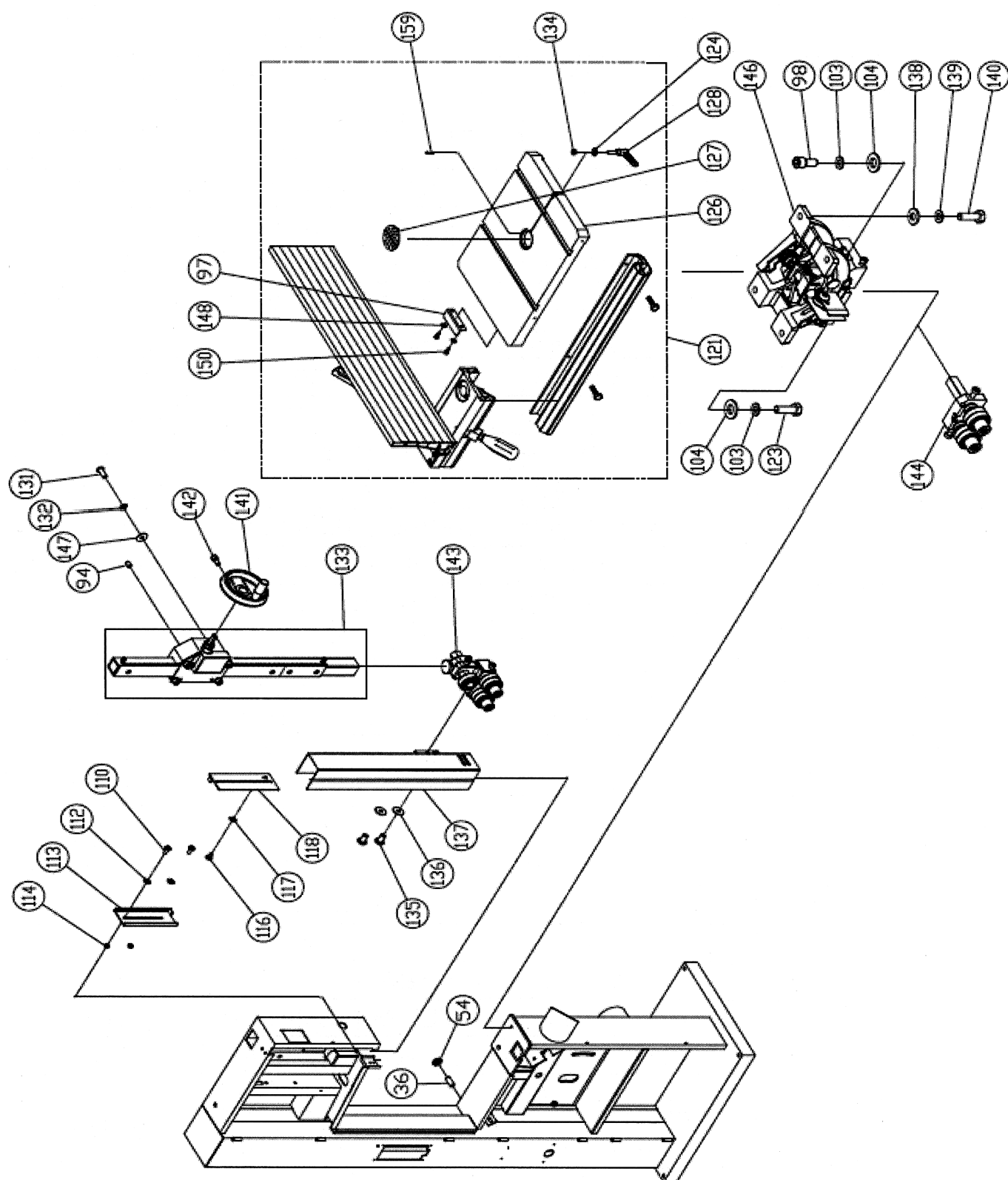


ITEM	PART NO	PARTS DESCRIPTION	SIZE	QTY
1	NF050800	NUT	M5	2
2	SR060400	HEX SOCKET BOLT	M6x20	1
3	135067	BUSHING		1
4	995101	RING	M10	1
5	130485	MACHINE BODY		1
6	RE150000	RETAINING RING(E)	E15	1
7	135529	TABLE SUPPORT PLATE		1
8	WF061310	FLAT WASHER	M6x13	3
9	SF059200	PAN HEAD BOLT/ FLANGE	M5x8	4
10	NH061000	NUT	M6	1
11	130378	POINTER		1
12	135073	STEP SCREW	M4x5	1
13	135012	UPPER SHAFT		1
14	PS053600	SPRING PIN	5x36	1
15	135017	UPPER WHEEL SHAFT HINGE		1
16	130458	UPPER WHEEL SHAFT		1
17	NL081300	NYLON NUT	M8	1
18	SR069300	HEX SOCKET BOLT	M6x12	1
19	AB130466	UPPER WHEEL	14"	1
20	SR100700	HEX HEAD BOLT	M10x35	1
21	WF082320	FLAT WASHER	M8x23	2
22	SR089400	HEX SOCKET BOLT	M8x16	2
23	130479	SAW BLADE	3/8"x3079mmx0.65mm	1
24	WS080000	SPRING WASHER	M8	2
25	170736	SAW HOOK		2
26	WF102030	FLAT WASHER	M 10x20	1
27	AB130463	LOWER WHEEL	14"	1
28	SP049200	PAN HEAD BOLT	M4x8	4
29	130462	PLATE		1
30	130472	LOWER COVER		1
31	IC130363	SWITCH CORD	VDE0.75x2Cx1.3M	1
32	135032	SPRING		1
33	PS031600	PIN	3x16	1
34	135042	LOCATE BLOCK		1
35	994301	BEARING	51201	1
36	SS080600	SET SCREW	M8x30	1
37	135002	HANDLE WHEEL		1
38	130476	ADJUSTING BOLT		1
39	SF059200	PAN HEAD BOLT W/ FLANGE	M5x8	1
40	170245B	CE SWITCH	KJD-11-10D(JD3)	1
41	IM130485	MOTOR CORD	1.25x5Cx1.2M	1
42	136019	WIRE CONNECTOR	224-201	5
43	130486	SWITCH PLATE		1
44	SR089400	HEX SOCKET BOLT	M8x16	2
45	WF083030	FLAT WASHER	M8x30	2
46	135016	UPPER WHEEL SLIDING BRACKET		1
47	SR061000	HEX SOCKET BOLT	M6x50	1
48	BR000044	RIVET	3.2x10	8

49	SR060200	HEX SOCKET BOLT	M6x10	3
50	135004	LIMPID PIECE		2
51	SJ059400	HEX SOCKET BOTTOM HEAR SCREW	M6x10	2
52	WS050000	SPRING WASHER	M5	2
53	WF051210	FLAT WASHER	M5x12	2
54	NL081300	NYLON NUT	M8	1
55	130471	UPPER WHEEL COVER		1
56	SH060500	HEX HEAD BOLT	M6x25	3
57	WF061310	FLAT WASHER	M6x13	6
58	135051	BRUSH		3
59	SR060500	HEX SOCKET BOLT	M6x25	1
60	135041	KNOB		3
61	NL061000	NYLON NUT	M6	9
62	136013	STRAIN RELIEF	PG13.5	2
63	135567	HEIGHT POINTER		1
64	NH081300	NUT	M8	1
65	SH080700	HEX HEAD LOLT	M8x35	1
66	135022	KNOB SCREW	M10x20	1
67	135020	KNOB SCREW	M10x53	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	198013	HANDLE	M8	1
78	130377	PLATE		1
79	SS080400	SET SCREW	M8x20	4
80	NH081300	NUT	M8	4
81	130460	LOWER WHEEL SHAFT		1
82	ABMH130485	MOTOR	1.5KW/240V/50Hz/1-	1
83	200426	HANDLE		1
84	WS100000	SPRING WASHER	M10	2
85	135112	MOTOR FIXED PLATE		1
86	SJ080400	HEX SOCKET BOTTOM HEAD SCREW	M8x20	4
87	135081	PLATE		1
88	ST049210	TAPPING SCREW	M4x8(B)	2
89	135065	LOCATE BLOCK		1
90	SF059400	PAN HEAD BOLT W/ FLANGE	M5x16	1
91	135109	EMERGENCY SWITCH		1
92	130355	MOTOR PULLEY		1
93	LJ029090	MULTI-GROOVE BELT	290J9	1
94	SS089100	SET SCREW	M8x6	4
95	130453	TOOL BOX COVER		1
96	SP049300	PAN HEAD BOLT	M4x12	2
97	130469	EXTEND PLATE		1
98	SR100700	HEX SOCKET BOLT	M10x35	1

EXPLODED DIAGRAMS/LISTS

Main Saw Assembly (SBW-3501H3)

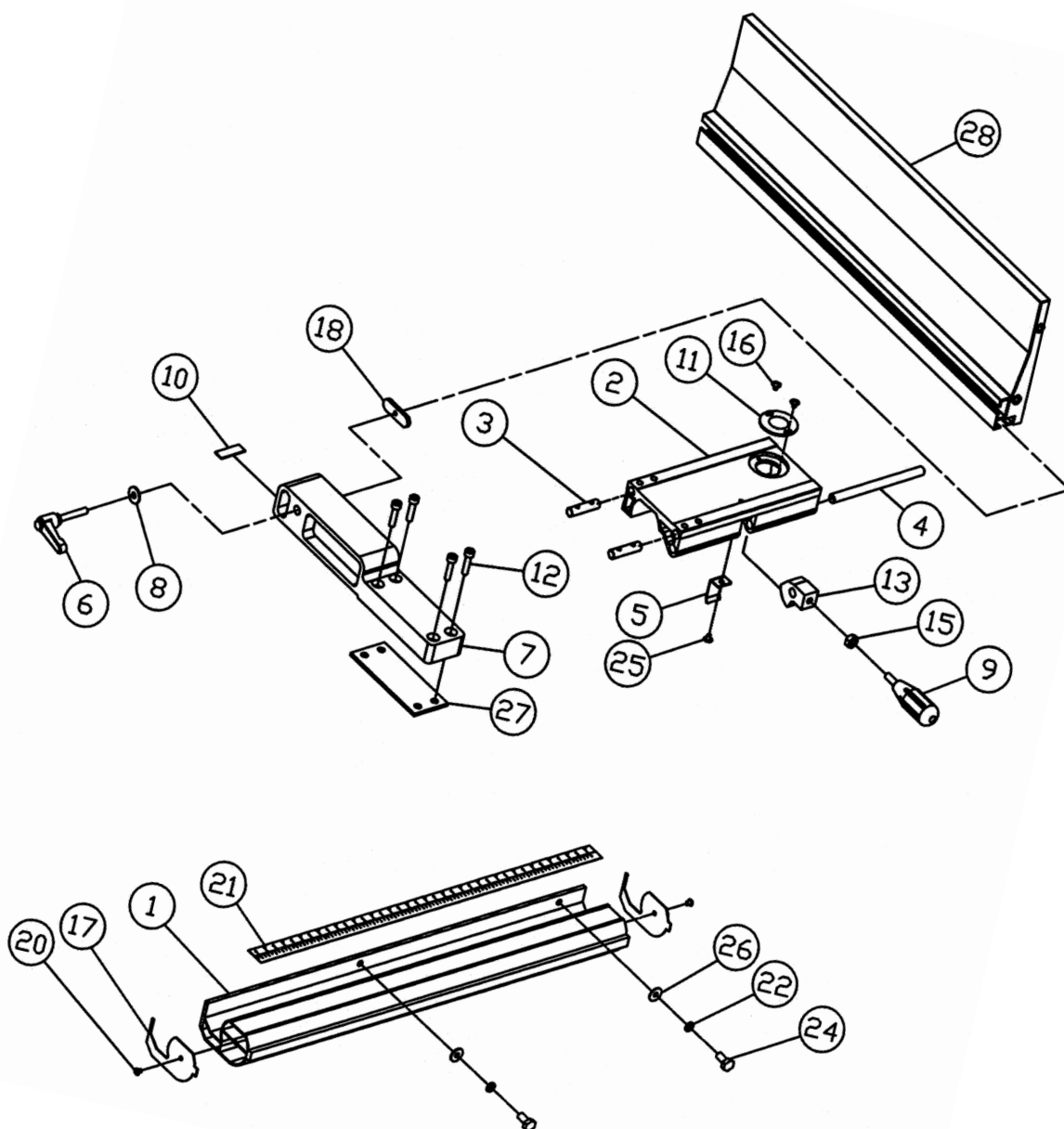


99	709412	STRAIN RELIEF	PG11	2
100	IC130486	EMERGENCY SWITCH CORD	VDE0.75x2Cx1M	1
101	136475	PLATE		1
102	ST049200	TAPPING SCREW	M4x8	2
103	WS100000	SPRING WASHER	M10	2
104	WF102320	FLAT WASHER	M10x23	2
105	SF040700	PAN HEAD BOLT W/ FLANGE	M4x35	2
106	130266	DOOR LATCH SWITCH(ASM)	AZD-S11	1
107	WF040808	FLAT WASHER	M4x8	6
108	NH040700	NUT	M4	4
109	SP040200	PAN HEAD SCREW	M4x8	2
110	SF050200	PAN HEAD BOLT W/ FLANGE	M5x10	2
111	SR060400	HEX SOCKET BOLT	M6x20	3
112	135054	PLASTIC WASHER	13T=1.5	2
113	130478	PROTECT COVER		1
114	NL050800	NYLON LOCK HEX NUT	M5	2
115	SR089400	HEX SOCKET BOLT	M8x16	1
116	135073	STEP SCREW		1
117	135054	PLASTIC WASHER	13T=1.5	1
118	130477	SLIDING PLATE		1
119	SH089300	HEX HEAD BOLT	M8x12	1
120	WF102320	FLAT WASHER	M10x23	1
121	QF130455A	FENCE SET (ASM)		1
122	130467	BUSHING		1
123	SH100700	HEX HEAD BOLT	M10x35	1
124	WF082030	FLAT WASHER	M8x20	1
125	NH081304	HEX NUT	M8	2
126	130456	TABLE	21-3/4"x16"	1
127	135010	TABLE INSERT		1
128	135517	QUICK RELEASE HANDLE		1

129	SS069300	SET SCREW	M6x12	2
130	IC130485	POWER CORD	VDE1.5x3Cx3.1M	1
131	SJ080400	HEX SOCKET BOTTOM HEAD SCREW	M8x20	4
132	WS080000	SPRING WASHER	M8	4
133	AB135530	GUIDE BRACKET(ASM)		1
134	NH081300	NUT	M8	1
135	SR059300	HEX HEAD BOLT	M5x12	2
136	WF051320	FLAT WASHER	M5x12	2
137	130473	BLADE GUARD COVER		1
138	WF081820	FLAT WASHER	M8x18	4
139	WS080000	SPRING WASHER	M8	4
140	SH080500	HEX HEAD BOLT	M8x25	4
141	135006	HANDLE WHEEL		1
142	SR060400	HEX SOCKET BOLT	M6x20	1
143	AB135092	SAW BLADE ADJUSTMENT(ASM)		1
144	AB135095A	SAW BLADE ADJUSTMENT(ASM)		1
145	130487	POWER LIGHT	220V	1
146	AB135250	TRUNNION SUPPORT BRACKET(SET)		1
147	WF081818	FLAT WASHER	M8x18	4
148	WF061620	FLAT WASHER	M6x16	2
149	WF081820	FLAT WASHER	M8x18	5
150	SR069300	HEX SOCKET BOLT	M6x12	2
151	135108	MULTIFINGER SWITCH		1
152	136374	FIRM ELECTRONIC IC	DC90V	1
153	ST039200	TAPPING SCREW	M3.5x8	1
154	IC136019	CONNECTING CORD	18AWGx1Cx150mm	1
155	IC130487	CONNECTING CORD	18AWGx1Cx150mm	1
156	IC130488	CONNECTING CORD	18AWGx1Cx150mm	1
157	WE050000	STAR WASHER	M5	2
158	NH050900	NUT	M5	1

EXPLODED DIAGRAMS/LISTS

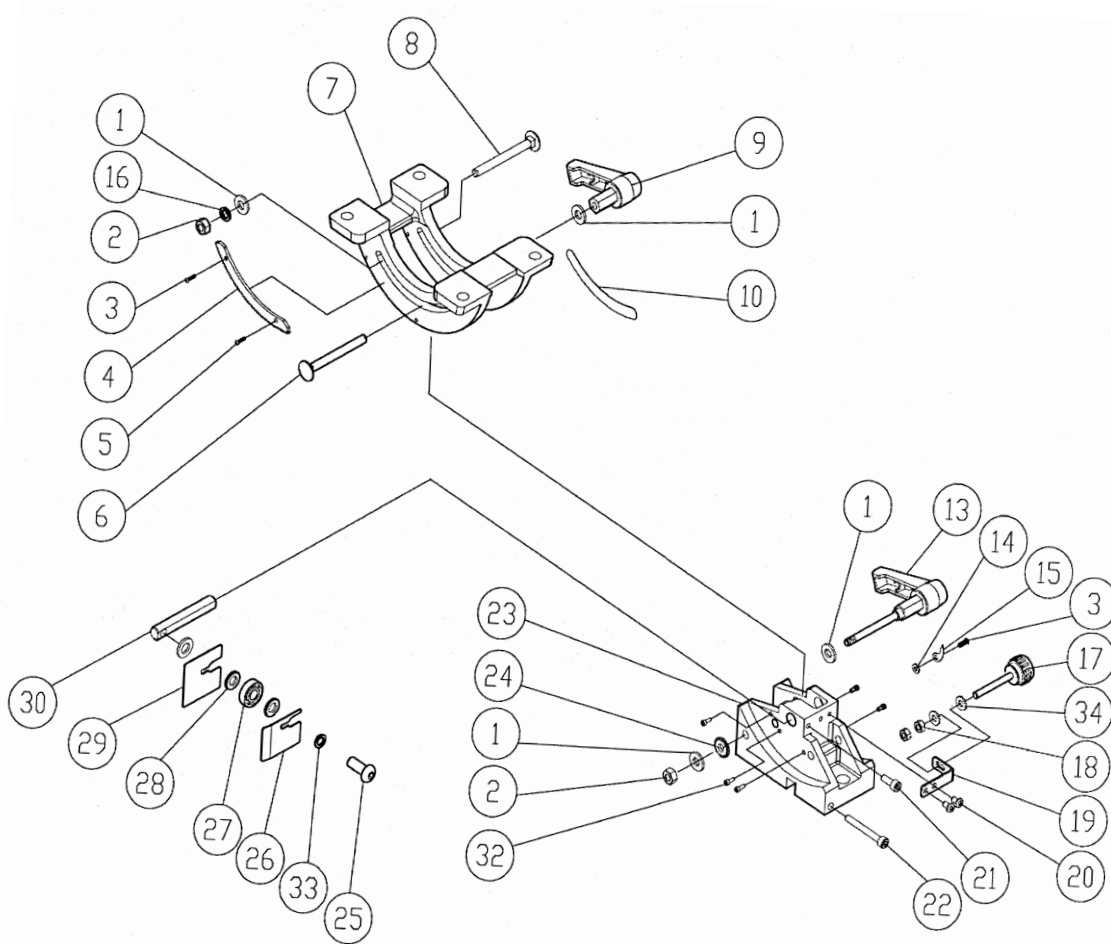
14inch Fence Assembly (SBW-3501H3)



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	130465	LOCK KNOB	M8x50	1
07	130455	SUPPORT TUBE		1
08	WF082320	FLAT WASHER	M8x23	1
09	198013	HANDLE		1
10	136470-1	NYLON PIECE		1
11	198007	CONVEX		1
12	SR060500	HEX SOCKET BOLT	M6x25	4

13	198004	FIXED LUMP		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
20	ST039300	TAPPING SCREW	M3.5x12	2
21	LM001842	SCALE		1
22	VS060000	SPRING WASHER	M6	2
24	SH060400	HEX HEAD BOLT	M6x20	2
25	SF049200	PAN HEAD BOLT W/FLANGE	M4x8	1
26	VF061310	FLAT WASHER	M6x13	2
27	198008	BRACKET	T=3	1
28	AC198071	FENCE (AL)	505	1

Trunnion Support Bracket ASM (SBW-3501H3)

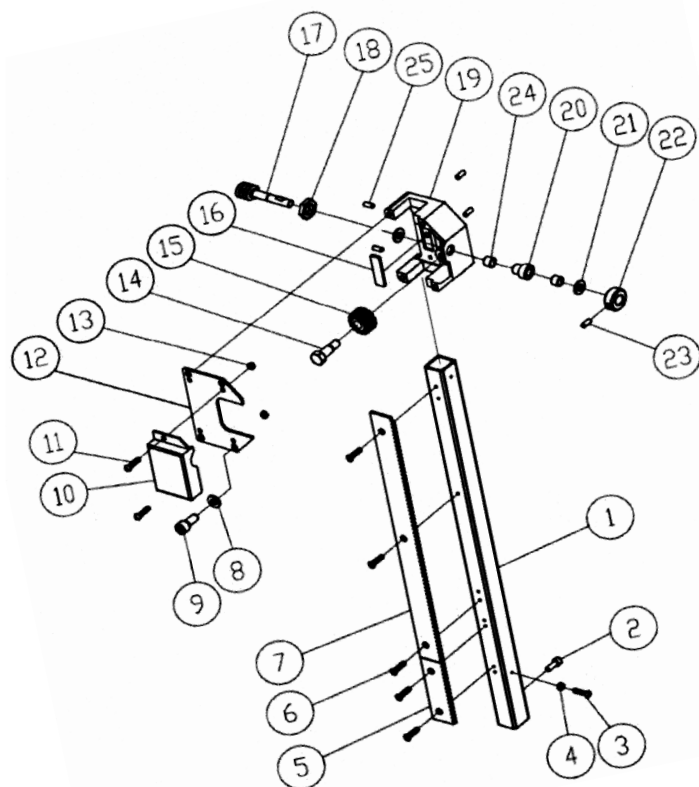


ITEM	PART NO	PARTS DESCRIPTION	SIZE	QTY
1	WF081820	FLAT WASHER	M8x18	4
2	NL081300	NYLON NUT	M8	2
3	SP049100	PAN HEAD BOLT	M4x6	2
4	135052	GEAR PLATE		1
5	SN049100	COUNTER SUNK BOLT	M4x6	1
6	SC081700	CARRIAGE PIN BOLT	M8x85	1
7	135251	TRUNNION BLOCK		1
8	SC081600	CARRIAGE BOLT	M8x80	1
9	135044	HANDLE		1
10	LM001182	ANGLE LABEL		1
13	135069	LIFT AND SHIFT HANDLE		1
14	WF040808	FLAT WASHER	M4x8	1
15	135078	POINTER		1
16	WS080000	SPRING WASHER	M8	1
17	135254	ADJUST BOLT	M6	1

18	NH061000	NUT	M6	2
19	135253	ADJUST PLATE		1
20	SP059200	PAN HEAD BOLT W/FLANGE	M5x8	2
21	SR069400	HEX SOCKET BOLT	M6x16	1
22	SR061000	HEX SOCKET BOLT	M6x50	1
23	135250	TRUNNION SUPPORT BRACKET		1
24	135061	SMALL GEAR		1
25	SJ100600	HEX SOCKET BOTTON HEAD SCREW	M10x30	1
26	135123	RIGHT COVER		1
27	BB600002	BALL BEARING	6000ZZ	1
28	WF102020	FLAT WASHER	M10x20	3
29	135122	LEFT COVER		1
30	135252	ADJUST BLOCK		1
32	SR059130	HEX SOCKET BOLT	M5x6	6
33	WS100000	SPRING WASHER	M10	1
34	WF061310	FLAT WASHER	M6x13	2

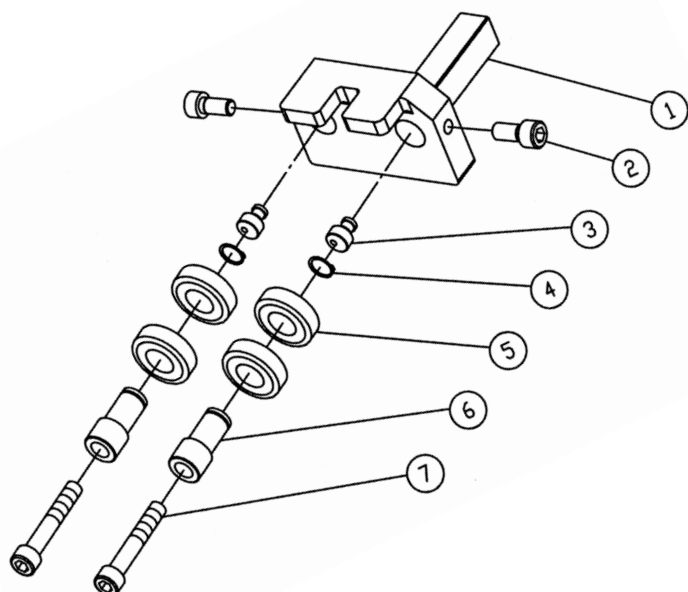
EXPLODED DIAGRAMS/LISTS

AB135530 Guide Bracket A (SBW-3501H3)

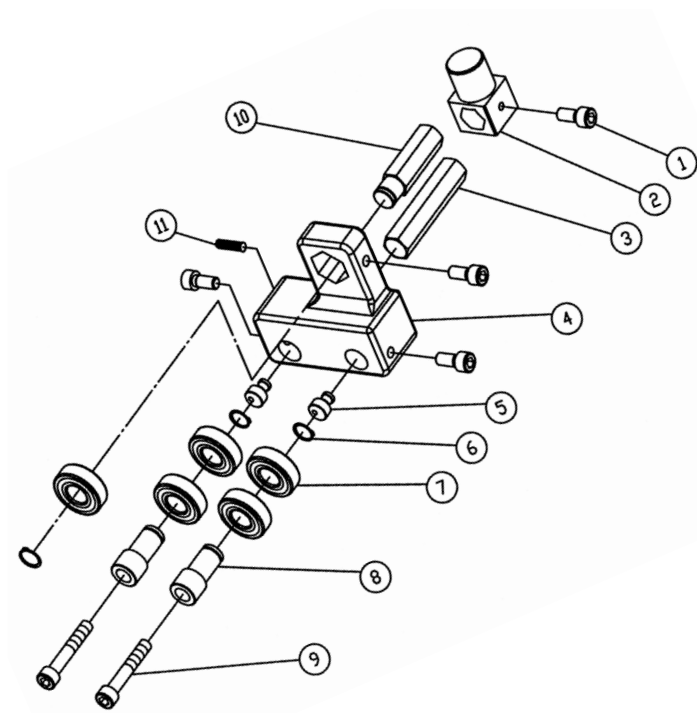


ITEM	PART NO	PARTS DESCRIPTION	SIZE	QTY
1	135530	UPPER GUIDE TUBE		1
2	SR060200	HEX SOCKET BOLT	M6x10	2
3	SP040200	PAN HEAD BOLT	M4x10	1
4	NH040700	NUT	M4	1
5	136465	EXTEND GEAR		1
6	SN049200	COUNTER SUNK BOLT	M4x8	5
7	136466	RACK		1
8	WS080000	SPRING WASHER	M8	4
9	SR089400	HEX SOCKET BOLT	M8x16	4
10	136469	COVER		1
11	SF050200	PAN HEAD BOLT W/FLANGE	M5x10	2
12	135046	COVER		1
13	NH050800	NUT	M5	2
14	016320	FIXED SCREW		1
15	136484	GEAR		1
16	135062	FIXED PLATE		1
17	135033	WORM CYLINDER		1
18	136473	NUT		1
19	135050	GUIDE BRACKET		1
20	136453	BUSHING		1
21	200069	FIBRE WASHER		2
22	135015	FIXED BUSHING		1
23	SS050100	SET SCREW	M5x5	2
24	BD101201	BUSHING BEARING	DU 10x12	2
25	990306	NYLON SET SCREW	M7x10	4

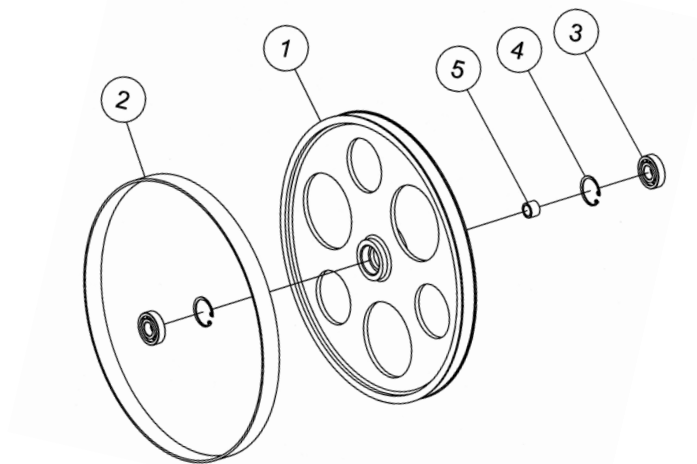
AB135095A Lower Saw Blade Adjustment ASM (SBW-3501H3)



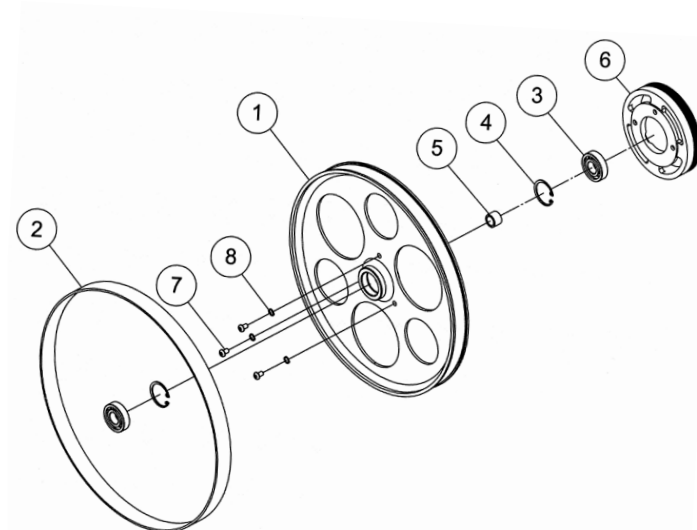
ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	135125	LEVER BLADE GUIDE SUPPORT		1
2	SR069300	HEX SOCKET BOLT	M6x16	2
3	135124	BIAS SHAFT		2
4	RS150000	RETAINING RING	S15	2
5	BB620202A	BALL BEARING	6202ZZ	4
6	136445	HANDLE BUSHING		2
7	SR060700	HEX SOCKET BOLT	M6x35	2

AB135092 UpperSaw Blade Adjustment ASM (SBW-3501H3)

ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	SR069400	HEX SOCKET BOLT	M6x16	4
2	135057	UPPER GUIDE SUPPORT BLOCK		1
3	135053	ADJUST BAR		1
4	135091	UPPER BLADE GUIDE SUPPORT		1
5	135090	BIAS SHAFT		2
6	RS150000	RING	S15	3
7	BB620202A	BALL BEARING	6202ZZ	5
8	136445	HANDLE BUSHING		2
9	SR060703	HEX SOCKET BOLT	M6x35	2
10	135060	UPPER SPACING SLEEVE		1
11	SS060200	SET BOLT	M6x10	1

AB130466 Upper Wheel ASM (SBW-3501H3)

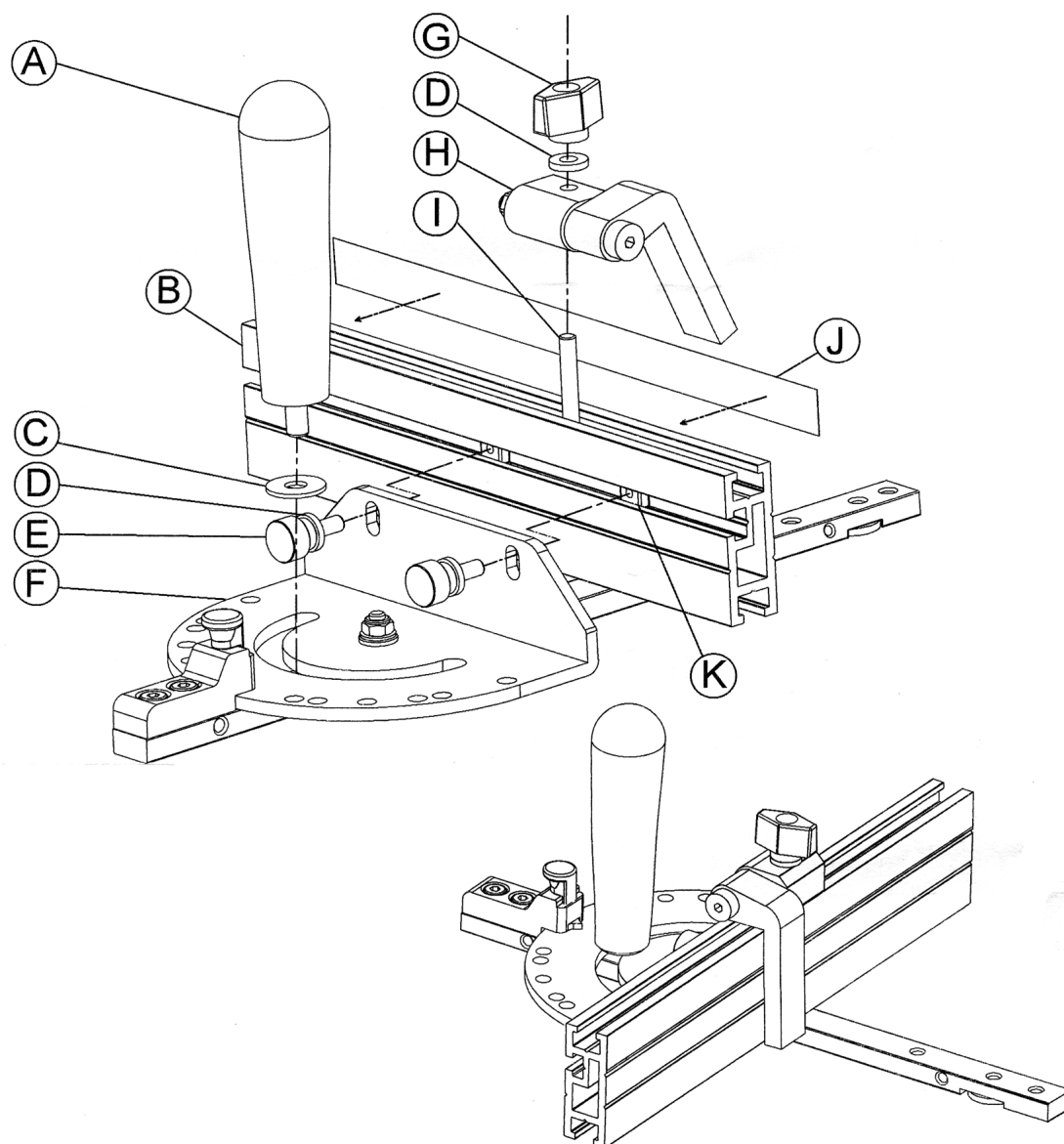
ITEM	PART NO	DESCRIPTION	SIZE	QTY
01	100247	UPPER WHEEL		1
02	150035	WHEEL TYRE		1
03	BB620203	BALL BEARING	6202	2
04	RR350000	RETAINING RING	R35	2
05	130466	BUSHING		1

AB130463 Upper Wheel ASM (SBW-3501H3)

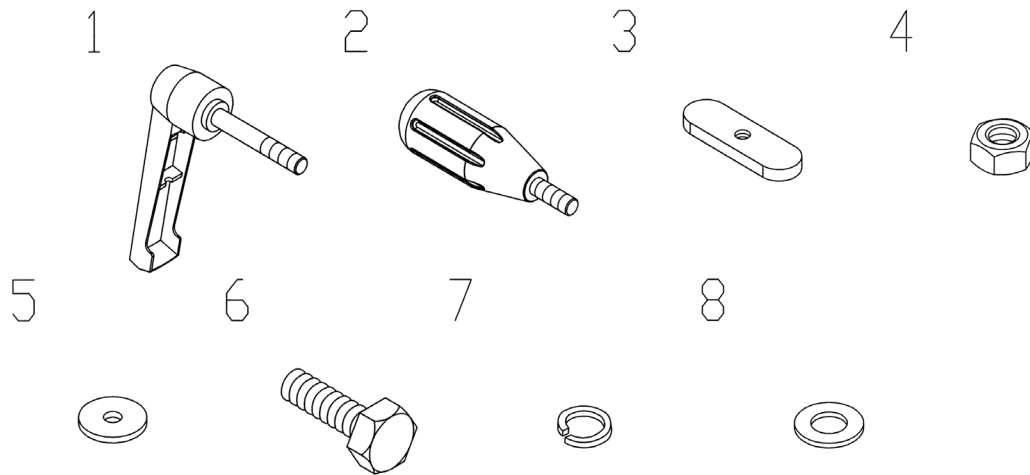
ITEM	PART NO	DESCRIPTION	SIZE	QTY
01	100247	LOWER WHEEL		1
02	150035	WHEEL TYRE		1
03	BB620203	BALL BEARING	6202	2
04	RR350000	RETAINING RING	R35	2
05	130466	BUSHING		1
06	130463	PULLEY		1
07	SJ060500	HEX SOCKET BOTTOM HEAD SCREWRING	M6x25	3
08	VS060000	SPRING WASHER	M6	3

EXPLODED DIAGRAMS/LISTS

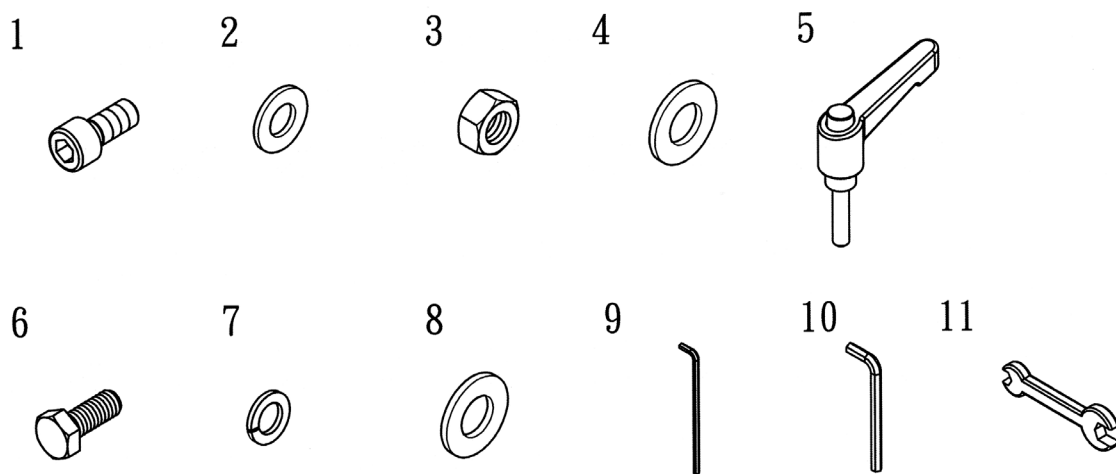
Compact Mitre Fence



NO	PART DISCRIPTION	QTY
A	HANDLE	1
B	FENCE	1
C	METAL WASHER 1MM	1
D	PVC WASHER 2.5MM	3
E	KNURLING KNOB	2
F	MITRE GAUGE	1
G	DIAMOND KNOB	1
H	3/8" FLIP STOP	1
I	T-SHAPED SCREW	1
J	RULER TAPE	1
K	SQUARE NUT	2

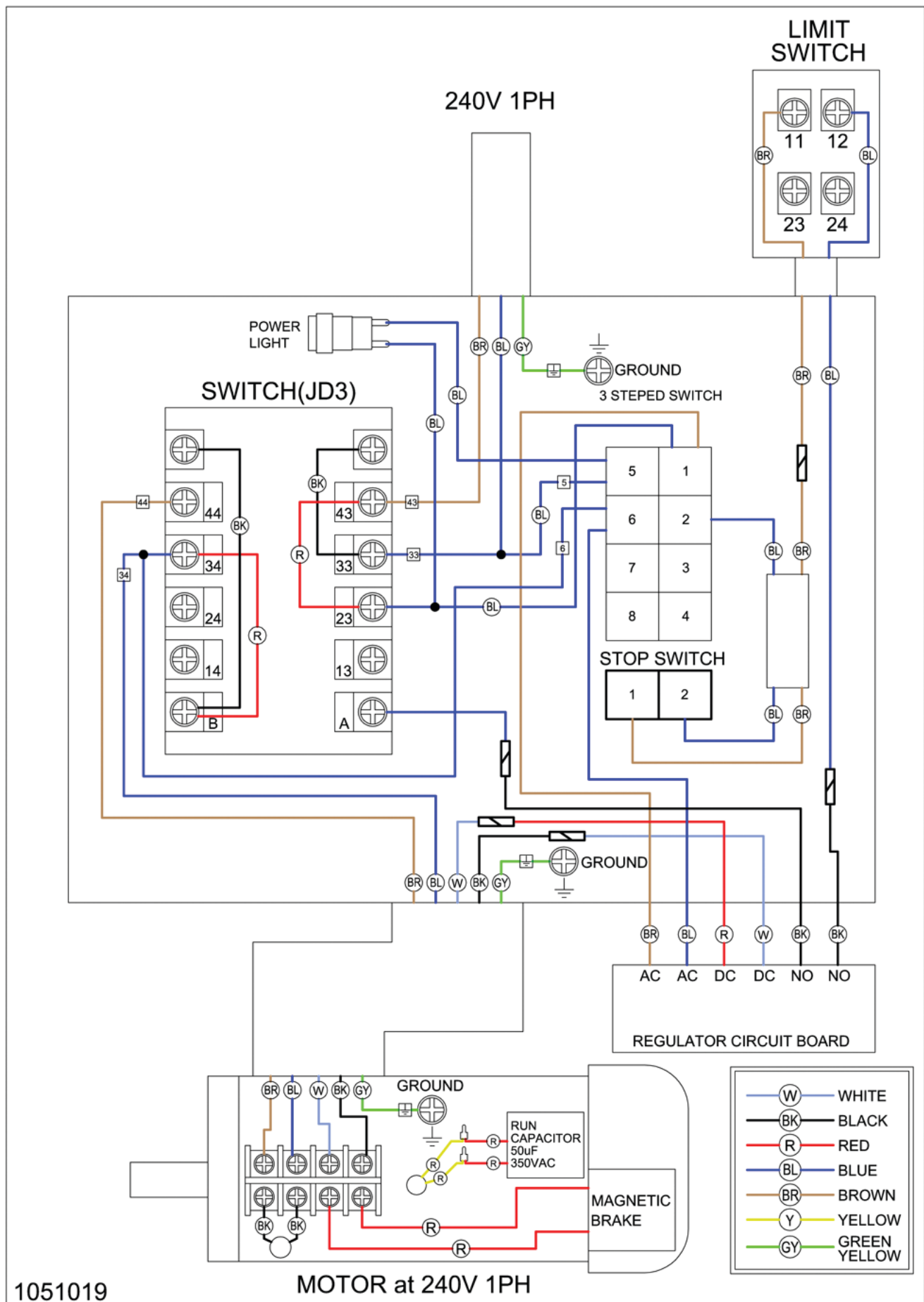


ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	130465	LOCK KNOB	M8x5	1
2	198013	HANDLE		1
3	200527	MOVING PLATE		1
4	NH081300	NUT	M8	1
5	WF082320	FLAT WASHER	M8x23X2	1
6	SH060400	HEX HEAD BOLT	M6x20	2
7	VS060000	SPRING WASHER	M6	2
8	VF061310	FLAT WASHER	M6x013	2



ITEM	PART NO	DESCRIPTION	SIZE	QTY
1	SR069300	HEX SOCKET BOLT	M6x12	2
2	WF061620	FLAT WASHER	M6x16	2
3	NH081300	NUT	M8	1
4	VF082030	FLAT WASHER	M8x20	1
5	135517	QUICK RELEASE HANDLE		1
6	SH080500	HEX HEAD BOLT	M8x25	4
7	VS080000	SPRING WASHER	M8	4
8	VF081820	FLAT WASHER	M8x18	4
9	TS050001	HEX WRENCH	5m	1
10	TS080001	HEX WRENCH	8nn	1
11	TV101300	WRENCH	13x10	1

WIRING DIAGRAM



The Axminster guarantee

Buy with confidence from Axminster!

So sure are we of the quality, we cover all parts and labour free of charge for three years!



For more information visit axminstertools.com/3years



The packaging is suitable for recycling.
Please dispose of it in a responsible manner.



EU Countries Only

Do not dispose of electric tools together with household waste material.
By law they must be collected and recycled separately.



Axminster Tools, Axminster Devon EX13 5PH

axminstertools.com