charnwood

Woodworking machinery at its best!

10” BANDSAW
OPERATORS MANUAL
MODEL: W715 Type I

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GENERAL SAFETY RULES

WARNING: Do not attempt to operate the machine until you have thoroughly read and understood completely all instructions, rules, etc. contained in this manual. Failure to comply may result in accidents involving fire, electric shock, or serious personal injury. Keep this owner's manual and review frequently for continuous safe operation.

1. Know your machine. For your own safety, read the owner's manual carefully. Learn its application and limitations, as well as specific potential hazards pertinent to this machine.

2. Make sure all tools are properly earthed.

3. Keep guards in place and in working order. If a guard must be removed for maintenance or cleaning, make sure it is properly replaced before using the machine again.

4. Remove adjusting keys and spanners. Form a habit of checking to see that the keys and adjusting spanners are removed from the machine before switched it on.

5. Keep your work area clean. Cluttered areas and workbenches increase the chance of an accident.'

6. Do not use in dangerous environments. Do not use power tools in damp or wet locations, or expose them to rain. Keep work areas well illuminated.

7. Keep children away. All visitors should be kept a safe distance from the work area.

8. Make workshop childproof. Use padlocks, master switches and remove starter keys.

9. Do not force the machine. It will do the job better and be safer at the rate for which it is designed.

10. Use the right tools. Do not force the machine or attachments to do a job for which they are not designed. Contact the manufacturer or distributor if there is any question about the machine's suitability for a particular task.

11. Wear proper apparel. Avoid loose clothing, gloves, ties, rings, bracelets, and jewellery which could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

12. Always use safety glasses. Normal spectacles only have impact resistant lenses. They are not safety glasses.

13. Do not over-reach. Keep proper footing and balance at all times.

14. Maintain the machine in good condition. Keep the machine clean for best and safest performance. Follow instructions for lubrication and changing accessories.

15. Disconnect the machine from power source before servicing and when changing the blade.

16. Never leave the machine running unattended. Turn the power off. Do not leave the machine until it comes to a complete stop.

17. Do not use any power tools while under the effects of drugs, alcohol or medication.

18. Always wear a face or dust mask if operation creates a lot of dust and/or chips. Always operate the tool in a well ventilated area and provide for proper dust removal. Use a suitable dust extractor.

ADDITIONAL RULES FOR BAND SAWS

1. Ensure that the saw table is clear of off-cuts, tools or anything else that might foul the work-piece.
2. When cutting long boards use one or more roller stand(s) to support the work or have a competent helper to support it as it feeds off the rear of the table.
3. Always make sure that the blade is tracked and tensioned correctly before starting to use the saw.
4. Always use a brush to clear the table of dust or debris. **NEVER** use your hands, especially when the machine is running.
5. Always ensure that the thrust bearings and guide blocks are correctly adjusted before using the saw.
6. ALWAYS USE A PUSH STICK WHEN IT IS NECESSARY TO PUSH ANY PIECE OF MATERIAL OF SUCH SIZE THAT IT WOULD BRING YOUR HANDS WITHIN 30 CM OF THE BLADE.
7. Do not cut material that is badly warped or which has screws or nails in it.
8. Be extra vigilant when cutting stock which has loose knots in it as these my fly out of the saw.
9. NEVER tilt the table when the saw is running.
10. To avoid exposure to hazardous dust, do not use this saw without connecting it to a suitable dust extractor.
11. Always work with a sharp saw blade and feed the work at a rate suited to the thickness and hardness of the material.

Note: This band saw has been designed and built solely as a woodworking machine. Do not modify it in any way or use it for anything other than its designated purpose. Neither the manufacturers nor the supplier are liable for any damage or injury caused by incorrect assembly, operation or electrical connection of this machine.

Risk of Injury!
Never reach into
Moving parts

Wear Eye
Protection

Wear Ear
Protection

W715 Specification

Table size	340 x 335 mm
Motor 240v / 50Hz	370W (1/2hp)
Blade length	1712 mm (67-1/2”)
Blade speed (no load)	1400±10% m/min
Blade widths	6 to 13 mm (1/4” to 3/8”)
Maximum depth of cut at 90º	100mm (4”)
Maximum depth of stock at 45º	70mm (3”)
Throat capacity	250mm (10”)
Dust extractor hose connection	40mm (1.5”)
Weight	30kg net / 32kg gross
Rating	Hobby
Warranty	1 Year

Hobby Rating – Suitable for weekend DIY’ers and woodworking enthusiasts. Refers to generally lighter weight machines with lower power ratings and smaller tooling capacities. Typically only ever used by one person for short periods of time or longer periods infrequently. Machinery should be well maintained in a clean, dry environment such as a home workshop, garage or timber shed. **Expected maximum use of 100 hours annually.**

Please Note: Using a product in excess of its rating will void the manufacturer’s free warranty.

Unpacking The Bandsaw

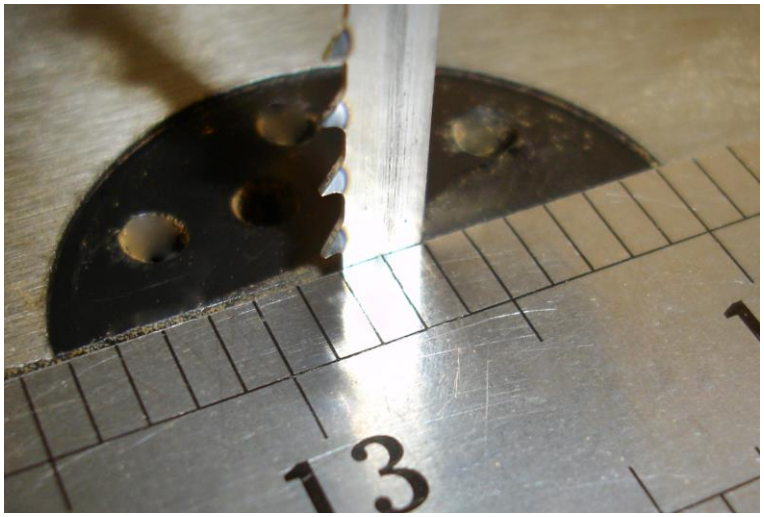
Cut the strapping and remove the polystyrene insert from the carton.

Remove all parts from the packaging, look underneath the packaging too.

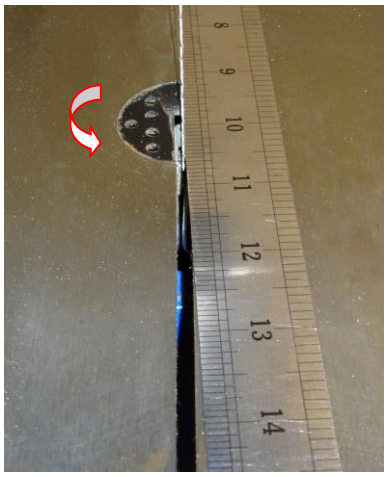
Layout the parts as shown to check they are all present.

Assembling The Bandsaw

Place the saw, so that it is lying on its back.
Prop the upper end up on a suitable block or box, so that the table may be held in place with the four threaded holes in line with the holes in the upper trunnion.
Using the four bolts and serrated washers supplied, attach the table to trunnion, leaving the bolts slightly loose.

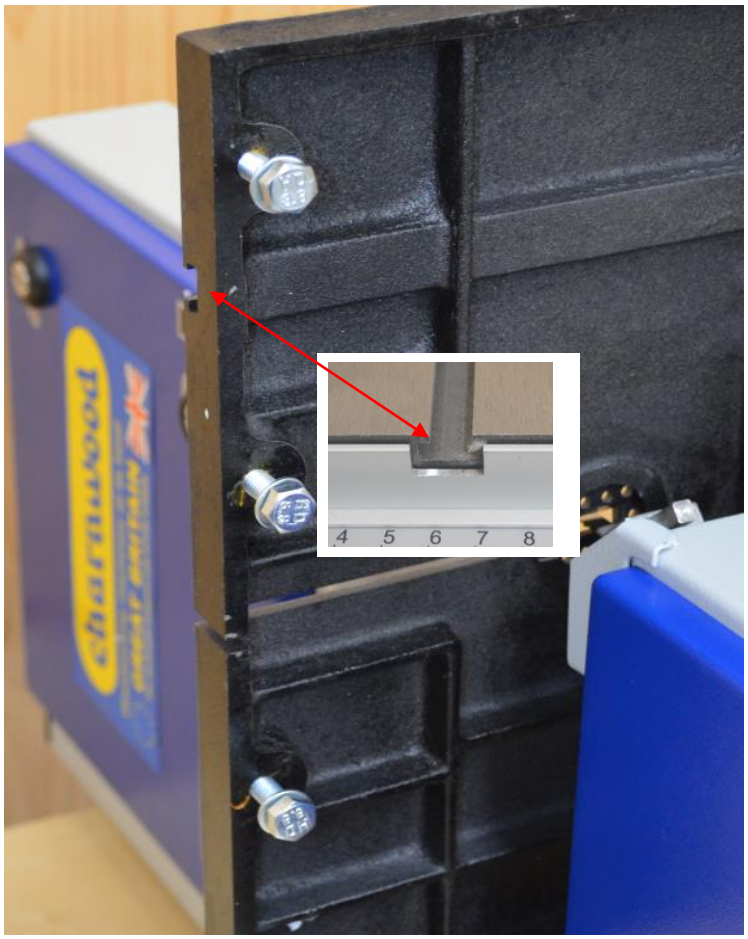


Carefully place a steel rule against the side of the blade, between teeth.



Twist the table on the trunnion until the rule is aligned with the slot.

Tighten the four bolts holding the table to the trunnion.

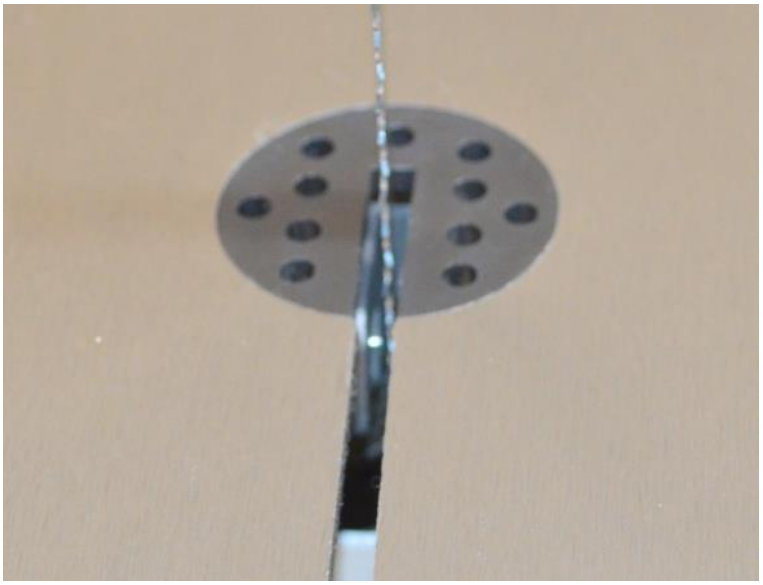


Screw the four hex, headed bolts and washers into the tapped holes on the underside of the table and slide the rip fence carrier on to them.

Make sure that it is a snug fit. If you do not keep it tight to the table the rip fence will not be perpendicular to the table.

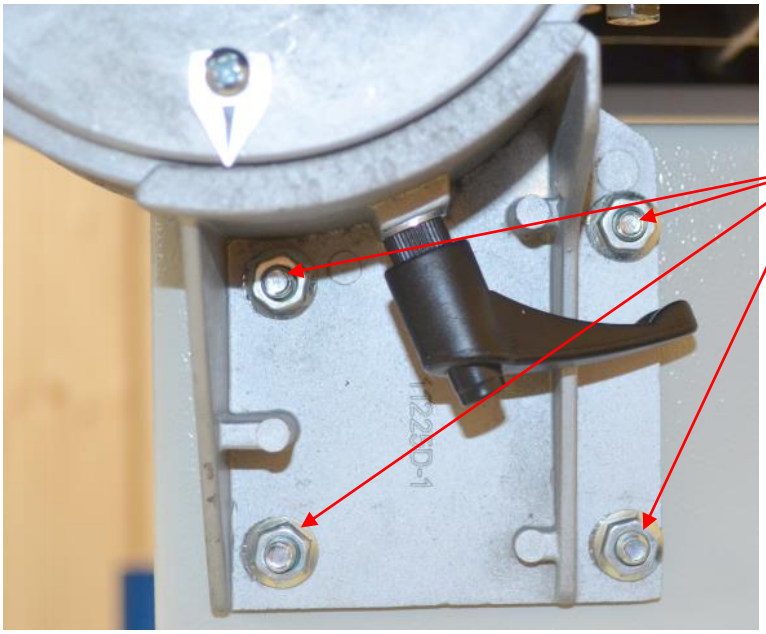
Make sure the cut out in the rip fence carrier is aligned with the tee slot in the table.

The scale is adjustable separately.



Check to see if the blade is centred in the table slot.

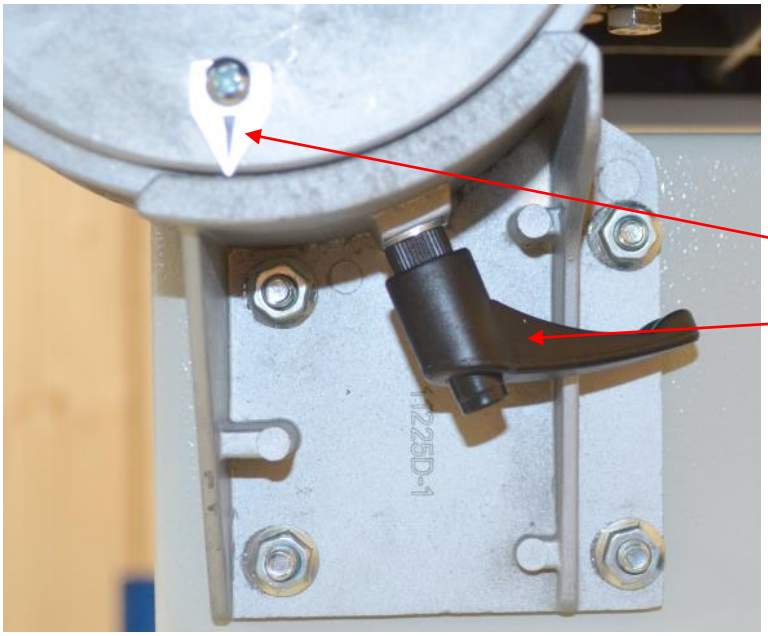
You will probably find it is offset to one side or the other.



The lower trunnion is attached to the body of the saw by four hex headed bolts.

These may be slackened and the trunnion slid in either direction until the blade is centred.

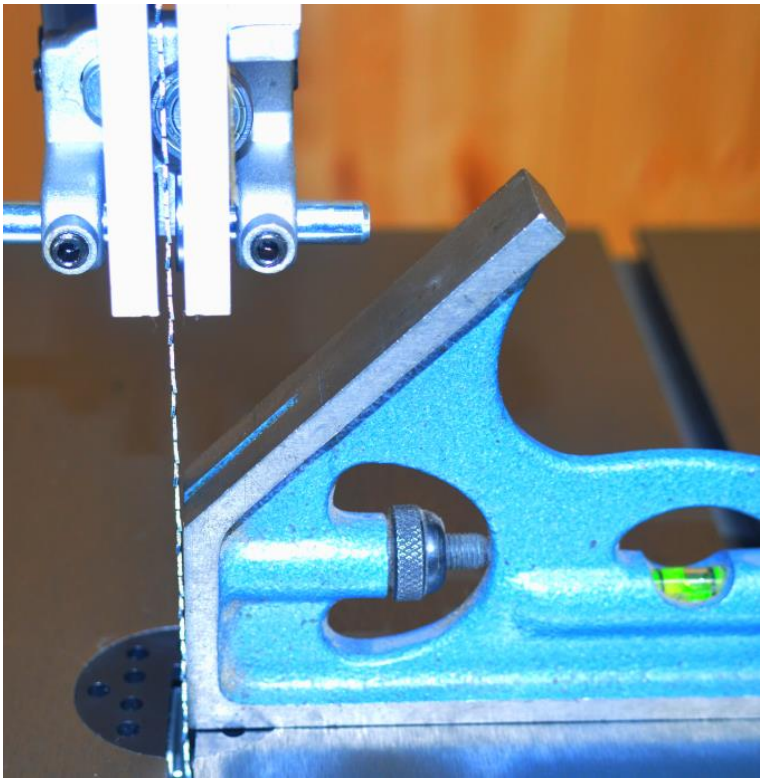
After adjustment, tighten them securely.



The locking lever locks and unlocks the trunnion so that the table may be tilted.

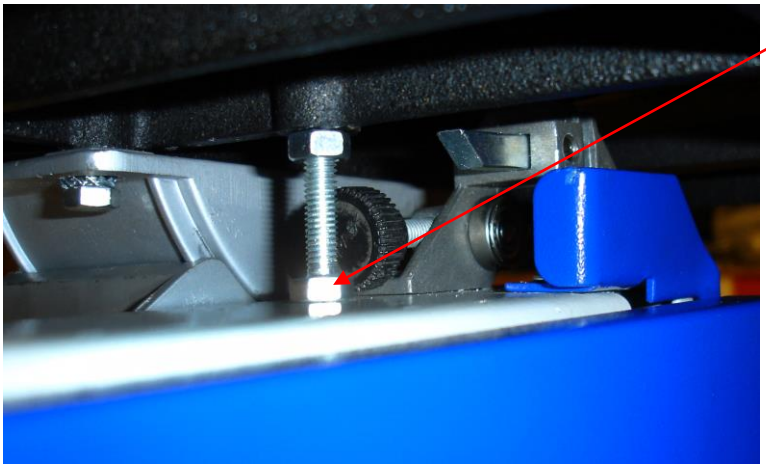
Adjustable pointer

Table Angle Locking Lever



Having set the table so that the blade is centred, apply a little tension to the blade and use a set square to position the table at right angles to it.

Lock it in position and if necessary, set the adjustable pointer so it aligns with zero.



Adjust the table support bolt, so it touches the top of the lower machine frame.

Fix it in place using the lock nut.

This allows the table to be quickly and accurately reset to 90 degrees after tilting the table.

Screw the push stick hanger into the side of the frame.

Fix it in place using the lock nut.

This completes the assembly of the saw.

Setting Up The Bandsaw

Blade tensioner adjuster

Blade guard adjuster and lock

Blade Tracking control adjuster and lock

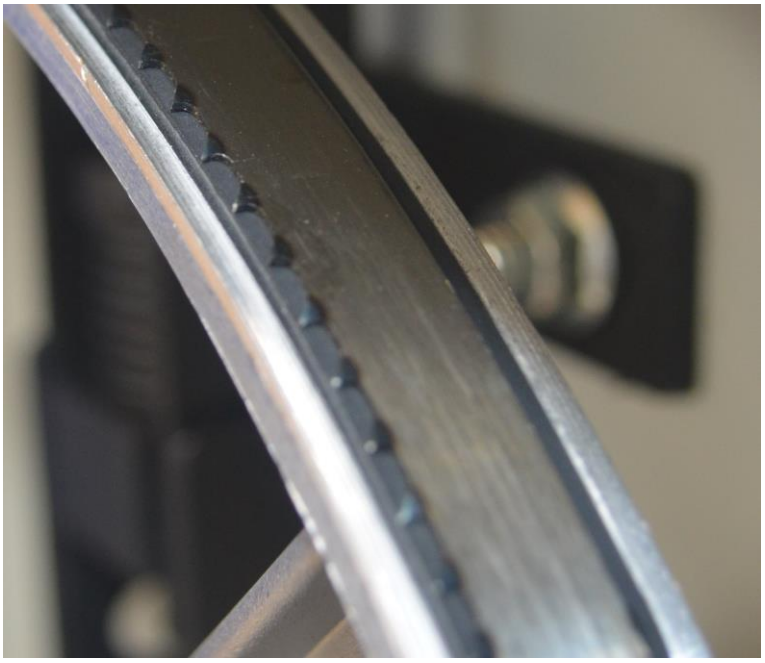
Set the Blade Tension

Press the side of the blade here to check the tension.

Adjust the tension until the blade can be deflected sideways by 3 to 5mm with finger pressure.

To increase tension, turn the adjuster clockwise.

To decrease tension, turn the adjuster anti-clockwise.



Set the Blade Tracking

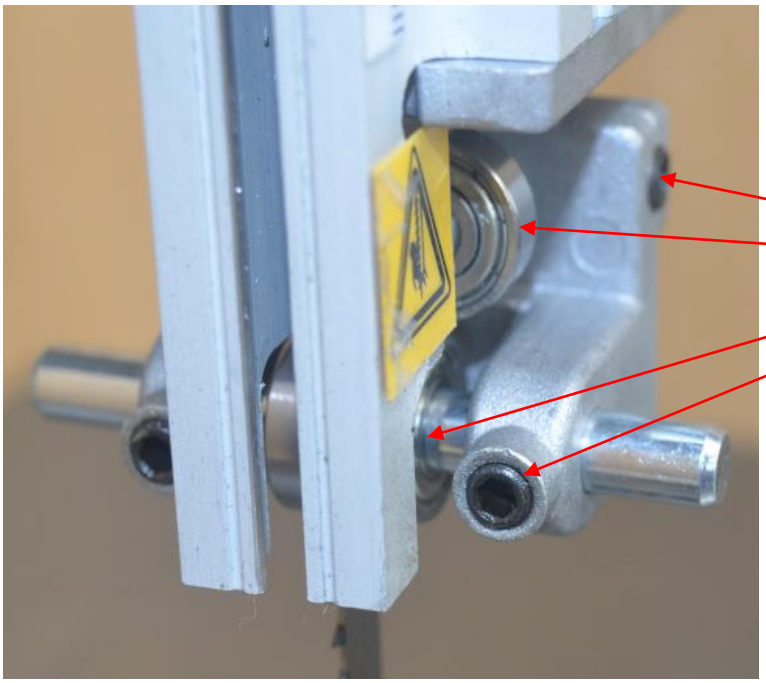
Unlock the adjuster using the wingnut.

By hand, slowly rotate the bandsaw upper wheel clockwise. If the blade starts to move forward or backwards on the wheel adjust the tracking control until the blade is balanced.

The blade can sit in the centre of the rubber tyre or with the tips of the teeth projecting over the front end.

Lock the wingnut to set this position.

Repeat this process whenever the blade is changed.



Set The Upper Blade Guides

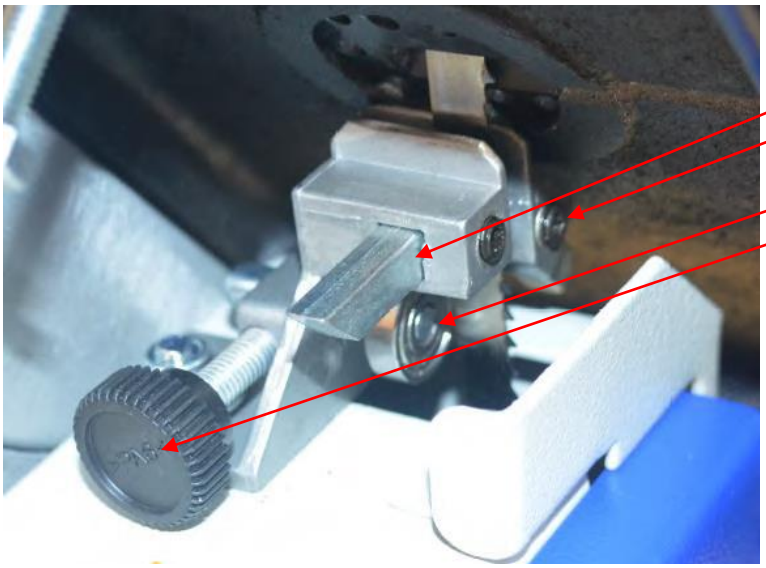
The upper and lower thrust bearings and guide bearings should be set up next.

Rear thrust bearing locking screw
Rear thrust bearing

Guide bearing
Guide bearing locking screw

The thrust bearing should be set 0.5mm off the back of the blade. Adjust and lock it in place.

The guide bearings should be set 0.5mm off the sides of the blade. Adjust and lock them in place.



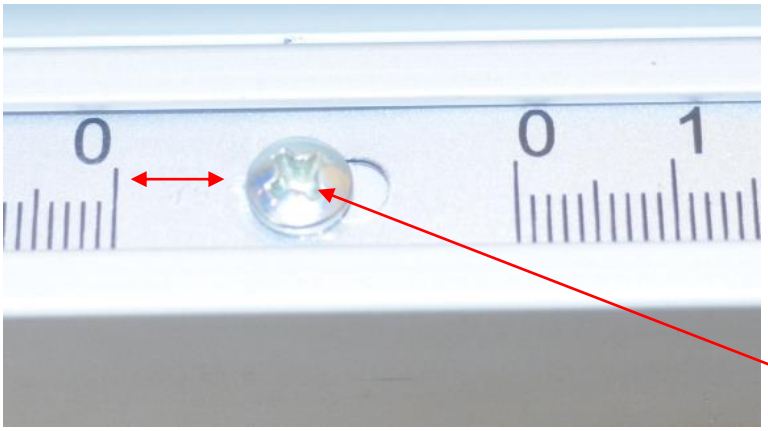
Set The Lower Blade Guides

Guide Pin
Guide Pin Locking Screw

Rear Thrust Bearing
Rear Thrust Bearing Locking Screw

The thrust bearing should be set 0.5mm off the back of the blade. Adjust and lock it in place.

The guide pins should be set 0.5mm off the sides of the blade. Adjust and lock them in place.

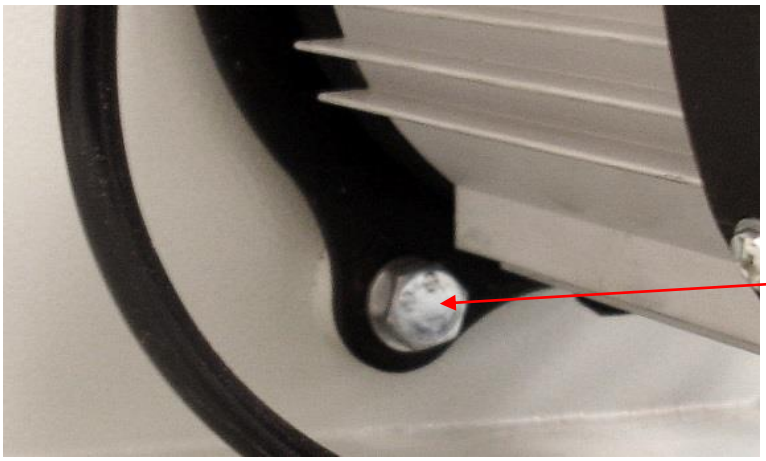


Set The Rip Fence Scale

Fit the rip fence to the table. Use a ruler to measure the distance between the blade and the fence.

Slide the scale left or right to adjust the scale to match the measurement you have taken.

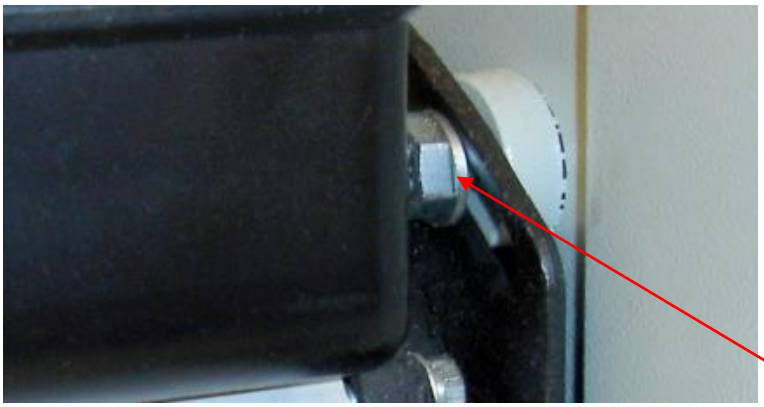
Scale Locking Screw



Set The Drive Belt Tension

At the rear of the bandsaw, loosen (but do not remove) the two bolts holding the motor using a 13mm spanner.

Pivot Bolt

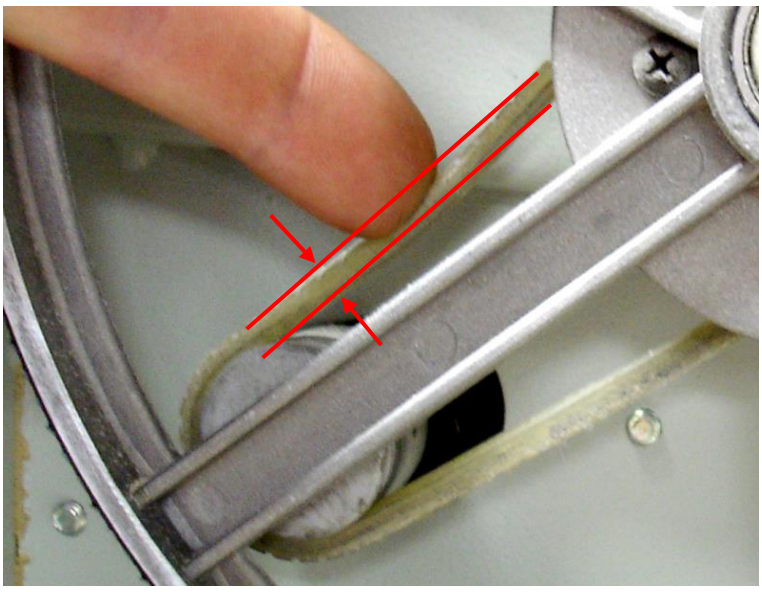


One bolt passes through a slotted hole in the mount allowing the motor to rotate around the pivot bolt.

Apply pressure to the top of the motor, rotating it to increase drive belt tension.

Tighten the slotted bolt first, then the pivot bolt.

Slotted Bolt



Open the lower door.

Check the drive belt tension by pressing the belt.

When set correctly the belt should deflect by approximately 5mm when using moderate pressure.

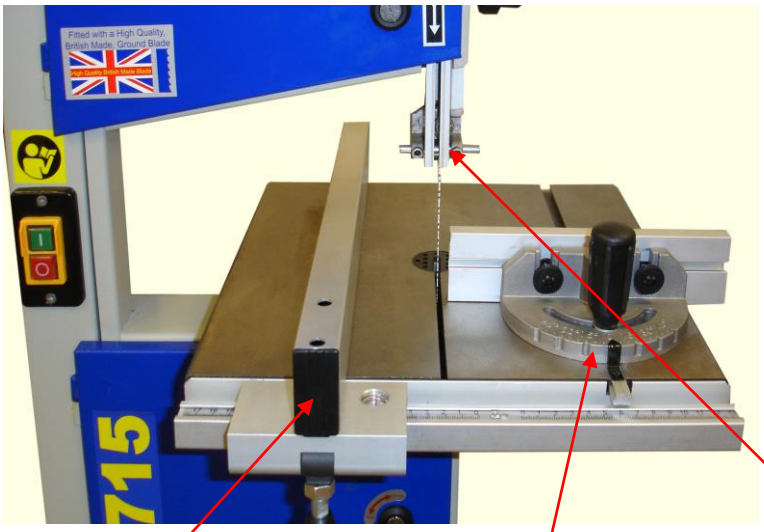
Tip: If you are experiencing a lack of cutting performance, the blade is easily stalled or there is a squealing sound under load, it might be necessary to tension the drive belt.

Your bandsaw is now ready for use.
It is recommended that the saw is bolted to a bench and a suitable dust extractor attached.

Making A Cut

For every type of cut, the blade guard should be lowered so that the bottom edge of the guard is just above the work piece. This is for safety and to better control the blade during the cut.

Always use a push stick so that you keep your fingers at least 30cm from the blade.



Straight Rip Cuts
Ripping cuts are generally made using the guide fence and run along the grain of the timber.
The rip fence may be used on either side of the blade.

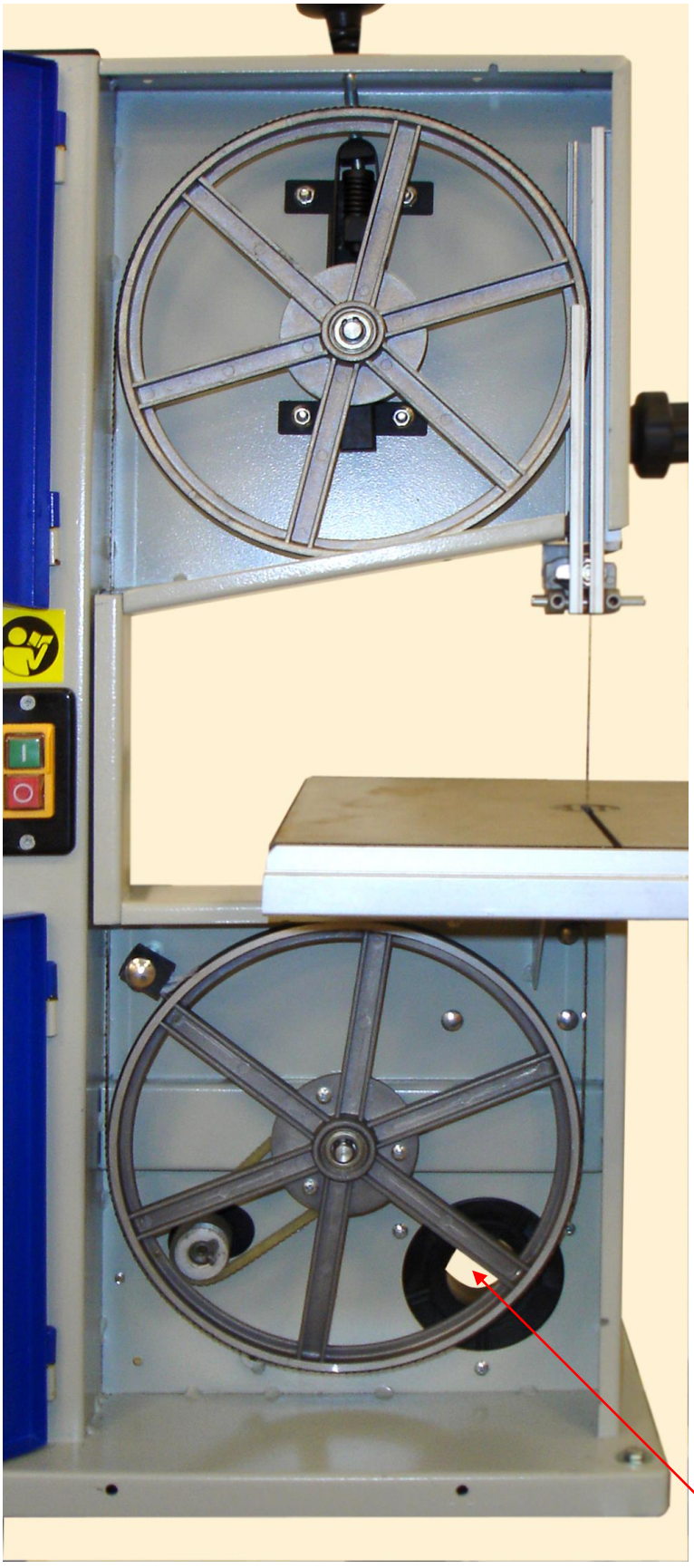
Crosscutting
Cutting across the grain is generally done using the mitre fence.
The rip fence may be used as a length stop for repetitive cross or mitre cuts.

Cutting Curves
The bandsaw can be used to cut curves freehand. The diameter of the curve you can cut depends on the width of the blade. A narrower blade can cut tighter curves than a wide blade. The table below gives a guide.

Blade Width	Minimum Diameter
6mm (1/4”)	60mm (2.1/2”)
10mm (3/8”)	100mm (4”)
13mm (1/2”)	130mm (5”)

Note: Once you have cut curves with a blade, the set (angle) of the teeth will have changed. After having cut curves with a blade it will not cut so accurately in a straight line. Ideally you should keep one blade only used for straight cuts and a separate blade for curved cuts.

Replacing The Blade



When you notice the cutting performance of the bandsaw starts to deteriorate it is time to replace the blade.

Bandsaw blades are sharp enough to cause injury even when too blunt to cut wood! It is recommended that protective gloves be worn when handling blades.

1) Unplug the bandsaw from the electric supply

2) Reduce the blade tension

3) Open the upper and lower doors using a suitable screwdriver

4) Swing Open the blade guard under the table

5) Lower the blade guard

6) Remove the rip fence

7) Remove the rip fence carrier (shown here still in place)

8) Slide the blade off the wheels, bringing it forward out of the machine via the slots in the frame, blade guard and table.

Reverse these steps to fit the new blade.

Ensure that the teeth are at the front and pointing down.

Position the blade between the blade guide bearings and pins.

Tension and adjust the blade tracking as per the instructions in the ‘Setting up the bandsaw’ section of this manual.

Check, and adjust if necessary, the position of the two thrust bearings and side guides.

Dust Extraction

It is strongly recommended that a suitable dust extraction unit is used with this machine at all times.

Troubleshooting

Problem	Cause	Remedy
Machine does not start	Blown Fuse	Replace Fuse
	Loose switch terminal	Inspect back of switch
	Faulty switch	Replace switch
Only starts when Green button is held down	Faulty switch	Replace switch
Motor slows down during operation	Loose belt	Tighten Belt
	Blade is blunt	Replace blade
	Feed Speed is Too high	Feed the Work slower, let the blade do the cutting
	Attempting to take too deep a cut	It may exceed the capacity of the machine
Machine does not run but buzzing noise heard from motor	Failed capacitor	Replace the motor start capacitor.

Declaration of Conformity for CE Marking

Charnwood Declare that Woodworking Bandsaw, Model W715

Conforms with the following Directives: Machinery Directive 2006/42/EC
EMC Directive 2014/30/EU

And further conforms to the machinery example for which the EC type examination Certificate No. BM 50360183 and AE 50341198 have been issued by TUV Rheinland LGA Products GmbH, Tillystrasse 2, 90431, Nurnberg, Germany.

I hereby declare that equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The machinery complies with all essential requirements of the directive.

Signed: R Cook Dated: 29/09/2016 Location: Leicestershire

Richard Cook, Director

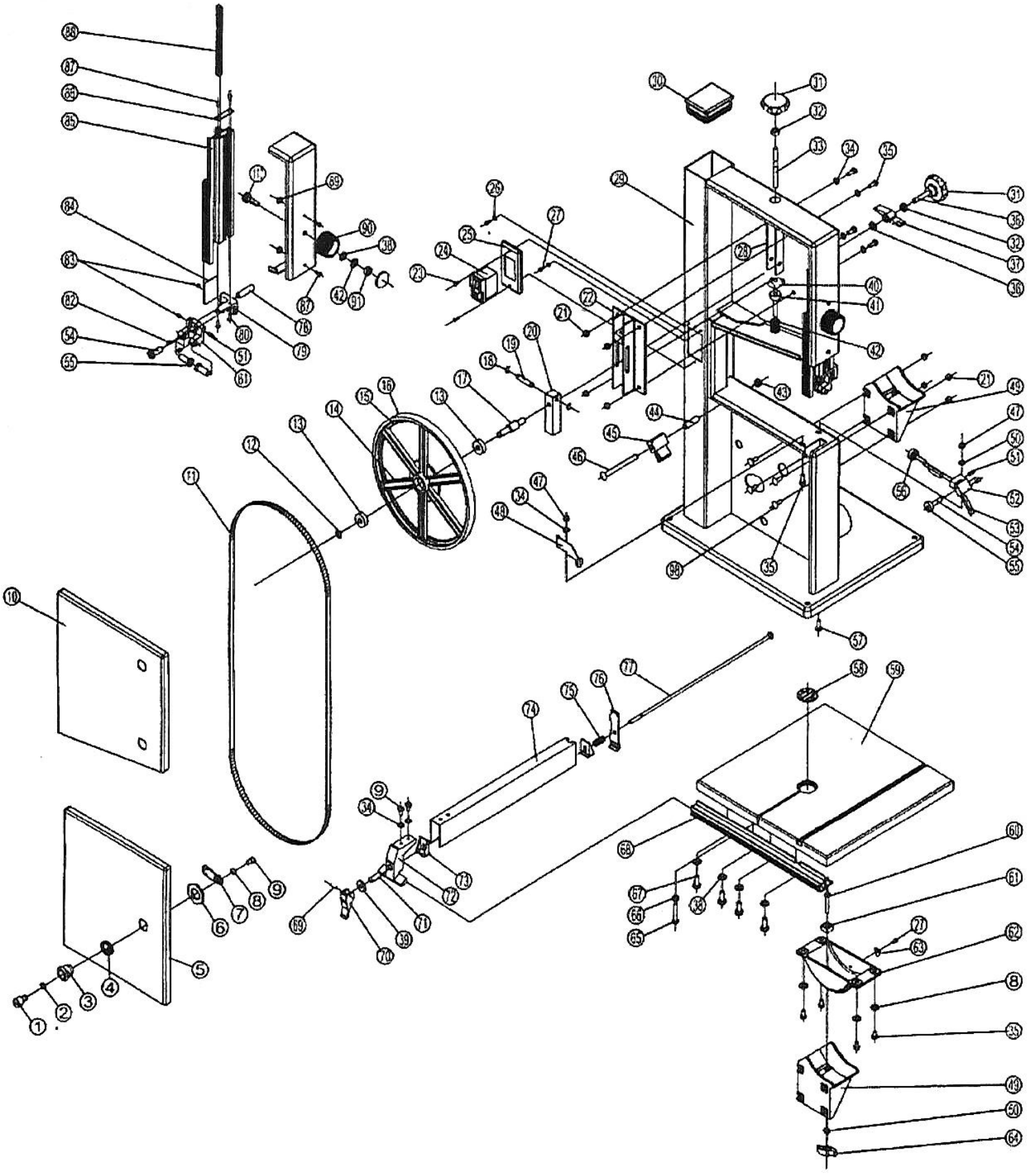
Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.

Only for EU countries
Do not dispose of electric tools together with household waste material!

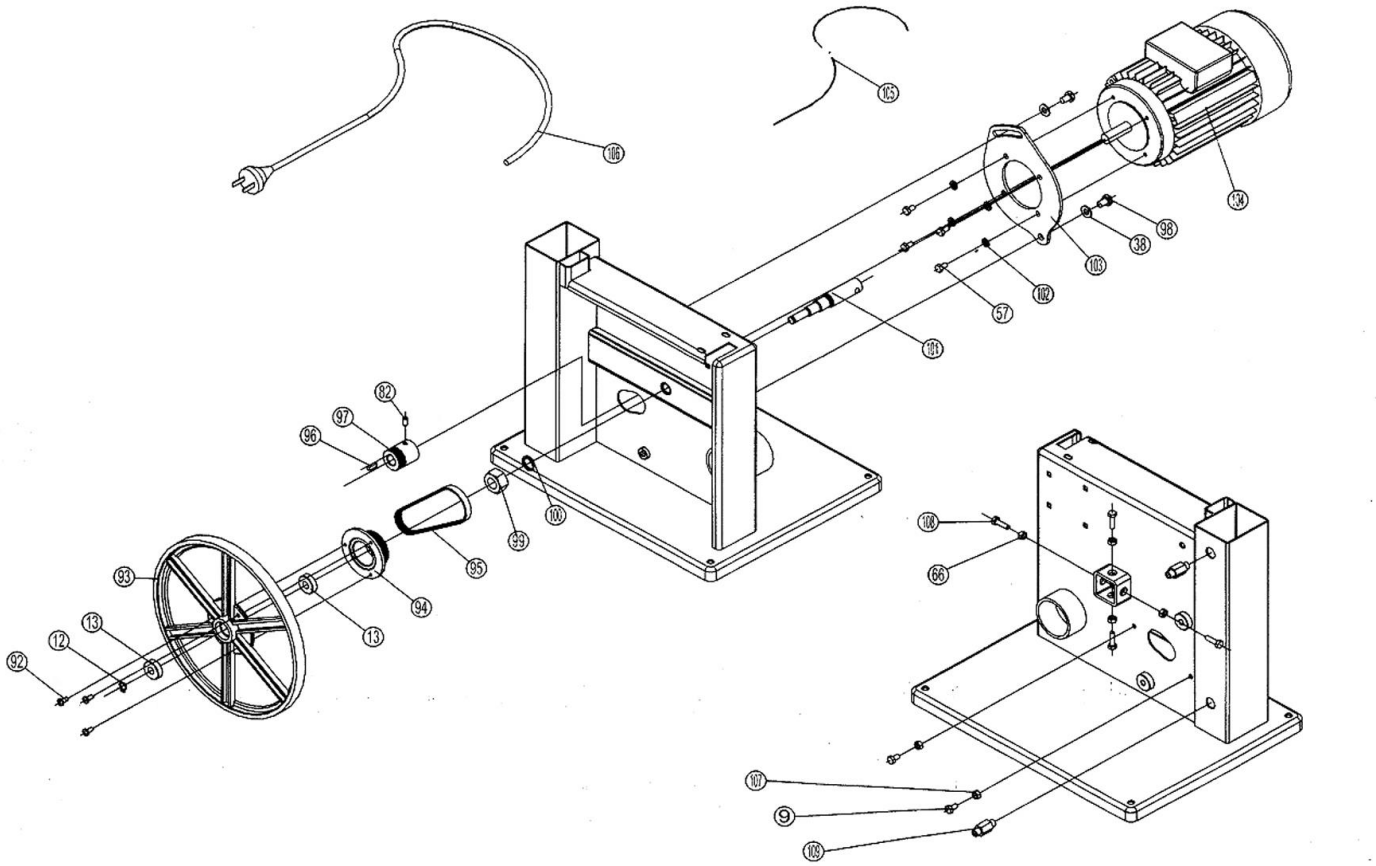
In observance of European Directive 2002/96/EC on waste electrical and electronic equipment (EEE) and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Your local refuse amenity will have a separate collection area for EEE goods

W715 Parts Diagram A



W715 Parts Diagram B



W715 10” Bandsaw Parts List

Item	Description		Item	Description
1	Slotted Insert		2	Washer
3	Housing		4	Washer
5	Lower Door		6	Housing, with Nut
7	Tongue		8	Ext. Lock Washer 6mm
9	Hex Head Bolt M6 x 10mm		10	Upper Door
11	Saw Blade		12	Retaining Ring
13	Ball Bearing		14	Upper Wheel
15	Balance Collar		16	Tyre
17	Upper Bearing Bolt		18	‘E’ Rings
19	Pin Guide		20	Upper Seat Bearing Bolt
21	Hex Head Flange Nut		22	Guide Plate Assembly
23	Countersunk Set Screw		24	NVR Switch
25	Switch Plate		26	Ext. Lock Washer
27	Pan Head Set Screw		28	Blade Tensioner
29	Frame		30	Black Plastic Plug
31	Blade Tensioner Tracking Knob		32	Nut
33	Threaded Rod		34	Washer
35	Hex Head Bolt		36	Hex Head Bolt
37	Wing Nut		38	Washer
39	Washer		40	Nut
41	Shaft		42	Spring
43	Hex Head Flange Nut		44	Spacer

Item	Description		Item	Description
45	Brush		46	Square Head Bolt
47	Hex Head Lock Nut		48	Lower Blade Guard
49	Lower Trunnion		50	Washer
51	Cap Head Screw		52	Thrust Bearing Retaining Block
53	Guide Pin		54	Thrust Bearing Shaft
55	Thrust Bearing		56	Setting Screw
57	Hex Head Bolt		58	Table Insert
59	Table		60	Coach Bolt
61	Guide Piece		62	Upper Trunnion
63	Indicator		64	Tilt Locking Lever
65	Hex Head Bolt		66	Nut
67	Hex Head Bolt		68	Rip Fence Carrier
69	Roll Pin		70	Rip Fence Locking Lever
71	Spindle		72	Rip Fence Slide
73	End Cap		74	Fence
75	Spring		76	Clamp
77	Threaded Rod		78	Shaft
79	Upper Blade Guide Bracket		80	Self Tapping Screw
81	Upper Blade Guide Housing		82	Cap Head Screw
83	Cap Head Screw		84	Upper Blade Guide – Fixed Piece
85	Upper Blade Guide – Moveable Piece		86	End Cap
87	Screw		88	Rack
89	Guide		90	Upper Blade Guard Adjustment Knob
91	Locking Knob		92	Screw
93	Lower Wheel		94	Driven Pulley
95	Drive Belt		96	Key
97	Motor Pulley		98	Coach Bolt
99	Nut		100	Spring Washer
101	Upper Bearing Bolt		102	Spring Washer
103	Motor Mounting Plate		104	Motor
105	Motor Cable		106	Mains Cable
107	Nut		108	Hex Head Bolt
109	Strain Relief		110	Shaft

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