charnwood

Woodworking machinery at its best!

8” BANDSAW
OPERATORS MANUAL
MODEL: W711

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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.

Specification

Table size	300mm x 300 mm
Motor	300W, 0.4hp (240v)
Blade length	1400mm (55 1/8”)
Blade speed (no load)	1400±10% m/min
Maximum depth of cut at 90º	80mm (3.2”)
Throat capacity	200mm (8”)
Dust extractor hose connection	40mm (1.5”)
Weight	25kg nett/27kg gross

Unpacking

The bandsaw is supplied in one carton

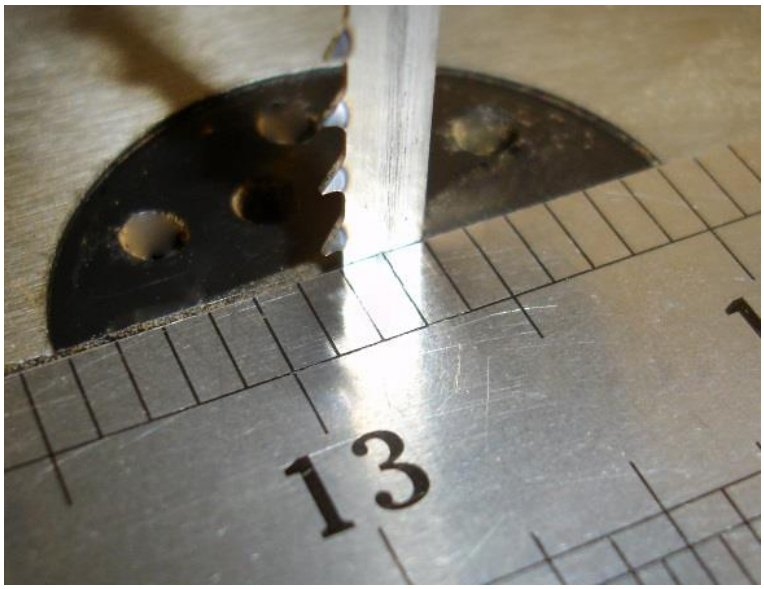
After cutting the tape at the top of the box, invert it on a table or bench and lift it off the polystyrene insert. Separate the two pieces of packing and remove all the components.

Assembly

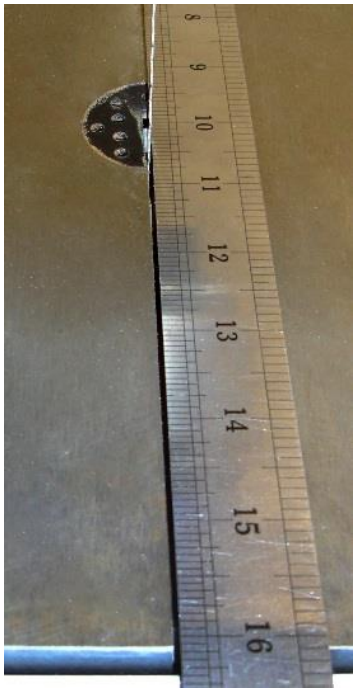
Place the saw, so that it is lying on its back.

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.

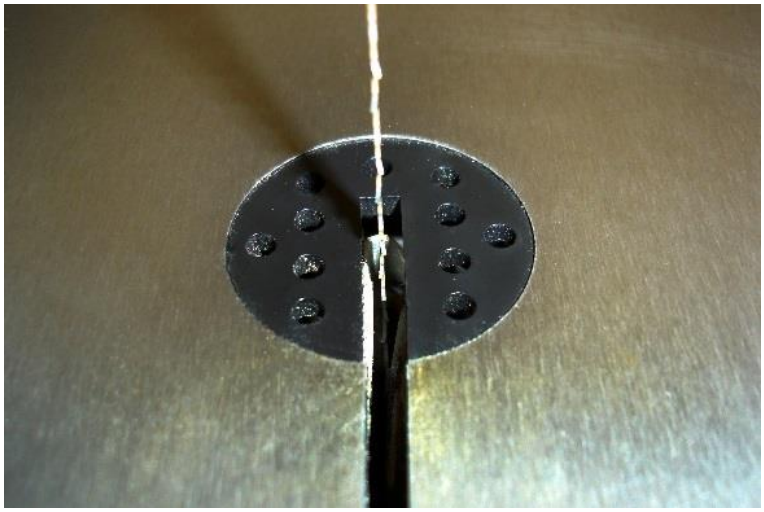


Carefully place a steel rule against the side of the blade, between teeth.



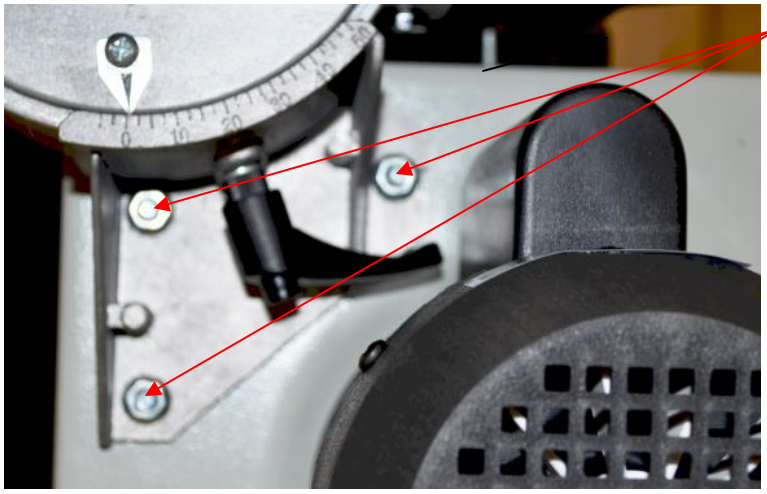
Twist the table on the trunnion until the rule is aligned with the slot.

Tighten the four bolts holding the table to the trunnion.



Check to see if the blade is centred in the slot. You will probably find that it is offset to one side or the other.

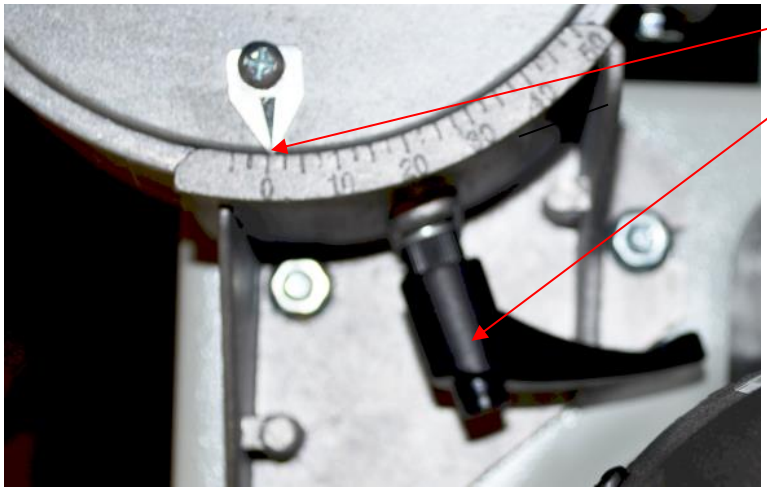
The gap in the insert allows for 45° cutting.



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

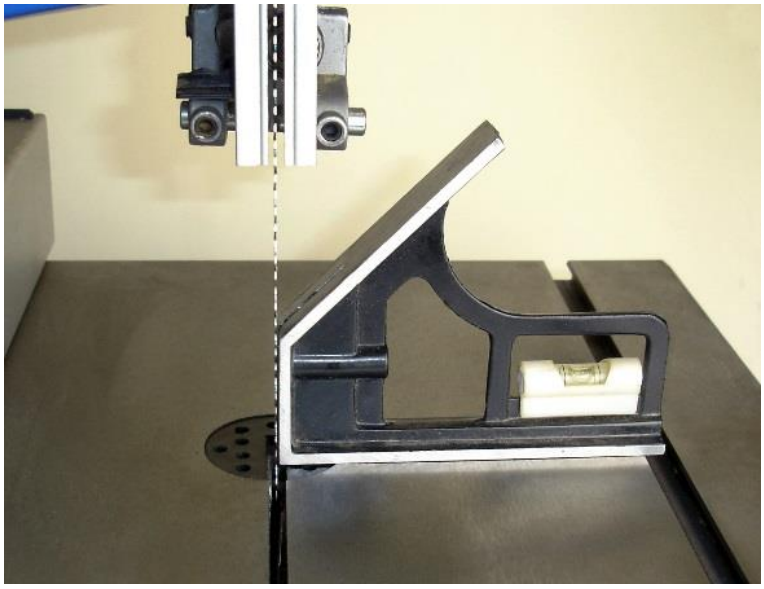
These may be slackened and the trunnion slid in either direction until the blade is centred.

After adjustment, tighten them securely.



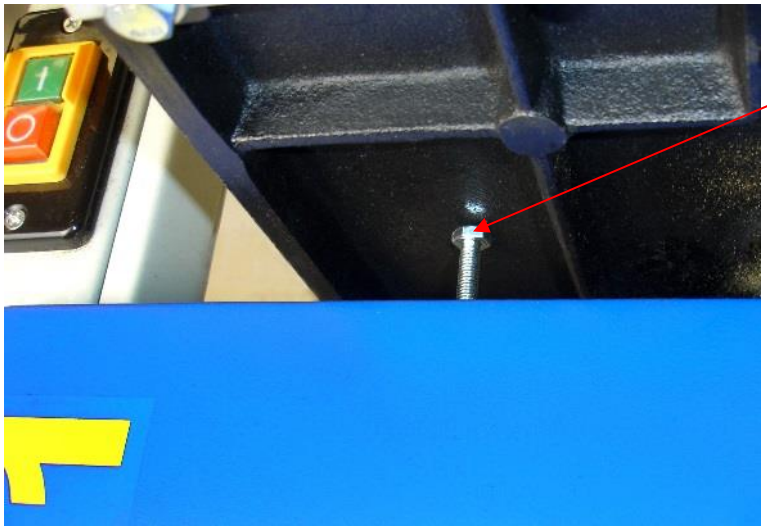
Adjustable pointer.

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



Having set the table so that the blade is centred, use a set square position the table at right angles to the blade.

Lock it in position and if necessary, adjust the pointer so that it aligns with the zero as shown above.

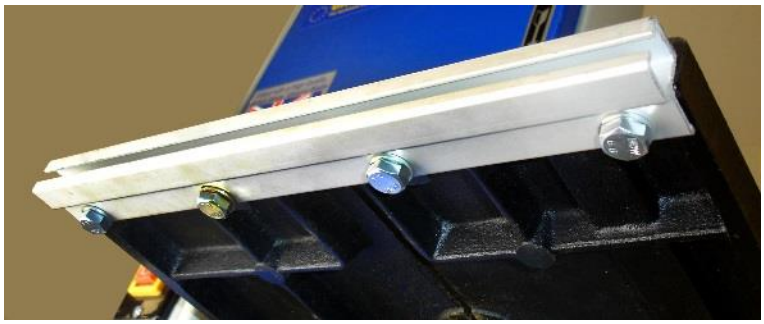


Tilt the table to 45°

Insert the table stop screw, complete with locking nut, into the tapped hole on the top face of the saw's lower housing.

Reset the table to 0° and adjust the screw so that it touches the underside of the table.

Secure it in this position with the locknut.



Attach the Rip Fence Carrier to the front edge of the table using the four M8 x 12mm bolts provided.

Screw in and lock the push stick hanger on the side of the frame.

This completes the assembly of your saw.

Setting Up The Bandsaw

Blade tensioner

Blade guard height adjuster and lock

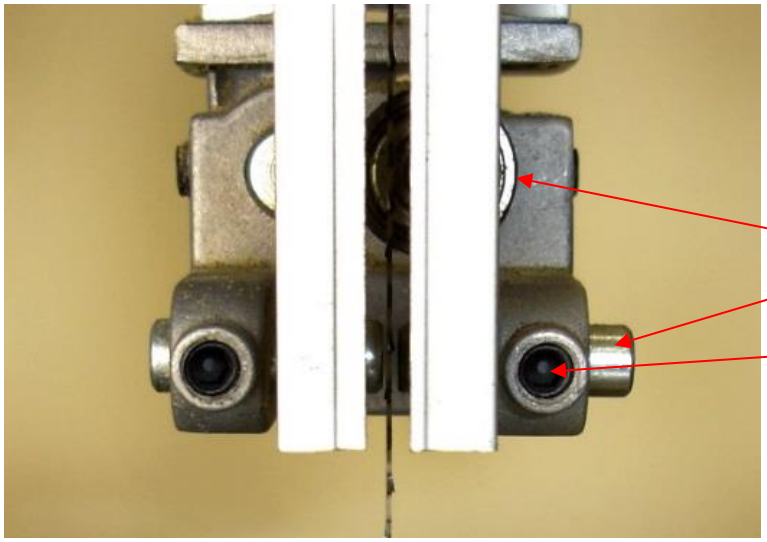
Tracking control and lock

Set The Blade Tension
Turn the blade tensioner clockwise to increase the tension. Turn the knob anticlockwise to lower the tension.

Raise the blade guard to its highest position and increase the tension until it is only possible to deflect the blade sideways by 2 to 3 mm at its midpoint between the table and the guard.

Set The Blade Tracking
When fitting a new blade it may be necessary to adjust the tracking (the alignment of the top wheel).
The blade should sit on the centre or to the front of the rubber tyre on the wheels.
To check the tracking, open both doors and rotate the top wheel by hand.
If the blade starts to move towards the front edge of the wheel, turn the tracking control (located at the rear) clockwise.

Lock the tracking control in this position.

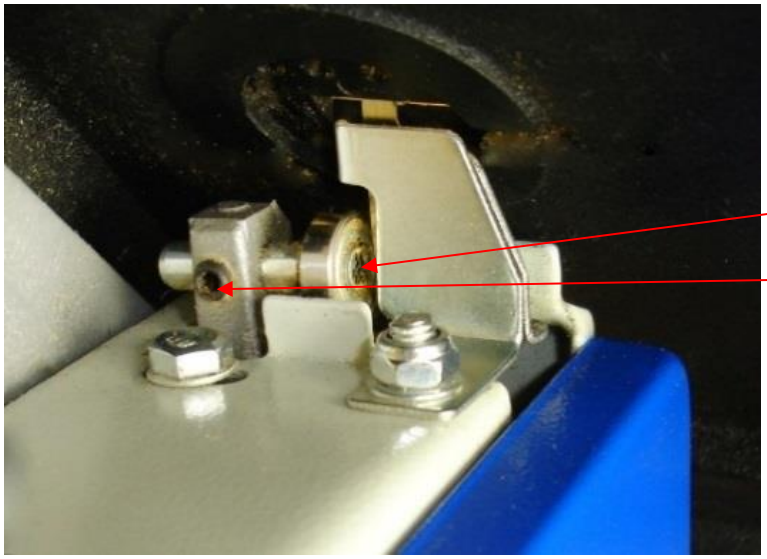


Set The Upper Blade Guides

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

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

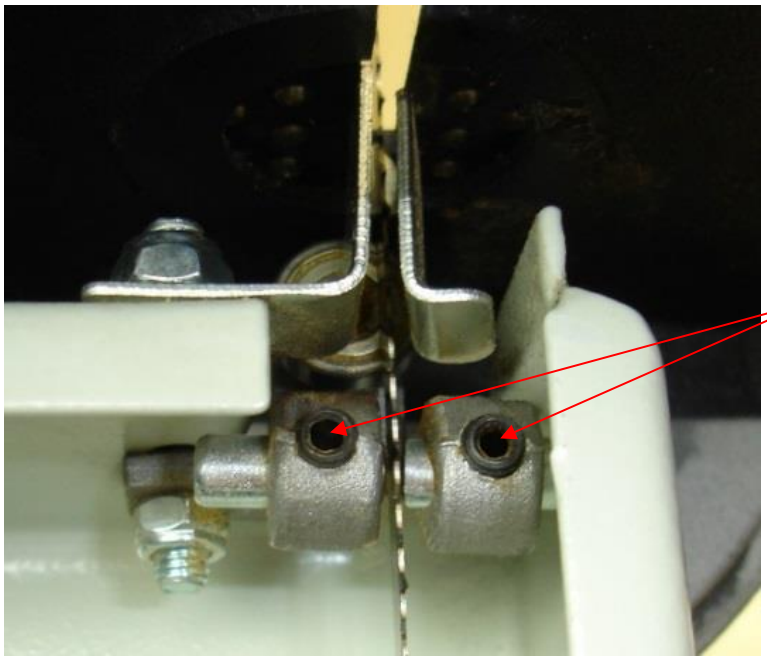
Slacken the guide pin locking screws then adjust the pins so that there is a clearance of 0.5mm either side of the blade. Lock the pins in place with the grub screws.



Set The Lower Blade Guides

The lower thrust bearing is adjusted similarly.

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

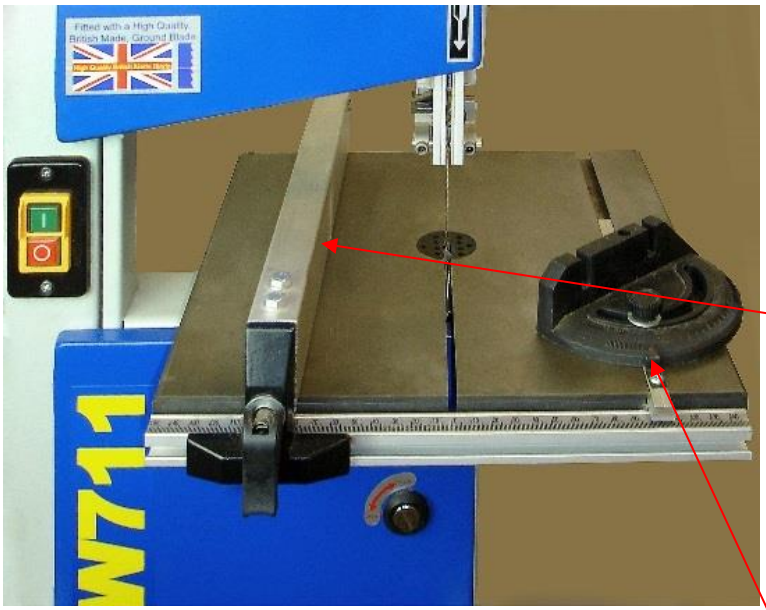


Slacken the guide pin locking screws then adjust the pins so that there is a clearance of 0.5mm either side of the blade. Lock the pins in place with the grub screws.

Making A Cut

For every type of of cut, the blade guard should be lowered so that the bottom edge of the guide 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.



Rip Fence

Mitre Fence

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

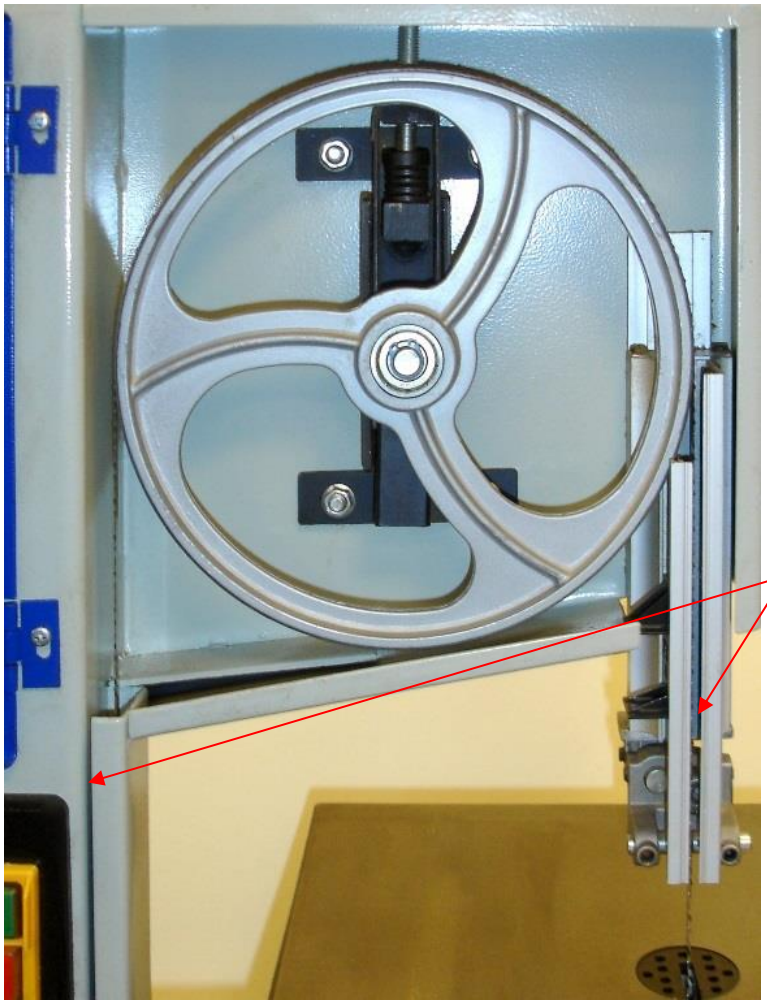
Blade width	Min. Diameter
6mm (1/4”)	60mm (2.1/2”)
10mm (3/8”)	100mm (4”)

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 on the left gives a guide.

Note: Once you have cut curves with a blade, the set 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 for straight cuts and one blade for curved cuts.

Your bandsaw is now ready for use.
It is recommended it be bolted to a bench and a suitable dust extractor be attached.

Changing The Saw Blade



Take care as the blade teeth are sharp. Wear protective gloves if necessary.

Unplug the power supply.

Remove the rip fence guide rail by loosening the fixing bolts underneath the table.

Open both doors and reduce the blade tension by turning the tension knob anticlockwise.

Lower the blade guard fully down.

Slide the blade off the wheels and ease it out through the slots in the left hand column, the blade guard and the table.

Reverse these steps to fit the new blade. Ensure that the teeth are at the front and pointing down.

If the new blade is a different width, tension & track the blade first, then adjust the guide pins and thrust bearings as shown in this manual.

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	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 Band Saw, Model W711

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

And further conforms to the machinery example for which the EC type examination Certificate No. BM 50360183 &AE 50341198 have been issued by TUV Rheinland LGA Products GmbH, Tillystasse 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

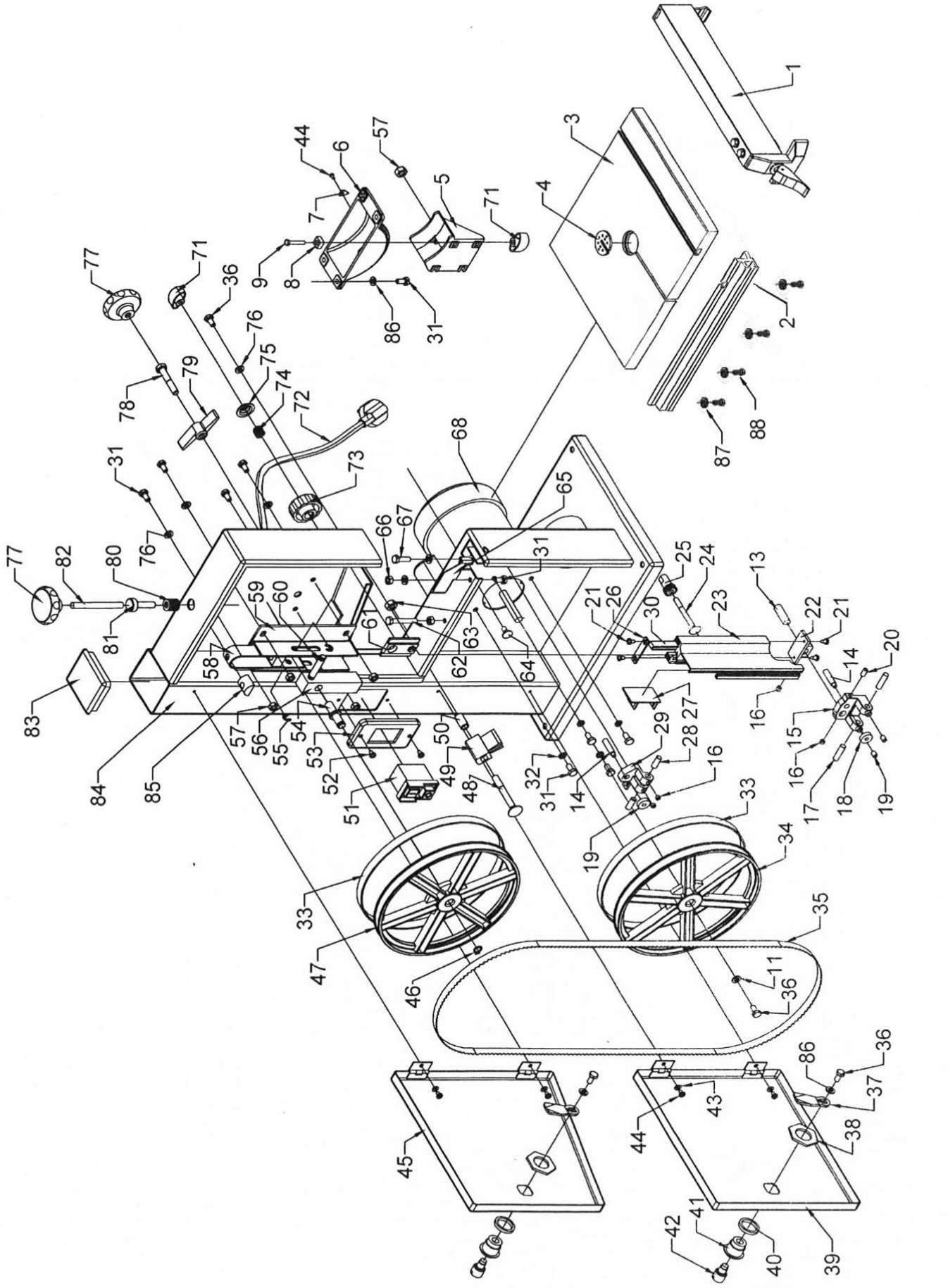
Richard Cook, Director

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

Charnwood W711 Bandsaw Parts Diagram



Charnwood W711 Bandsaw Parts List

ITEM	Description		ITEM	Description
1	Rip Fence		2	Fence Carrier with Scale
3	Table		4	Table Insert
5	Lower Trunnion		6	Upper Trunnion
7	Pointer		8	Guide Piece
9	Coach Bolt		12	Nut
13	Locking Pin		14	Thrust Bearing Shaft
15	Upper Guide Housing		16	Cap Head Setscrew
17	Guide Pin		18	Thrust Bearing
19	Cap Head Setscrew		20	Cap Head Setscrew
21	Self-Tapping Screw		22	Upper Guide Seat
23	Guide Lever		24	Coach Bolt
25	Shaft		26	Cover Board
27	Slide Board		28	Lower Guide Pin
29	Lower Guide Housing		30	Rack
31	Hex Head Bolt		32	Spring Washer
33	Tyre		34	Lower Wheel
35	Blade		36	Hex Head Bolt
37	Latch		38	Nut
39	Lower Door		40	Washer
41	Latch Housing		42	Slotted Insert
43	Washer		44	Bolt
45	Upper Door		46	Circlip
47	Upper Wheel		48	Coach Bolt
49	Brush		50	Spacer
51	NVR Switch		52	Screw
53	Switch Plate		54	Upper Bearing Bolt
55	Bearing Gasket		56	Upper Bearing Bolt Support
57	Flanged Nut		58	Blade Tensioner
59	Guide Plate Assembly		60	Guide Pin
61	Guide Piece		62	Hex Head Bolt
63	Flanged Put		64	Coach Bolt
65	Lower Blade Guard		66	Lock Nut
67	Hex Head Bolt		68	Motor
71	Locking Knob		72	Mains Cable & Plug
73	Upper Guard Positioning Knob		74	Spring
75	Cover		76	Washer
77	Tension Control Knob		78	Hex Head Bolt
79	Wing Nut		80	Spring
81	Shaft		82	Threaded Rod
83	End Cap		84	Frame
85	Nut		86	Serrated Lock Washer
87	M8 Plain Washer		88	M8 x 12mm Hex Head Bolt

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Updated September 2018

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