INSTRUCTION MANUAL

RS₁

SINGLE SPEED VERTICAL BANDSAW



READ THE INSTRUCTIONS
CAREFULLY BEFORE
USING THIS PRODUCT

Master

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GENERAL ARRANGEMENT



Key

Upper bandwheel door Lower bandwheel door

Tension indicator

A 5 6 Start/stop switch

Blade brush

Stand (optional)

7 Dust extraction port

8 Lower blade guard

Table

Rip fence 10

Upper blade guard 11

Blade tension adjuster 12

Blade guide adjustment lock 13

Blade tracking adjuster 14

Rating/serial number label 15

Table insert 16

SPECIFICATION			STANDARD/OPTIONAL EQUIPMENT
Electrical Supply Motor Power	(kW)	230V 50Hz 0.55	Reversible rip tence Blade
Current	(A)	2.8	Instruction manual •
Rating	Int.	TEFV	Tools
Motor speed	r/min	930	Depth stop o
Slopping time	(secs)	<10	Mitre fence o
leight under	/ h	005	Circle cutting attachment o Stand o
juides	(mm)	205 295	Stand
Throat depth	(mm)		
Blade speed	(m/min)	880 2362	
Blade length	(mm)		A standard agusament
Vin blade width	(mm)	3	standard equipment
Max blade width	(mar)	12	o optional equipment
Band wheel	(mare)	305	
liameter	(mm)	500 x 485	
able size	(mm)	0 - 45	
able tilt angle	(°)		
Veight	(kg)	55 approx. < 90	
Sound power*	(dbA)	< 30	
7	20	·	
Street Constitution			
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FixIn	ng		Fixing On Centres Con
Centr			Centres (A)
			Optional stand
			Chrona arong

All dimensions are in rum and are approximate.

Due to the policy of continuous product improvement specification may change without notice.

The sound power levels quoted are emission tevels and are not necessarily working levels. Whilst there is a correlation between emission levels and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the work force include the duration of exposure, the characteristics of the work room, and other sources of noise. Also permissable exposure levels can vary from country to country. However, this information will enable the user of the machine to make a better evaluation of the hazard and risk.

HEALTH AND SAFETY ADVICE

Read the instructions carefully before using this product.

This machine should be bolted down to a rigid, stable structure at a comfortable working height in a well lit, well ventilated, uncluttered area with a non slippery floor.

The machine is isolated by disconnecting the plug from the power supply. Ensure that the plug is easily accessible for quick removal, and beware of the risk of tripping over the cable or the dust extraction hose when fitted.

Avoid wearing loose clothing, lies, loose sleeves etc.

Long hair should be covered or fied back.

Eye protection should be worn when operating this machine.

It is always advisable to wear ear protection, and it is essential when cutting resonating materials.

We strongly recommend the use of a dust extractor and visor.

When a dust extractor is not used, always use a dust mask when operating and cleaning the machine. The fine particle dust produced in sawing operations of most materials, particularly hardwoods and asbestos can be a health hazard. A port is provided on the machine for the connection of a suitable extractor, our Customer Service Department will be happy to advise you on the correct unit for your needs.

Before opening either of the bandwheel doors, isolate the machine by unplugging from the mains.

Never run the machine with the door open.

Ensure that the blade is suitable for the work to be undertaken. Do not use blades which have become blunk or damaged.

Avoid touching a hot blade immediately after the sawing operation. Always use gloves when handling saw blades.

Always lower the upper blade guide / guard assembly as close as possible to the workpiece. The lower blade guide and guards should be positioned as close as practical to the underside of the table.

Use the pushstick provided when working close to the blade.

Never place the lingers in line with the blade.

Ensure the pushstick is within reach before starting a cut.

Before attempting to release jammed material / blade, switch off and disconnect from the power supply.

Disconnect from the power supply before making any adjustments or cleaning the machine,

Never leave the machine running when not in use.

Do not expose to rain or use in damp locations.

This machine is not suitable for use in potentially explosive environments.

Cultivate safe working habits by practising the above mentioned safety measures.

HANDLING, TRANSPORTATION AND FIXING

Damage caused by incorrect handling, transportation or installation may invalidate the guarantee. Consequently if in doubt about the safe handling or installation of the machine obtain the services of a competent technician, contact STARTRITE CUSTOMER SUPPORT, or contact the organisation from which the machine was purchased.

When transporting this machine do not strap across the table or over the top of the machine (see fig 2a and 2b). Always locate retaining straps over the lower wheel box beneath the table (fig 2c).

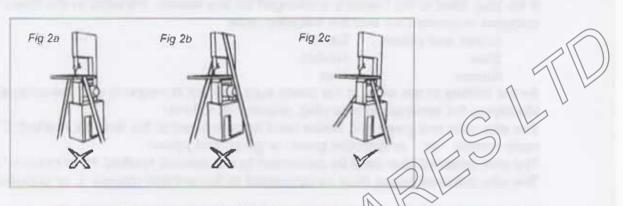
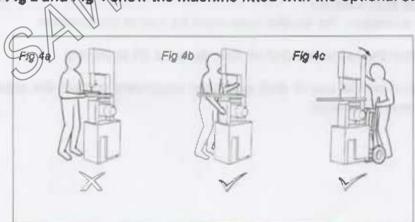


Fig 3

To minimise the risk of damage it is recommended that the machine be transported with the table detached. The table is fixed to the machine by means of a locating stud and retaining not (see fig 3). As the table mounting stud and cradle are factory set it is only necessary to position the table over the mounting stud and secure it by tightening the retaining nut using the spanner provided.

When moving and positioning this machine do not hold the table and drag it, always hold the spine or lower wheel box (see fig 4a and 4b). If moving long distances position the machine on a trolley before moving (see fig 4c).

Illustrations Fig 2 and Fig 4 show the machine fitted with the optional stand.



The machine should not be located in a confined space. Ensure that the working area is adequately lit. A cabinet located nearby is useful for the safe and secure storage of tools, blades and accessories.

The machine should be located on a solid surface that is level and fixed using four bolts (not supplied). Four mounting holes are provided in the base for this purpose. Ensure that the anti-corrosive coating is removed from the table and other working parts before use.

CONNECTION OF THE ELECTRICAL SUPPLY

The machine can only be connected to a single phase supply. Before connecting the electrical supply ensure that it is the correct voltage, phase and frequency, and that it has sufficient capacity for the machine. The relevant information can be found on the rating plate located on the rear of the machine (see fig 1).

Machines supplied for use in the UK are fitted with a BS 1363 plug fitted with a 13amp fuse. Ensure that you use the appropriate plug for use in other countries.

If the plug fitted to the machine is changed for any reason, the wires in the mains lead are coloured in accordance with the following code:

Green and yellow:

Earth

Blue:

Neutral

Brown:

Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured green and yellow must be connected to the terminal marked 'E' or by the

earth symbol 👙 or coloured green, or green and yellow

The wire coloured blue must be connected to the terminal marked 'N' or coloured black.'
The wire coloured brown must be connected to the terminal marked 'L' or coloured red.

IT IS IMPORTANT THAT THE MACHINE IS EFFECTIVELY EARTHED.

If in doubt about the connection of the electrical supply consult a qualified electrician.

CONNECTION TO A DUST EXTRACTION SYSTEM

The machine is fitted with an integral dust extraction outlet located inside the base. This can be accessed through the opening at the rear of the base (see fig 1). This is designed to accept 38mm dia. flexible hose (not supplied)

Simply insert one end of the flexible hose in the port, and connect the other end of the hose to the inlet of a suitable dust extractor.

To ensure effective extraction, the flexible hose must be free of obstructions.

For effective extraction the recommended air flow speed is 20 to 25 m/s

For further information on the use of dust extraction equipment contact the organisation from which the machine was purchased.

SETTING AND OPERATING INSTRUCTIONS

BEFORE ANY ADJUSTMENTS ARE MADE TO THE MACHINE, ENSURE THAT IT IS DISCONNECTED FROM THE ELECTRICAL SUPPLY

ADJUSTING TABLE TILT ANGLE

The table can be tilted up to 45°. To tilt the table slacken the trunnion nut using the spanner provided (see fig 6). Tilt the table to the desired angle and the align pointer with protractor scale. Ensure the trunnion nut is securely tightened before using the machine.

When sawing with the table tilted ensure the work is adequately supported by using, for example, the rip fence or the optional mitre gauge.



Fig 6

ADJUSTING BLADE GUARDS

The upper and lower blade guards are fully adjustable. They should be adjusted to leave the minimum amount of blade exposed.

The upper blade guard can be adjusted by slackening the locking handle and sliding the guard assembly up or down to the desired position (see fig 7). Ensure the locking handle is securely tightened before sawing commences.

The lower blade guard can be adjusted when the table is tilted by releasing the retaining nut and adjusting to the required position (see fig 8). Ensure the locking nut is securely tightened before sawing commences.



Fig 7



Fig 8

ADJUSTING THE BANDWHEEL BRUSH

For effective sawing it is important to ensure the lower bandwheel is kept free from dust and waste material. A bandwheel brush located near the top of the lower bandwheel is provided for this purpose. To adjust slacken the retaining nut and slide the brush toward the bandwheel whilst applying light pressure (approximately 1 kg) then tighten the retaining nut (see fig 9). Prior to operating the machine ensure that all fasteners are securely tightened. Replace the brush when the length of the bristles is less than 8mm.



Fig 9

REPLACING THE TABLE INSERT

A plastic insert is fitted in the table (see fig 1) to ensure that the blade is not damaged should contact be made. When replacing the insert ensure that the slot is aligned with the slot in the table and that the top surface of the insert is flush with the table surface.

FITTING THE BLADE

To remove the blade open both bandwheel doors, remove the upper guard by slackening the retaining screw (see fig 10a), remove the lower blade guard by slackening the retaining nut (see fig 10b), and remove the fence rail by slackening the four retaining screws located beneath the front edge of the table (see fig 10c).

Release the blade tension by rotating the blade tension adjuster (see lig 1). Carefully lift the blade from the upper and lower bandwheels and slide it through the table slot and from under the fixed guard attached to the spine.

When replacing the blade position it centrally on the bandwheels ensuring it is not snagging on the fixed guard attached to the spine of the table slot. Also ensure it is positioned between the upper and ower blade guides.

Whilst tensioning the blade it may be necessary to adjust the blade tracking to ensure the blade runs centrally on the bandwheels. Adjustment of tracking and tension is described below.

Having adjusted the blade tracking and tension replace the upper and lower guards and lence rail ensuring that all retaining screws are securely fastened. To ensure optimum cutting performance and blade life fig 10c the rip fence should be aligned with the table slot by adjusting the position of the fence rail.

BLADE TENSION ADJUSTMENT

Blade tension is adjusted by rotating the blade tension adjuster (see fig 1). Rotate the adjuster clockwise to increase blade tension and anti-clockwise to decrease blade tension (see fig 11).

BLADE TENSION INDICATION

Blade tension is shown by the blade tension indicator (see fig 12). The correct tension is dependent on the blade, material being sawn and the material thickness. More information is given in the section on blade selection later in this handbook (see table 2).





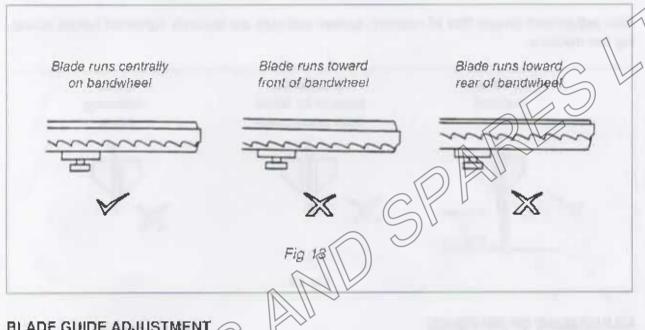
Fig 12

Fig 11

BLADE TRACKING

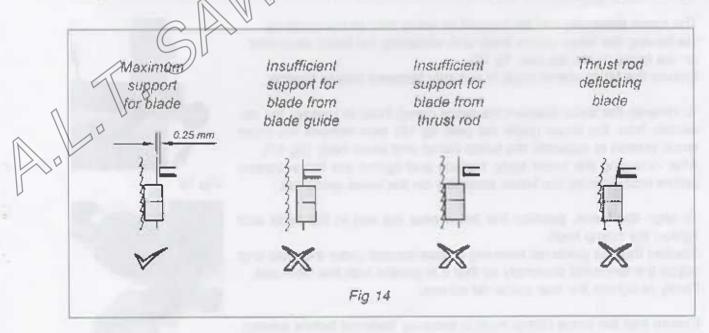
It is important that the blade runs centrally on the bandwheels (see fig 13). To lensure this it may be necessary to adjust the blade tracking. This is done by releasing the lock nut securing the tracking adjuster located on the rear of the machine. When correctly adjusted secure the adjuster by fastening the lock nut.

After replacing a blade or adjusting the tracking it is important to ensure the upper and lower blade guides are correctly set. The adjustment of these is described below.



BLADE GUIDE ADJUSTMENT

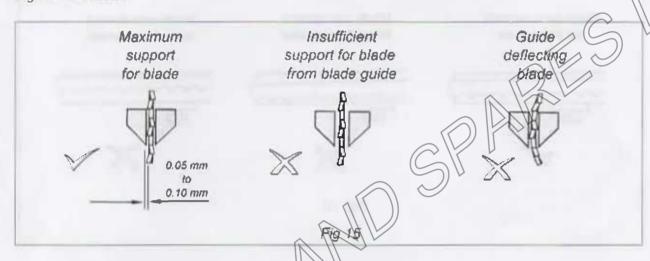
The upper and lower blade guide system incorporates lateral guidance and back edge support. It is important that blade guides are set to provide the maximum support for the blade (see fig 14).



The lateral guides are adjusted by loosening the retaining nuts and positioning them so that they just clear the gullet of the blade teeth and there is a gap of between 0.05mm and 0.10mm between the blade and the guide. The carbide tipped thrust support is adjusted by loosening the retaining screw and positioning the carbide tip to provide a gap of 0.25mm between the back edge of the blade and the end of the thrust support (see fig 15).

The height of the upper blade guide is fully adjustable. It should be adjusted to leave the minimum amount of blade exposed. The height of the upper blade guide can be adjusted by slackening the locking handle and sliding the guide assembly up or down to the desired position (see fig 7). Ensure the locking handle is securely tightened before the machine is switched on.

After adjustment ensure that all retaining screws and nuts are securely tightened before operating the machine.



ADJUSTMENT OF RIP FENCE

A reversible triple height rip fence is provided to enable safe and accurate sawing of all thicknesses of material.

The fence assembly can be located on either side of the blade by slackening the fence clamp knob and relocating the fence assembly on the fence guide rail (see fig 16).

Ensure the fence clamp knob is securely fastened before sawing.

To reverse the fence slacken the fence clamp knob to remove the assembly from the fence guide rail (see fig 16) then remove the three fence screws to separate the fence clamp and fence body (fig 17). After reversing the fence body, replace and tighten the fence screws before repositioning the fence assembly on the fence guide rail.

To align the fence, position the fence near the slot in the table and tighten the clamp knob.

Slacken the four guide rail retaining screws located under the table and adjust the fence/rail assembly so that it is parallel with the table slot. Firmly re-tighten the four guide rail screws.

Ensure that the fence clamp knob is securely fastened before sawing.



Fig 17

USING THE DEPTH STOP (OPTIONAL)

The depth stop can be used in conjunction with the rip tence to assist in the production of tenons. The depth stop is attached to the rear edge of the table by passing the fixing screw through the slot and retainer, then fastening the retaining screw. The position of the stop is adjusted by slackening the locking screw located in the top of the retainer (see fig 18).

Ensure that all screws are securely tightened before use.

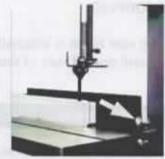


Fig 18

USING THE MITRE GAUGE (OPTIONAL)

The mitre gauge is used to produce simple or compound angle cuts. After setting the angle of cut by slackening the locking screw located the mitre gauge in the slot in the table. When cutting ensure the work piece is securely held onto the face of the mitre gauge. Compound angles can be cut by tilting the table (see fig 19).

Ensure that all screws are securely tightened before use.



USING THE CIRCLE CUTTING ATTACHMENT (OPTIONAL)

The circle cutting attachment is fixed to the mounting bracket lecated to the right of the upper blade guide assembly (see fig 20). Having sized the blank workpiece to be square and a little oversize, mark the centre. It is important that the centre of the circle is level with the front edge of the blade. This is achieved by marking the rip tence with the position of the front edge of the blade, moving it to the right of the blade by a distance equal to the radius of the circle being cut, and positioning the pointer over the mark. Hairing made a cut parallel to one side of the blank until the blade reaches the circle, stop the machine and lower the pointer by lowering guide assembly and tap the pointer into the work piece. Finally continue the cut to produce a circular blank.



Fig 20

Ensure that all fasteners are securely tightened before operating machine.

STARTING AND SAWING

Ensure that all guards are correctly adjusted and securely fixed, and that the fence is correctly positioned and secure.

The blade is set in motion by pressing the green start button located on the front of the machine (see fig 21).

Feed the work piece with even and moderate pressure. If the feed pressure is too great cutting will be inaccurate and the blade will wear prematurely.

To avoid contact with the blade use a push stick to guide work past the blade.



STOPPING

The saw blade is stopped by depressing the red stop button marked "O" located below the start control on the front of the machine (see fig 21).

MAINTENANCE

The frequency of maintenance is dependent on the frequency of use and the nature of the work undertaken. It is recommended that the following maintenance schedule is undertaken at least monthly to ensure trouble free operation. Ensure that the electrical supply is disconnected from the machine and that it has come to rest before undertaking any maintenance.

- Remove swarf, chips and dust from bandwheel tyres. Check for wear and replace bandwheels if necessary.
- Adjust bandwheel brush to ensure effective bandwheel cleaning.
- Clean dust from inside of bandwheel boxes and ensure dust extraction ducting is free from obstructions.
- Clean and check upper and lower guide assemblies for correct clearance and alignment.
 Replace if worn.
- Clean and lubricate adjusting screws with light machine oil.

Bandwheel hubs are mounted on sealed pre lubricated maintenance free bearings.

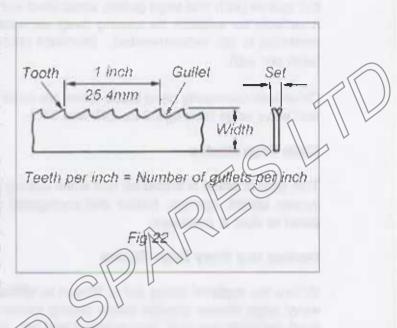
For genuine spare parts and service from July Trained engineers contact STARTRITE CUSTOMER SUPPORT or the organisation from which the machine was purchased. We can also supply blades for any application.

BLADE AND TENSION SELECTION

An understanding of the design and application of the various types of saw blades is important to enable the most effective use of your bandsaw. Table 1 provides recommendations on selecting the correct blade for a variety of comonly used materials.

SELECTION OF TOOTH PITCH

The selection of the best tooth pitch (see fig 22) is necessary for the optimum cutting performance. As the tooth pitch becomes finer a blade will have more teeth. Correct tooth pitch is primarily dependent on two factors: material thickness and material hardness. For a given material thickness a finer tooth pitch should be selected as material hardness increases. However, when the tooth pitch is too small for a given hardness the tooth loading will be insufficient to enable penetration and cutting and the teeth will rapidly lose their sharpness. A smaller tooth pitch should also decrease as material thickness decreases. The accompanying blade selection chart (table 1) gives guidance on the tooth pitch that should give the best results when cutting a variety of material types and thicknesses.



SELECTION OF TOOTH FORM

There are three most commonly specified tooth forms: regular tooth, skip tooth and hook tooth. Each will provide further improvement in cotting efficiency depending on the material being cut (see tig's 23a, 23b and 23c). The blade selection chart (table 1) includes recommendations on the choice of suitable tooth forms.

Regular Tooth Blades (fig 23a)

These are the most domoionly used blades for wood and metal cutting. The zero front rake and rounded gullets provide robust teeth with good shock resistance that are capable of good work penetration that will provide a good linish when used to cut most medium hardness materials. There is tendency to clog when used with soft or ductile materials. Standard pitches are 6, 8, 10, 14, 18 and 24 teeth per inch.



Skip Tooth Blades (fig 23b)

The tooth form is similar to the regular tooth form but alternate teeth are omitted. This allows greater gullet capacity without significantly affecting blade strength. These blades are suited for use with soft alloys or when making deep cuts in hard or wet wood, or man made materials that contain abrasive bonding agents (e.g. chipboard). For such applications best results can usually be achieved by selecting the low cutling speed. Standard pitches are 3, 4 and 6 teeth per inch.



BLADE AND TENSION SELECTION (continued)

Hook Tooth Blades (fig 23c)

Compared to the regular tooth form the hook tooth has a positive front rake which provides greater work penetration capability. This makes such blades suitable for use when cutting harder materials. In addition the coarse pitch and large gullets associated with this tooth form make it suitable for suitable for sawing deep sections. Use with abrasive materials is not recommended. Standard pitches are 2, 3, 4 and 6 teeth per inch.

Other less commonly used blade forms are knife edge, scalloped edge and wavy edge (see fig's 24a, 24b and 24c).

Knife Edge Blades

This type of blade is suited for use when cutting soft materials such as woven fabrics, sponge, rubber and corrugated cardboard. Very little swarf or dust is produced.

Scallop and Wavy Edge Blades

Where the material being cut is fibrous or difficult to sever scallop or wavy edge blades provide better culting performance. Examples of such materials are cork, filter material and felt. Very into swart or dust is produced.

SELECTION OF TOOTH SET

Tooth set is the angling of the saw blade teeth which results in them protruding either side of the main body of the saw blade. Tooth set provides a cut that is wider than the width of the blade body. This clearance enables the blade to be manoeuvred in the work piece. There are three commonly used tooth set patterns. Recommended set is given for a variety of material types and thicknesses in table 1.

Standard Set

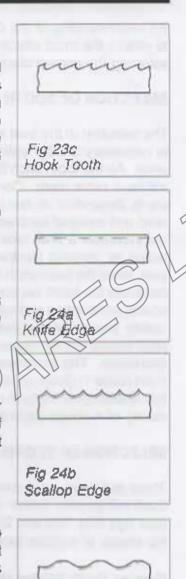
Teeth are set alternately to the left and to the right of the blade body. This pattern is particularly suitable for cutting soft materials and wood.

Baker Set (fig 25)

Teeth are set with one tooth set to the right, one to the left followed by one unset tooth. This pattern is widely preferred and is considered suitable for contour sawing.

Wavy Set (fig 25)

Groups of teeth are alternatively set to the right and then to the left. As relatively few teeth are cutting on the kerf side of the blade there is a tendency for blades to jam when cutting abrasive materials.



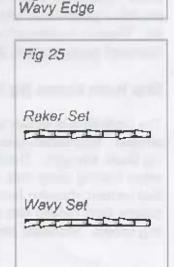


Fig 24c

BLADE AND TENSION SELECTION (continued)

For optimum cutting performance it is important to select the correct blade. Table 1 shows the recommended blade for a variety of commonly used materials. If in doubt about any aspect of blade selection contact STARTRITE CUSTOMER SUPPORT or the organisation from which the machine was purchased for assistance.

Table 1 Blade Selection Chart

Material	M	aterial Thickr	ess, t (mm)	
	t<6	6<1<12	12<1<25	t>25
Aluminium extrusion	18R	10R	8R	6S (
Thermoset plastic (Bakelite)	14B	10R	6R	3S (\
Resin bonded comp(Tutnol)	14R	10R	6H	
Formica	18R			
Glass fibre	18R	14R	10R	6H
Perspex	14R	10R		
Chipboard		6S	35(())	\\35
Fibre board	18R	14R	1	>
Hardboard	10R	6		
Plywood	10R	8R (()) (6S	3S
Strawboard	14R	TOR	U	
Cork	14R	65	45	48
Leather	14B			
Rubber	10 A) 8R	6P	
Cardboard - corrugated	sall	// SC	SC	SC
Paper sheet	May 1	6H		
			10R	6H
Paper - tissue	SC	SC	SC	SC
Papier mache	KN	10R		
Wood - log				3S
Wood - soft	6S	6S	48	48
Wood - hard	6S	3S	3\$	38
Wood - wet				3S

R - Regular Ice

R = Regular tooth

S Skip tooth H = Hook tooth

KN = Knife edge

SC = Scallop edge

Numbers denote teeth per inch

BLADE AND TENSION SELECTION (continued)

TENSION SELECTION

It is important that the blade is correctly tensioned to ensure optimum cutting performance and cutting accuracy. Table 2 below provides guidance on the appropriate tension for a variety of blade types and sizes.

Table 2 Blade Tension Guide

Blade Type	Blade Width (mm)		(mm)
	3	6	12
Metal Cutting	Low	Low	Med
Scalloped/Knife Edge	Low	Low	Low/Med

BANDSAWING PRACTICE

Having selected an appropriate blade for the particular thickness and type of material to be sawn, it is essential that the saw blade is allowed to cut freely by not applying too much pressure. The need for excessive pressure is likely to be a result of the incorrect blade selection or a worn blade and will result in inaccurate cutting and possibly blade breakage.

When contouring the width of the blade limits the minimum radius that can be cut. If the blade is too wide for the cutting radius the blade will twist and possibly jam or break. The smaller the radius the narrower the blade has to be. Table 3 provides guidance on the minimum radius to be cut with the most commonly used blade widths. Begularly examine the blade for excessive damage or cracking as a result of latigue. If such damage is present replace the blade.

It is important to use a sharp blade. But leeth result in increased leed pressure producing a poor quality finish and an inaccurate cut.

Table 3 Minimum Cutting Radius

	0				
Blade Width	(mm)	3	6	10	12
Minimum Radiu	ıs (mm)	10	25	40	60

in situations such as cutting scrolls it may not be possible to complete a cut. This requires the blade to be reversed out of the cut. Care is necessary to minimise damage to the work and blade. When removing large pieces of material it is advisable to make the shorter cut last to avoid having to reverse out of the longer cut.

Very complicated cuts and small radius curves are best accomplished with the aid of pre-drilled holes combined with a few tangential or radial cuts. This technique will achieve excellent results without putting undue tension on the blade and blade guide assembly.

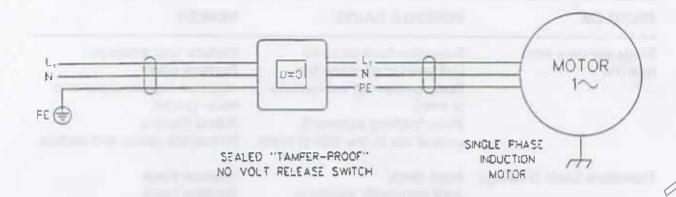
Always ensure that your machine is properley maintained and clean. Before commencing work on an important project, it is advisable to familiarise yourself with the operation of the equipment by practising on low value materials.

When cutting aluminium alloys it may be necessary to apply lubricant such as paraffin or wax to prevent clogging of the blade.

COMMON SAWING PROBLEMS

PROBLEM	POSSIBLE CAUSE	REMEDY
Blade wanders from true line	Excessive feed pressure Dull teeth or pitch too fine Blade guides not set correctly or worn Blade tracking incorrectly Loss of set to one side of blade	Reduce feed pressure Replace blade Adjust or replace upper and lower guides Adjust tracking Investigate cause and replace
Premature blade breakage	Worn blade Joint incorrectly welded or annealed Blade too wide for curved cut Bandwheels worn	Replace blade Replace blade Fit narrower blade Change bandwheels
Blade bows in deep cut	Tooth pitch too fine Excessive feed pressure Dull teeth or pitch too fine	Reduce feed pressure Fit new blade or blade with
	Insufficient blade tension Blade too narrow for depth of est Blade running out of line at start of cut	cearser bitch Increase blade tension Fit wider blade Restart cut
Teeth dull rapidly	Insufficient feed pressure Guide inserts intertening on teeth Blade pitch loo Nije	Increase feed pressure Adjust guides Fit blade with coarser pitch
Teeth break from blade	Excessive feed pressure Tooth gulleys clogging Tooth pitch too coarse Material welding to teeth	Reduce feed pressure Use lubricant or change tooth form Fit blade with finer tooth pitch Use lubricant
Blade twisting	Excessive feed pressure Blade guide interfering with teeth Blade too wide for radius of cut Insufficient blade tension Incorrect tracking Loss of set to one side of blade	Reduce feed pressure Adjust blade guides Fit narrower blade Reduce tension Adjust tracking Investigate cause and rectify
Blade vibrates	Workpiece not secured or properly seated Tooth pitch too coarse Insulficient blade tension Blade not adequately supported by thrust pad	Secure or clear obstruction Fit blade with finer pitch Increase blade tension Adjust thrust pad

WIRING DIAGRAM



RCD (Residual Current Device)

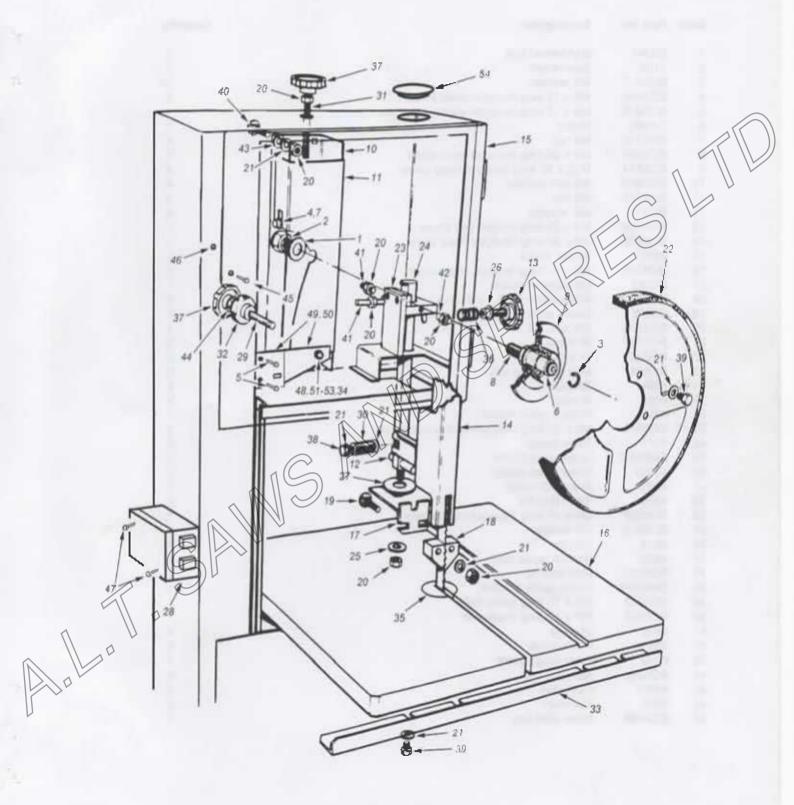
For your additional safety we always recommend the use of an RCD (sometimes called Residual Current Circuit Breaker or Earth Leakage Circuit Breaker).

PARTS LIST

UPPER BANDWHEEL BOX, BLADE GUIDE AND GUARD, AND TABLE

	ltem	Part No.	Description	Quantity
	1	BO5922	M16 washer	1
	2	BO5777	M16 lock nut	1
	3	BO6003	Circlip	
	4	BO5930	M8 star washer	2
	5	BO5059	M5 x 10 long hexagon socket cap screw	5
	6	BQ2047	Bearing	2
	7	6705	Pivot pin	1
	8	10162	Bandwheel hub spindle	
	9	10163	Bandwheel hub	
	10	SM1423	Tracking channel	1
		SM2241	Tensioning assembly mounting	
	11	SM585/A	Upper thrust rod	1
	13	CLKL	Clamping handle	
	14	SM2851	Upper guard	
	15	CXUW	Upper door	
	16	SM2862	Table	
	17	SM1434	Guide bracket	
	18	4859	Blade guide	
	19	BO5621	M8 x 30 long coach bolt	
	20	BO5715	M8 nut	12
	21	BO5917	M8 washer	19
	22	1102	Bandwheel /	
	23	4859	Guide block	
	24	4889/C	Guide post	
	25	4919	Washer	
	26	BO5792	M8 insert \\\\\)	1
	27	BO5923	M20 washer	1
	28	CXSW	Start/stop switch	1
	29	5352/B	Stud	1
	30	5496	Guard retainer	1
	31	6704	Tension stud	1
	32	6706	Tracking locking knob	1
	33	7353	Fence rall	1
	34	BO5913	M5 washer	2
	35	6756	Table insert	1
	36	BO2208	Spring	1
	37	CLKM	Hand knob	2
	38	BO5566	M8 x 40 long hexagon head screw	1
	39	BO5201	M8 12 long hexagon head screw	7
	40	BØ5620	M8 x 25 long coach bolt	4
	41	BO9208 ()		3
		BO5203	M8 x 20 long hexagon socket set screw	1
	22	BQ5944		in the second se
	4	B00344	M8 spring washer	
	42 43 44 45	805753 DOSOSO	M8 lock nut	1
//	45	BO5069	M6 x 25 long hexagon socket cap screw	
^		BOBQ	M6 screw retainer	2
	47	BO5016	2BA x 60lgHex socket set screw	4
	48	BO7782	Pivot bush	
	49	10373	Tension plate	
	50	10374	Tension indicator	
	51	BO5713	M5 nut	
	52	BO5929	M5 star washer	1
	53	BO5713	M5 x 16 long hexagon head screw	3
	54	CXPB	Plastic cap	1

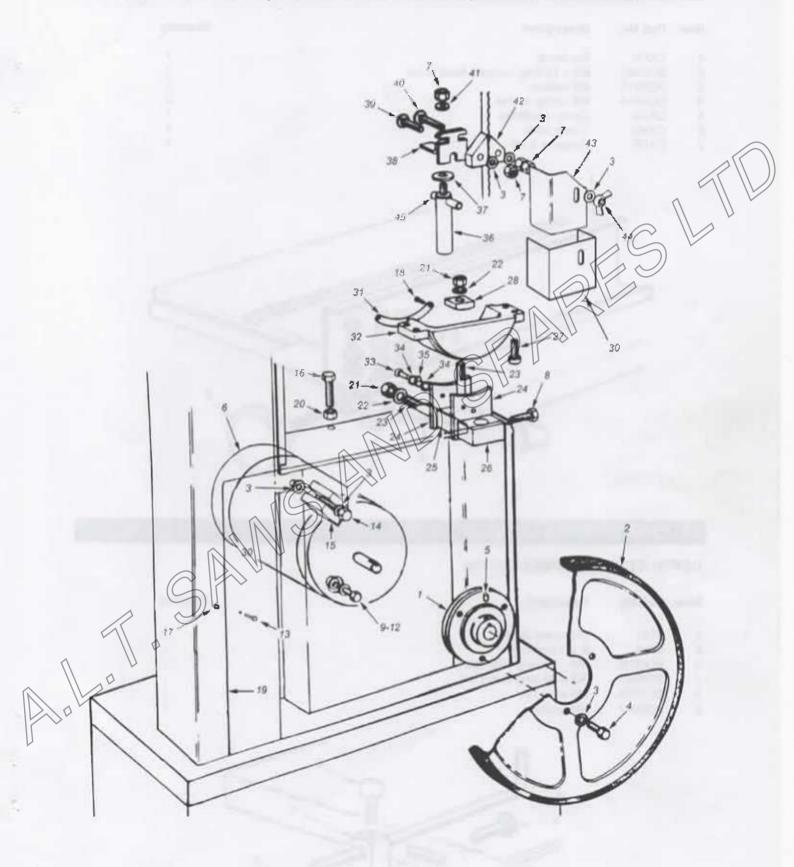
UPPER BANDWHEEL BOX, BLADE GUIDE AND GUARD, AND TABLE



LOWER BANDWHEEL BOX, BLADE GUIDE AND GUARD, AND MOTOR MOUNTING

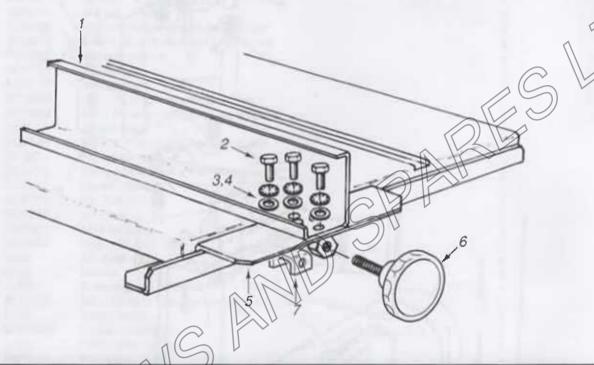
1 CXBH Bandwheel hub 2 1102 Bandwheel 3 BO5917 M8 washer 4 BO5560 M8 x 12 long hexagon head screw 5 BO5915 M6 x 12 long hexagon sockel set screw 6 CXMR Motor 7 BO5715 M8 nut 8 BO5564 M8 x 30 long hexagon head screw 9 BO5574 M10 x 30 long hexagon head screw 10 BO5930 M8 star washer 11 BO5715 M8 nut 12 BO5717 M8 washer 13 BO5069 M6 x 25 long hexagon cap screw 14 BO5568 M8 x 50 long hexagon head screw 15 2270 Wheel brush 16 BO5566 M8 x 40 long hexagon head screw 17 BOBQ M6 screw retainer 18 BO5871 Drive screw No.4 x 1/4" long 19 CXLW Lower door 20 BO5753 M8 lock nut 21 BO5717 M12 nut 22 BO5921 M12 washer 3 SO5921 M12 washer	
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18 BO5871 Drive screw No.4 x 1/4" long 19 CXLW Lower door 20 BO5753 M8 lock nut 21 BO5717 M12 nul	
19 CXLW Lower door 20 BO5753 M8 lock nut 21 BO5717 M12 nut	
20 BO5753 M8 lock nut 21 BO5717 M12 nul 1	
21 BO5717 M12 nul 3	
AC DOUGET THE TRANSPORT	
23 BO5841 M12 x 80 long stud 3	
24 4884 Tilt plate 2	
25 4885 Spacer \\\\	
26 4890 Boltom guide holder	
27 BO5075 M8 x 25 long hexagon socket dap schew 4	
28 4911 Table clamp	
29 SM585/B Lower thrust knob	
30 10507 Outer lower guards (
31 4921 Protractor plata \\)	
32 4838 Table bracket	
33 BO5552 M6 x 10 long hexagon head screw	
34 BO5915 M6 washer 2	
35 2812 Pointer 1	
36 4888 (Bottern guide post	
37 BO5923 M20 washer 1	
38 SM829/B Lower guide bracket	
39 BØ5621 M8 x 30 long coach bolt 1	
40 BO5622 ♦ M8 x 45 long coach bolt	
41 4919\\ Washer 1	
42 4891 Blade guide 2	
42 4891 Blade guide 2 43 6748 Inner lower guard 1 44 BO5785 M8 wing nul 1 45 ABPS Pushstick 1	
44 BO5785 M8 wing nut	
45 ABPS Pushstick 1	
46 5056 Spanner 2	
47 BO6483 5mm allen key 1	

LOWER BANDWHEEL BOX, BLADE GUIDE AND GUARD, AND MOTOR MOUNTING



RIP FENCE ASSEMBLY SM3116

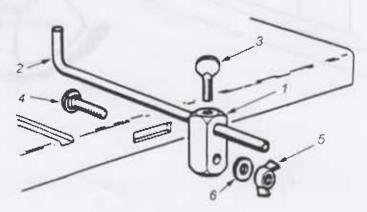
. Description	Quantity
Rip fence	1
M8 x 12 long hexagon head screw	3
	3
M8 spring washer	3
Clamp assembly	1
Clamp knob	-1
Pressure plate	1
	Rip fence M8 x 12 long hexagon head screw M8 washer M8 spring washer Clamp assembly Clamp knob



OPTIONAL EQUIPMENT

DEPTH STOP ASSEMBLY SM1436

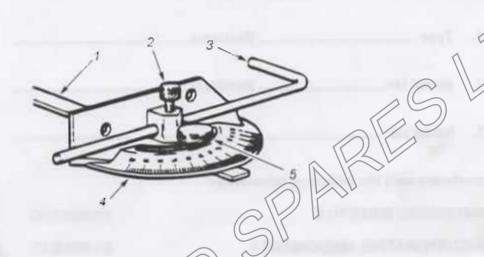
Item Parl No.	Description	Quantity
1 6747 2 6749 0 3 B05826 4 B05621 B05785 0 6 B05917	Clamping block Back stop rod M8 x 10 long wing screw M8 x 30 long coach bolt M8 wing nut M8 washer	1 1 1 1



OPTIONAL EQUIPMENT (continued)

MITRE GAUGE ASSEMBLY SM1432

Item	Part No.	Description	Quantity
1	211	Guide strip	1
2	126	Thumb screw	1
3	6749	Back stop rod (supplied with depth stop assembly SM1436)	1
4	9791	Protractor	1
5	6234	Thumb screw	1



CIRCLE CUTTING ATTACHMENT SM1437

Item	Part No.	Description	Quantity
1	BO5715 4919	M8 nut Washer	1
3	6746	Clamping sleeve	1
4	6744	Centre od	1
5	6745	Clarping boll	1

